

RECEIVED
FEB 4 1999
H & A OF NEW YORK

FACILITY ASSESSMENT REPORT
DELPHI INTERIOR AND LIGHTING SYSTEMS
TRENTON, NEW JERSEY

Prepared for
General Motors Corporation

Draft: April 1997
Final Draft: June 1997

Prepared by
EMCON
Crossroads Corporate Center
One International Blvd., Suite 700
Mahwah, New Jersey 07495

Project 85820-000.001

Privileged and Confidential
Prepared at General Motors Counsel's Request

CONTENTS

EXECUTIVE SUMMARY	iv
1 INTRODUCTION	1-1
2 FACILITY DESCRIPTION	2-1
2.1 Buildings	2-1
2.2 Products	2-2
3 SCOPE OF WORK	3-1
3.1 Structural Assessment	3-1
3.2 Equipment Assessment	3-1
4 SAMPLING AND ANALYSIS PROGRAM	4-1
4.1 Sampling Plan	4-1
4.2 Data Summary and Analysis	4-2
5 INVESTIGATION RESULTS	5-1
6 WASTE VOLUMES	6-1
7 FACILITY DECONTAMINATION COST ESTIMATE	7-1
8 SCHEDULE	8-1
LIMITATIONS	
APPENDIX A SAMPLING PLAN	
APPENDIX B LABORATORY ANALYSIS SUMMARY	
APPENDIX C LABORATORY REPORTS	
APPENDIX D DECONTAMINATION COST ESTIMATE ASSUMPTIONS	
APPENDIX E CFC EQUIPMENT INVENTORY	

EXECUTIVE SUMMARY

At the request of General Motors Counsel, General Motors Corporation Worldwide Facilities Group (GM) retained EMCON to perform a Facility Assessment for the Delphi Interior and Lighting Systems Facility (Delphi), located in Trenton, New Jersey. This assessment was conducted in support of the property disposition strategy for the deactivation and demolition of the facility.

The Delphi Interior and Lighting Systems Facility (Delphi) is located at 1445 Parkway Avenue, Trenton, New Jersey. Built in 1938, the plant is situated on 84 acres with 1,176,247 square feet of total floor space. The facility is comprised of 11 buildings.

Products manufactured at the Delphi plant have included windshield garnish moldings, script moldings, vent assemblies, glove compartment doors, horn buttons, die cast door handles, chrome-plated handles, window regulators, seat adjusters, and locks.

The Facility Assessment was conducted in March 1997 and included a structural assessment and an equipment assessment. The structural assessment included an evaluation of the building structures to determine the level of cleaning needed to permit facility demolition and ultimate disposal. The equipment assessment included an evaluation of equipment and machinery to determine the level of cleaning required prior to equipment transfer to other GM facilities, equipment sale and/or disposal.

As part of this project, a sampling and analysis program was conducted to determine contaminants and contamination levels, assist in the development of facility cleanup procedures and provide data for preliminary waste classification of various building materials. The data from this program were also used to develop decontamination and waste disposal cost estimates.

As a result of the facility assessment activities performed, 24 items were identified that will need to be addressed during the course of the deactivation and demolition of the Delphi plant as follows:

Item Number	Description
1	Above Ground Storage Tanks
2	Transformers
3	CFCs
4	Mercury Switches
5	Lab Packs
6	Hydraulic/Gear Oil
7	Galbestos
8	Lead Paint Abatement
9	Electrostatic Painting/Degreasing Equipment
10	ELPO System
11	Black Phosphate Area
12	Scrap Pits
13	Zinc Die Cast
14	Rack Strip/Nitric Acid Tanks
15	Plater #12
16	Rack Incinerators
17	Oil Residues
18	Ducts and Truss Cleaning
19	Sewer Lines
20	Lighting and Ballasts
21	Emergency Lighting
22	Wastewater Treatment Plant
23	Demolition
24	Former Die Cast, Plater and Anodizer Pits

Required deactivation, decontamination, and demolition activities can be categorized into the following groups: equipment decommissioning and/or disposal; cleaning and decontamination prior to demolition that will minimize the volume of non-hazardous and hazardous wastes requiring disposal as well as reduce the potential for worker exposure during demolition; demolition; waste disposal and post-demolition activities.

A detailed summary of deactivation activities required for each of these items is provided in Table 2 (see Section 7). This summary includes a description of each item, location information, size information (number of units, waste volume, dimensions etc.), the specific environmental issue(s) requiring consideration, and preliminary waste classifications.

The remediation cost estimate for the environmental deactivation of the Delphi facility is \$12.1 million (1999 dollars), exclusive of asbestos abatement, demolition, and salvage.

Current planning calls for the cessation of plant operations between June-December 1998. Facility decontamination and demolition will occur over a 2-year period spanning 1999 through 2000.

As several portions of the plant are currently inactive (and likely to remain so until the cessation of plant operations), the opportunity exists for GM to initiate several decontamination activities starting in 1997 as follows:

- Assistance to plant personnel with the certification of equipment and tank cleaning. This activity would simplify the equipment disposition and salvage process.
- Performing the closure of non-functional laboratories with the associated lab packing activities.
- Cleaning and decontamination of the Electrostatic Painting/Degreasing Equipment on the second floor of Unit 3 of the Manufacturing Building as this process line is permanently out-of-service.
- Cleaning and decontamination of the Black Phosphate Area, Rack Strip/Nitric Acid Tanks, the Zinc Die Cast Area, and Plater #12
- Further delineation of the locations of the Former Die Cast, Plater and Anodizer Pits. At least, a more in-depth records review should be conducted coupled with employee interviews.

The initiation of select cleaning and decontamination activities at this time will lead to a significant reduction in the schedule required for demolition and ultimate disposition of the property. This schedule reduction, after the plant ceases operation, coupled with the opportunity to perform select cleaning activities now, will lead to an overall cost reduction in the deactivation process.

1 INTRODUCTION

At the request of General Motors Counsel, General Motors Corporation Worldwide Facilities Group (GM) retained EMCON to perform a Facility Assessment for the Delphi Interior and Lighting Systems Facility, located in Trenton, New Jersey. This assessment was conducted in support of the property disposition strategy for the deactivation and demolition of the facility pursuant to Purchase Order No. WHS 12884.

The following Facility Assessment Report presents the results of the investigation conducted at the plant during March 1997. In performing this work, the following activities were completed:

- A records review was conducted to establish the nature of both past and current operations as related to possible environmental decontamination requirements prior to facility deactivation and demolition.
- A sampling program was conducted to permit the preliminary waste classification of various building materials, residues, dusts, siding, sumps, etc. for subsequent demolition management planning, and disposal cost estimation purposes.
- Inventories were performed of facility components and equipment that will require environmental deactivation/cleaning prior to demolition including aboveground storage tanks, transformers, refrigeration units, laboratories, production equipment, sewers, lighting, etc.
- Areas within the plant requiring cleaning and decontamination were identified, and cost estimates developed.
- Waste volume and disposal cost estimates were developed for hazardous and non-hazardous materials that will be generated as part of the deactivation and demolition process.
- A preliminary schedule was developed for the performance of the project.

2 FACILITY DESCRIPTION

The Delphi Interior and Lighting Systems Facility (Dephi) is located at 1445 Parkway Avenue, Trenton, New Jersey. Built in 1938, the plant is situated on 84 acres with 1,176,247 square feet of total floor space.

2.1 Buildings

The facility is comprised of 11 buildings as depicted in Drawing 1, and presented in the following table:

Building	Total Square Footage
Manufacturing	1,087,895
Salvage (Maintenance)	49,897
Powerhouse	23,912
Paint Storage	4,358
Wastewater Treatment	3,990
Garage	3,150
Primary Switch House	1,356
Gas Bottle Storage	760
Gas Meter House	576
Pump House	300
East Gate House	53

The Manufacturing Building is comprised of 7 units built between 1938 and 1944. Minor additions were made in the 1950s and 1960s. Units 3, 4, and 6 have second floors. The Powerhouse, Primary Switch House, Gas Bottle Storage, Gas Meter House and East Gate House, were built in 1938. The Salvage, Paint Storage and Garage Buildings were erected in 1944; the Pump House in 1949, and the Wastewater Treatment Building in 1973.

2.2 Products

Products originally manufactured at the Delphi plant included windshield garnish molding, glove compartment doors, die cast door handles, window regulators, seat adjusters, and locks.

During World War II, automobile part production stopped, and in cooperation with Grumman Aircraft, the Avenger Torpedo Bomber, was manufactured at the site. A total of 7,546 planes were produced at this location.

Since the war, a variety of automobile parts have been manufactured including vent assemblies, script moldings, seat adjusters, horn buttons, painted parts in all colors, and chrome-plated handles. Several of these operations continue to this day.

3 SCOPE OF WORK

The Facility Assessment was conducted in two parts: a Structural Assessment, and an Equipment Assessment. The components of each of these assessments are described in the sections which follow.

3.1 Structural Assessment

The structural assessment included an evaluation of the building structures to determine the level of cleaning needed to permit facility demolition and ultimate disposal. Building materials sampled and analyzed as part of this effort included: wood block flooring, concrete flooring, trusses, stacks, roofing, duct work, exhaust piping, sumps, drains, and siding. In addition, residues were analyzed for chemical composition from either previous or current manufacturing operations. Section 4 — Sampling Program, presents the analytical results for this assessment.

Based upon the sampling results, areas within the plant were identified which will require cleaning and decontamination prior to facility demolition. A listing of these areas is presented in Section 5 — Investigation Results.

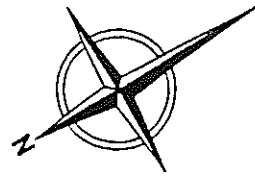
Preparation of a Fugitive Dust Plan and Stormwater Plan was not performed during this phase of the project, but will be prepared during the Observation and Certification (O&C) phase.

3.2 Equipment Assessment

The equipment assessment included an evaluation of equipment and machinery to determine the level of cleaning required prior to equipment transfer to other GM facilities, equipment sale and/or disposal. Equipment evaluated included: process tanks, above ground storage tanks, presses, benders, brakes, process tools, dock plates, compactors, paint shop equipment, and other process or facility equipment.

Inventories were prepared for planning the deposition of chlorinated fluorocarbons (CFCs), transformers and other PCB-containing power equipment, lighting fixtures, mercury switches, emergency lighting equipment and exit signs. Inventory results are presented in Section 7 and Appendices D and E.

No equipment sampling was performed as part of this effort. Equipment cleaning and fluid disposal estimates were based on either available plant records and/or equipment knowledge of the potential environmental management issues common to GM facilities.



LEGEND:

R03I-01

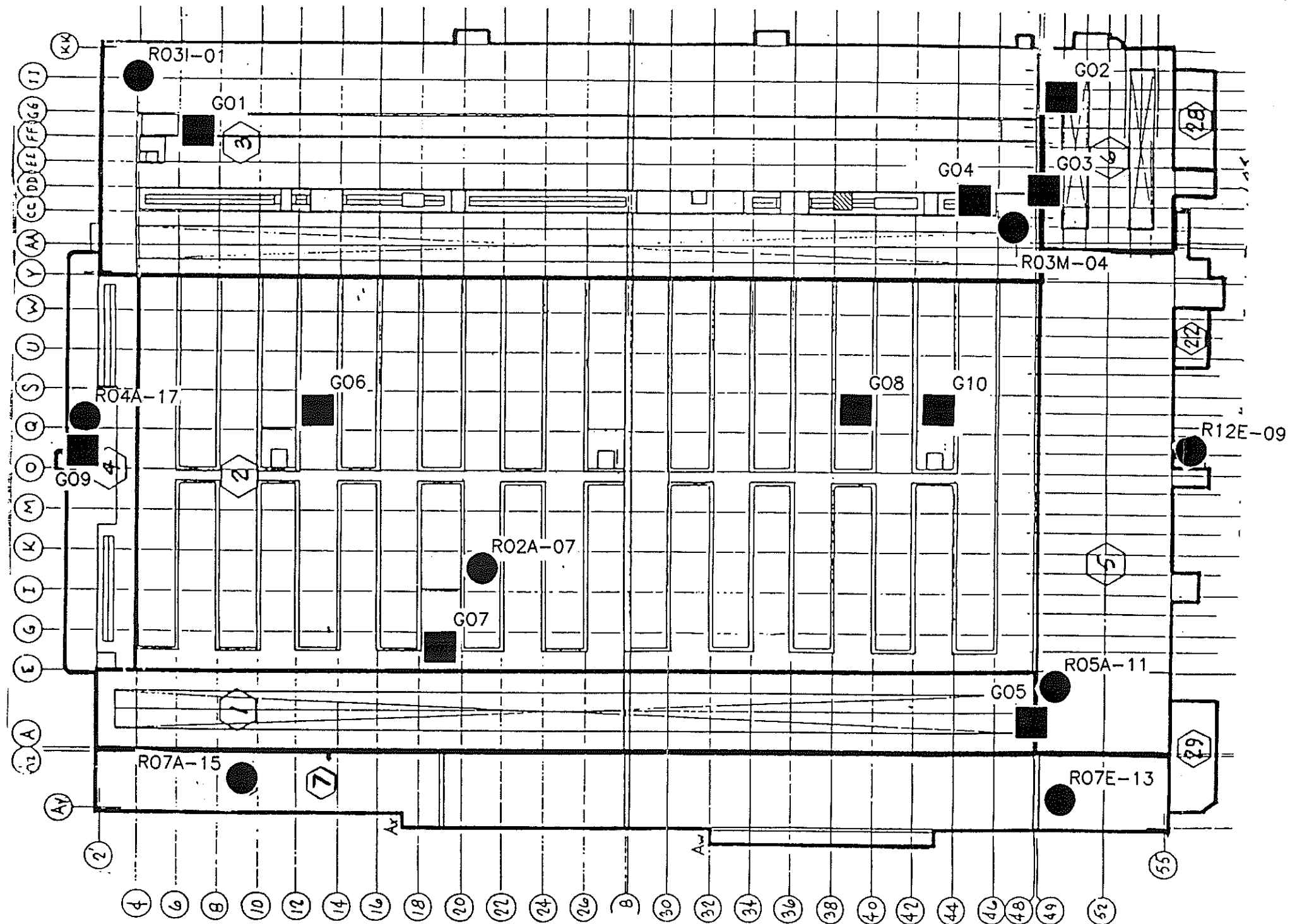


ROOF SAMPLE LOCATION

G01



GALBESTOS SAMPLE LOCATION



DATE _____
DWN _____
APP _____
REV _____
PROJECT NO.
85820-000.001

FIGURE 1
GENERAL MOTORS
DELPHI INTERIOR AND LIGHTING SYSTEMS
TRENTON, NEW JERSEY
FACILITY ASSESSMENT REPORT
ROOF & GALBESTOS SAMPLE LOCATIONS

4 SAMPLING AND ANALYSIS PROGRAM

A sampling and analysis program was conducted to determine contaminants and contamination levels, assist in the development of cleanup procedures and provide data for preliminary waste classification of various building materials. The data from this program were also used to develop decontamination and waste disposal cost estimates.

4.1 Sampling Plan

A sampling plan was prepared that incorporated the results of the following activities:

- Interviews conducted with plant personnel about the nature of current and past operations.
- The findings from a records review which focused on equipment inventory information and past sampling results for building materials and equipment fluids.
- Insight gained from GM personnel as to the types of environmental issues typically encountered with plant deactivation and demolition projects similar to the Delphi plant.
- Site inspections to identify representative sampling locations.

Table 1 presents the list of parameters tested along with the analytical method employed. All analytical work was performed by Columbia Analytical Services (CAS), Rochester, New York. CAS is certified to perform analytical services in many states, including New Jersey and North Dakota.

Appendix A presents the sampling plan developed and approved by GM for implementation. As part of the sampling plan, a sample identification system was used that identified each sample by building and sample type. For the Manufacturing Building, samples were located using the building column grid system. For the other buildings, no grid system exists. As such, descriptive sample locations (referenced to adjacent equipment or other landmarks) were employed.

Figure 1 and Drawings 2 and 3 depict the sampling locations selected for the Manufacturing Building.

Table 1

**Delphi Interior and Lighting Systems
General Motors, Trenton, New Jersey
List of Parameters**

Parameter	Analytical Method
Total Metals	EPA Methods 6010 and 7470
Volatile Organic Compounds (VOCs)	EPA Method 8260
Semi-Volatile Organic Compounds (SVOCs)	EPA Method 8270
Polychlorinated Biphenyls (PCBs)	EPA Method 8080
Total Cyanide	EPA Method 9010
pH	EPA Method 150.1
BTU Value	ASTM Method D240

4.2 Data Summary and Analysis

Appendix B presents a summary of the analytical results obtained from the Delphi sampling program. Appendix C contains copies of the complete laboratory reports, including appropriate QA/QC information and chain of custody forms.

The tables in Appendix B only list those results for which environmental standards exist for disposal purposes. Values for total metals, VOCs, and SVOCs have been divided by a factor of 20 to permit comparison to the Toxicity Characteristic Leaching Procedure (TCLP) standards. The TCLP laboratory procedure requires that samples be diluted by a ratio of 20:1 when preparing the sample for acidic extraction and subsequent leachate analysis. By using the 20 factor, it is assumed that the entire mass of the contaminant present in the sample would leach out during the extraction process if the actual TCLP procedure was performed. This approach is conservative and was utilized as a cost-savings measure in light of the project schedule constraints and since extensive TCLP testing will be performed during the Observation and Certification (O&C) portion of this project.

5 INVESTIGATION RESULTS

As a result of the facility assessment activities performed, 24 items were identified that will need to be addressed during the course of the deactivation and demolition of the Delphi plant as follows:

Item Number	Description
1	Above Ground Storage Tanks
2	Transformers
3	CFCs
4	Mercury Switches
5	Lab Packs
6	Hydraulic/Gear Oil
7	Galbestos
8	Lead Paint Abatement
9	Electrostatic Painting/Degreasing Equipment
10	ELPO System
11	Black Phosphate Area
12	Scrap Pits
13	Zinc Die Cast
14	Rack Strip/Nitric Acid Tanks
15	Plater #12
16	Rack Incinerators
17	Oil Residues
18	Ducts and Truss Cleaning
19	Sewer Lines
20	Lighting and Ballasts
21	Emergency Lighting
22	Wastewater Treatment Plant
23	Demolition
24	Former Die Cast, Plater and Anodizer Pits

Required deactivation, decontamination and demolition activities can be categorized into the following groupings:

- Cleaning and Decontamination: Items 1, 9-19, and 22
- Equipment Disposal: Item 2
- Equipment Decommissioning: Items 3, 4, and 6
- Waste Disposal: Item 5
- Pre-Demolition: Items 7, 8, 20, and 21
- Demolition: Item 23
- Post-Demolition: Item 24

Drawing 4 depicts specific equipment/plant areas that require cleaning and decontamination in the Manufacturing Building (Items 9-16). Drawing 5 depicts the approximate locations of the former die cast, plater and anodizer pits (Item 24). The exact locations of these former pits will need to be confirmed prior to razing the building so that demolition may proceed uninterrupted. An evaluation of the environmental significance of these pits will be performed once demolition is completed.

Table 2 (presented in Section 7 — Facility Decontamination Cost Estimate) summarizes the following information for each of these items:

- Item number
- Location
- Description
- Size (number of units, waste volume, dimensions, etc.)
- Environmental issue(s) requiring consideration as part of the deactivation process
- Preliminary waste classification based upon either product knowledge, existing plant data, or sampling analytical results collected during the facility assessment

Appendices D and E present inventory information and additional details with respect to each item.

6 WASTE VOLUMES

A summary of the estimated waste volumes that will be generated as part of the decontamination and cleaning activities identified for the Delphi plant is presented by Item Number in Table 2 (see Section 7 — Facility Decontamination Cost Estimate).

A summary of the estimated volumes of materials that will be generated as a result of the building demolition is presented in Appendix D under Item 23. A total of 200,678 tons of building materials are anticipated. This estimate includes 39,489 tons of steel and scrap metal.

An estimated volume of 44,000 tons of materials will require handling as part of the post-demolition evaluation of the former die cast, plater and anodizer pits (Item 24). Non-hazardous materials will be used as backfill on site, provided that the concrete pits are intact upon inspection. For cost estimating purposes, an estimated 22,000 tons have been assumed to require off-site disposal as hazardous waste.

7 FACILITY DECONTAMINATION COST ESTIMATE

Table 2 presents the decontamination cost estimate for the environmental deactivation of the Delphi facility. Total decontamination cost: \$12.1 million, exclusive of asbestos abatement, demolition and salvage.

Assumptions used in the development of this estimate are provided in Appendix D and as footnotes to Table 2. All costs are in 1999 dollars.

Table 2
DELPHI Interior and Lighting Systems
General Motors, Trenton, New Jersey
Facility Decontamination and Cost Estimate

Item No.	Location	Description	Size	Environmental Issue	Waste Classification	Classification Basis	Cleanup Cost	Disposal Cost	Total Cost	Comments
1a	Various	Aboveground Storage Tanks	550-G gasoline, 250-G diesel, (2) 30,000-G #6 F.O., and (1) 500,000-G #6 F.O.	Residual Petroleum/Waste Oils	Non-hazardous	Product Knowledge	101,816.00	41,721.60	143,537.60	
1b	Various	Aboveground Storage Tanks	19 ASTs Final Cleaning	Residual Product/Residue	Hazardous	Product Knowledge	100,100.00	8,510.84	108,610.84	
2a	Various	PCB Transformers	Substations 9, 11, 11A, 12, 13A, 13B and 14	PCB Oils	TSCA Waste	Product Knowledge	—	—	302,000.00	USPCI Turnkey Service, Appr. \$1/lb (total weight)
2b	Various	Non-PCB, Oil-Filled Transformers	3 Main Transformers, Substations 1 through 5 and 7	Waste Oils	Non-hazardous (Dispose as TSCA Waste per GM policy)	Delphi Analysis	—	—	160,268.00	USPCI Turnkey Service, Appr. \$1/lb (total weight)
2c	Various	CFC Gas-Filled Transformers	3 Carcasses, 400 pounds CFC	CFCs	Non-hazardous Reclamation	Ozone-Depleting Substance	31,135.00	1,399.20	32,534.20	
2d	Substation 11A/B	PCB-contaminated Concrete	30 X 42	PCBs	TSCA Waste	Facility Assessment Analysis	13,026.00	15,187.68	28,213.68	
3	Various	CFC Equipment	90 Units; 1,100 pounds CFC	CFCs	Non-hazardous Reclamation	Ozone-Depleting Substance	11,830.00	3,561.60	15,391.60	
4	Various	Mercury Switches	(1) Drum	Mercury	D009 Hazardous	Product Knowledge	4,563.00	540.60	5,103.60	
5	Various	Lab Packs	(55)55-G Drums, 12 Days	Waste Chemicals	Hazardous	Product Knowledge	40,833.00	20,479.20	61,312.20	
6	Various	Hydraulic/Gear Oils	60 + Pieces, 4,500 gallons Oil	Waste Oils	Non-hazardous (assumes 15% will be PCB-contaminated)	Product Knowledge	39,975.00	9,352.06	49,327.06	
7	Various	Galbestos Siding	40,000 sq. ft./125 Tons	PCBs/Asbestos	TSCA Wastes	Facility Assessment Analysis	222,040.00	25,440.00	247,480.00	
8	Various	Lead Paint Abatement	Water Tower and 200,000 sq. ft.	Lead	D008 Hazardous	Product Knowledge	326,066.00	127,200.00	453,266.00	
9	Main Building, Unit 3 (2nd Floor), (B32-48 to K32-48)	Electrostatic Painting/Degreasing Equipment	77,000 sq. ft.	Residues	Hazardous (Solvents and Metals)	Facility Assessment Analysis	130,650.00	38,668.80	169,318.80	

Table 2
DELPHI Interior and Lighting Systems
General Motors, Trenton, New Jersey
Facility Decontamination and Cost Estimate

Item No.	Location	Description	Size	Environmental Issue	Waste Classification	Classification Basis	Cleanup Cost	Disposal Cost	Total Cost	Comments
10	Main Building, Unit 3 (1st Floor), (EE32-48 to JJ32-48)	ELPO System	52,000 sq. ft.	Residues	D008 Hazardous	Product Knowledge	22,724.00	4,833.60	27,557.60	
11	Main Building, Unit 2 (K36-38 to T36-38)	Black Phosphate System	26 +/- Tanks, 8,000 sq. ft.	Residues	Non-hazardous	Facility Assessment Analysis	26,455.00	4,833.60	31,288.60	
12	Main Building, Unit 7 (AX50-54)	Scrap Metal Pits	1,000 sq. ft.	Waste oils	Non-hazardous	Product Knowledge	10,497.50	2,480.40	12,977.90	
13	Main Building, Unit 5 (E48-55 to P48-55)	Zinc Diecast	30,000 sq. ft.	Residues	D007 Hazardous	Facility Assessment Analysis	45,922.50	9,667.20	55,589.70	
14	Main Building, Unit 1 and 7, (AS2-54; AX52-54)	Rack Strip/ Nitric Acid Tanks	15,000 sq. ft.	Residues	D007 Hazardous	Facility Assessment Analysis	11,147.50	4,833.60	15,981.10	
15	Main Building, Unit 2, (I44-48 to T44-48)	Plater # 12	20,000 sq. ft.	Residues	Hazardous (Various Metals)	Facility Assessment Analysis	48,815.00	9,667.20	58,482.20	
16	Main Building, Unit 6, (GG48-52 to JJ48-52)	Rack Incinerators	9,100 sq. ft.	Residues	D008 Hazardous	Facility Assessment Analysis	12,883.00	1,208.40	14,091.40	
17	Various	Oil Residues	NA	Residues	Non-hazardous	Product Knowledge	42,705.00	NA	42,705.00	
18	Various	Duct and Truss Cleaning	NA	Residues	Hazardous (Various Metals)	Facility Assessment Analysis	290,940.00	14,500.80	305,440.80	
19	Various	Sewer Systems	35,000 L.F. of 3 - 42 inch	Sewer Cleaning/Pipe and Soil Removal/Backfill	Hazardous	Facility Assessment Analysis	158,998.67	80,136.00	239,134.67	
20	Various	Lighting and Ballasts	18,000 Lightbulbs and 10,000 PCB Ballasts	Mercury, PCBs	Hazardous	Product Knowledge	320,320.00	59,784.00	380,104.00	
21	Various	Emergency Lighting	175 Fixtures	Batteries/ Corrosive	Hazardous	Product Knowledge	21,354.67	NA	21,354.67	

Table 2
DELPHI Interior and Lighting Systems
General Motors, Trenton, New Jersey
Facility Decontamination and Cost Estimate

Item No.	Location	Description	Size	Environmental Issue	Waste Classification	Classification Basis	Cleanup Cost	Disposal Cost	Total Cost	Comments
22	--	Wastewater Treatment Plant	(4) ASTs, Oil/Water Separator, neutralization/ clarification tanks	Tank Bottoms, Cleaning Residues, Final Wastewater, Unused Treatment Chemicals	Hazardous/Non-hazardous	Process Knowledge	130,650.00	184,681.68	315,331.68	
23a	Sitewide	Demolition and Disposal Concrete, Masonry, Glass, etc.	15,000 Cubic Yards, 22,000 Tons	Solid Waste Disposal	Non-hazardous	Product Knowledge	NA	2,232,360.00	2,232,360.00	
23b	Sitewide	Demolition and Disposal Scrap Metal	40,000 Tons	Recovery	Hazardous/Non-hazardous	Facility Assessment Analysis	NA	0.00	0.00	
23c	Sitewide	Demolition and Disposal Wood Block Flooring	525 Tons	Solid Waste Disposal	Hazardous	Facility Assessment Analysis	21,710.00	126,882.00	148,592.00	Note 8
23d	Sitewide	Demolition and Disposal Site Paving	51,076 Tons	Solid Waste Disposal/ Reprocessing	Non-hazardous	Product Knowledge	NA	779,624.06	779,624.06	
24	Main Building; 11 Locations	Former Backfilled Die Cast, Plater and Anodizer Pits	80,800 sq. ft. ; varying depths (4-16 feet)	Potential Hazardous Waste Backfill	Hazardous	Process Knowledge	934,093.20	3,777,840.00	4,711,933.20	
Contractor Total							3,121,250.03	7,585,394.12	11,168,912.16	
Contractor Subtotal								\$ 11,168,912.16		
Engineering (Plans and Specifications)								\$ 310,631.00		
Engineering (Observation and Certification)								\$ 601,600.00		Note 7
Sales Tax								\$ 18,727.50		
Total								\$ 12,099,870.66		

Notes: 1) Based on the assumptions, quantities and timeframes presented in Appendix D.

2) 5-day, 40-hour work weeks.

3) Labor is union shop.

4) Costs include contractor general conditions, overhead and profit.

5) No credit is assigned for materials with positive recycling value.

6) All costs are in 1999 dollars.

7) Engineering (observation and certification) is based on an 24-month project duration, and the analysis of approximately 800 samples.

8) Cleanup cost includes removal and packaging of flooring from 123,000 sq. ft.

9) Sales tax has been assessed at 6 percent for New Jersey on 10 percent of the total cleanup cost for materials only. Labor is not taxed. No tax has been assessed for disposal.

8 SCHEDULE

Current planning calls for the cessation of plant operations between June-December 1998. Facility decontamination and demolition will occur over a 2-year period as depicted in Figure 2.

Decontamination and cleaning activities will take a total of total of 16 months, assuming the this work is performed in a sequential manner. This time frame could be reduced if several activities are performed in parallel.

Demolition will occur over a 6-month period once all decontamination activities are complete. Pit excavation will next be performed and is anticipated to require a period of 2 months following demolition.

As several portions of the plant are currently inactive (and likely to remain so until the cessation of plant operations), the opportunity exists for GM to initiate several decontamination activities, starting in 1997, as follows:

- Assistance to plant personnel with the certification of equipment and tank cleaning. This activity would simplify the equipment disposition and salvage process.
- Performing the closure of non-functional laboratories with the associated lab packing activities.
- Cleaning and decontamination of the Electrostatic Painting/Degreasing Equipment on the second floor of Unit 3 of the Manufacturing Building as this process line is permanently out-of-service.
- Cleaning and decontamination of the Black Phosphate Area, Rack Strip/Nitric Acid Tanks, the Zinc Die Cast Area, and Plater #12
- Further delineation of the locations of the Former Die Cast, Plater and Anodizer Pits. At least, a more in-depth records review should be conducted coupled with employee interviews.

The initiation of select cleaning and decontamination activities at this time will lead to a significant reduction in the schedule required for demolition and ultimate disposition of the

property. This schedule reduction, after the plant ceases operation, coupled with the opportunity to perform select cleaning activities now, will lead to an overall cost reduction in the deactivation process.

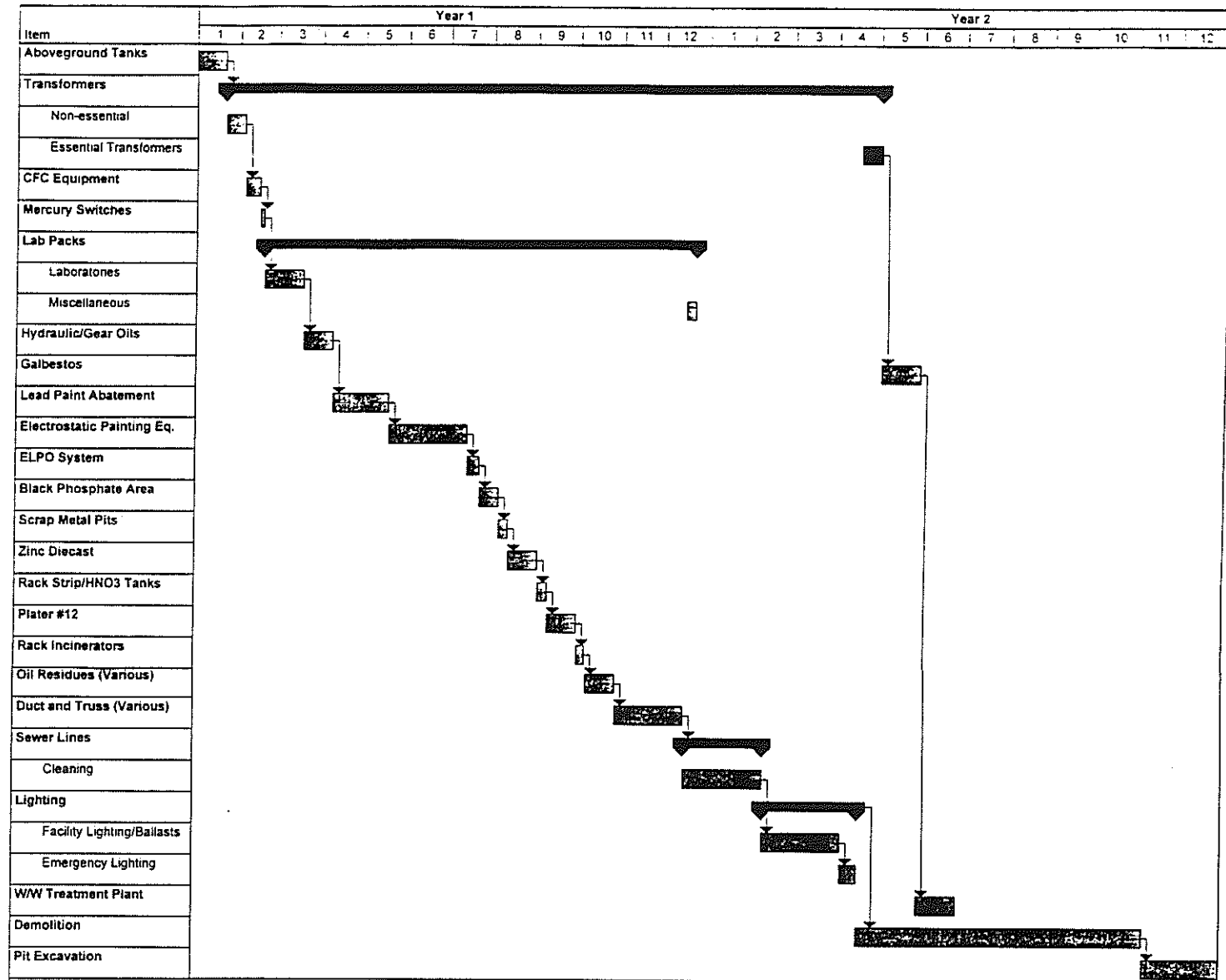


Figure 2
Project Schedule
 Delphi Interior and Lighting Systems
 General Motors, Trenton, New Jersey

Project Date: 3/27/97	Task		Summary		Rolled Up Progress	
	Progress		Rolled Up Task			
	Milestone		Rolled Up Milestone			

LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

APPENDIX A
SAMPLING PLAN

Appendix A

Sampling Plan

The sampling plan developed and implemented for the Delphi facility is presented on the pages which follow. A sample identification system was used that identified each sample by building and sample type as described below.

Building Identification

Building	Identification Code
Manufacturing	MB
Salvage (Maintenance)	MG
Powerhouse	PH
Paint Storage	PSB
Garage	CG
Wastewater Treatment	WW
Storm Sewer	SS

No samples were collected in the Primary Switch House, Gas Bottle Storage, Gas Meter House, Pump House, or East Gate House buildings.

Sample Type

Sample Type	Identification Code
Wood Block	WB
Concrete Core/Chip	CC
Residue/Bulk	R
Trusses	T
Vent/Stack	VS
Process Exhaust	PE
Sumps/Drains/Sediments	SD
Substations	SS
Galbestos	GAL
Roof	R

Sample Identification

Samples were identified as illustrated in the following example:

Sample ID: MB-WB-01

Where:

MB = Manufacturing Building

WB = Wood Block

01 = Sequential Sample Number

Sample Location

For the Manufacturing Building, samples were located using the building column grid system (see Drawing 2). For the other buildings, no grid system exists. As such, descriptive sampling locations (referenced to adjacent equipment or landmarks) were employed.

Appendix A
DELPHI Interior and Lighting Systems
Facility Assessment Sampling Plan
Manufacturing Building

Sample Type	Sample Area	Location ID	Sample ID	Analysis Required
Wood Block	Plastic Material Storage	AY-5	MB-WB-01	PCBs, Total Metals
Wood Block	Battery Charging	AZ-11	MB-WB-02	PCBs, Total Metals
Wood Block	Purchased Parts	AZ-16	MB-WB-03	PCBs, Total Metals
Wood Block	Coil Storage	AZ/AY-32	MB-WB-04	PCBs, Total Metals
Wood Block	Coil Storage (Bailer)	AZ/AY-49	MB-WB-05	PCBs, Total Metals
Wood Block	Coil Storage (Rack Strip)	AZ/AY-54	MB-WB-06	PCBs, Total Metals
Wood Block	Tool Room	C-34	MB-WB-07	PCBs, Total Metals
Wood Block	BI-LAM Mldgs	J-5	MB-WB-08C	PCBs, Total Metals, & BTU
Wood Block	BI-LAM Mldgs	E-5	MB-WB-08C	PCBs, Total Metals
Wood Block	Encapsulated glass	I-13	MB-WB-09	PCBs, Total Metals, & BTU
Wood Block	BI-LAM Mldgs	G-20	MB-WB-10	PCBs, Total Metals
Wood Block	Seat Adjuster Fab	I-34	MB-WB-11	PCBs, Total Metals
Wood Block	Door Handle Fab	G-37	MB-WB-12	PCBs, Total Metals
Wood Block	Manufacturing Area	E-40	MB-WB-13	PCBs, Total Metals
Wood Block	Adjacent to Chrome Plating	K-44	MB-WB-14	PCBs, Total Metals
Wood Block	Storage Area	W-8	MB-WB-15C	PCBs, Total Metals
Wood Block	Storage Area	S-12	MB-WB-15C	PCBs, Total Metals
Wood Block	Manufacturing Area	W-18	MB-WB-16C	PCBs, Total Metals
Wood Block	Manufacturing Area	O-18	MB-WB-16C	PCBs, Total Metals
Wood Block	Manufacturing Area	W-32	MB-WB-17C	PCBs, Total Metals
Wood Block	Manufacturing Area	Q-32	MB-WB-17C	PCBs, Total Metals
Wood Block	Finished Goods Warehouse	FF-8	MB-WB-18C	PCBs, Total Metals
Wood Block	Finished Goods Warehouse	II-14	MB-WB-18C	PCBs, Total Metals
Wood Block	Elevator Bottom	FF-29	MB-WB-19	PCBs, Total Metals
Wood Block	Powder Coat Area	EE-36	MB-WB-20	PCBs, Total Metals
Wood Block	Tavern Handle Area	CC-34	MB-WB-21	PCBs, Total Metals
Wood Block	Old Zinc/Cyanide Plater	Y-46	MB-WB-22	PCBs, Total Metals, & CN
Wood Block	Storage	CC-40	MB-WB-23C	PCBs, Total Metals
Wood Block	Storage	BB-41	MB-WB-23C	PCBs, Total Metals
Wood Block	Storage	Q-41	MB-WB-24	PCBs, Total Metals
Concrete Core	Tool Room	C-34	MB-CC-01	PCBs, Total Metals
Concrete Core	BI-LAM Mldgs	G-20	MB-CC-02	PCBs, Total Metals
Concrete Core	Seat Adjuster Fab	I-34	MB-CC-03	PCBs, Total Metals
Concrete Core	Storage	Y-46	MB-CC-04	PCBs, Total Metals
Concrete Core	Coil Storage (Bailer)	AZ/AY-49	MB-CC-05	PCBs, Total Metals
Concrete Core	Rack Strip Area	AZ-54	MB-CC-06	PCBs, Total Metals
Concrete Core	Zinc Die Cast Area	H-52	MB-CC-07	PCBs, Total Metals, & CN
Concrete Core	Former 1, 2, 3 Platers	V-52	MB-CC-08	PCBs, Total Metals
Concrete Core	Former Chrome Plating Area	M-46	MB-CC-09	PCBs, Total Metals, & CN
Concrete Core	Adjacent to Phosphate Line	Q-38	MB-CC-10	PCBs, Total Metals
Concrete Core	Old Dichlorobenzene Area	Z-49	MB-CC-11	PCBs, Total Metals
Concrete Core	2nd Floor Paint Area	HH-42	MB-CC-12	PCBs, Total Metals
Concrete Core	Old Zinc Remelt Furnace Area		MB-CC-13	PCBs, Total Metals

Appendix A
DELPHI Interior and Lighting Systems
Facility Assessment Sampling Plan
Manufacturing Building

Sample Type	Sample Area	Location ID	Sample ID	Analysis Required
Residue/Bulk	Zinc Die Cast Area	J-52	MB-R-01	Total Metals, CN
Residue/Bulk	Nitric Acid Rack Strip	AZ-53	MB-R-03	Total Metals, VOAs, Semi-VOAs, pH
Residue/Bulk	Rack Dip Vat	AZ-54	MB-R-04	Total Metals, VOAs, & Semi-VOAs
Residue/Bulk	Phosphate Machine	P-38	MB-R-05	Total Metals
Residue/Bulk	Paint Booth	FF-38-46	MB-R-06	Total Metals, VOAs, & Semi-VOAs
Residue/Bulk	2nd Floor Powder Coat System	FF-38-46	MB-R-08	Total Metals, VOAs, & Semi-VOAs
Residue/Bulk	2nd Floor Powder Coat System	FF-38-46	MB-R-09	Total Metals, VOAs, & Semi-VOAs
Residue/Bulk	2nd Floor Powder Coat System	FF-38-46	MB-R-010	Total Metals, VOAs, & Semi-VOAs
Residue/Bulk	2nd Floor Powder Coat System	FF-38-46	MB-R-011	Total Metals, VOAs, & Semi-VOAs
Trusses	Former Die Cast Area	J-53	MB-T-01	Total Metals & PCBs
Trusses	Former 1, 2, 3 Chrome Plater	V-53	MB-T-02	Total Metals & PCBs
Trusses	Former Chrome Plate Area	M-46	MB-T-03	Total Metals & PCBs
Trusses	Old Zn/Cn Plating Area	Y-46	MB-T-04	Total Metals & PCBs
Trusses	Old Phosphate Line	M-38	MB-T-05	Total Metals & PCBs
Trusses	2nd Floor Powder Coat Area	II-40	MB-T-06	Total Metals & PCBs
Trusses	2nd floor	GG-10	MB-T-07	Total Metals & PCBs
Trusses	Trusses	G-34	MB-T-08	Total Metals & PCBs
Trusses	Trusses	S-32	MB-T-09	Total Metals & PCBs
Trusses	Molding Machines	E-8	MB-T-010	Total Metals & PCBs
Trusses	Old Rack Strip Area	AZ-52	MB-T-011	Total Metals & PCBs
Trusses	Outside Office Area	S-6	MB-T-012	Total Metals & PCBs
Residue/Bulk	Vent/Stack Phosphate Scrubber	W-152/153	MB-VS-05C	Total Metals
Residue/Bulk	Vent/Stack Die Cast Remelt Furnace	S-86	MB-VS-09	Total Metals, CN
Residue/Bulk	Process Exhaust Pipe	DD-8	MB-PE-01	Total Metals, VOAs
Residue/Bulk	Process Exhaust Pipe	U-46	MB-PE-02	Total Metals, VOAs
Residue/Bulk	Process Exhaust Pipe	G-40	MB-PE-03	Total Metals, VOAs, & PCBs
Residue/Bulk	Process Exhaust Pipe	E-12	MB-PE-04	Total Metals, VOAs
Residue/Bulk	Process Exhaust Pipe	S-38	MB-PE-05	Total Metals,
Residue/Bulk	Process Exhaust Pipe	I-46	MB-PE-06	Total Metals & CN
Residue/Bulk	Process Exhaust Pipe	E-11	MB-PE-07	Total Metals, VOAs
Sumps/Drains	(MH-4) Injection molders	C-8	MB-SD-01	PCBs, Total Metals, VOAs & Semi-VOAs
Sumps/Drains	(MH-16) Outside Manhole	KK-20	MB-SD-02	PCBs, Total Metals, VOAs & Semi-VOAs
Sumps/Drains	(MH-17) Outside Manhole	KK-27	MB-SD-03	PCBs, Total Metals, VOAs & Semi-VOAs
Sumps/Drains	(MH-18) Outside Manhole	KK-32	MB-SD-04	PCBs, Total Metals, VOAs & Semi-VOAs
Sumps/Drains	(MH-19) Outside Manhole	KK-39	MB-SD-05	PCBs, Total Metals, VOAs & Semi-VOAs
Sumps/Drains	(MH-3) Liquid	AY-13	MB-SD-06	PCBs, Total Metals, VOAs & Semi-VOAs
Sumps/Drains	(MH-11) Handle Fab Area	J-38	MB-SD-07	PCBs
Sumps/Drains	(MH-8)	Y-44	MB-SD-08	PCBs
Sumps/Drains	Zinc Die Cast Sump	E-52	MB-SD-09	PCBs
Sumps/Drains	(MH-3) Sediment	AY-13	MB-SD-010	PCBs, Total Metals, VOAs & Semi-VOAs
Sumps/Drains	Storm Sewer Catch Basin Next to Hydraulic Recycling		SS-SD-01	PCBs, Total Metals, VOAs & Semi-VOAs
Residue/Bulk	Substation # 13A/B		MB-SS-01	PCBs

Appendix A
DELPHI Interior and Lighting Systems
Facility Assessment Sampling Plan
Manufacturing Building

Sample Type	Sample Area	Location ID	Sample ID	Analysis Required
Residue/Bulk	Substation # 7		MB-SS-02	PCBs
Residue/Bulk	Substation # 1		MB-SS-03	PCBs
Residue/Bulk	Substation # 11A/B		MB-SS-04	PCBs
Residue/Bulk	Substation # 3		MB-SS-05	PCBs
Galbestos ²	Roof Section 03G		MB-GAL-01	PCBs
Galbestos	Roof Section 06B		MB-GAL-02	PCBs
Galbestos	Roof Section 06B		MB-GAL-03	PCBs
Galbestos	Roof Section 03M		MB-GAL-04	PCBs
Galbestos	Roof Section 01E		MB-GAL-05	PCBs
Galbestos	Roof Section 02C		MB-GAL-06	PCBs
Galbestos	Roof Section 02B		MB-GAL-07	PCBs
Galbestos	Roof Section 02F		MB-GAL-08	PCBs
Galbestos	Roof Section 04A		MB-GAL-09	PCBs
Galbestos	Roof Section 02F		MB-GAL-010	PCBs
Roof	Roof Section 03I, North end		R-03I-01	Total Metals
Roof ³	Roof Section 03L, South end at ramp		R-03M-04	Total Metals
Roof	Roof Section 12E, North side center		R-12E-09	Total Metals
Roof	Roof Section 05A, North side	D-49	R-05A-11	Total Metals
Roof	Roof Section 07E North side; center		R-07E-13	Total Metals
Roof	Roof Section 07A, at Fire Hut	AY-9	R-07A-15	Total Metals
Roof	Roof Section 04A West side of marque		R-04A-17	Total Metals
Roof ⁴	Roof Section 02B South side	J-22	R-02A-07	Total Metals

Notes:

1. C = Composite
2. Galbestos and roof samples collected by the Traverse Group.
3. Sample was not collected in Section 3M as sample number would suggest.
4. Sample was not collected in Section 02A as sample number would suggest.

Appendix A
DELPHI Interior and Lighting Systems
Facility Assessment Sampling Plan

Salvage (Maintenance)

Sample Type	Sample Area	Sample ID	Analysis Required
Concrete Core	Behind Caustic dip tanks	MG-CC-01	PCB's, CN, pH
Concrete Core	Battery Charging	MG-CC-02	PCB's
Wipe	Paint booth	MG-R-01	Total Metals, VOA's, & Semi-VOA's
Sediment	Storm drain dock area	MG-SD-01	Total Metals, PCB's

Power House

Sample Type	Sample Area	Sample ID	Analysis Required
Sediment	Sump near Ingersoll Rand unit	PH-SD-01	Total Metals, PCB's
Sediment	Sump near 2nd Ingersoll Rand unit	PH-SD-02	Total Metals, PCB's
Sediment	Column 270	PH-SD-03	Total Metals, PCB's
Sediment	Pit/Sump near secondary exit stairs	PH-SD-04	Total Metals, PCB's
Wipe	Top of green piping main floor	PH-R-01	Total Metals, PCB's

Paint Storage Building

Sample Type	Sample Area	Sample ID	Analysis Required
Concrete Chip	Center of floor	PSB-CC-01	PCB's & Total Metals

Company Garage

Sample Type	Sample Area	Sample ID	Analysis Required
Concrete Chip	Center of floor	CG-CC-01	PCB's & Total Metals

Wastewater Treatment

Sample Type	Sample Area	Sample ID	Analysis Required
Residue	2nd floor cuttings from old process line	WW-SD-01	Total Metals

APPENDIX B
LABORATORY ANALYSIS SUMMARY

Appendix B

Laboratory Analysis Summary

This Appendix presents a summary of the analytical results obtained from the Delphi sampling program. Appendix C contains copies of the complete laboratory reports, including appropriate QA/QC information and chain of custody forms.

In preparing this summary, the following approach was used:

- Analytical results were reported only for those parameters for which parameter detections occurred above the detection limit (PQL) with or without dilution. All dilution factors, if any, are noted.
- Typical dilution factors and resultant analytical ranges required to permit sample analysis were as follows:

Parameter	PQL	Dilution Factor	Analytical Ranges
PCBs	400 ppb	1 - 1,000	400 - 400,000 ppb
Metals	0.150 - 5.00 ppm	1 - 3	0.150 - 15 ppm
Volatile Organics	5 - 10 ppb	1 - 2,000	5 - 20,000 ppb
Semi-volatile Organics	300 - 1,300 ppb	1 - 150	300 - 195,000 ppb

- Parameters exceeding hazardous waste criteria are presented in bold face print. For PCBs, concentrations greater than 2 parts per million (ppm) are considered hazardous. The "20 rule" was used to permit comparison to TCLP standards (see Section 4 for explanation of the "20 rule").

Appendix B
DELPHI Interior and Lighting Systems
Laboratory Analysis Summary
Main Manufacturing Building-Wood Block Sample

Parameters	TCPL Limit (mg/L)	Detection Limits	AY-5 MB-WB-01	Result/20	Haz. Y/N	AZ-11 MB-WB-02	Result/20	Haz. Y/N	AZ-16 MB-WB-03	Result/20	Haz. Y/N	AZ / AY-32 MB-WB-04	Result/20	Haz. Y/N	AZ / AY-49 MB-WB-05	Result/20	Haz. Y/N
PCB's (UG/KG)																	
Dilution			10			10			10			10.0			10.0		
PCB 1016	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1221	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1232	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1242	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1248	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1254	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1260	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Total PCB's																	
Total Metals (UG/G)																	
Dilution		1.0	1.0			1.0			1.0			1.0			1.0		
Arsenic	5	1.00	ND	NA	N	1.92	0.096	N	2.03	0.1015	N	ND	NA	N	ND	NA	N
Barium	100	2.00	3.18	0.159	N	312	15.6	N	25.6	1.28	N	23.5	1.175	N	14.2	0.71	N
Cadmium	1	0.500	ND	NA	N	2.29	0.1145	N	8.22	0.411	N	0.767	0.03835	N	ND	NA	N
Chromium	5	1.00	ND	NA	N	19.6	0.98	N	12.1	0.605	N	3.55	0.1775	N	ND	NA	N
Silver	5	1.00	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Mercury	0.2	0.150	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Lead	5	5.00	6.35	0.3175	N	594	29.7	Y	40.8	2.04	N	40.2	2.01	N	6.94	0.347	N
Selenium	1	1.00	2.37	0.1185	N	3.4	0.17	N	2.46	0.123	N	3	0.15	N	2.01	0.1005	N
Total Cyanide																	

Blank results indicate that the testing was not performed.

PCB hazard based on total.

*BTU Value:9,184 BTU/lb.

**BTU Value:13,148BTU/lb.

Appendix B
DELPHI Interior and Lighting Systems
Laboratory Analysis Summary
Main Manufacturing Building-Wood Block Sample

Parameters	TCPL Limit (mg/L)	AZ / AY-54 MB-WB-06	Result/20	Haz. Y/N	C-34 MB-WB-07	Result/20	Haz. Y/N	J-5 / E-5 MB-WB-08C*	Result/20	Haz. Y/N	I-13 MB-WB-09*	Result/20	Haz. Y/N	G-20 MB-WB-10	Result/20	Haz. Y/N
PCB's (UG/KG)																
Dilution		10.0			1.0			10.0			10.0			1.0		
PCB 1016	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1221	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1232	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1242	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1248	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1254	NA	ND	NA	N	1300	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1260	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Total PCB's					1300	NA	N	ND	NA	N	ND	NA	N	1600	NA	N
Total Metals (UG/G)																
Dilution		1.0			1.0			1.0			1.0			1.0		
Arsenic	5	ND	NA	N	ND	NA	N	ND	NA	N	2.39	0.1195	N	6.22	0.311	N
Barium	100	49	2.45	N	7.48	0.374	N	10.2	0.51	N	17.2	0.86	N	59.6	2.98	N
Cadmium	1	1.43	0.0715	N	1.36	0.068	N	0.832	0.0416	N	3.2	0.16	N	29.6	1.48	Y
Chromium	5	6.83	0.3415	N	6.73	0.3365	N	3.35	0.1675	N	9.15	0.4575	N	12.7	0.635	N
Silver	5	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Mercury	0.2	0.168	0.0084	N	ND	NA	N	ND	NA	N	ND	NA	N	0.234	0.0117	N
Lead	5	62.6	3.13	N	9.44	0.472	N	7.39	0.3695	N	25.7	1.285	N	39.6	1.98	N
Selenium	1	2.88	0.144	N	3.64	0.182	N	2.8	0.14	N	3.17	0.1585	N	0.75	0.0375	N
Total Cyanide																

Blank results indicate that the testing was not performed.

PCB hazard based on total.

*BTU Value:9,184 BTU/lb.

**BTU Value:13,148BTU/lb.

Appendix B
DELPHI Interior and Lighting Systems
Laboratory Analysis Summary
Main Manufacturing Building-Wood Block Sample

Parameters	TCPL Limit (mg/L)	I-34 MB-WB-11	Result/20	Haz. Y/N	G-37 MB-WB-12	Result/20	Haz. Y/N	E-40 MB-WB-13	Result/20	Haz. Y/N	K-44 MB-WB-14	Result/20	Haz. Y/N	W-8 / S-12 MB-WB-15	Result/20	Haz. Y/N
PCB's (UG/KG)																
Dilution		10.0			10.0			10.0			10.0			1.0		
PCB 1016	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1221	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1232	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1242	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1248	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1254	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1260	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	1200	NA	N
Total PCB's					ND	NA	N	ND	NA	N	ND	NA	N	1200	NA	N
Total Metals (UG/G)																
Dilution		1.0			1.0			1.0			1.0			1.0		
Arsenic	5	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	1.1	0.055	N
Barium	100	18.3	0.915	N	24.4	1.22	N	23.2	1.16	N	17.2	0.86	N	53.7	2.685	N
Cadmium	1	ND	NA	N	2.11	0.1055	N	5.63	0.2815	N	1.22	0.061	N	6.59	0.3295	N
Chromium	5	1.72	0.086	N	32.3	1.615	N	8.97	0.4485	N	13.8	0.69	N	20.1	1.005	N
Silver	5	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Mercury	0.2	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Lead	5	5.42	0.271	N	34.7	1.735	N	96.8	4.84	N	15	0.75	N	149	7.45	Y
Selenium	1	3.35	0.1675	N	3.15	0.1575	N	2.77	0.1385	N	2.15	0.1075	N	2.67	0.1335	N
Total Cyanide																

Blank results indicate that the testing was not performed.

PCB hazard based on total.

*BTU Value:9,184 BTU/lb.

**BTU Value:13,148BTU/lb.

Appendix B
DELPHI Interior and Lighting Systems
Laboratory Analysis Summary
Main Manufacturing Building-Wood Block Sample

Parameters	TCPL Limit (mg/L)	W-18 / O-18 MB-WB-16C	Result/20	Haz. Y/N	W-32 / Q-32 MB-WB-17C	Result/20	Haz. Y/N	FF-8 / II-14 MB-WB-18C	Result/20	Haz. Y/N	FF-29 MB-WB-19	Result/20	Haz. Y/N	EE-36 MB-WB-20	Result/20	Haz. Y/N
PCB's (UG/KG)																
Dilution		10.0			10.0			10.0			10.0			10.0		
PCB 1016	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1221	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1232	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1242	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1248	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1254	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1260	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Total PCB's																
Total Metals (UG/G)																
Dilution		1.0			1.0			1.0			1.0			1.0		
Arsenic	5	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Barium	100	12.8	0.64	N	7.69	0.3845	N	7.84	0.392	N	17	0.85	N	5.59	0.2795	N
Cadmium	1	0.935	0.04675	N	1.11	0.0555	N	ND	NA	N	0.516	0.0258	N	ND	NA	N
Chromium	5	5.4	0.27	N	11.3	0.565	N	2.43	0.1215	N	4.06	0.203	N	ND	NA	N
Silver	5	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Mercury	0.2	ND	NA	N	0.172	0.0086	N	ND	NA	N	0.212	0.0106	N	ND	NA	N
Lead	5	6.46	0.323	N	13.4	0.67	N	7.73	0.3865	N	13.4	0.67	N	5.63	0.2815	N
Selenium	1	2.71	0.1355	N	1.55	0.0775	N	3.16	0.158	N	3.03	0.1515	N	2.56	0.128	N
Total Cyanide																

Blank results indicate that the testing was not performed.

PCB hazard based on total.

*BTU Value:9,184 BTU/lb.

**BTU Value:13,148BTU/lb.

Appendix B
DELPHI Interior and Lighting Systems
Laboratory Analysis Summary
Main Manufacturing Building-Wood Block Sample

Parameters	TCPL Limit (mg/L)	CC-34 MB-WB-21	Result/20	Haz. Y/N	Y-46 MB-WB-22	Result/20	Haz. Y/N	C-40 / BB-41 MB-WB-23C	Result/20	Haz. Y/N	Q-41 MB-WB-24	Result/20	Haz. Y/N
PCB's (UG/KG)													
Dilution		10.0			10.0			10.0			10.0		
PCB 1016	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1221	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1232	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1242	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1248	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1254	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1260	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Total PCB's													
Total Metals (UG/G)													
Dilution		1.0			1.0			1.0			1.0		
Arsenic	5	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Barium	100	15.6	0.78	N	24.2	1.21	N	14.5	0.725	N	17.6	0.88	N
Cadmium	1	1.44	0.072	N	0.533	0.02665	N	2.79	0.1395	N	19.6	0.98	N
Chromium	5	6.37	0.3185	N	441	22.05	Y	3.06	0.153	N	15.8	0.79	N
Silver	5	ND	NA	Y	ND	NA	N	ND	NA	N	ND	NA	N
Mercury	0.2	ND	NA	Y	0.288	0.0144	N	0.408	0.0204	N	ND	NA	N
Lead	5	14.2	0.71	N	9.97	0.4985	N	14.5	0.725	N	20.7	1.035	N
Selenium	1	2.63	0.1315	N	2.29	0.1145	N	2.68	0.134	N	2.15	0.1075	N
Total Cyanide					ND		N						

Blank results indicate that the
testing was not performed.
PCB hazard based on total.
*BTU Value:9,184 BTU/lb.
**BTU Value:13,148BTU/lb.

Appendix B
DELPHI Interior and Lighting Systems
Laboratory Analysis Summary
Main Manufacturing Building-Concrete Core Sample

Parameters	TCPL Limit (mg/L)	Detection Limits	C-34 MB-CC-01	Result/20	Haz. Y/N	G-20 MB-CC-02	Result/20	Haz. Y/N	I-34 MB-CC-03	Result/20	Haz. Y/N	Y-46 MB-CC-04	Result/20	Haz. Y/N	AZ / AY-49 MB-CC-05
PCB's (UG/KG)															
Dilution			1.0			1.0			1.0			1.0			1.0
PCB 1016	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
PCB 1221	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
PCB 1232	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
PCB 1242	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
PCB 1248	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
PCB 1254	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
PCB 1260	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
Total PCB's															
Total Metals (UG/G)															
Dilution			1.0			1.0			1.0			1.0			1.0
Arsenic	5	1.00	ND	NA	N	ND	NA	N	ND	NA	N	2.65	0.1325	N	ND
Barium	100	2.00	71.5	3.575	N	33.6	1.68	N	53.8	2.69	N	43.6	2.18	N	32.8
Cadmium	1	0.500	ND	NA	N	1.3	0.065	N	ND	NA	N	ND	NA	N	ND
Chromium	5	1.00	13.3	0.665	N	12.8	0.64	N	11.0	0.55	N	14.6	0.73	N	7.27
Silver	5	1.00	ND	NA	N	5.06	0.253	N	ND	NA	N	ND	NA	N	1.38
Mercury	0.2	0.150	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
Lead	5	5.00	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
Selenium	1	0.500	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
Total Cyanide															

Blank results indicate that the testing was not performed.
PCB hazard based on total.

Appendix B
DELPHI Interior and Lighting Systems
Laboratory Analysis Summary
Main Manufacturing Building-Concrete Core Sample

Parameters	TCPL Limit (mg/L)	Result/20	Haz. Y/N	AZ-54 MB-CC-06	Result/20	Haz. Y/N	H-52 MB-CC-07	Result/20	Haz. Y/N	V-52 MB-CC-08	Result/20	Haz. Y/N	M-46 MB-CC-09	Result/20	Haz. Y/N	Q-38 MB-CC-10
PCB's (UG/KG)																
Dilution				1.0			1.0			1.0			1.0			1.0
PCB 1016	NA	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
PCB 1221	NA	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
PCB 1232	NA	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
PCB 1242	NA	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
PCB 1248	NA	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
PCB 1254	NA	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
PCB 1260	NA	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
Total PCB's																
Total Metals (UG/G)																
Dilution				1.0			1.0			1.0			1.0			1.0
Arsenic	5	NA	N	1.30	0.065	N	2.41	0.1205	N	2.58	0.129	N	1.26	0.063	N	ND
Barium	100	1.64	N	69.3	3.465	N	74.8	3.74	N	47.2	2.36	N	55.8	2.79	N	133
Cadmium	1	NA	N	9.96	0.498	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
Chromium	5	0.3635	N	55.7	2.785	N	13.8	0.69	N	21.9	1.095	N	52.9	2.645	N	19.0
Silver	5	0.069	N	21.6	1.08	N	ND	NA	N	1.11	0.0555	N	ND	NA	N	ND
Mercury	0.2	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
Lead	5	NA	N	51.6	2.58	N	8.03	0.4015	N	ND	NA	N	6.51	0.3255	N	7.68
Selenium	1	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	0.716
Total Cyanide							ND	NA	N				7.68	NA	N	

Blank results indicate that the
testing was not performed.
PCB hazard based on total.

Appendix B
DELPHI Interior and Lighting Systems
Laboratory Analysis Summary
Main Manufacturing Building-Concrete Core Sample

Parameters	TCPL Limit (mg/L)	Result/20	Haz. Y/N	Z-49 MB-CC-11	Result/20	Haz. Y/N	HH-42 MB-CC-12	Result/20	Haz. Y/N	MB-CC-13	Result/20	Haz. Y/N
PCB's (UG/KG)												
Dilution				1.0								
PCB 1016	NA	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1221	NA	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1232	NA	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1242	NA	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1248	NA	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1254	NA	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1260	NA	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Total PCB's												
Total Metals (UG/G)												
Dilution				1.0			1.0			1.0		
Arsenic	5	NA	N	1.11	0.0555	N	ND	NA	N	ND	NA	N
Barium	100	6.65	N	40.3	2.015	N	107	5.35	N	46.3	2.315	N
Cadmium	1	NA	N	ND	NA	N	1.06	0.053	N	ND	NA	N
Chromium	5	0.95	N	27.9	1.395	N	46.4	2.32	N	22.3	1.115	N
Silver	5	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Mercury	0.2	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Lead	5	0.384	N	ND	NA	N	22.4	1.12	N	ND	NA	N
Selenium	1	0.0358	N	0.527	0.02635	N	ND	NA	N	0.767	0.03835	N
Total Cyanide												

Blank results indicate that the
testing was not performed.
PCB hazard based on total.

Appendix B
DELPHI Interior and Lighting Systems
Laboratory Analysis Summary
Main Manufacturing Building-Residue/Bulk Sample

Parameters	TCPL Limit (ug/L)	Detection Limits	J-52 MB-R-01	Result/20	Haz. Y/N	AZ-53 MB-R-03	Result/20	Haz. Y/N	AZ-54 MB-R-04	Result/20	Haz. Y/N	P-38 MB-R-05	Result/20	Haz. Y/N	FF-38-46 MB-R-06	Haz. Y/N
PCB's (UG/KG)																
Dilution			10.0													
PCB 1016	NA	400	ND	NA	N											
PCB 1221	NA	400	ND	NA	N											
PCB 1232	NA	400	ND	NA	N											
PCB 1242	NA	400	ND	NA	N											
PCB 1248	NA	400	ND	NA	N											
PCB 1254	NA	400	ND	NA	N											
PCB 1260	NA	400	ND	NA	N											
Total PCB's																
Total Metals (UG/G)	(mg/L)															
Dilution			1.0			1.0			1.0			1.0			100 cm²	
Arsenic	5	1	6.31	0.3155	N	ND	NA	N	ND	NA	N	2.05	0.1025	N	ND	N
Barium	100	2	443	22.15	N	84.1	4.205	N	2810	140.5	Y	45.7	2.285	N	1860	
Cadmium	1	0.5	6.8	0.34	N	5.81	0.2905	N	0.676	0.0338	N	2.84	0.142	N	385	
Chromium	5	1	540	27	Y	104	5.2	Y	54.5	2.725	N	8.72	0.436	N	406	
Silver	5	1	ND	NA	N	9.46	0.473	N	ND	NA	N	ND	NA	N	ND	N
Mercury	0.2	0.15	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	N
Lead	5	5	415	20.75	Y	88.8	4.44	N	13800	690	Y	10.8	0.54	N	1050	
Selenium	1	0.5	ND	NA	N	ND	NA	N	0.513	0.02565	N	ND	NA	N	1.25	
Total Cyanide		1.17	ND	NA	N											

Blank result indicates that testing has not been performed.
PCB hazard based on total.

PRIVILEGED AND CONFIDENTIAL
PREPARED AT GENERAL MOTORS COUNSEL'S REQUEST

Appendix B
DELPHI Interior and Lighting Systems
Laboratory Analysis Summary
Main Manufacturing Building-Residue/Bulk Sample

Parameters	TCPL Limit (ug/L)	Detection Limits	J-52 MB-R-01	Result/20	Haz. Y/N	AZ-53 MB-R-03	Result/20	Haz. Y/N	AZ-54 MB-R-04	Result/20	Haz. Y/N	P-38 MB-R-05	Result/20	Haz. Y/N	FF-38-46 MB-R-06	Haz. Y/N
Volatiles (UG/KG)																
Dilution						125.0			500.0						100 cm²	
															500	
Benzene	500	5				ND	NA	N	ND	NA	N				ND	N
2-Butanone (mek)	200000	10				ND	NA	N	100000	5000	N				ND	N
Carbon Tetrachloride	500	5				ND	NA	N	ND	NA	N				ND	N
1,2-Dichloroethane	500	5				ND	NA	N	ND	NA	N				ND	N
Tetrachloroethene	700	5				ND	NA	N	ND	NA	N				ND	N
Trichloroethene	200	5				ND	NA	N	ND	NA	N				ND	N
Vinyl Chloride	200	5				ND	NA	N	ND	NA	N				ND	N
Semivolatiles (UG/KG)																
Dilution						150.0			10.0						100 cm²	
															20.0	
1,4-Dichlorobenzene	7500	330				ND	NA	N	ND	NA	N				ND	N
2,4-Dinitrotoulene	1300	330				ND	NA	N	ND	NA	N				ND	N
Hexachlorobenzene	1300	330				ND	NA	N	ND	NA	N				ND	N
Hexachlorobutadine	500	330				ND	NA	N	ND	NA	N				ND	N
Hexachloroethane	30000	330				ND	NA	N	ND	NA	N				ND	N
Nitrobenzene	20000	330				ND	NA	N	ND	NA	N				ND	N
Pentachlorophenol	100000	1300				ND	NA	N	ND	NA	N				ND	N
2,4,5-Trichlorophenol	400000	670				ND	NA	N	ND	NA	N				ND	N
2,4,6-Trichlorophenol	20000	670				ND	NA	N	ND	NA	N				ND	N

Blank result indicates that testing has not been performed.
PCB hazard based on total.

PRIVILEGED AND CONFIDENTIAL
PREPARED AT GENERAL MOTORS COUNSEL'S REQUEST

j:\gm\renton\8582000001\labresult.xls\MB-R

Appendix B
DELPHI Interior and Lighting Systems
Laboratory Analysis Summary
Main Manufacturing Building-Residue/Bulk Sample

Parameters	TCPL Limit (ug/L)	FF-38-46 MB-R-08	Result/20	Haz. Y/N	FF-38-46 MB-R-09	Result/20	Haz. Y/N	FF-38-46 MB-R-010	Result/20	Haz. Y/N	FF-38-46 MB-R-011	Result/20	Haz. Y/N	HH-50 MB-R-012	Result/20	Haz. Y/N
PCB's (UG/KG)																
Dilution																
PCB 1016	NA															
PCB 1221	NA															
PCB 1232	NA															
PCB 1242	NA															
PCB 1248	NA															
PCB 1254	NA															
PCB 1260	NA															
Total PCB's																
Total Metals (UG/G)	(mg/L)															
Dilution		1.0			1.0			1.0			1.0			1.0		
Arsenic	5	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Barium	100	7860	393	Y	2040	102	Y	6160	308	Y	2170	108.5	Y	282	14.1	N
Cadmium	1	ND	NA	N	2.04	0.102	N	1.3	0.065	N	2.08	0.104	N	16.5	0.825	N
Chromium	5	48.6	2.43	N	156	7.8	Y	109	5.45	Y	173	8.65	Y	216	10.8	Y
Silver	5	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	11.2	0.56	N
Mercury	0.2	0.21	0.0105	N	ND	NA	N	ND	NA	N	ND	NA	N	0.157	0.00785	N
Lead	5	10.4	0.52	N	332	16.6	Y	112	5.6	Y	21.8	1.09	N	9990	499.5	Y
Selenium	1	1.21	0.0605	N	ND	NA	N	ND	NA	N	0.5	0.025	N	ND	NA	N
Total Cyanide																

Blank result indicates that testing has not been performed.
PCB hazard based on total.

PRIVILEGED AND CONFIDENTIAL
PREPARED AT GENERAL MOTORS COUNSEL'S REQUEST

Appendix B
DELPHI Interior and Lighting Systems
Laboratory Analysis Summary
Main Manufacturing Building-Residue/Bulk Sample

Parameters	TCPL Limit (ug/L)	FF-38-46 MB-R-08	Result/20	Haz. Y/N	FF-38-46 MB-R-09	Result/20	Haz. Y/N	FF-38-46 MB-R-010	Result/20	Haz. Y/N	FF-38-46 MB-R-011	Result/20	Haz. Y/N	HH-50 MB-R-012	Result/20	Haz. Y/N
Volatiles (UG/KG)																
Dilution		1000.0			1000.0			500.0			125.0					
Benzene	500	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N			
2-Butanone (mek)	200000	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N			
Carbon Tetrachloride	500	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N			
1,2-Dichloroethane	500	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N			
Tetrachloroethene	700	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N			
Trichloroethene	200	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N			
Vinyl Chloride	200	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N			
Semivolatiles (UG/KG)																
Dilution		10.0			30.0			3.0								
1,4-Dichlorobenzene	7500	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N			
2,4-Dinitrotoulene	1300	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N			
Hexachlorobenzene	1300	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N			
Hexachlorobutadine	500	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N			
Hexachloroethane	30000	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N			
Nitrobenzene	20000	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N			
Pentachlorophenol	100000	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N			
2,4,5-Trichlorophenol	400000	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N			
2,4,6-Trichlorophenol	20000	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N			

Blank result indicates that testing has not been performed.
PCB hazard based on total.

PRIVILEGED AND CONFIDENTIAL
PREPARED AT GENERAL MOTORS COUNSEL'S REQUEST

Appendix B
DELPHI Interior and Lighting Systems
Laboratory Analysis Summary
Main Manufacturing Building-Truss Samples

Parameters	TCPL Limit (mg/L)	Detection Limits	J-53 MB-T-01	Result/20	Haz. Y/N	V-53 MB-T-02	Result/20	Haz. Y/N	M-46 MB-T-03	Result/20	Haz. Y/N	Y-46 MB-T-04	Result/20	Haz. Y/N
PCB's (UG/KG)														
Dilution			1.0			1.0			1.0			1.0		
PCB 1016	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1221	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1232	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1242	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1248	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1254	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1260	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Total PCB's														
Total Metals (ug/g)														
Dilution			1.0			1.0			1.0			1.0		
Arsenic	5	1.00	5.06	0.253	N	4.2	0.21	N	ND	NA	N	2.99	0.1495	N
Barium	100	2.00	1730	86.5	N	74.1	3.705	N	273	13.65	N	182	9.1	N
Cadmium	1	0.500	30.5	1.525	Y	17.1	0.855	N	26.7	1.335	Y	13.8	0.69	N
Chromium	5	1.00	353	17.65	Y	539	26.95	Y	2190	109.5	Y	1320	66	Y
Silver	5	1.00	2.1	0.105	N	1.41	0.0705	N	5.96	0.298	N	1.78	0.089	N
Mercury	0.2	0.150	1.54	0.077	N	1.18	0.059	N	0.199	0.00995	N	0.167	0.00835	N
Lead	5	5.00	1290	64.5	Y	303	15.15	Y	1020	51	Y	498	24.9	Y
Selenium	1	0.500	2.92	0.146	N	ND	NA	N	8.27	0.4135	N	1.56	0.078	N

Blank results indicate that the
testing was not performed.
PCB hazard based on total.

Appendix B
DELPHI Interior and Lighting Systems
Laboratory Analysis Summary
Main Manufacturing Building-Truss Samples

Parameters	TCPL Limit (mg/L)	M-38 MB-T-05	Result/20	Haz. Y/N	II-40 MB-T-06	Result/20	Haz. Y/N	GG-10 MB-T-07	Result/20	Haz. Y/N	G-34 MB-T-08	Result/20	Haz. Y/N	S-32 MB-T-09	Result/20	Haz. Y/N
PCB's (UG/KG)																
Dilution		1.0			1.0			1.0			1.0			1.0		
PCB 1016	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1221	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1232	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1242	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1248	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1254	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1260	NA	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Total PCB's																
Total Metals (UG/G)																
Dilution		1.0			1.0			1.0			1.0			1.0		
Arsenic	5	11.3	0.565	N	4.51	0.2255	N	5.3	0.265	N	9.18	0.459	N	7.93	0.3965	N
Barium	100	262	13.1	N	2240	112	Y	669	33.45	N	556	27.8	N	2550	127.5	Y
Cadmium	1	35.5	1.775	Y	85.4	4.27	Y	31.7	1.585	Y	14.1	0.705	N	26.1	1.305	Y
Chromium	5	428	21.4	Y	373	18.65	Y	720	36	Y	1420	71	Y	1910	95.5	Y
Silver	5	6.61	0.3305	N	1.88	0.094	N	7.02	0.351	N	3.19	0.1595	N	9.54	0.477	N
Mercury	0.2	0.345	0.01725	N	0.313	0.01565	N	0.308	0.0154	N	0.492	0.0246	N	0.652	0.0326	N
Lead	5	482	24.1	Y	1100	55	Y	1960	98	Y	1680	84	Y	1600	80	Y
Selenium	1	ND	NA	N	1.33	0.0665	N	0.848	0.0424	N	0.689	0.03445	N	ND	NA	N

Blank results indicate that the
testing was not performed.
PCB hazard based on total.

Appendix B
DELPHI Interior and Lighting Systems
Laboratory Analysis Summary
Main Manufacturing Building-Truss Samples

Parameters	TCPL Limit (mg/L)	E-8 MB-T-10	Result/20	Haz. Y/N	AZ-52 MB-T-11	Result/20	Haz. Y/N	S-6 MB-T-12	Result/20	Haz. Y/N
PCB's (UG/KG)										
Dilution		1.0			1.0			1.0		
PCB 1016	NA	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1221	NA	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1232	NA	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1242	NA	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1248	NA	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1254	NA	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1260	NA	ND	NA	N	ND	NA	N	ND	NA	N
Total PCB's										
Total Metals (UG/G)										
Dilution		2.0			1.0			1.0		
Arsenic	5	12.1	0.605	N	24.9	1.245	N	9.24	0.462	N
Barium	100	2010	100.5	Y	1260	63	N	785	39.25	N
Cadmium	1	60.9	3.045	Y	26.2	1.31	Y	15.5	0.775	N
Chromium	5	552	27.6	Y	911	45.55	Y	194	9.7	Y
Silver	5	8.45	0.239	N	18	0.9	N	3.84	0.192	N
Mercury	0.2	0.157	0.00785	N	0.337	0.01685	N	0.874	0.0437	N
Lead	5	2070	0.4225	N	4110	205.5	Y	2860	143	Y
Selenium	1	4.78	103.5	Y	0.5	0.025	N	2.68	0.134	N

Blank results indicate that the
testing was not performed.
PCB hazard based on total.

**DELPHI Interior and Lighting Systems
Laboratory Results
Main Manufacturing Building-Stack and Exhaust Pipe Samples**

Parameters	TCPL Limit (ug/L)	Detection Limit	W-125/153 MB-VS-05C	Haz. Y/N	S-86 MB-VS-09	Haz. Y/N	DD-8 MB-PE-01	Result/20	Haz. Y/N	U-46 MB-PE-02	Result/20	Haz. Y/N
PCB's (UG/KG)												
Dilution												
PCB 1016	NA	400										
PCB 1221	NA	400										
PCB 1232	NA	400										
PCB 1242	NA	400										
PCB 1248	NA	400										
PCB 1254	NA	400										
PCB 1260	NA	400										
Total PCB's												
Total Metals (UG/G)												
Dilution			2.0		1.0		1.0			1.0		
Arsenic	5	1.00	1.63	N	ND	N	30.7	1.535	N	1.12	0.056	N
Barium	100	2.00	89.9	N	139	N	268	13.4	N	18.5	0.925	N
Cadmium	1	0.500	3.52	N	4.41	N	34.9	1.745	Y	0.959	0.04795	N
Chromium	5	1.00	85.9	N	20.9	N	721	36.05	Y	11.0	0.55	N
Silver	5	1.00	ND	N	ND	N	24.0	1.2	N	ND	NA	N
Mercury	0.2	0.150	ND	N	ND	N	0.428	0.0214	N	ND	NA	N
Lead	5	5.00	58.4	N	127	N	659	32.95	Y	10.3	0.515	N
Selenium	1	0.500	3.62	N	2.32	N	10.7	0.535	N	0.963	0.04815	N
Total Cyanide		1.00			1.06	N						
Volatiles (UG/KG)												
Dilution							125.0			125.0		
Benzene	500	5					ND	NA	N	ND	NA	N
2-Butanone (mek)	200000	10					ND	NA	N	ND	NA	N
Carbon Tetrachloride	500	5					ND	NA	N	ND	NA	N
1,2-Dichloroethane	500	5					ND	NA	N	ND	NA	N
Tetrachloroethene	700	5					ND	NA	N	ND	NA	N
Trichloroethene	200	5					ND	NA	N	ND	NA	N
Vinyl Chloride	200	5					ND	NA	N	ND	NA	N

Blank result indicates that testing was not performed.
PCB hazard is based on total.

PRIVILEGED AND CONFIDENTIAL
PREPARED AT GENERAL MOTORS COUNSEL'S REQUEST

J:\gmtrenton\8582000001\labsult.xls\MB-VS& PE

**DELPHI Interior and Lighting Systems
Laboratory Results
Main Manufacturing Building-Stack and Exhaust Pipe Samples**

Parameters	TCPL Limit (ug/L)	G-40 MB-PE-03	Result/20	Haz. Y/N	E-12 MB-PE-04	Haz. Y/N	S-38 MB-PE-05	Result/20	Haz. Y/N	I-46 MB-PE-06	Result/20	Haz. Y/N	E-11 MB-PE-07	Result/20	Haz. Y/N
PCB's (UG/KG)															
Dilution		1.0													
PCB 1016	NA	ND	NA	N											
PCB 1221	NA	ND	NA	N											
PCB 1232	NA	ND	NA	N											
PCB 1242	NA	ND	NA	N											
PCB 1248	NA	ND	NA	N											
PCB 1254	NA	ND	NA	N											
PCB 1260	NA	ND	NA	N											
Total PCB's				-											
Total Metals (UG/G)															
Dilution		1.0			3.0		2.0			1.0			1.0		
Arsenic	5	ND	NA	N	8.47		8.20	0.41	N	ND	NA	N	ND	NA	N
Barium	100	2.13	0.1065	N	551		616	30.8	N	13.2	0.66	N	34.5	1.725	N
Cadmium	1	ND	NA	N	10.5		73.8	3.69	Y	9.57	0.4785	N	5.07	0.2535	N
Chromium	5	2.40	0.12	N	211		941	47.05	Y	305	15.25	Y	11.0	0.55	N
Silver	5	ND	NA	N	2.57		3.28	0.164	N	ND	NA	N	ND	NA	N
Mercury	0.2	ND	NA	N	0.248		0.388	0.0194	N	0.302	0.0151	N	ND	NA	N
Lead	5	ND	NA	N	2.97		5.78	0.289	N	1.41	0.0705	N	33.1	1.655	N
Selenium	1	ND	NA	N	146		505	25.25	Y	22.9	1.145	Y	1.65	0.0825	N
Total Cyanide										ND	NA	N			
Volatiles (UG/KG)															
Dilution		125.0			1500.0								2000.0		
Benzene	500	ND	NA	N	ND	N							ND	NA	N
2-Butanone (mek)	200000	ND	NA	N	ND	N							ND	NA	N
Carbon Tetrachloride	500	ND	NA	N	ND	N							ND	NA	N
1,2-Dichloroethane	500	ND	NA	N	ND	N							ND	NA	N
Tetrachloroethene	700	ND	NA	N	ND	N							ND	NA	N
Trichloroethene	200	ND	NA	N	ND	N							ND	NA	N
Vinyl Chloride	200	ND	NA	N	ND	N							ND	NA	N

Blank result indicates that testing was not performed.
PCB hazard is based on total.

PRIVILEGED AND CONFIDENTIAL
PREPARED AT GENERAL MOTORS COUNSEL'S REQUEST

j:\gmtrenton\8582000001\abrsult.xls\MB-VS& PE

DELPHI Interior and Lighting Systems
Laboratory Results
Main Manufacturing Building-Sump/Drain Samples

Parameters	TCPL Limit (ug/L)	Detection Limit	C-8 MB-SD-01	Result/20	Haz. Y/N	KK-20 MB-SD-02	Result/20	Haz. Y/N	KK-27 MB-SD-03	Result/20	Haz. Y/N	KK-32 MB-SD-04	Result/20	Haz. Y/N	KK-39 MB-SD-05	Result/20	Haz. Y/N	AY-13 MB-SD-06
PCB's (UG/KG)																		
Dilution			1.0			100.0			1.0			100.0			1.0			5.0
PCB 1016	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
PCB 1221	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
PCB 1232	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
PCB 1242	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
PCB 1248	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
PCB 1254	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
PCB 1260	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	18000
Total PCB's	NA	400	ND	NA	N	640000	NA	Y	ND	NA	N	280000	NA	Y	ND	NA	N	ND
Total Metals (UG/G)						640000		Y				280000		Y				18000
Dilution			1.0			1.0			1.0			1.0			1.0			
Arsenic	5000	1	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
Barium	100000	2	8.66	0.433	N	18.7	0.935	N	14.1	0.705	N	18.6	0.93	N	30.5	1.525	N	340
Cadmium	1000	0.5	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	16.1
Chromium	5000	1	19.7	0.985	N	38.9	1.945	N	13.8	0.69	N	4.87	0.2435	N	10.4	0.52	N	108
Silver	5000	1	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
Mercury	200	0.15	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	3.51
Lead	5000	5	ND	NA	N	ND	NA	N	152	7.6	N	ND	NA	N	ND	NA	N	395
Selenium	1000	0.5	79.3	3.965	N	166	8.3	N	ND	NA	N	9.50	0.475	N	ND	NA	N	1.68
Total Cyanide	1000																	

Blank result indicates that testing has not been performed.
PCB hazard based on total.

DELPHI Interior and Lighting Systems
Laboratory Results
Main Manufacturing Building-Sump/Drain Samples

Parameters	TCPL Limit (ug/L)	Detection Limit	C-8 MB-SD-01	Result/20	Haz. Y/N	KK-20 MB-SD-02	Result/20	Haz. Y/N	KK-27 MB-SD-03	Result/20	Haz. Y/N	KK-32 MB-SD-04	Result/20	Haz. Y/N	KK-39 MB-SD-05	Result/20	Haz. Y/N	AY-13 MB-SD-06
Volatiles (UG/KG)																		
Dilution			125.0			125.0			500.0			125.0			125.0			125.0
Benzene	500	5	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
2-Butanone (mek)	200000	10	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
Carbon Tetrachloride	500	5	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
1,2-Dichloroethane	500	5	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
Tetrachloroethene	700	5	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
Trichloroethene	200	5	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
Vinyl Chloride	200	5	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
Semivolatiles (UG/KG)																		
Dilutions			10.0			10.0			10.0			10.0			10.0			10.0
1,4-Dichlorobenzene	7500	330	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
2,4-Dinitrotoulene	1300	330	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
Hexachlorobenzene	1300	330	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
Hexachlorobutadine	500	330	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
Hexachloroethane	30000	330	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
Nitrobenzene	20000	330	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
Pentachlorophenol	100000	1300	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
2,4,5-Trichlorophenol	400000	670	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND
2,4,6-Trichlorophenol	20000	670	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND

Blank result indicates that testing has not been performed.
PCB hazard based on total.

**DELPHI Interior and Lighting Systems
Laboratory Results
Main Manufacturing Building-Sump/Drain Samples**

Parameters	TCPL Limit (ug/L)	Result/20	Haz. Y/N	J-38 MB-SD-07	Haz. Y/N	Y-44 MB-SD-08	Haz. Y/N	E-52 MB-SD-09	Haz. Y/N	AY-13 MB-SD-10	Haz. Y/N	Storm Sewer SS-SD-01	Result/20	Haz. Y/N
PCB's (UG/KG)				(ug/L)		(ug/L)		(ug/L)		(ug/L)				
Dilution				11.1		10		11.1		20		1.00		
PCB 1016	NA	NA	N	ND	N	ND	N	ND	N	10	N	ND	NA	N
PCB 1221	NA	NA	N	ND	N	ND	N	ND	N	10	N	ND	NA	N
PCB 1232	NA	NA	N	ND	N	ND	N	ND	N	10	N	ND	NA	N
PCB 1242	NA	NA	N	ND	N	ND	N	ND	N	10	N	ND	NA	N
PCB 1248	NA	NA	N	ND	N	ND	N	ND	N	10	N	ND	NA	N
PCB 1254	NA	NA	N	ND	N	ND	N	ND	N	50	N	ND	NA	N
PCB 1260	NA	NA	N	ND	N	ND	N	ND	N	ND	N	ND	NA	N
Total PCB's	NA	NA	N							50	N		NA	N
Total Metals (UG/G)										(mg/L)				
Dilution														
Arsenic	5000	NA	N							0.0321	N	1.02	1.9	N
Barium	100000	17	N							3.19	N	38.0	0.0685	N
Cadmium	1000	0.805	N							0.161	N	1.37	2.36	N
Chromium	5000	5.4	N							0.467	N	47.2	0.0349	N
Silver	5000	NA	N							0.0121	N	ND	NA	N
Mercury	200	0.1755	N							0.0976	N	ND	NA	N
Lead	5000	19.75	N							2.5	N	136	0.051	N
Selenium	1000	0.084	N							0.0245	N	0.698	6.8	N
Total Cyanide	1000													

Blank result indicates that testing has not been performed.
PCB hazard based on total.

**DELPHI Interior and Lighting Systems
Laboratory Results
Main Manufacturing Building-Sump/Drain Samples**

Parameters	TCPL Limit (ug/L)	Result/20	Haz. Y/N	J-38 MB-SD-07	Haz. Y/N	Y-44 MB-SD-08	Haz. Y/N	E-52 MB-SD-09	Haz. Y/N	AY-13 MB-SD-10	Haz. Y/N	Storm Sewer SS-SD-01	Result/20	Haz. Y/N
Volatiles (UG/KG)														
Dilution												125.0		
Benzene	500	NA	N									ND	NA	N
2-Butanone (mek)	200000	NA	N									ND	NA	N
Carbon Tetrachloride	500	NA	N									ND	NA	N
1,2-Dichloroethane	500	NA	N									ND	NA	N
Tetrachloroethene	700	NA	N									ND	NA	N
Trichloroethene	200	NA	N									ND	NA	N
Vinyl Chloride	200	NA	N									ND	NA	N
Semivolatiles (UG/KG)														
Dilutions												10.0		
1,4-Dichlorobenzene	7500	NA	N									ND	NA	N
2,4-Dinitrotoulene	1300	NA	N									ND	NA	N
Hexachlorobenzene	1300	NA	N									ND	NA	N
Hexachlorobutadine	500	NA	N									ND	NA	N
Hexachloroethane	30000	NA	N									ND	NA	N
Nitrobenzene	20000	NA	N									ND	NA	N
Pentachlorophenol	100000	NA	N									ND	NA	N
2,4,5-Trichlorophenol	400000	NA	N									ND	NA	N
2,4,6-Trichlorophenol	20000	NA	N									ND	NA	N

Blank result indicates that testing has not been performed.
PCB hazard based on total.

**DELPHI Interior and Lighting Systems
Laboratory Results
Main Manufacturing Building-Substation Residue and Bulk Samples**

Parameters	TCPL Limit (mg/L)	Detection Limit	MB-SS-01	MB-SS-02	MB-SS-03	MB-SS-04	MB-SS-05
PCB's (UG/KG)							
Dilution			1.0	1.0	1.0	1000	1.0
PCB 1016	NA	400	ND	ND	ND	ND	ND
PCB 1221	NA	400	ND	ND	ND	ND	ND
PCB 1232	NA	400	ND	ND	ND	ND	ND
PCB 1242	NA	400	ND	ND	ND	ND	ND
PCB 1248	NA	400	ND	ND	ND	ND	ND
PCB 1254	NA	400	ND	ND	ND	ND	3400
PCB 1260	NA	400	1100	2000	970	4400000	ND
Total PCB's			1100	2000		4400000	3400

Blank result indicates that testing has not been performed.
PCB hazard based on total.

Appendix B
DELPHI Interior and Lighting Systems
Laboratory Results
Main Manufacturing Building-Gallbestos Samples

Parameters	TCPL Limit (mg/L)	Detection Limit	MB-GAL-01	MB-GAL-02	MB-GAL-03	MB-GAL-04	MB-GAL-05	MB-GAL-06	MB-GAL-07	MB-GAL-08	MB-GAL-09	M-B-GAL10
PCB's (UG/KG)												
Dilution			10.0	1000.0	10.0	100.0	10.0	10.0	100.0	500.0	10.0	10.0
PCB 1016	NA	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1221	NA	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1232	NA	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1242	NA	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1248	NA	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1254	NA	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1260	NA	400	39000	2600000	38000	130000	26000	25000	220000	930000	27000	38000
Total PCB's	NA	400	39000	2600000	38000	130000	26000	25000	220000	930000	27000	38000

Blank results indicate that the testing was not performed.
PCB hazard based on total.

**DELPHI Interior and Lighting Systems
Laboratory Results
Main Manufacturing Building-Roof Samples**

Parameters	TCPL Limit (mg/L)	Detection Limit	R-031-	Result/20	Haz. Y/N	R-03M-	Result/20	Haz. Y/N	R-12E-	Result/20	Haz. Y/N	D-49	Result/20	Haz. Y/N
Total Metals (UG/G)														
Dilution			1.0			1.0			1.0			1.0		
Arsenic	5	1.00	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Barium	100	2.00	110	5.5	N	45.60	2.28	N	129.00	6.45	N	ND	NA	N
Cadmium	1	0.500	ND	NA	N	ND	NA	N	0.50	0.025	N	ND	NA	N
Chromium	5	1.00	18.9	0.945	N	172.00	8.6	Y	59.00	2.95	N	4.18	0.209	N
Silver	5	1.00	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Mercury	0.2	0.150	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Lead	5	5.00	38.7	1.935	N	48.40	2.42	N	ND	NA	N	ND	NA	N
Selenium	1	0.500	1.89	0.0945	N	0.90	0.0452	N	0.77	0.0385	N	0.791	0.03955	N

Parameters	TCPL Limit (mg/L)	Detection Limit	AY-15 R-07E	Result/20	Haz. Y/N	R-07A-	Result/20	Haz. Y/N	R-04A-	Result/20	Haz. Y/N	J-22 R-02A-	Result/20	Haz. Y/N
Total Metals (UG/G)														
Dilution			1.0			1.0			1.0			1.0		
Arsenic	5	1.00	ND	NA	N	ND	NA	N	1.00	0.05	N	3.06	0.153	N
Barium	100	2.00	6.33	0.3165	N	26.7	1.335	N	4.30	0.215	N	41.00	2.05	N
Cadmium	1	0.500	ND	NA	N	ND	NA	N	0.50	0.025	N	1.14	0.057	N
Chromium	5	1.00	3.35	0.1675	N	15.8	0.79	N	1.65	0.0825	N	5.64	0.282	N
Silver	5	1.00	ND	NA	N	1.46	0.073	N	1.00	0.05	N	ND	NA	N
Mercury	0.2	0.150	ND	NA	N	ND	NA	N	0.15	0.0075	N	ND	NA	N
Lead	5	5.00	5.39	0.2695	N	24.3	1.215	N	5.00	0.25	N	68.70	3.435	N
Selenium	1	0.500	0.79	0.03955	N	1.12	0.056	N	1.76	0.088	N	3.24	0.162	N

Blank results indicate that the testing was not performed.
PCB hazard based on results.

**DELPHI Interior and Lighting Systems
Laboratory Results
Maintenance Garage**

Parameters	TCPL Limit (mg/L)	Detection Limit	MG-CC-01*	Result/20	Haz. Y/N	MG-CC-02	Result/20	Haz. Y/N	MG-R-01	Result/20	Haz. Y/N	MG-SD-01	Result/20	Haz. Y/N
PCB's (UG/KG)														
Dilution												1.0		
PCB 1016	NA		ND	NA	N	ND	NA	N				ND	NA	N
PCB 1221	NA		ND	NA	N	ND	NA	N				ND	NA	N
PCB 1232	NA		ND	NA	N	ND	NA	N				ND	NA	N
PCB 1242	NA		ND	NA	N	ND	NA	N				ND	NA	N
PCB 1248	NA		ND	NA	N	ND	NA	N				ND	NA	N
PCB 1254	NA		ND	NA	N	ND	NA	N				ND	NA	N
PCB 1260	NA		ND	NA	N	ND	NA	N				ND	NA	N
Total PCB's	NA													
Total Metals (UG/G)														
Dilution						1.0			2.0			1.0		
Arsenic	5	1.00				4.44	0.222	N	ND	NA	N	3.4	0.17	N
Barium	100	2.00				53.4	2.67	N	1480	74	N	106	5.3	N
Cadmium	1	0.500				0.5	0.025	N	10.1	0.505	N	4.94	0.247	N
Chromium	5	1.00				20.6	1.03	N	16.4	0.82	N	220	11	Y
Silver	5	1.00				1	0.05	N	ND	NA	N	ND	NA	N
Mercury	0.2	0.150				0.15	0.0075	N	ND	NA	N	0.535	0.02675	N
Lead	5	5.00				5.54	0.277	N	46.9	2.345	N	747	37.35	Y
Selenium	1	0.500				0.5	0.025	N	2.48	0.124	N	ND	NA	N
Total Cyanide		1.00	ND	NA	N									

Blank result indicates that testing was not performed.
PCB hazard based on total.

**DELPHI Interior and Lighting Systems
Laboratory Results
Maintenance Garage**

Parameters	TCPL Limit (mg/L)	Detection Limit	MG-CC-01*	Result/20	Haz. Y/N	MG-CC-02	Result/20	Haz. Y/N	MG-R-01	Result/20	Haz. Y/N	MG-SD-01	Result/20	Haz. Y/N
Volatiles (UG/KG)														
Dilution									500.0					
Benzene	500	5							ND	NA	N			
2-Butanone (mek)	200000	10							ND	NA	N			
Carbon Tetrachloride	500	5							ND	NA	N			
1,2-Dichloroethane	500	5							ND	NA	N			
Tetrachloroethene	700	5							ND	NA	N			
Trichloroethene	200	5							ND	NA	N			
Vinyl Chloride	200	5							ND	NA	N			
Semivolatiles (UG/KG)														
Dilution									20.0					
1,4-Dichlorobenzene	7500	330							ND	NA	N			
2,4-Dinitrotoulene	1300	330							ND	NA	N			
Hexachlorobenzene	1300	330							ND	NA	N			
Hexachlorobutadine	500	330							ND	NA	N			
Hexachloroethane	30000	330							ND	NA	N			
Nitrobenzene	20000	330							ND	NA	N			
Pentachlorophenol	100000	1300							ND	NA	N			
2,4,5-Trichlorophenol	400000	670							ND	NA	N			
2,4,6-Trichlorophenol	20000	670							ND	NA	N			

*pH = 11.6

Blank result indicates that testing was not performed.
PCB hazard based on total.

**DELPHI Interior and Lighting Systems
Laboratory Results
Power House**

Parameters	TCPL Limit (ug/L)	Detection Limit	PH-SD-0	Result/20	Haz. Y/N	PH-SD-0	Result/20	Haz. Y/N	PH-SD-03	Result/20	Haz. Y/N	PH-SD-04	Result/20	Haz. Y/N	PH-R-01	Result/20	Haz. Y/N
PCB's (UG/KG)																	
Dilution			1.0			1.0			1.0			1.0			100 cm²		
PCB 1016	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1221	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1232	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1242	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1248	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1254	NA	400	ND	NA	N	750	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
PCB 1260	NA	400	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Total PCB's						750											
Total Metals (UG/G)																	
Dilution			1.0			1.0			1.0			1.0			2.0		
Arsenic	5	1.00	3.28	0.164	N	5.64	0.282	N	25.9	1.295	N	36.8	1.84	N	ND	NA	N
Barium	100	2.00	1570	78.5	N	3960	198	Y	457	22.85	N	798	39.9	N	215	10.75	N
Cadmium	1	0.500	4.23	0.2115	N	15.8	0.79	N	18.7	0.935	N	9.25	0.4625	N	6.79	0.3395	N
Chromium	5	1.00	258	12.9	Y	1070	53.5	Y	295	14.75	Y	119	5.95	Y	87.1	4.355	N
Silver	5	1.00	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N
Mercury	0.2	0.150	245	12.25	Y	2.56	0.128	N	3.85	0.1925	N	1.7	0.085	N	0.42	0.021	N
Lead	5	5.00	616	30.8	Y	129	6.45	Y	1920	96	Y	928	46.4	Y	671	33.55	Y
Selenium	1	0.500	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N	ND	NA	N

Blank result indicates that testing was not performed.
PCB hazard based on total.

**DELPHI Interior and Lighting Systems
Laboratory Results
Paint Storage Building**

Parameters	TCPL Limit (ug/L)	Detection Limit	PSB-CC-0	Result/20	Haz. Y/N
PCB's (UG/KG)					
Dilution			1.0		
PCB 1016	NA		ND	NA	N
PCB 1221	NA		ND	NA	N
PCB 1232	NA		ND	NA	N
PCB 1242	NA		ND	NA	N
PCB 1248	NA		ND	NA	N
PCB 1254	NA		ND	NA	N
PCB 1260	NA		ND	NA	N
Total PCB's					
Total Metals (UG/G)					
Dilution			1.0		
Arsenic	5	1.00	4.31	0.2155	N
Barium	100	2.00	214	10.7	N
Cadmium	1	0.500	2.57	0.1285	N
Chromium	5	1.00	59.6	2.98	N
Silver	5	1.00	ND	NA	N
Mercury	0.2	0.150	ND	NA	N
Lead	5	5.00	62.1	3.105	N
Selenium	1	0.500	ND	NA	N
Volatiles (UG/KG)					
Dilution			5.0		
Benzene	500	5	ND	NA	N
2-Butanone (mek)	200000	10	ND	NA	N
Carbon Tetrachloride	500	5	ND	NA	N
1,2-Dichloroethane	500	5	ND	NA	N
Tetrachloroethene	700	5	ND	NA	N
Trichloroethene	200	5	ND	NA	N
Vinyl Chloride	200	5	ND	NA	N
Semivolatiles (UG/KG)					
Dilution			10.0		
1,4-Dichlorobenzene	7500	330	ND	NA	N
2,4-Dinitrotoulene	1300	330	ND	NA	N
Hexachlorobutadine	500	330	ND	NA	N
Hexachloroethane	30000	330	ND	NA	N
Nitrobenzene	20000	330	ND	NA	N
Pentachlorophenol	100000	1300	ND	NA	N
2,4,5-Trichlorophenol	400000	670	ND	NA	N
2,4,6-Trichlorophenol	20000	670	ND	NA	N

Blank results indicate that the testing was not performed.

PCB hazard based on total.

**DELPHI Interior and Lighting Systems
Laboratory Results
Company Garage**

Parameters	TCPL Limit (ug/L)	Detection Limit	CG-CC-01	Result/20	Haz. Y/N
PCB's (UG/KG)					
Dilution			1.0		
PCB 1016	NA		ND	ND	N
PCB 1221	NA		ND	ND	N
PCB 1232	NA		ND	ND	N
PCB 1242	NA		ND	ND	N
PCB 1248	NA		ND	ND	N
PCB 1254	NA		ND	ND	N
PCB 1260	NA		ND	ND	N
Total PCB's			ND	ND	N
Total Metals (UG/G)					
Dilution					
Arsenic	5	1.00			
Barium	100	2.00			
Cadmium	1	0.500			
Chromium	5	1.00			
Silver	5	1.00			
Mercury	0.2	0.150			
Lead	5	5.00			
Selenium	1	0.500			
Volatiles (UG/KG)					
Dilution			1.0		
Benzene	500	5	ND	ND	N
2-Butanone (mek)	200000	10	ND	ND	N
Carbon Tetrachloride	500	5	ND	ND	N
1,2-Dichloroethane	500	5	ND	ND	N
Tetrachloroethene	700	5	ND	ND	N
Trichloroethene	200	5	ND	ND	N
Vinyl Chloride	200	5	ND	ND	N

Blank result indicates that testing was not performed.
PCB hazard based on total.

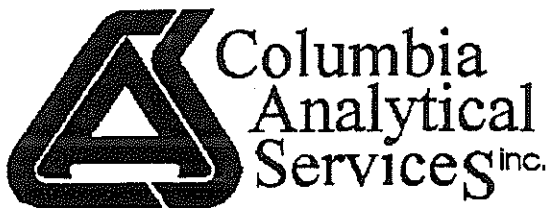
**DELPHI Interior and Lighting Systems
Laboratory Results
Wastewater Treatment**

Parameters	TCPL Limit (ug/L)	Detection Limit	WW-SD-01	Result/20	Haz. Y/N
Total Metals (UG/G)					
Dilution			1.0		
Arsenic	5	1.00	ND	ND	N
Barium	100	2.00	646	32.3	N
Cadmium	1	0.500	6.81	0.3405	N
Chromium	5	1.00	416	20.8	Y
Silver	5	1.00	2.48	0.124	N
Mercury	0.2	0.150	1.28	0.064	N
Lead	5	5.00	839	41.95	Y
Selenium	1	0.500	ND	ND	N

Blank results indicate that the testing was not performed.

PCB hazard based on total.

APPENDIX C
LABORATORY REPORTS



A FULL SERVICE ENVIRONMENTAL LABORATORY

March 18, 1997

Mr. Raymond Kapp
EMCON
Crossroads Corp. Center
1 International Blvd, Ste. 700
Mahwah, NJ 07495

PROJECT:GM/DELPHI PLANT INT L+S
Submission #:9703000156

Dear Mr. Kapp:

Enclosed are the analytical results of the analyses requested. The analytical data was provided to you on 03/14/97 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at (716) 454-6810.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in cursive script, appearing to read 'Mark Wilson', is written over the typed name.

Mark Wilson
Client Service Manager

Enc.

This package has been reviewed by Columbia Analytical Services, QA Department/Laboratory Director prior to report submittal. A handwritten signature in cursive script, appearing to read 'Michael K. P.', is written over the typed name.

700 Exchange Street • Rochester, NY 14608 • Tele:(716)454-6810 • Fax:(716)454-6825
65 Rambo Vally Rd. • Suite 16 • Mahwah, NJ 07430 • Tele:(201)512-3292 • Fax:(201)512-3362
12699 Roll Rd. • Akron, NY 14001 • Tele:(716)542-1264 • Fax:(716)542-3353



CASE NARRATIVE

COMPANY: EMCON
GM/Delphi Plant INT L+S
SUBMISSION #: 9703000156

EMCON wood block samples were collected on 03/11/97 and received at CAS on 03/12/97 in good condition.

PCBs

Seventeen wood block samples were analyzed for Target Compound List (TCL) PCBs by EPA Method 8080 from SW-846.

All samples were analyzed at a dilution of 10 due to interfering organics present in the sample.

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within QC Limits except for surrogates in samples MBWB-18C and MBWB-22. This was most likely due to matrix interferences. The surrogates have been flagged "**".

All samples were analyzed within the holding time as specified in the method.

No other analytical or QC problems were encountered.

INORGANICS

Seventeen wood block samples were analyzed for the RCRA list of Metals. ICP Metals were analyzed by EPA Method 6010 and Mercury by 7470.

All Initial and Continuing calibrations were compliant.

No analytical or QC problems were encountered.



Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)
- * - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)
 - Also used to qualify Organics QC data outside limits.
- D - Spike diluted out.
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CAS Lab ID # for State Certifications

NY ID # in Rochester: 10145
CT ID # in Rochester: PH0556
MA ID # in Rochester: M-NY032

NJ ID # in Rochester: 73004
RI ID # in Rochester: 158

ANALYTICAL REPORT SUMMARY

Reported: 03/18/97

Reported Units = UG/G

EMCON

GM/DELPHI PLANT INT L+S

SUBMISSION #: 9703000156

ORDER NUMBER		134529	134530	134531	134532
SAMPLE ID:		MBWB-06	MBWB-03	MBWB-23C	MBWB-19
DATE SAMPLED:		03/11/97	03/11/97	03/11/97	03/11/97
DATE RECEIVED:	PQL	03/12/97	03/12/97	03/12/97	03/12/97
ARSENIC	1.00	1.00 U	2.03	1.00 U	1.00 U
BARIUM	2.00	49.0	25.6	14.5	17.0
CADMIUM	0.500	1.43	8.22	2.79	0.516
CHROMIUM	2.00	6.83	12.1	3.06	4.06
LEAD	5.00	62.6	40.8	14.5	13.4
MERCURY	0.150	0.168	0.150 U	0.408	0.212
SELENIUM	1.00	2.88	2.46	2.68	3.03
SILVER	1.00	1.00 U	1.00 U	1.00 U	1.00 U

ANALYTICAL REPORT SUMMARY

Reported: 03/18/97

Reported Units = UG/G

EMCON

GM/DELPHI PLANT INT L+S

SUBMISSION #: 9703000156

ORDER NUMBER		134533	134534	134535	134536
SAMPLE ID:		MBWB-13	MBWB-04	MBWB-14	MBWB-17C
DATE SAMPLED:		03/11/97	03/11/97	03/11/97	03/11/97
DATE RECEIVED:	POL	03/12/97	03/12/97	03/12/97	03/12/97
ARSENIC	1.00	1.00 U	1.00 U	1.00 U	1.00 U
BARIUM	2.00	23.2	23.5	17.2	7.69
CADMIUM	0.500	5.63	0.767	1.22	1.11
CHROMIUM	2.00	8.97	3.55	13.8	11.3
LEAD	5.00	96.8	40.2	15.0	13.4
MERCURY	0.150	0.150 U	0.150 U	0.150 U	0.172
SELENIUM	1.00	2.77	3.00	2.15	1.55
SILVER	1.00	1.00 U	1.00 U	1.00 U	1.00 U

ANALYTICAL REPORT SUMMARY

Reported: 03/18/97

Reported Units = UG/G

EMCON

GM/DELPHI PLANT INT L+S

SUBMISSION #: 9703000156

ORDER NUMBER		134537	134538	134539	134540
SAMPLE ID:		MBWB-20	MBWB-18C	MBWB-24	MBWB-16C
DATE SAMPLED:		03/11/97	03/11/97	03/11/97	03/11/97
DATE RECEIVED:	PQL	03/12/97	03/12/97	03/12/97	03/12/97
ARSENIC	1.00	1.00 U	1.00 U	1.00 U	1.00 U
BARIUM	2.00	5.59	7.84	17.4	12.8
CADMIUM	0.500	0.500 U	0.500 U	19.6	0.935
CHROMIUM	2.00	2.00 U	2.43	15.8	5.40
LEAD	5.00	5.63	7.73	20.7	6.46
MERCURY	0.150	0.150 U	0.150 U	0.150 U	0.150 U
SELENIUM	1.00	2.56	3.16	2.15	2.71
SILVER	1.00	1.00 U	1.00 U	1.00 U	1.00 U

ANALYTICAL REPORT SUMMARY

Reported: 03/18/97

Reported Units = UG/G

EMCON

GM/DELPHI PLANT INT L+S

SUBMISSION #: 9703000156

ORDER NUMBER		134541	134542	134543	134544
SAMPLE ID:		MBWB-15C	MBWB-21	MBWB-05	MBWB-22
DATE SAMPLED:		03/11/97	03/11/97	03/11/97	03/11/97
DATE RECEIVED:	PQL	03/12/97	03/12/97	03/12/97	03/12/97
ARSENIC	1.00	1.10	1.00 U	1.00 U	1.00 U
BARIUM	2.00	53.7	15.6	14.2	24.2
CADMIUM	0.500	6.59	1.44	0.500 U	0.533
CHROMIUM	2.00	20.1	6.37	2.00 U	441
LEAD	5.00	149	14.2	6.94	9.97
MERCURY	0.150	0.150 U	0.150 U	0.150 U	0.288
SELENIUM	1.00	2.67	2.63	2.01	2.29
SILVER	1.00	1.00 U	1.00 U	1.00 U	1.00 U

ANALYTICAL REPORT SUMMARY

Reported: 03/18/97

Reported Units = UG/G

EMCON

GM/DELPHI PLANT INT L+S

SUBMISSION #: 9703000156

ORDER NUMBER		134545
SAMPLE ID:		MBWB-01
DATE SAMPLED:		03/11/97
DATE RECEIVED:	PQL	03/12/97

ARSENIC	1.00	1.00 U
BARIUM	2.00	3.18
CADMIUM	0.500	0.500 U
CHROMIUM	2.00	2.00 U
LEAD	5.00	6.35
MERCURY	0.150	0.150 U
SELENIUM	1.00	2.37
SILVER	1.00	1.00 U

ANALYTICAL REPORT SUMMARY

Reported: 03/18/97

EMCON

GM/DELPHI PLANT INT L+S

SUBMISSION #: 9703000156

ORDER NUMBER	134529	134530	134531	134532
SAMPLE ID:	MBWB-06	MBWB-03	MBWB-23C	MBWB-19
DATE SAMPLED:	03/11/97	03/11/97	03/11/97	03/11/97
DATE RECEIVED:	03/12/97	03/12/97	03/12/97	03/12/97
ARSENIC	03/13/97	03/13/97	03/13/97	03/13/97
BARIUM	03/13/97	03/13/97	03/13/97	03/13/97
CADMIUM	03/13/97	03/13/97	03/13/97	03/13/97
CHROMIUM	03/13/97	03/13/97	03/13/97	03/13/97
LEAD	03/13/97	03/13/97	03/13/97	03/13/97
MERCURY	03/13/97	03/13/97	03/13/97	03/13/97
SELENIUM	03/13/97	03/13/97	03/13/97	03/13/97
SILVER	03/13/97	03/13/97	03/13/97	03/13/97

ANALYTICAL REPORT SUMMARY

Reported: 03/18/97

EMCON

GM/DELPHI PLANT INT L+S

SUBMISSION #: 9703000156

ORDER NUMBER	134533	134534	134535	134536
SAMPLE ID:	MBWB-13	MBWB-04	MBWB-14	MBWB-17C
DATE SAMPLED:	03/11/97	03/11/97	03/11/97	03/11/97
DATE RECEIVED:	03/12/97	03/12/97	03/12/97	03/12/97
ARSENIC	03/13/97	03/13/97	03/13/97	03/13/97
BARIUM	03/13/97	03/13/97	03/13/97	03/13/97
CADMIUM	03/13/97	03/13/97	03/13/97	03/13/97
CHROMIUM	03/13/97	03/13/97	03/13/97	03/13/97
LEAD	03/13/97	03/13/97	03/13/97	03/13/97
MERCURY	03/13/97	03/13/97	03/13/97	03/13/97
SELENIUM	03/13/97	03/13/97	03/13/97	03/13/97
SILVER	03/13/97	03/13/97	03/13/97	03/13/97

ANALYTICAL REPORT SUMMARY

Reported: 03/18/97

EMCON

GM/DELPHI PLANT INT L+S

SUBMISSION #: 9703000156

ORDER NUMBER	134537	134538	134539	134540
SAMPLE ID:	MBWB-20	MBWB-18C	MBWB-24	MBWB-16C
DATE SAMPLED:	03/11/97	03/11/97	03/11/97	03/11/97
DATE RECEIVED:	03/12/97	03/12/97	03/12/97	03/12/97

ARSENIC	03/13/97	03/13/97	03/13/97	03/13/97
BARIUM	03/13/97	03/13/97	03/13/97	03/13/97
CADMIUM	03/13/97	03/13/97	03/13/97	03/13/97
CHROMIUM	03/13/97	03/13/97	03/13/97	03/13/97
LEAD	03/13/97	03/13/97	03/13/97	03/13/97
MERCURY	03/13/97	03/13/97	03/13/97	03/13/97
SELENIUM	03/13/97	03/13/97	03/13/97	03/13/97
SILVER	03/13/97	03/13/97	03/13/97	03/13/97

ANALYTICAL REPORT SUMMARY

Reported: 03/18/97

EMCON

GM/DELPHI PLANT INT L+S

SUBMISSION #: 9703000156

ORDER NUMBER	134541	134542	134543	134544
SAMPLE ID:	MBWB-15C	MBWB-21	MBWB-05	MBWB-22
DATE SAMPLED:	03/11/97	03/11/97	03/11/97	03/11/97
DATE RECEIVED:	03/12/97	03/12/97	03/12/97	03/12/97
ARSENIC	03/13/97	03/13/97	03/13/97	03/13/97
BARIUM	03/13/97	03/13/97	03/13/97	03/13/97
CADMIUM	03/13/97	03/13/97	03/13/97	03/13/97
CHROMIUM	03/13/97	03/13/97	03/13/97	03/13/97
LEAD	03/13/97	03/13/97	03/13/97	03/13/97
MERCURY	03/13/97	03/13/97	03/13/97	03/13/97
SELENIUM	03/13/97	03/13/97	03/13/97	03/13/97
SILVER	03/13/97	03/13/97	03/13/97	03/13/97

ANALYTICAL REPORT SUMMARY

Reported: 03/18/97

EMCON

GM/DELPHI PLANT INT L+S

SUBMISSION #: 9703000156

ORDER NUMBER	134545
SAMPLE ID:	MBWB-01
DATE SAMPLED:	03/11/97
DATE RECEIVED:	03/12/97

ARSENIC	03/13/97
BARIUM	03/13/97
CADMIUM	03/13/97
CHROMIUM	03/13/97
LEAD	03/13/97
MERCURY	03/13/97
SELENIUM	03/13/97
SILVER	03/13/97

ANALYTICAL REPORT SUMMARY

METHOD 8080 PCBS

REPORTED UNITS: PPB

EMCON

GM/DELPHI PLANT INT L+S

SUBMISSION #: 9703000156

ORDER NUMBER		134529	134530	134531	134532
SAMPLE ID:		MBWB-06	MBWB-03	MBWB-23C	MBWB-19
DATE SAMPLED:		03/11/1997	03/11/1997	03/11/1997	03/11/1997
DATE RECEIVED:	PQL	03/12/1997	03/12/1997	03/12/1997	03/12/1997
DATE EXTRACTED:		03/12/97	03/12/97	03/12/97	03/12/97
DATE ANALYZED:		3/13/97	3/12/97	3/12/97	3/12/97
DILUTION:		10.0	10.0	10.0	10.0
PCB 1016	400	4000 U	4000 U	4000 U	4000 U
PCB 1221	400	4000 U	4000 U	4000 U	4000 U
PCB 1232	400	4000 U	4000 U	4000 U	4000 U
PCB 1242	400	4000 U	4000 U	4000 U	4000 U
PCB 1248	400	4000 U	4000 U	4000 U	4000 U
PCB 1254	400	4000 U	4000 U	4000 U	4000 U
PCB 1260	400	4000 U	4000 U	4000 U	4000 U
SURROGATE RECOVERIES	LIMITS				
DECACHLOROBIPHENYL	30 - 150	96	135	126	135
TETRACHLORO-META-XYLENE	30 - 150	99	112	110	124

ANALYTICAL REPORT SUMMARY

METHOD 8080 PCBs

REPORTED UNITS: PPB

EMCON

GM/DELPHI PLANT INT L+S

SUBMISSION #: 9703000156

ORDER NUMBER		134533	134534	134535	134536
SAMPLE ID:		MBWB-13	MBWB-04	MBWB-14	MBWB-17C
DATE SAMPLED:		03/11/1997	03/11/1997	03/11/1997	03/11/1997
DATE RECEIVED:	PQL	03/12/1997	03/12/1997	03/12/1997	03/12/1997
DATE EXTRACTED:		03/12/97	03/12/97	03/12/97	03/12/97
DATE ANALYZED:		3/12/97	3/12/97	3/12/97	3/13/97
DILUTION:		10.0	10.0	10.0	10.0
PCB 1016	400	4000 U	4000 U	4000 U	4000 U
PCB 1221	400	4000 U	4000 U	4000 U	4000 U
PCB 1232	400	4000 U	4000 U	4000 U	4000 U
PCB 1242	400	4000 U	4000 U	4000 U	4000 U
PCB 1248	400	4000 U	4000 U	4000 U	4000 U
PCB 1254	400	4000 U	4000 U	4000 U	4000 U
PCB 1260	400	4000 U	4000 U	4000 U	4000 U
SURROGATE RECOVERIES	LIMITS				
DECACHLOROBIPHENYL	30 - 150	136	134	87	90
TETRACHLORO-META-XYLENE	30 - 150	115	114	95	95

ANALYTICAL REPORT SUMMARY

METHOD 8080 PCBs

REPORTED UNITS: PPB

EMCON

GM/DELPHI PLANT INT L+S

SUBMISSION #: 9703000156

ORDER NUMBER		134537	134538	134539	134540
SAMPLE ID:		MBWB-20	MBWB-18C	MBWB-24	MBWB-16C
DATE SAMPLED:		03/11/1997	03/11/1997	03/11/1997	03/11/1997
DATE RECEIVED:	PQL	03/12/1997	03/12/1997	03/12/1997	03/12/1997
DATE EXTRACTED:		03/13/97	03/12/97	03/12/97	03/12/97
DATE ANALYZED:		3/13/97	3/13/97	3/13/97	3/13/97
DILUTION:		10.0	10.0	10.0	10.0
PCB 1016	400	4000 U	4000 U	4000 U	4000 U
PCB 1221	400	4000 U	4000 U	4000 U	4000 U
PCB 1232	400	4000 U	4000 U	4000 U	4000 U
PCB 1242	400	4000 U	4000 U	4000 U	4000 U
PCB 1248	400	4000 U	4000 U	4000 U	4000 U
PCB 1254	400	4000 U	4000 U	4000 U	4000 U
PCB 1260	400	4000 U	4000 U	4000 U	4000 U
SURROGATE RECOVERIES	LIMITS				
DECACHLOROBIPHENYL	30 - 150	33	20 *	101	136
TETRACHLORO-META-XYLENE	30 - 150	117	116	93	117

ANALYTICAL REPORT SUMMARY

METHOD 8080 PCBS

REPORTED UNITS: PPB

EMCON

GM/DELPHI PLANT INT L+S

SUBMISSION #: 9703000156

ORDER NUMBER		134541	134542	134543	134544
SAMPLE ID:		MBWB-15C	MBWB-21	MBWB-05	MBWB-22
DATE SAMPLED:		03/11/1997	03/11/1997	03/11/1997	03/11/1997
DATE RECEIVED:	PQL	03/12/1997	03/12/1997	03/12/1997	03/12/1997
DATE EXTRACTED:		03/12/97	03/12/97	03/12/97	03/12/97
DATE ANALYZED:		3/13/97	3/13/97	3/13/97	3/13/97
DILUTION:		1.0	10.0	10.0	10.0
PCB 1016	400	400 U	4000 U	4000 U	4000 U
PCB 1221	400	400 U	4000 U	4000 U	4000 U
PCB 1232	400	400 U	4000 U	4000 U	4000 U
PCB 1242	400	400 U	4000 U	4000 U	4000 U
PCB 1248	400	400 U	4000 U	4000 U	4000 U
PCB 1254	400	1200	4000 U	4000 U	4000 U
PCB 1260	400	400 U	4000 U	4000 U	4000 U
SURROGATE RECOVERIES	LIMITS				
DECACHLOROBIPHENYL	30 - 150	58	111	98	*
TETRACHLORO-META-XYLENE	30 - 150	85	100	97	97

ANALYTICAL REPORT SUMMARY

METHOD 8080 PCBs

REPORTED UNITS: PPB

EMCON

GM/DELPHI PLANT INT L+S

SUBMISSION #: 9703000156

ORDER NUMBER	134545
SAMPLE ID:	MBWB-01
DATE SAMPLED:	03/11/1997
DATE RECEIVED:	PQL 03/12/1997

DATE EXTRACTED:	03/12/97
DATE ANALYZED:	3/12/97
DILUTION:	10.0

PCB 1016	400	4000 U
PCB 1221	400	4000 U
PCB 1232	400	4000 U
PCB 1242	400	4000 U
PCB 1248	400	4000 U
PCB 1254	400	4000 U
PCB 1260	400	4000 U

SURROGATE RECOVERIES	LIMITS	
DECACHLOROBIPHENYL	30 - 150	135
TETRACHLORO-META-XYLENE	30 - 150	115

COLUMBIA ANALYTICAL SERVICESEXTRACTABLE ORGANICS
METHOD 8080 PCBS
Reported: 03/18/97Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 134740 Sample Matrix: SOLID
Date Received: Submission #: Analytical Run 15600

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/97			
DATE ANALYZED : 03/12/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	103	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	104	%

COLUMBIA ANALYTICAL SERVICES, INC.
700 Exchange Street, Rochester, New York 14608
(716) 454-6810 • FAX (716) 454-6825

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM
(800) 695-7222

DATE 3-11-97 PAGE 1 OF 2

PROJECT INFORMATION					ANALYSIS REQUESTED														
PROJECT NAME <u>Gm / Delphi Plant Int Lts</u>					# OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624	GC/MS SVOA's ☐ 8270A ☐ 625	GC VOA's ☐ 8010/8020 ☐ 601/602	PESTICIDES/PCB's ☒ 8080 ☐ 608	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☒ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (LIST BELOW)	METALS, DISSOLVED (LIST BELOW)	PRESERVATION			
PROJECT MANAGER/CONTACT <u>Chris Anderson</u>																pH < 2.0	pH > 12	Other	
COMPANY/ADDRESS <u>Emcon</u> <u>Mahwah, NJ</u>																			
TEL <u>(201) 512-5700</u> FAX <u>(201) 512-5786</u>																			
SAMPLER'S SIGNATURE <u>W. R. [Signature]</u>																			
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX															
MB WB-06	3-11-97	10:35	134529	wood black	1				X					+					
MB WB-03	3-11-97	10:06	134530	wood black	1				1					+					
MB WB-23C	3-11-97	12:20	134531	wood black	1				X					X					
MB WB-19	3-11-97	12:45	134532	wood black	1				X					X					
MB WB-13	3-11-97	10:45	134533	wood black	1				X					X					
MB WB-04	3-11-97	14:07	134534	wood black	1				X					X					
MB WB-14	3-11-97	13:45	134535	wood black	1				X					X					
MB WB-17C	3-11-97	13:30	134536	wood black	1				X					X					
MB WB-20	3-11-97	12:35	134537	wood black	1				X					X					
MB WB-18C	3-11-97	12:55	134538	wood black	1				X					X					

RELINQUISHED BY:	RECEIVED BY:	TURNAROUND REQUIREMENTS	REPORT REQUIREMENTS	INVOICE INFORMATION:	SAMPLE RECEIPT:
Signature <u>[Signature]</u> Printed Name <u>FRANK SCHUCK</u> Firm <u>EAS</u> Date/Time <u>3-11-97 4:00 pm</u>	Signature <u>[Signature]</u> Printed Name <u>Tom Hastings</u> Firm <u>3-12 @ 0850</u> Date/Time	24 hr. ☒ 48 hr. ☒ 72 hr. ☒ Standard (10-15 working days) Provide Verbal Preliminary Results Provide FAX Preliminary Results Requested Report Date	1. Routine Report 2. Routine Rep. w/CASE Narrative 3. EPA Level III Validatable Package 4. N.J. Reduced Deliverables Level IV 5. NY ASP/CLP Deliverables 6. Site specific QC.	P.O. #: Bill To:	Shipping Via: <u>Courier</u> Shipping #: Temperature: <u>6.9°C</u> Submission No: <u>3-150</u>

RELINQUISHED BY:	RECEIVED BY:	SPECIAL INSTRUCTIONS/COMMENTS:
Signature Printed Name Firm Date/Time	Signature Printed Name Firm Date/Time	METALS <u>fat -> TCLP 72hr 48hr PCB's</u> ORGANICS: ☐ TCL ☐ PPL ☐ AE Only ☐ BN Only ☐ Special List

RELINQUISHED BY:	RECEIVED BY:
Signature Printed Name Firm Date/Time	Signature Printed Name Firm Date/Time

65 RAMAPO VALLEY ROAD
MAHWAH, NJ 07430

201-512-3292
FAX 201-512-3362

435 LAWRENCE BELL DR.
AMHERST, NY 14221

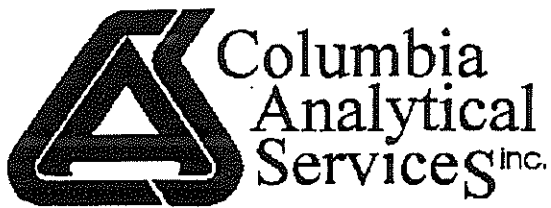
716-634-0454
FAX 716-634-0010

(716) 454-6810 • FAX (716) 454-6825

(800) 695-7222

DATE 3-11-97 PAGE 2 OF 2

PROJECT NAME <u>Gm/Delphi Plant Int L+S</u> PROJECT MANAGER/CONTACT <u>Chris Anderson</u> COMPANY/ADDRESS <u>Emcon</u> <u>Mahwah, NJ</u> TEL <u>(201) 512-5700</u> FAX <u>(201) 512-5786</u> SAMPLER'S SIGNATURE <u>[Signature]</u>					ANALYSIS REQUESTED																																																						
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX	# OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624	GC/MS SVOA's ☐ 8270A ☐ 625	GC VOA's ☐ 8010/8020 ☐ 601/602	PESTICIDES/PCBs ☐ 8080 ☐ 608	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP & METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (LIST BELOW)	METALS, DISSOLVED (LIST BELOW)						PRESERVATION																																						
																					pH < 2.0	pH > 12	Other																																				
MB-WB-24	3-11-97	13:40	134539	Wood blk	1				X			X																																															
MB-WB-16C	3-11-97	13:18	134540	Wood blk	1				X			X																																															
MB-WB-15C	3-11-97	13:05	134541	Wood blk	1				X			X																																															
MB-WB-21	3-11-97	12:40	134542	Wood blk	1				X			X																																															
MB-WB-05	3-11-97	10:40	134543	Wood blk	1				X			X																																															
MB-WB-22	3-11-97	10:28	134544	Wood blk	1				X			X																																															
MB-WB-01	3-11-97	14:15	134545	Wood blk	1				X			X																																															
RELINQUISHED BY: Signature <u>[Signature]</u> Printed Name <u>Kim Schuck</u> Firm <u>EMCON</u> Date/Time <u>3-11-97 4:00pm</u>					RECEIVED BY: Signature <u>[Signature]</u> Printed Name <u>Tom Hastings</u> Firm <u>EMCON</u> Date/Time <u>3-12-97 0850</u>					TURNAROUND REQUIREMENTS ___ 24 hr. ☒ 48 hr. ☒ 72 day ___ Standard (10-15 working days) ___ Provide Verbal Preliminary Results ___ Provide FAX Preliminary Results Requested Report Date _____					REPORT REQUIREMENTS ___ 1. Routine Report ___ 2. Routine Rep. w/CASE Narrative ___ 3. EPA Level III Validatable Package ___ 4. N.J. Reduced Deliverables Level IV ___ 5. NY ASP/CLP Deliverables ___ 6. Site specific QC.					INVOICE INFORMATION: P.O. #: _____ Bill To: _____ _____ _____ _____					SAMPLE RECEIPT: Shipping Via: <u>CAS. Corrier</u> Shipping #: _____ Temperature: <u>6.9°C</u> Submission No: <u>3-156</u>																																		
RELINQUISHED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____					RECEIVED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____					SPECIAL INSTRUCTIONS/COMMENTS: METALS <u>TAT: TCLP metals - 72 hr. 48hr - PCB's</u> ORGANICS: ☐ TCL ☐ PPL ☐ AE Only ☐ BN Only ☐ Special List _____ _____																																																	
RELINQUISHED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____					RECEIVED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____																																																						
										65 RAMAPO VALLEY ROAD MAHWAH, NJ 07430					201-512-3292 FAX 201-512-3262					435 LAWRENCE BELL DR. ASHUTON, NJ 07001					16-634-0454 118-821-2214																																		



A FULL SERVICE ENVIRONMENTAL LABORATORY

March 24, 1997

Mr. Raymond Kapp
EMCON
Crossroads Corp. Center
1 International Blvd, Ste. 700
Mahwah, NJ 07495

PROJECT:GM/DELPHI INT L+S
Submission #:9703000170

Dear Mr. Kapp:

Enclosed are the analytical results of the analyses requested. The analytical data was provided to you on 03/17/97 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at (716) 454-6810.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Mark Wilson
Client Service Manager

Enc.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director prior to report submittal.

700 Exchange Street • Rochester, NY 14608 • Tele:(716)454-6810 • Fax:(716)454-6825
65 Rambo Vally Rd. • Suite 16 • Mahwah, NJ 07430 • Tele:(201)512-3292 • Fax:(201)512-3362
12699 Roll Rd. • Akron, NY 14001 • Tele:(716)542-1264 • Fax:(716)542-3353

CASE NARRATIVE

COMPANY: EMCON
GM/Delphi Plant INT L+S
SUBMISSION #: 9703000170

EMCON samples of various matrices were collected on 03/11/97 and 3/12/97 and received at CAS on 03/13/97 in good condition.

PCBs

Nineteen samples were analyzed for Target Compound List (TCL) PCBs by EPA Method 8080 from SW-846.

Several samples were analyzed dilutions due to interfering organics present in the sample.

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within QC Limits except for one of two surrogates in samples MB-WB-07, MB-T-08, MB-T-012, MB-T-05 and MB-T-09. This was most likely due to matrix interferences. The surrogates have been flagged "**".

All samples were analyzed within the holding time as specified in the method.

No other analytical or QC problems were encountered.

VOLATILE ORGANICS

Five samples were analyzed for Target Compound List (TCL) of Volatile Organics by EPA Method 8260 from SW-846.

All samples were analyzed dilutions due to interfering organics present in the sample.

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within QC Limits.

All samples were analyzed within the holding time as specified in the method.

No other analytical or QC problems were encountered.

SEMIVOLATILE ORGANICS

Five samples were analyzed for Target Compound List (TCL) of Semivolatile Organics by EPA Method 8270 from SW-846.

All samples were analyzed dilutions due to interfering organics present in the sample and to bring target compounds within the linear range of the method.

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within QC Limits. Due to analytical dilution the surrogates in sample MB-R-03 were not able to be quantitated. They have been flagged "D".

All samples were analyzed within the holding time as specified in the method.

No other analytical or QC problems were encountered.

INORGANICS

EMCON samples were analyzed for the RCRA list of Metals. ICP Metals were analyzed by EPA Method 6010 and Mercury by 7470. Total Cyanide was analyzed by 9010 and BTUs by ASTM D240.

All Initial and Continuing calibrations were compliant.

No analytical or QC problems were encountered.



Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)
- * - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)
 - Also used to qualify Organics QC data outside limits.
- D - Spike diluted out.
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CAS Lab ID # for State Certifications

NY ID # in Rochester: 10145
CT ID # in Rochester: PH0556
MA ID # in Rochester: M-NY032

NJ ID # in Rochester: 73004
RI ID # in Rochester: 158

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-WB-07

Date Sampled : 03/11/97

Order #: 134788

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/14/97	1.0
BARIUM	2.00	7.48	UG/G	03/14/97	1.0
CADMIUM	0.500	1.36	UG/G	03/14/97	1.0
CHROMIUM	1.00	6.73	UG/G	03/14/97	1.0
LEAD	5.00	9.44	UG/G	03/14/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/13/97	1.0
SELENIUM	0.500	3.636	UG/G	03/14/97	1.0
SILVER	1.00	1.00 U	UG/G	03/14/97	1.0

COLUMBIA ANALYTICAL SERVICES**EXTRACTABLE ORGANICS**

METHOD 8080 PCBS

Reported: 03/24/97

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-WB-07

Date Sampled : 03/11/97 Order #: 134788 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15625

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/13/97		
DATE ANALYZED	: 03/15/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	1300	UG/KG
PCB 1260	400	400 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	30 *	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	80	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-WB-02

Date Sampled : 03/11/97

Order #: 134789

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.915	UG/G	03/14/97	1.0
BARIUM	2.00	312	UG/G	03/14/97	1.0
CADMIUM	0.500	2.29	UG/G	03/14/97	1.0
CHROMIUM	1.00	19.6	UG/G	03/14/97	1.0
LEAD	5.00	594	UG/G	03/14/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/13/97	1.0
SELENIUM	0.500	3.397	UG/G	03/14/97	1.0
SILVER	1.00	1.00 U	UG/G	03/14/97	1.0

COLUMBIA ANALYTICAL SERVICES**EXTRACTABLE ORGANICS**

METHOD 8080 PCBS

Reported: 03/24/97

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-WB-02

Date Sampled : 03/11/97 Order #: 134789 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15625

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/13/97			
DATE ANALYZED : 03/14/97			
ANALYTICAL DILUTION: 10.0			
PCB 1016	400	4000 U	UG/KG
PCB 1221	400	4000 U	UG/KG
PCB 1232	400	4000 U	UG/KG
PCB 1242	400	4000 U	UG/KG
PCB 1248	400	4000 U	UG/KG
PCB 1254	400	4000 U	UG/KG
PCB 1260	400	4000 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	101	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	108	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-WB-10

Date Sampled : 03/11/97

Order #: 134790

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	6.221	UG/G	03/14/97	1.0
BARIUM	2.00	59.6	UG/G	03/14/97	1.0
CADMIUM	0.500	29.6	UG/G	03/14/97	1.0
CHROMIUM	1.00	12.7	UG/G	03/14/97	1.0
LEAD	5.00	39.6	UG/G	03/14/97	1.0
MERCURY	0.150	0.234	UG/G	03/13/97	1.0
SELENIUM	0.500	0.7500	UG/G	03/14/97	1.0
SILVER	1.00	1.00 U	UG/G	03/14/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-WB-10

Date Sampled : 03/11/97 Order #: 134790 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15625

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/13/97		
DATE ANALYZED	: 03/15/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	1600	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	80	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	91	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-WB-11

Date Sampled : 03/11/97

Order #: 134791

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/14/97	1.0
BARIUM	2.00	18.3	UG/G	03/14/97	1.0
CADMIUM	0.500	0.500 U	UG/G	03/14/97	1.0
CHROMIUM	1.00	1.72	UG/G	03/14/97	1.0
LEAD	5.00	5.42	UG/G	03/14/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/13/97	1.0
SELENIUM	0.500	3.351	UG/G	03/14/97	1.0
SILVER	1.00	1.00 U	UG/G	03/14/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-WB-11

Date Sampled : 03/11/97 Order #: 134791 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15625

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/13/97			
DATE ANALYZED : 03/14/97			
ANALYTICAL DILUTION: 10.0			
PCB 1016	400	4000 U	UG/KG
PCB 1221	400	4000 U	UG/KG
PCB 1232	400	4000 U	UG/KG
PCB 1242	400	4000 U	UG/KG
PCB 1248	400	4000 U	UG/KG
PCB 1254	400	4000 U	UG/KG
PCB 1260	400	4000 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	113	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	103	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-WB-09

Date Sampled : 03/11/97

Order #: 134792

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	2.387	UG/G	03/14/97	1.0
BARIUM	2.00	17.2	UG/G	03/14/97	1.0
CADMIUM	0.500	3.20	UG/G	03/14/97	1.0
CHROMIUM	1.00	9.15	UG/G	03/14/97	1.0
LEAD	5.00	25.7	UG/G	03/14/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/13/97	1.0
SELENIUM	0.500	3.171	UG/G	03/14/97	1.0
SILVER	1.00	1.00 U	UG/G	03/14/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-WB-09

Date Sampled : 03/11/97 Order #: 134792 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15625

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/13/97			
DATE ANALYZED : 03/14/97			
ANALYTICAL DILUTION: 10.0			
PCB 1016	400	4000 U	UG/KG
PCB 1221	400	4000 U	UG/KG
PCB 1232	400	4000 U	UG/KG
PCB 1242	400	4000 U	UG/KG
PCB 1248	400	4000 U	UG/KG
PCB 1254	400	4000 U	UG/KG
PCB 1260	400	4000 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	98	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	114	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-WB-12

Date Sampled : 03/11/97

Order #: 134793

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/14/97	1.0
BARIUM	2.00	24.4	UG/G	03/14/97	1.0
CADMIUM	0.500	2.11	UG/G	03/14/97	1.0
CHROMIUM	1.00	32.3	UG/G	03/14/97	1.0
LEAD	5.00	34.7	UG/G	03/14/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/13/97	1.0
SELENIUM	0.500	3.154	UG/G	03/14/97	1.0
SILVER	1.00	1.00 U	UG/G	03/14/97	1.0

COLUMBIA ANALYTICAL SERVICES**EXTRACTABLE ORGANICS**

METHOD 8080 PCBS

Reported: 03/24/97

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-WB-12

Date Sampled : 03/11/97 Order #: 134793 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15625

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/13/97			
DATE ANALYZED : 03/14/97			
ANALYTICAL DILUTION: 10.0			
PCB 1016	400	4000 U	UG/KG
PCB 1221	400	4000 U	UG/KG
PCB 1232	400	4000 U	UG/KG
PCB 1242	400	4000 U	UG/KG
PCB 1248	400	4000 U	UG/KG
PCB 1254	400	4000 U	UG/KG
PCB 1260	400	4000 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

DECACHLOROBIPHENYL
TETRACHLORO-META-XYLENE

(30 - 150 %)
(30 - 150 %)

34 %
74 %

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-WB-08C

Date Sampled : 03/11/97

Order #: 134794

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/14/97	1.0
BARIUM	2.00	10.2	UG/G	03/14/97	1.0
CADMIUM	0.500	0.832	UG/G	03/14/97	1.0
CHROMIUM	1.00	3.35	UG/G	03/14/97	1.0
LEAD	5.00	7.39	UG/G	03/14/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/13/97	1.0
SELENIUM	0.500	2.795	UG/G	03/14/97	1.0
SILVER	1.00	1.00 U	UG/G	03/14/97	1.0

COLUMBIA ANALYTICAL SERVICES**EXTRACTABLE ORGANICS**

METHOD 8080 PCBS

Reported: 03/24/97

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-WB-08C

Date Sampled : 03/11/97 Order #: 134794 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15625

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/13/97		
DATE ANALYZED	: 03/14/97		
ANALYTICAL DILUTION:	10.0		
PCB 1016	400	4000 U	UG/KG
PCB 1221	400	4000 U	UG/KG
PCB 1232	400	4000 U	UG/KG
PCB 1242	400	4000 U	UG/KG
PCB 1248	400	4000 U	UG/KG
PCB 1254	400	4000 U	UG/KG
PCB 1260	400	4000 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	95	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	121	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-T-08

Date Sampled : 03/12/97

Order #: 134795

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	9.177	UG/G	03/14/97	1.0
BARIUM	2.00	556	UG/G	03/14/97	1.0
CADMIUM	0.500	14.1	UG/G	03/14/97	1.0
CHROMIUM	1.00	1420	UG/G	03/14/97	1.0
LEAD	5.00	1680	UG/G	03/14/97	1.0
MERCURY	0.150	0.492	UG/G	03/13/97	1.0
SELENIUM	0.500	0.6893	UG/G	03/14/97	1.0
SILVER	1.00	3.19	UG/G	03/14/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-T-08

Date Sampled : 03/12/97 Order #: 134795 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15625

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/13/97		
DATE ANALYZED	: 03/13/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	158 *	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	83	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-T-04

Date Sampled : 03/12/97

Order #: 134796

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	2.992	UG/G	03/14/97	1.0
BARIUM	2.00	182	UG/G	03/14/97	1.0
CADMIUM	0.500	13.8	UG/G	03/14/97	1.0
CHROMIUM	1.00	1320	UG/G	03/14/97	1.0
LEAD	5.00	498	UG/G	03/14/97	1.0
MERCURY	0.150	0.167	UG/G	03/13/97	1.0
SELENIUM	0.500	1.563	UG/G	03/14/97	1.0
SILVER	1.00	1.78	UG/G	03/14/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-T-04

Date Sampled : 03/12/97 Order #: 134796 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15625

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/13/97		
DATE ANALYZED	: 03/14/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	51	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	54	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-T-02

Date Sampled : 03/12/97

Order #: 134797

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	4.201	UG/G	03/14/97	1.0
BARIUM	2.00	74.1	UG/G	03/14/97	1.0
CADMIUM	0.500	17.1	UG/G	03/14/97	1.0
CHROMIUM	1.00	5390	UG/G	03/17/97	10.0
LEAD	5.00	303	UG/G	03/14/97	1.0
MERCURY	0.150	1.18	UG/G	03/13/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/14/97	1.0
SILVER	1.00	1.41	UG/G	03/14/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-T-02

Date Sampled : 03/12/97 Order #: 134797 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15625

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/13/97		
DATE ANALYZED	: 03/14/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	57	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	56	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-T-01

Date Sampled : 03/12/97

Order #: 134798

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	5.064	UG/G	03/14/97	1.0
BARIUM	2.00	1730	UG/G	03/14/97	1.0
CADMIUM	0.500	30.5	UG/G	03/14/97	1.0
CHROMIUM	1.00	353	UG/G	03/14/97	1.0
LEAD	5.00	1290	UG/G	03/14/97	1.0
MERCURY	0.150	1.54	UG/G	03/13/97	1.0
SELENIUM	0.500	2.922	UG/G	03/14/97	1.0
SILVER	1.00	2.10	UG/G	03/14/97	1.0

COLUMBIA ANALYTICAL SERVICES**EXTRACTABLE ORGANICS**

METHOD 8080 PCBS

Reported: 03/24/97

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-T-01

Date Sampled : 03/12/97 Order #: 134798 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15625

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/13/97			
DATE ANALYZED : 03/14/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	46	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	91	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-T-012

Date Sampled : 03/12/97

Order #: 134799

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	9.240	UG/G	03/14/97	1.0
BARIUM	2.00	785	UG/G	03/14/97	1.0
CADMIUM	0.500	15.5	UG/G	03/14/97	1.0
CHROMIUM	1.00	194	UG/G	03/14/97	1.0
LEAD	5.00	2860	UG/G	03/14/97	1.0
MERCURY	0.150	0.874	UG/G	03/13/97	1.0
SELENIUM	0.500	2.679	UG/G	03/14/97	1.0
SILVER	1.00	3.84	UG/G	03/14/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-T-012

Date Sampled : 03/12/97 Order #: 134799 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15625

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/13/97		
DATE ANALYZED	: 03/14/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	188 *	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	126	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-T-03

Date Sampled : 03/12/97

Order #: 134800

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/14/97	1.0
BARIUM	2.00	273	UG/G	03/14/97	1.0
CADMIUM	0.500	26.7	UG/G	03/14/97	1.0
CHROMIUM	1.00	2190	UG/G	03/14/97	1.0
LEAD	5.00	1020	UG/G	03/14/97	1.0
MERCURY	0.150	0.199	UG/G	03/13/97	1.0
SELENIUM	0.500	8.274	UG/G	03/14/97	1.0
SILVER	1.00	5.96	UG/G	03/14/97	1.0

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8080 PCBS
Reported: 03/24/97

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-T-03

Date Sampled : 03/12/97 Order #: 134800 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15625

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/13/97			
DATE ANALYZED : 03/14/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	132	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	99	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-T-05

Date Sampled : 03/12/97

Order #: 134801

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	11.32	UG/G	03/14/97	1.0
BARIUM	2.00	262	UG/G	03/14/97	1.0
CADMIUM	0.500	32.5	UG/G	03/14/97	1.0
CHROMIUM	1.00	428	UG/G	03/14/97	1.0
LEAD	5.00	482	UG/G	03/14/97	1.0
MERCURY	0.150	0.345	UG/G	03/13/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/14/97	1.0
SILVER	1.00	6.61	UG/G	03/14/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-T-05

Date Sampled : 03/12/97 Order #: 134801 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15625

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/13/97			
DATE ANALYZED : 03/14/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	*	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	92	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-T-011

Date Sampled : 03/12/97

Order #: 134802

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	24.92	UG/G	03/14/97	1.0
BARIUM	2.00	1260	UG/G	03/14/97	1.0
CADMIUM	0.500	26.2	UG/G	03/14/97	1.0
CHROMIUM	1.00	911	UG/G	03/14/97	1.0
LEAD	5.00	4110	UG/G	03/14/97	1.0
MERCURY	0.150	0.337	UG/G	03/13/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/14/97	1.0
SILVER	1.00	18.0	UG/G	03/14/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-T-011

Date Sampled : 03/12/97 Order #: 134802 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15625

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/13/97			
DATE ANALYZED : 03/14/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	84	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	108	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-T-09

Date Sampled : 03/12/97

Order #: 134803

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	7.933	UG/G	03/14/97	1.0
BARIUM	2.00	2550	UG/G	03/14/97	1.0
CADMIUM	0.500	26.1	UG/G	03/14/97	1.0
CHROMIUM	1.00	1910	UG/G	03/14/97	1.0
LEAD	5.00	16000	UG/G	03/14/97	10.0
MERCURY	0.150	0.652	UG/G	03/13/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/14/97	1.0
SILVER	1.00	9.54	UG/G	03/14/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-T-09

Date Sampled : 03/12/97 Order #: 134803 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15625

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/13/97			
DATE ANALYZED : 03/14/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	201 *	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	99	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-T-07

Date Sampled : 03/12/97

Order #: 134804

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	5.300	UG/G	03/14/97	1.0
BARIUM	2.00	669	UG/G	03/14/97	1.0
CADMIUM	0.500	31.7	UG/G	03/14/97	1.0
CHROMIUM	1.00	720	UG/G	03/14/97	1.0
LEAD	5.00	1960	UG/G	03/14/97	1.0
MERCURY	0.150	0.308	UG/G	03/13/97	1.0
SELENIUM	0.500	0.8476	UG/G	03/14/97	1.0
SILVER	1.00	7.02	UG/G	03/14/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-T-07

Date Sampled : 03/12/97 Order #: 134804 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15625

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/13/97			
DATE ANALYZED : 03/14/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	117	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	103	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-T-06 DUST

Date Sampled : 03/12/97

Order #: 134805

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	4.508	UG/G	03/14/97	1.0
BARIUM	2.00	2240	UG/G	03/14/97	1.0
CADMIUM	0.500	85.4	UG/G	03/14/97	1.0
CHROMIUM	1.00	3730	UG/G	03/17/97	10.0
LEAD	5.00	1100	UG/G	03/14/97	1.0
MERCURY	0.150	0.313	UG/G	03/13/97	1.0
SELENIUM	0.500	1.333	UG/G	03/14/97	1.0
SILVER	1.00	1.88	UG/G	03/14/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-T-06 DUST

Date Sampled : 03/12/97 Order #: 134805 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15625

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/13/97		
DATE ANALYZED	: 03/14/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG
SURROGATE RECOVERIES		QC LIMITS	
DECACHLOROBIPHENYL	(30 - 150 %)	134	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	106	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-01

Date Sampled : 03/12/97

Order #: 134810

Sample Matrix: SOIL/SEDIMENT

Date Received: 03/13/97

Submission #: 9703000170

ANALYTE	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	6.31	UG/G	03/14/97	1.0
BARIUM	2.00	443	UG/G	03/14/97	1.0
CADMIUM	0.500	6.80	UG/G	03/14/97	1.0
CHROMIUM	1.00	540	UG/G	03/14/97	1.0
LEAD	5.00	415	UG/G	03/14/97	1.0
MERCURY	0.150	0.176 U	UG/G	03/13/97	1.0
SELENIUM	0.500	0.586 U	UG/G	03/14/97	1.0
SILVER	1.00	1.17 U	UG/G	03/14/97	1.0
WET CHEMISTRY					
TOTAL CYANIDE	1.00	1.17 U	UG/G	03/13/97	1.0
PERCENT SOLIDS	1.0	85.3	%	03/14/97	1.0

COLUMBIA ANALYTICAL SERVICES**EXTRACTABLE ORGANICS**

METHOD 8080 PCBS

Reported: 03/24/97

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-01

Date Sampled : 03/12/97 Order #: 134810 Sample Matrix: SOIL/SEDIM
Date Received: 03/13/97 Submission #: 9703000170 Percent Solid: 85.3

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/13/97		
DATE ANALYZED	: 03/14/97		
ANALYTICAL DILUTION:	10.0		Dry Weigh
PCB 1016	400	4700 U	UG/KG
PCB 1221	400	4700 U	UG/KG
PCB 1232	400	4700 U	UG/KG
PCB 1242	400	4700 U	UG/KG
PCB 1248	400	4700 U	UG/KG
PCB 1254	400	4700 U	UG/KG
PCB 1260	400	4700 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	56	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	104	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-R-09

Date Sampled : 03/12/97

Order #: 134819

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/14/97	1.0
BARIUM	2.00	2040	UG/G	03/14/97	1.0
CADMIUM	0.500	2.04	UG/G	03/14/97	1.0
CHROMIUM	1.00	156	UG/G	03/14/97	1.0
LEAD	5.00	332	UG/G	03/14/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/13/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/14/97	1.0
SILVER	1.00	1.00 U	UG/G	03/14/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-09

Date Sampled : 03/12/97 Order #: 134819 Sample Matrix: SOLID
 Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15695

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 03/14/97		
ANALYTICAL DILUTION:	1000.0		
ACETONE	20	20000 U	UG/KG
BENZENE	5.0	5000 U	UG/KG
BROMODICHLOROMETHANE	5.0	5000 U	UG/KG
BROMOFORM	5.0	5000 U	UG/KG
BROMOMETHANE	5.0	5000 U	UG/KG
2-BUTANONE (MEK)	10	10000 U	UG/KG
CARBON DISULFIDE	10	10000 U	UG/KG
CARBON TETRACHLORIDE	5.0	5000 U	UG/KG
CHLOROBENZENE	5.0	5000 U	UG/KG
CHLOROETHANE	5.0	5000 U	UG/KG
CHLOROFORM	5.0	5000 U	UG/KG
CHLOROMETHANE	5.0	5000 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5000 U	UG/KG
1,1-DICHLOROETHANE	5.0	5000 U	UG/KG
1,2-DICHLOROETHANE	5.0	5000 U	UG/KG
1,1-DICHLOROETHENE	5.0	5000 U	UG/K
CIS-1,2-DICHLOROETHENE	5.0	5000 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5000 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5000 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5000 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5000 U	UG/KG
ETHYLBENZENE	5.0	5000 U	UG/KG
2-HEXANONE	10	10000 U	UG/KG
METHYLENE CHLORIDE	5.0	5000 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	10000 U	UG/KG
STYRENE	5.0	5000 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5000 U	UG/KG
TETRACHLOROETHENE	5.0	5000 U	UG/KG
TOLUENE	5.0	5000 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5000 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5000 U	UG/KG
TRICHLOROETHENE	5.0	5000 U	UG/KG
VINYL CHLORIDE	5.0	5000 U	UG/KG
O-XYLENE	5.0	5000 U	UG/KG
M+P-XYLENE	5.0	5000 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(74 - 121 %)	98	%
TOLUENE-D8	(81 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	98	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-09

Date Sampled : 03/12/97 Order #: 134819 Sample Matrix: SOLID
 Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15676

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 30.0			
ACENAPHTHENE	330	9900 U	UG/KG
ACENAPHTHYLENE	330	9900 U	UG/KG
ANTHRACENE	330	9900 U	UG/KG
BENZO(A)ANTHRACENE	330	9900 U	UG/KG
BENZO(A)PYRENE	330	9900 U	UG/KG
BENZO(B)FLUORANTHENE	330	9900 U	UG/KG
BENZO(G,H,I)PERYLENE	330	9900 U	UG/KG
BENZO(K)FLUORANTHENE	330	9900 U	UG/KG
BENZYL ALCOHOL	330	9900 U	UG/KG
BUTYL BENZYL PHTHALATE	330	9900 U	UG/KG
DI-N-BUTYLPHTHALATE	330	9900 U	UG/KG
CARBAZOLE	330	9900 U	UG/KG
INDENO(1,2,3-CD)PYRENE	330	9900 U	UG/KG
4-CHLOROANILINE	330	9900 U	UG/KG
BIS(-2-CHLOROETHOXY)METHANE	330	9900 U	UG/KG
BIS(2-CHLOROETHYL)ETHER	330	9900 U	UG/KG
2-CHLORONAPHTHALENE	330	9900 U	UG/KG
2-CHLOROPHENOL	670	20000 U	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	330	9900 U	UG/KG
CHRYSENE	330	9900 U	UG/KG
DIBENZO(A,H)ANTHRACENE	330	9900 U	UG/KG
DIBENZOFURAN	330	9900 U	UG/KG
1,3-DICHLOROBENZENE	330	9900 U	UG/KG
1,2-DICHLOROBENZENE	330	9900 U	UG/KG
1,4-DICHLOROBENZENE	330	9900 U	UG/KG
3,3'-DICHLOROBENZIDINE	330	9900 U	UG/KG
2,4-DICHLOROPHENOL	670	20000 U	UG/KG
DIETHYLPHTHALATE	330	9900 U	UG/KG
DIMETHYL PHTHALATE	330	9900 U	UG/KG
2,4-DIMETHYLPHENOL	670	20000 U	UG/KG
2,4-DINITROPHENOL	1300	39000 U	UG/KG
2,4-DINITROTOLUENE	330	9900 U	UG/KG
2,6-DINITROTOLUENE	330	9900 U	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	330	23000	UG/KG
FLUORANTHENE	330	9900 U	UG/KG
FLUORENE	330	9900 U	UG/KG
HEXACHLOROBENZENE	330	9900 U	UG/KG
HEXACHLOROBUTADIENE	330	9900 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	9900 U	UG/KG
HEXACHLOROETHANE	330	9900 U	UG/KG
ISOPHORONE	330	9900 U	UG/KG
2-METHYLNAPHTHALENE	670	20000 U	UG/KG
4,6-DINITRO-2-METHYLPHENOL	1300	39000 U	UG/KG

COLUMBIA ANALYTICAL SERVICESEXTRACTABLE ORGANICS
METHOD 8270 SEMIVOLATILES
Reported: 03/24/97

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-09

Date Sampled : 03/12/97 Order #: 134819 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15676

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/14/97		
DATE ANALYZED	: 03/18/97		
ANALYTICAL DILUTION:	30.0		
4-CHLORO-3-METHYLPHENOL	670	20000 U	UG/KG
2-METHYLPHENOL	670	20000 U	UG/KG
4-METHYLPHENOL	670	20000 U	UG/KG
NAPHTHALENE	330	9900 U	UG/KG
2-NITROANILINE	330	9900 U	UG/KG
3-NITROANILINE	330	9900 U	UG/KG
4-NITROANILINE	330	9900 U	UG/KG
NITROBENZENE	330	9900 U	UG/KG
2-NITROPHENOL	670	20000 U	UG/KG
4-NITROPHENOL	1300	39000 U	UG/KG
N-NITROSODIMETHYLAMINE	330	9900 U	UG/KG
N-NITROSODIPHENYLAMINE	330	9900 U	UG/KG
DI-N-OCTYL PHTHALATE	330	9900 U	UG/KG
PENTACHLOROPHENOL	1300	39000 U	UG/KG
PHENANTHRENE	330	9900 U	UG/K
PHENOL	670	20000 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	9900 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	9900 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	9900 U	UG/KG
PYRENE	330	9900 U	UG/KG
1,2,4-TRICHLOROBENZENE	330	9900 U	UG/KG
2,4,6-TRICHLOROPHENOL	670	20000 U	UG/KG
2,4,5-TRICHLOROPHENOL	670	20000 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

TERPHENYL-d14	(18 - 137 %)	108	%
NITROBENZENE-d5	(23 - 120 %)	76	%
PHENOL-d6	(24 - 113 %)	106	%
2-FLUOROBIPHENYL	(30 - 115 %)	104	%
2-FLUOROPHENOL	(25 - 121 %)	102	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	92	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-R-08 PAINT + GREASE

Date Sampled : 03/12/97

Order #: 134820

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	7860	UG/G	03/17/97	10.0
CADMIUM	0.500	0.500 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	48.6	UG/G	03/17/97	1.0
LEAD	5.00	10.4	UG/G	03/17/97	1.0
MERCURY	0.150	0.210	UG/G	03/13/97	1.0
SELENIUM	0.500	1.214	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-08 PAINT + GREASE

Date Sampled : 03/12/97 Order #: 134820 Sample Matrix: SOLID
 Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15695

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/14/97			
ANALYTICAL DILUTION: 1000.0			
ACETONE	20	20000 U	UG/KG
BENZENE	5.0	5000 U	UG/KG
BROMODICHLOROMETHANE	5.0	5000 U	UG/KG
BROMOFORM	5.0	5000 U	UG/KG
BROMOMETHANE	5.0	5000 U	UG/KG
2-BUTANONE (MEK)	10	10000 U	UG/KG
CARBON DISULFIDE	10	10000 U	UG/KG
CARBON TETRACHLORIDE	5.0	5000 U	UG/KG
CHLOROBENZENE	5.0	5000 U	UG/KG
CHLOROETHANE	5.0	5000 U	UG/KG
CHLOROFORM	5.0	5000 U	UG/KG
CHLOROMETHANE	5.0	5000 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5000 U	UG/KG
1,1-DICHLOROETHANE	5.0	5000 U	UG/KG
1,2-DICHLOROETHANE	5.0	5000 U	UG/KG
1,1-DICHLOROETHENE	5.0	5000 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5000 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5000 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5000 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5000 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5000 U	UG/KG
ETHYLBENZENE	5.0	5000 U	UG/KG
2-HEXANONE	10	10000 U	UG/KG
METHYLENE CHLORIDE	5.0	5000 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	10000 U	UG/KG
STYRENE	5.0	5000 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5000 U	UG/KG
TETRACHLOROETHENE	5.0	5000 U	UG/KG
TOLUENE	5.0	5000 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5000 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5000 U	UG/KG
TRICHLOROETHENE	5.0	5000 U	UG/KG
VINYL CHLORIDE	5.0	5000 U	UG/KG
O-XYLENE	5.0	5000 U	UG/KG
M+P-XYLENE	5.0	5000 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(74 - 121 %)	95	%
TOLUENE-D8	(81 - 117 %)	102	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	100	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-08 PAINT + GREASE

Date Sampled : 03/12/97 Order #: 134820 Sample Matrix: SOLID
 Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15675

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 10.0			
ACENAPHTHENE	330	3300 U	UG/KG
ACENAPHTHYLENE	330	3300 U	UG/KG
ANTHRACENE	330	3300 U	UG/KG
BENZO(A)ANTHRACENE	330	3300 U	UG/KG
BENZO(A)PYRENE	330	3300 U	UG/KG
BENZO(B)FLUORANTHENE	330	3300 U	UG/KG
BENZO(G,H,I)PERYLENE	330	3300 U	UG/KG
BENZO(K)FLUORANTHENE	330	3300 U	UG/KG
BENZYL ALCOHOL	330	3300 U	UG/KG
BUTYL BENZYL PHTHALATE	330	360000	UG/KG
DI-N-BUTYLPHTHALATE	330	3300 U	UG/KG
CARBAZOLE	330	3300 U	UG/KG
INDENO(1,2,3-CD)PYRENE	330	3300 U	UG/KG
4-CHLOROANILINE	330	3300 U	UG/KG
BIS(-2-CHLOROETHOXY)METHANE	330	3300 U	UG/KG
BIS(2-CHLOROETHYL)ETHER	330	3300 U	UG/KG
2-CHLORONAPHTHALENE	330	3300 U	UG/KG
2-CHLOROPHENOL	670	6700 U	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	330	3300 U	UG/KG
CHRYSENE	330	3300 U	UG/KG
DIBENZO(A,H)ANTHRACENE	330	3300 U	UG/KG
DIBENZOFURAN	330	3300 U	UG/KG
1,3-DICHLOROBENZENE	330	3300 U	UG/KG
1,2-DICHLOROBENZENE	330	3300 U	UG/KG
1,4-DICHLOROBENZENE	330	3300 U	UG/KG
3,3'-DICHLOROBENZIDINE	330	3300 U	UG/KG
2,4-DICHLOROPHENOL	670	6700 U	UG/KG
DIETHYLPHTHALATE	330	3300 U	UG/KG
DIMETHYL PHTHALATE	330	3300 U	UG/KG
2,4-DIMETHYLPHENOL	670	6700 U	UG/KG
2,4-DINITROPHENOL	1300	13000 U	UG/KG
2,4-DINITROTOLUENE	330	3300 U	UG/KG
2,6-DINITROTOLUENE	330	3300 U	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	330	150000	UG/KG
FLUORANTHENE	330	3300 U	UG/KG
FLUORENE	330	3300 U	UG/KG
HEXACHLOROBENZENE	330	3300 U	UG/KG
HEXACHLOROBUTADIENE	330	3300 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	3300 U	UG/KG
HEXACHLOROETHANE	330	3300 U	UG/KG
ISOPHORONE	330	3300 U	UG/KG
2-METHYLNAPHTHALENE	670	6700 U	UG/KG
4,6-DINITRO-2-METHYLPHENOL	1300	13000 U	UG/KG

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-08 PAINT + GREASE

Date Sampled : 03/12/97 Order #: 134820 Sample Matrix: SOLID
 Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15675

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 10.0			
4-CHLORO-3-METHYLPHENOL	670	6700 U	UG/KG
2-METHYLPHENOL	670	6700 U	UG/KG
4-METHYLPHENOL	670	6700 U	UG/KG
NAPHTHALENE	330	3300 U	UG/KG
2-NITROANILINE	330	3300 U	UG/KG
3-NITROANILINE	330	3300 U	UG/KG
4-NITROANILINE	330	3300 U	UG/KG
NITROBENZENE	330	3300 U	UG/KG
2-NITROPHENOL	670	6700 U	UG/KG
4-NITROPHENOL	1300	13000 U	UG/KG
N-NITROSODIMETHYLAMINE	330	3300 U	UG/KG
N-NITROSODIPHENYLAMINE	330	3300 U	UG/KG
DI-N-OCTYL PHTHALATE	330	3300 U	UG/KG
PENTACHLOROPHENOL	1300	13000 U	UG/KG
PHENANTHRENE	330	3300 U	UG/KG
PHENOL	670	6700 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	3300 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	3300 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	3300 U	UG/KG
PYRENE	330	3300 U	UG/KG
1,2,4-TRICHLOROBNZENE	330	3300 U	UG/KG
2,4,6-TRICHLOROPHENOL	670	6700 U	UG/KG
2,4,5-TRICHLOROPHENOL	670	6700 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(18 - 137 %)	116	%
NITROBENZENE-d5	(23 - 120 %)	100	%
PHENOL-d6	(24 - 113 %)	103	%
2-FLUOROBIPHENYL	(30 - 115 %)	109	%
2-FLUOROPHENOL	(25 - 121 %)	104	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	30	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-R-03

Date Sampled : 03/12/97

Order #: 134821

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	84.1	UG/G	03/17/97	1.0
CADMIUM	0.500	5.81	UG/G	03/17/97	1.0
CHROMIUM	1.00	104	UG/G	03/17/97	1.0
LEAD	5.00	88.8	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/13/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	9.46	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-03

Date Sampled : 03/12/97 Order #: 134821 Sample Matrix: SOLID
 Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15695

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 03/17/97		
ANALYTICAL DILUTION:	125.0		
ACETONE	20	2500 U	UG/KG
BENZENE	5.0	630 U	UG/KG
BROMODICHLOROMETHANE	5.0	630 U	UG/KG
BROMOFORM	5.0	630 U	UG/KG
BROMOMETHANE	5.0	630 U	UG/KG
2-BUTANONE (MEK)	10	1300 U	UG/KG
CARBON DISULFIDE	10	1300 U	UG/KG
CARBON TETRACHLORIDE	5.0	630 U	UG/KG
CHLOROBENZENE	5.0	630 U	UG/KG
CHLOROETHANE	5.0	630 U	UG/KG
CHLOROFORM	5.0	630 U	UG/KG
CHLOROMETHANE	5.0	630 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHANE	5.0	630 U	UG/KG
1,2-DICHLOROETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHENE	5.0	630 U	UG/K
CIS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
1,2-DICHLOROPROPANE	5.0	630 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
ETHYLBENZENE	5.0	630 U	UG/KG
2-HEXANONE	10	1300 U	UG/KG
METHYLENE CHLORIDE	5.0	630 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1300 U	UG/KG
STYRENE	5.0	630 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	630 U	UG/KG
TETRACHLOROETHENE	5.0	630 U	UG/KG
TOLUENE	5.0	630 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	630 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	630 U	UG/KG
TRICHLOROETHENE	5.0	630 U	UG/KG
VINYL CHLORIDE	5.0	630 U	UG/KG
O-XYLENE	5.0	630 U	UG/KG
M+P-XYLENE	5.0	630 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(74 - 121 %)	107	%
TOLUENE-D8	(81 - 117 %)	105	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	104	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-03

Date Sampled : 03/12/97 Order #: 134821 Sample Matrix: SOLID
 Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15676

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 150.0			
ACENAPHTHENE	330	50000 U	UG/KG
ACENAPHTHYLENE	330	50000 U	UG/KG
ANTHRACENE	330	71000	UG/KG
BENZO (A) ANTHRACENE	330	190000	UG/KG
BENZO (A) PYRENE	330	160000	UG/KG
BENZO (B) FLUORANTHENE	330	210000	UG/KG
BENZO (G, H, I) PERYLENE	330	81000	UG/KG
BENZO (K) FLUORANTHENE	330	100000	UG/KG
BENZYL ALCOHOL	330	50000 U	UG/KG
BUTYL BENZYL PHTHALATE	330	50000 U	UG/KG
DI-N-BUTYLPHTHALATE	330	50000 U	UG/KG
CARBAZOLE	330	50000 U	UG/KG
INDENO (1, 2, 3-CD) PYRENE	330	77000	UG/KG
4-CHLOROANILINE	330	50000 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	50000 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	50000 U	UG/KG
2-CHLORONAPHTHALENE	330	50000 U	UG/KG
2-CHLOROPHENOL	670	100000 U	UG/KG
2, 2'-OXYBIS (1-CHLOROPROPANE)	330	50000 U	UG/KG
CHRYSENE	330	190000	UG/KG
DIBENZO (A, H) ANTHRACENE	330	50000 U	UG/KG
DIBENZOFURAN	330	50000 U	UG/KG
1, 3-DICHLOROBENZENE	330	50000 U	UG/KG
1, 2-DICHLOROBENZENE	330	50000 U	UG/KG
1, 4-DICHLOROBENZENE	330	50000 U	UG/KG
3, 3'-DICHLOROBENZIDINE	330	50000 U	UG/KG
2, 4-DICHLOROPHENOL	670	100000 U	UG/KG
DIETHYLPHTHALATE	330	50000 U	UG/KG
DIMETHYL PHTHALATE	330	50000 U	UG/KG
2, 4-DIMETHYLPHENOL	670	100000 U	UG/KG
2, 4-DINITROPHENOL	1300	200000 U	UG/KG
2, 4-DINITROTOLUENE	330	50000 U	UG/KG
2, 6-DINITROTOLUENE	330	50000 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	210000	UG/KG
FLUORANTHENE	330	450000	UG/KG
FLUORENE	330	50000 U	UG/KG
HEXACHLOROBENZENE	330	50000 U	UG/KG
HEXACHLOROBUTADIENE	330	50000 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	50000 U	UG/KG
HEXACHLOROETHANE	330	50000 U	UG/KG
ISOPHORONE	330	50000 U	UG/KG
2-METHYLNAPHTHALENE	670	100000 U	UG/KG
4, 6-DINITRO-2-METHYLPHENOL	1300	200000 U	UG/KG

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-03

Date Sampled : 03/12/97 Order #: 134821 Sample Matrix: SOLID
 Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15676

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 150.0			
4-CHLORO-3-METHYLPHENOL	670	100000 U	UG/KG
2-METHYLPHENOL	670	100000 U	UG/KG
4-METHYLPHENOL	670	100000 U	UG/KG
NAPHTHALENE	330	50000 U	UG/KG
2-NITROANILINE	330	50000 U	UG/KG
3-NITROANILINE	330	50000 U	UG/KG
4-NITROANILINE	330	50000 U	UG/KG
NITROBENZENE	330	50000 U	UG/KG
2-NITROPHENOL	670	100000 U	UG/KG
4-NITROPHENOL	1300	200000 U	UG/KG
N-NITROSODIMETHYLAMINE	330	50000 U	UG/KG
N-NITROSODIPHENYLAMINE	330	50000 U	UG/KG
DI-N-OCTYL PHTHALATE	330	50000 U	UG/KG
PENTACHLOROPHENOL	1300	200000 U	UG/KG
PHENANTHRENE	330	250000	UG/KG
PHENOL	670	100000 U	UG/KG
4-BROMOPHENYL-PHENYLEETHER	330	50000 U	UG/KG
4-CHLOROPHENYL-PHENYLEETHER	330	50000 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	50000 U	UG/KG
PYRENE	330	380000	UG/KG
1,2,4-TRICHLOROBENZENE	330	50000 U	UG/KG
2,4,6-TRICHLOROPHENOL	670	100000 U	UG/KG
2,4,5-TRICHLOROPHENOL	670	100000 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(18 - 137 %)	D	%
NITROBENZENE-d5	(23 - 120 %)	D	%
PHENOL-d6	(24 - 113 %)	D	%
2-FLUOROBIPHENYL	(30 - 115 %)	D	%
2-FLUOROPHENOL	(25 - 121 %)	D	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	D	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-R-010

Date Sampled : 03/12/97

Order #: 134822

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	6160	UG/G	03/17/97	10.0
CADMIUM	0.500	1.30	UG/G	03/17/97	1.0
CHROMIUM	1.00	109	UG/G	03/17/97	1.0
LEAD	5.00	112	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/13/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD 8260 TCL
Reported: 03/24/97

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-010

Date Sampled : 03/12/97 Order #: 134822 Sample Matrix: SOLID
Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15695

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 03/14/97		
ANALYTICAL DILUTION:	500.0		
ACETONE	20	10000 U	UG/KG
BENZENE	5.0	2500 U	UG/KG
BROMODICHLOROMETHANE	5.0	2500 U	UG/KG
BROMOFORM	5.0	2500 U	UG/KG
BROMOMETHANE	5.0	4800	UG/KG
2-BUTANONE (MEK)	10	5000 U	UG/KG
CARBON DISULFIDE	10	5000 U	UG/KG
CARBON TETRACHLORIDE	5.0	2500 U	UG/KG
CHLOROBENZENE	5.0	2500 U	UG/KG
CHLOROETHANE	5.0	2500 U	UG/KG
CHLOROFORM	5.0	2500 U	UG/KG
CHLOROMETHANE	5.0	5000	UG/KG
DIBROMOCHLOROMETHANE	5.0	2500 U	UG/KG
1,1-DICHLOROETHANE	5.0	2500 U	UG/KG
1,2-DICHLOROETHANE	5.0	2500 U	UG/KG
1,1-DICHLOROETHENE	5.0	2500 U	UG/K
CIS-1,2-DICHLOROETHENE	5.0	2500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	2500 U	UG/KG
1,2-DICHLOROPROPANE	5.0	2500 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/KG
ETHYLBENZENE	5.0	2500 U	UG/KG
2-HEXANONE	10	5000 U	UG/KG
METHYLENE CHLORIDE	5.0	2500 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	5000 U	UG/KG
STYRENE	5.0	2500 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	2500 U	UG/KG
TETRACHLOROETHENE	5.0	2500 U	UG/KG
TOLUENE	5.0	2500 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	2500 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	2500 U	UG/KG
TRICHLOROETHENE	5.0	2500 U	UG/KG
VINYL CHLORIDE	5.0	2500 U	UG/KG
O-XYLENE	5.0	2500 U	UG/KG
M+P-XYLENE	5.0	2500 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(74 - 121 %)	109	%
TOLUENE-D8	(81 - 117 %)	108	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	102	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-010

Date Sampled : 03/12/97 Order #: 134822 Sample Matrix: SOLID
 Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15676

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/17/97			
ANALYTICAL DILUTION: 3.0			
ACENAPHTHENE	330	990 U	UG/KG
ACENAPHTHYLENE	330	990 U	UG/KG
ANTHRACENE	330	990 U	UG/KG
BENZO(A)ANTHRACENE	330	990 U	UG/KG
BENZO(A)PYRENE	330	990 U	UG/KG
BENZO(B)FLUORANTHENE	330	990 U	UG/KG
BENZO(G,H,I)PERYLENE	330	990 U	UG/KG
BENZO(K)FLUORANTHENE	330	990 U	UG/KG
BENZYL ALCOHOL	330	990 U	UG/KG
BUTYL BENZYL PHTHALATE	330	990 U	UG/KG
DI-N-BUTYLPHTHALATE	330	2000	UG/KG
CARBAZOLE	330	990 U	UG/KG
INDENO(1,2,3-CD)PYRENE	330	990 U	UG/KG
4-CHLOROANILINE	330	990 U	UG/KG
BIS(-2-CHLOROETHOXY)METHANE	330	990 U	UG/KG
BIS(2-CHLOROETHYL)ETHER	330	990 U	UG/KG
2-CHLORONAPHTHALENE	330	990 U	UG/KG
2-CHLOROPHENOL	670	2000 U	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	330	990 U	UG/KG
CHRYSENE	330	990 U	UG/KG
DIBENZO(A,H)ANTHRACENE	330	990 U	UG/KG
DIBENZOFURAN	330	990 U	UG/KG
1,3-DICHLOROBENZENE	330	990 U	UG/KG
1,2-DICHLOROBENZENE	330	990 U	UG/KG
1,4-DICHLOROBENZENE	330	990 U	UG/KG
3,3'-DICHLOROBENZIDINE	330	990 U	UG/KG
2,4-DICHLOROPHENOL	670	2000 U	UG/KG
DIETHYLPHTHALATE	330	990 U	UG/KG
DIMETHYL PHTHALATE	330	990 U	UG/KG
2,4-DIMETHYLPHENOL	670	2000 U	UG/KG
2,4-DINITROPHENOL	1300	3900 U	UG/KG
2,4-DINITROTOLUENE	330	990 U	UG/KG
2,6-DINITROTOLUENE	330	990 U	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	330	1200	UG/KG
FLUORANTHENE	330	990 U	UG/KG
FLUORENE	330	990 U	UG/KG
HEXACHLOROBENZENE	330	990 U	UG/KG
HEXACHLOROBUTADIENE	330	990 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	990 U	UG/KG
HEXACHLOROETHANE	330	990 U	UG/KG
ISOPHORONE	330	990 U	UG/KG
2-METHYLNAPHTHALENE	670	2000 U	UG/KG
4,6-DINITRO-2-METHYLPHENOL	1300	3900 U	UG/KG

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-010

Date Sampled : 03/12/97 Order #: 134822 Sample Matrix: SOLID
 Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15676

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/17/97			
ANALYTICAL DILUTION: 3.0			
4-CHLORO-3-METHYLPHENOL	670	2000 U	UG/KG
2-METHYLPHENOL	670	2000 U	UG/KG
4-METHYLPHENOL	670	2000 U	UG/KG
NAPHTHALENE	330	990 U	UG/KG
2-NITROANILINE	330	990 U	UG/KG
3-NITROANILINE	330	990 U	UG/KG
4-NITROANILINE	330	990 U	UG/KG
NITROBENZENE	330	990 U	UG/KG
2-NITROPHENOL	670	2000 U	UG/KG
4-NITROPHENOL	1300	3900 U	UG/KG
N-NITROSODIMETHYLAMINE	330	990 U	UG/KG
N-NITROSODIPHENYLAMINE	330	990 U	UG/KG
DI-N-OCTYL PHTHALATE	330	990 U	UG/KG
PENTACHLOROPHENOL	1300	3900 U	UG/KG
PHENANTHRENE	330	990 U	UG/K
PHENOL	670	2000 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	990 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	990 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	990 U	UG/KG
PYRENE	330	990 U	UG/KG
1,2,4-TRICHLOROBENZENE	330	990 U	UG/KG
2,4,6-TRICHLOROPHENOL	670	2000 U	UG/KG
2,4,5-TRICHLOROPHENOL	670	2000 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(18 - 137 %)	86	%
NITROBENZENE-d5	(23 - 120 %)	73	%
PHENOL-d6	(24 - 113 %)	79	%
2-FLUOROBIPHENYL	(30 - 115 %)	85	%
2-FLUOROPHENOL	(25 - 121 %)	78	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	72	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-R-04

Date Sampled : 03/12/97

Order #: 134823

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	2810	UG/G	03/17/97	1.0
CADMIUM	0.500	0.676	UG/G	03/17/97	1.0
CHROMIUM	1.00	54.5	UG/G	03/17/97	1.0
LEAD	5.00	13800	UG/G	03/17/97	10.0
MERCURY	0.150	0.150 U	UG/G	03/13/97	1.0
SELENIUM	0.500	0.5133	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-04

Date Sampled : 03/12/97 Order #: 134823 Sample Matrix: SOLID
 Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15695

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/14/97			
ANALYTICAL DILUTION: 500.0			
ACETONE	20	10000 U	UG/KG
BENZENE	5.0	2500 U	UG/KG
BROMODICHLOROMETHANE	5.0	2500 U	UG/KG
BROMOFORM	5.0	2500 U	UG/KG
BROMOMETHANE	5.0	4100	UG/KG
2-BUTANONE (MEK)	10	100000	UG/KG
CARBON DISULFIDE	10	5000 U	UG/KG
CARBON TETRACHLORIDE	5.0	2500 U	UG/KG
CHLOROBENZENE	5.0	2500 U	UG/KG
CHLOROETHANE	5.0	2500 U	UG/KG
CHLOROFORM	5.0	2500 U	UG/KG
CHLOROMETHANE	5.0	2500 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	2500 U	UG/KG
1,1-DICHLOROETHANE	5.0	2500 U	UG/KG
1,2-DICHLOROETHANE	5.0	2500 U	UG/KG
1,1-DICHLOROETHENE	5.0	2500 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	2500 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	2500 U	UG/KG
1,2-DICHLOROPROPANE	5.0	2500 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/KG
ETHYLBENZENE	5.0	2500	UG/KG
2-HEXANONE	10	5000 U	UG/KG
METHYLENE CHLORIDE	5.0	2500 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	6400	UG/KG
STYRENE	5.0	2500 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	2500 U	UG/KG
TETRACHLOROETHENE	5.0	2500 U	UG/KG
TOLUENE	5.0	7000	UG/KG
1,1,1-TRICHLOROETHANE	5.0	2500 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	2500 U	UG/KG
TRICHLOROETHENE	5.0	2500 U	UG/KG
VINYL CHLORIDE	5.0	2500 U	UG/KG
O-XYLENE	5.0	2500 U	UG/KG
M+P-XYLENE	5.0	8100	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(74 - 121 %)	87	%
TOLUENE-D8	(81 - 117 %)	99	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	99	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-04

Date Sampled : 03/12/97 Order #: 134823 Sample Matrix: SOLID
 Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15675

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 10.0			
ACENAPHTHENE	330	3300 U	UG/KG
ACENAPHTHYLENE	330	3300 U	UG/KG
ANTHRACENE	330	3300 U	UG/KG
BENZO (A) ANTHRACENE	330	3300 U	UG/KG
BENZO (A) PYRENE	330	3300 U	UG/KG
BENZO (B) FLUORANTHENE	330	3300 U	UG/KG
BENZO (G, H, I) PERYLENE	330	3300 U	UG/KG
BENZO (K) FLUORANTHENE	330	3300 U	UG/KG
BENZYL ALCOHOL	330	3300 U	UG/KG
BUTYL BENZYL PHTHALATE	330	170000	UG/KG
DI-N-BUTYLPHTHALATE	330	330000000	UG/KG
CARBAZOLE	330	3300 U	UG/KG
INDENO (1, 2, 3-CD) PYRENE	330	3300 U	UG/KG
4-CHLOROANILINE	330	3300 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	3300 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	3300 U	UG/KG
2-CHLORONAPHTHALENE	330	3300 U	UG/KG
2-CHLOROPHENOL	670	6700 U	UG/KG
2, 2'-OXYBIS (1-CHLOROPROPANE)	330	3300 U	UG/KG
CHRYSENE	330	3300 U	UG/KG
DIBENZO (A, H) ANTHRACENE	330	3300 U	UG/KG
DIBENZOFURAN	330	3300 U	UG/KG
1, 3-DICHLOROBENZENE	330	3300 U	UG/KG
1, 2-DICHLOROBENZENE	330	3300 U	UG/KG
1, 4-DICHLOROBENZENE	330	3300 U	UG/KG
3, 3'-DICHLOROBENZIDINE	330	3300 U	UG/KG
2, 4-DICHLOROPHENOL	670	6700 U	UG/KG
DIETHYLPHTHALATE	330	3300 U	UG/KG
DIMETHYL PHTHALATE	330	3300 U	UG/KG
2, 4-DIMETHYLPHENOL	670	6700 U	UG/KG
2, 4-DINITROPHENOL	1300	13000 U	UG/KG
2, 4-DINITROTOLUENE	330	3300 U	UG/KG
2, 6-DINITROTOLUENE	330	3300 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	3300 U	UG/KG
FLUORANTHENE	330	3300 U	UG/KG
FLUORENE	330	3300 U	UG/KG
HEXACHLOROBENZENE	330	3300 U	UG/KG
HEXACHLOROBUTADIENE	330	3300 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	3300 U	UG/KG
HEXACHLOROETHANE	330	3300 U	UG/KG
ISOPHORONE	330	3300 U	UG/KG
2-METHYLNAPHTHALENE	670	6700 U	UG/KG
4, 6-DINITRO-2-METHYLPHENOL	1300	13000 U	UG/KG

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-04

Date Sampled : 03/12/97 Order #: 134823 Sample Matrix: SOLID
 Date Received: 03/13/97 Submission #: 9703000170 Analytical Run 15675

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 10.0			
4-CHLORO-3-METHYLPHENOL	670	6700 U	UG/KG
2-METHYLPHENOL	670	6700 U	UG/KG
4-METHYLPHENOL	670	6700 U	UG/KG
NAPHTHALENE	330	3300 U	UG/KG
2-NITROANILINE	330	3300 U	UG/KG
3-NITROANILINE	330	3300 U	UG/KG
4-NITROANILINE	330	3300 U	UG/KG
NITROBENZENE	330	3300 U	UG/KG
2-NITROPHENOL	670	6700 U	UG/KG
4-NITROPHENOL	1300	13000 U	UG/KG
N-NITROSODIMETHYLAMINE	330	3300 U	UG/KG
N-NITROSODIPHENYLAMINE	330	3300 U	UG/KG
DI-N-OCTYL PHTHALATE	330	590000	UG/KG
PENTACHLOROPHENOL	1300	13000 U	UG/KG
PHENANTHRENE	330	3300 U	UG/KG
PHENOL	670	6700 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	3300 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	3300 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	3300 U	UG/KG
PYRENE	330	3300 U	UG/KG
1,2,4-TRICHLOROBNZENE	330	3300 U	UG/KG
2,4,6-TRICHLOROPHENOL	670	6700 U	UG/KG
2,4,5-TRICHLOROPHENOL	670	6700 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(18 - 137 %)	115	%
NITROBENZENE-d5	(23 - 120 %)	106	%
PHENOL-d6	(24 - 113 %)	101	%
2-FLUOROBIPHENYL	(30 - 115 %)	109	%
2-FLUOROPHENOL	(25 - 121 %)	93	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	33	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-WB-09

Date Sampled : 03/11/97

Order #: 134824

Sample Matrix: SOLID

Date Received: 03/13/97

Submission #:9703000170

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
SUB CONTRACTED ANALYSIS					
BTU *		13148	BTU/LB	03/18/97	1.0

* Subcontracted To:Schwarzkopf Laboratory

INORGANIC-1

COLUMBIA ANALYTICAL SERVICES

Reported: 03/24/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-WB-08C

Date Sampled : 03/11/97
Date Received: 03/13/97

Order #: 134825
Submission #:9703000170

Sample Matrix: SOLID

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
SUB CONTRACTED ANALYSIS					
BTU *		9184	BTU/LB	03/18/97	1.0

* Subcontracted To:Schwarzkopf Laboratory

INORGANIC-2

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 135624	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15695

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/14/97			
ANALYTICAL DILUTION: 125.0			
ACETONE	20	2500 U	UG/KG
BENZENE	5.0	630 U	UG/KG
BROMODICHLOROMETHANE	5.0	630 U	UG/KG
BROMOFORM	5.0	630 U	UG/KG
BROMOMETHANE	5.0	630 U	UG/KG
2-BUTANONE (MEK)	10	1300 U	UG/KG
CARBON DISULFIDE	10	1300 U	UG/KG
CARBON TETRACHLORIDE	5.0	630 U	UG/KG
CHLOROBENZENE	5.0	630 U	UG/KG
CHLOROETHANE	5.0	630 U	UG/KG
CHLOROFORM	5.0	630 U	UG/KG
CHLOROMETHANE	5.0	630 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHANE	5.0	630 U	UG/KG
1,2-DICHLOROETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHENE	5.0	630 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
1,2-DICHLOROPROPANE	5.0	630 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
ETHYLBENZENE	5.0	630 U	UG/KG
2-HEXANONE	10	1300 U	UG/KG
METHYLENE CHLORIDE	5.0	630 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1300 U	UG/KG
STYRENE	5.0	630 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	630 U	UG/KG
TETRACHLOROETHENE	5.0	630 U	UG/KG
TOLUENE	5.0	630 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	630 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	630 U	UG/KG
TRICHLOROETHENE	5.0	630 U	UG/KG
VINYL CHLORIDE	5.0	630 U	UG/KG
O-XYLENE	5.0	630 U	UG/KG
M+P-XYLENE	5.0	630 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(74 - 121 %)	104	%
TOLUENE-D8	(81 - 117 %)	103	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	101	%

Project Reference:
Client Sample ID : METHOD BLANKDate Sampled : Order #: 135625 Sample Matrix: SOLID
Date Received: Submission #: Analytical Run 15695

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/17/97			
ANALYTICAL DILUTION: 125.0			
ACETONE	20	2500 U	UG/KG
BENZENE	5.0	630 U	UG/KG
BROMODICHLOROMETHANE	5.0	630 U	UG/KG
BROMOFORM	5.0	630 U	UG/KG
BROMOMETHANE	5.0	630 U	UG/KG
2-BUTANONE (MEK)	10	1300 U	UG/KG
CARBON DISULFIDE	10	1300 U	UG/KG
CARBON TETRACHLORIDE	5.0	630 U	UG/KG
CHLOROBENZENE	5.0	630 U	UG/KG
CHLOROETHANE	5.0	630 U	UG/KG
CHLOROFORM	5.0	630 U	UG/KG
CHLOROMETHANE	5.0	630 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHANE	5.0	630 U	UG/KG
1,2-DICHLOROETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHENE	5.0	630 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
1,2-DICHLOROPROPANE	5.0	630 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
ETHYLBENZENE	5.0	630 U	UG/KG
2-HEXANONE	10	1300 U	UG/KG
METHYLENE CHLORIDE	5.0	630 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1300 U	UG/KG
STYRENE	5.0	630 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	630 U	UG/KG
TETRACHLOROETHENE	5.0	630 U	UG/KG
TOLUENE	5.0	630 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	630 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	630 U	UG/KG
TRICHLOROETHENE	5.0	630 U	UG/KG
VINYL CHLORIDE	5.0	630 U	UG/KG
O-XYLENE	5.0	630 U	UG/KG
M+P-XYLENE	5.0	630 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(74 - 121 %)	105	%
TOLUENE-D8	(81 - 117 %)	110	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	103	%

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 135367	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15675

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 1.0			
ACENAPHTHENE	330	330 U	UG/KG
ACENAPHTHYLENE	330	330 U	UG/KG
ANTHRACENE	330	330 U	UG/KG
BENZO (A) ANTHRACENE	330	330 U	UG/KG
BENZO (A) PYRENE	330	330 U	UG/KG
BENZO (B) FLUORANTHENE	330	330 U	UG/KG
BENZO (G, H, I) PERYLENE	330	330 U	UG/KG
BENZO (K) FLUORANTHENE	330	330 U	UG/KG
BENZYL ALCOHOL	330	330 U	UG/KG
BUTYL BENZYL PHTHALATE	330	330 U	UG/KG
DI-N-BUTYLPHTHALATE	330	330 U	UG/KG
CARBAZOLE	330	330 U	UG/KG
INDENO (1, 2, 3-CD) PYRENE	330	330 U	UG/KG
4-CHLOROANILINE	330	330 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	330 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	330 U	UG/KG
2-CHLORONAPHTHALENE	330	330 U	UG/KG
2-CHLOROPHENOL	670	670 U	UG/KG
2, 2'-OXYBIS (1-CHLOROPROPANE)	330	330 U	UG/KG
CHRYSENE	330	330 U	UG/KG
DIBENZO (A, H) ANTHRACENE	330	330 U	UG/KG
DIBENZOFURAN	330	330 U	UG/KG
1, 3-DICHLOROBENZENE	330	330 U	UG/KG
1, 2-DICHLOROBENZENE	330	330 U	UG/KG
1, 4-DICHLOROBENZENE	330	330 U	UG/KG
3, 3'-DICHLOROBENZIDINE	330	330 U	UG/KG
2, 4-DICHLOROPHENOL	670	670 U	UG/KG
DIETHYLPHTHALATE	330	330 U	UG/KG
DIMETHYL PHTHALATE	330	330 U	UG/KG
2, 4-DIMETHYLPHENOL	670	670 U	UG/KG
2, 4-DINITROPHENOL	1300	1300 U	UG/KG
2, 4-DINITROTOLUENE	330	330 U	UG/KG
2, 6-DINITROTOLUENE	330	330 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	330 U	UG/KG
FLUORANTHENE	330	330 U	UG/KG
FLUORENE	330	330 U	UG/KG
HEXACHLOROBENZENE	330	330 U	UG/KG
HEXACHLOROBUTADIENE	330	330 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	330 U	UG/KG
HEXACHLOROETHANE	330	330 U	UG/KG
ISOPHORONE	330	330 U	UG/KG
2-METHYLNAPHTHALENE	670	670 U	UG/KG
4, 6-DINITRO-2-METHYLPHENOL	1300	1300 U	UG/KG
4-CHLORO-3-METHYLPHENOL	670	670 U	UG/KG

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 135367	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15675

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 1.0			
2-METHYLPHENOL	670	670 U	UG/KG
4-METHYLPHENOL	670	670 U	UG/KG
NAPHTHALENE	330	330 U	UG/KG
2-NITROANILINE	330	330 U	UG/KG
3-NITROANILINE	330	330 U	UG/KG
4-NITROANILINE	330	330 U	UG/KG
NITROBENZENE	330	330 U	UG/KG
2-NITROPHENOL	670	670 U	UG/KG
4-NITROPHENOL	1300	1300 U	UG/KG
N-NITROSODIMETHYLAMINE	330	330 U	UG/KG
N-NITROSODIPHENYLAMINE	330	330 U	UG/KG
DI-N-OCTYL PHTHALATE	330	330 U	UG/KG
PENTACHLOROPHENOL	1300	1300 U	UG/KG
PHENANTHRENE	330	330 U	UG/KG
PHENOL	670	670 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	330 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	330 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	330 U	UG/KG
PYRENE	330	330 U	UG/KG
1,2,4-TRICHLOROBENZENE	330	330 U	UG/KG
2,4,6-TRICHLOROPHENOL	670	670 U	UG/KG
2,4,5-TRICHLOROPHENOL	670	670 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(18 - 137 %)	118	%
NITROBENZENE-d5	(23 - 120 %)	105	%
PHENOL-d6	(24 - 113 %)	111	%
2-FLUOROBIPHENYL	(30 - 115 %)	118	%
2-FLUOROPHENOL	(25 - 121 %)	118	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	93	%

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 135370	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15676

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/17/97			
ANALYTICAL DILUTION: 3.0			
ACENAPHTHENE	330	990 U	UG/KG
ACENAPHTHYLENE	330	990 U	UG/KG
ANTHRACENE	330	990 U	UG/KG
BENZO (A) ANTHRACENE	330	990 U	UG/KG
BENZO (A) PYRENE	330	990 U	UG/KG
BENZO (B) FLUORANTHENE	330	990 U	UG/KG
BENZO (G, H, I) PERYLENE	330	990 U	UG/KG
BENZO (K) FLUORANTHENE	330	990 U	UG/KG
BENZYL ALCOHOL	330	990 U	UG/KG
BUTYL BENZYL PHTHALATE	330	990 U	UG/KG
DI-N-BUTYLPHTHALATE	330	5200	UG/KG
CARBAZOLE	330	990 U	UG/KG
INDENO (1, 2, 3-CD) PYRENE	330	990 U	UG/KG
4-CHLOROANILINE	330	990 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	990 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	990 U	UG/KG
2-CHLORONAPHTHALENE	330	990 U	UG/KG
2-CHLOROPHENOL	670	2000 U	UG/KG
2, 2'-OXYBIS (1-CHLOROPROPANE)	330	990 U	UG/KG
CHRYSENE	330	990 U	UG/KG
DIBENZO (A, H) ANTHRACENE	330	990 U	UG/KG
DIBENZOFURAN	330	990 U	UG/KG
1, 3-DICHLOROBENZENE	330	990 U	UG/KG
1, 2-DICHLOROBENZENE	330	990 U	UG/KG
1, 4-DICHLOROBENZENE	330	990 U	UG/KG
3, 3'-DICHLOROBENZIDINE	330	990 U	UG/KG
2, 4-DICHLOROPHENOL	670	2000 U	UG/KG
DIETHYLPHTHALATE	330	990 U	UG/KG
DIMETHYL PHTHALATE	330	990 U	UG/KG
2, 4-DIMETHYLPHENOL	670	2000 U	UG/KG
2, 4-DINITROPHENOL	1300	3900 U	UG/KG
2, 4-DINITROTOLUENE	330	990 U	UG/KG
2, 6-DINITROTOLUENE	330	990 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	990 U	UG/KG
FLUORANTHENE	330	990 U	UG/KG
FLUORENE	330	990 U	UG/KG
HEXACHLOROBENZENE	330	990 U	UG/KG
HEXACHLOROBUTADIENE	330	990 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	990 U	UG/KG
HEXACHLOROETHANE	330	990 U	UG/KG
ISOPHORONE	330	990 U	UG/KG
2-METHYLNAPHTHALENE	670	2000 U	UG/KG
4, 6-DINITRO-2-METHYLPHENOL	1300	3900 U	UG/KG
4-CHLORO-3-METHYLPHENOL	670	2000 U	UG/KG

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 135370	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15676

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/17/97			
ANALYTICAL DILUTION: 3.0			
2-METHYLPHENOL	670	2000 U	UG/KG
4-METHYLPHENOL	670	2000 U	UG/KG
NAPHTHALENE	330	990 U	UG/KG
2-NITROANILINE	330	990 U	UG/KG
3-NITROANILINE	330	990 U	UG/KG
4-NITROANILINE	330	990 U	UG/KG
NITROBENZENE	330	990 U	UG/KG
2-NITROPHENOL	670	2000 U	UG/KG
4-NITROPHENOL	1300	3900 U	UG/KG
N-NITROSODIMETHYLAMINE	330	990 U	UG/KG
N-NITROSODIPHENYLAMINE	330	990 U	UG/KG
DI-N-OCTYL PHTHALATE	330	990 U	UG/KG
PENTACHLOROPHENOL	1300	3900 U	UG/KG
PHENANTHRENE	330	990 U	UG/KG
PHENOL	670	2000 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	990 U	UG/K
4-CHLOROPHENYL-PHENYLETHER	330	990 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	990 U	UG/KG
PYRENE	330	990 U	UG/KG
1,2,4-TRICHLOROBENZENE	330	990 U	UG/KG
2,4,6-TRICHLOROPHENOL	670	2000 U	UG/KG
2,4,5-TRICHLOROPHENOL	670	2000 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(18 - 137 %)	74	%
NITROBENZENE-d5	(23 - 120 %)	76	%
PHENOL-d6	(24 - 113 %)	21	%
2-FLUOROBIPHENYL	(30 - 115 %)	94	%
2-FLUOROPHENOL	(25 - 121 %)	66	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	108	%

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 134963	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15625

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/13/97			
DATE ANALYZED : 03/13/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	118	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	105	%

COLUMBIA ANALYTICAL SERVICES, INC.

700 Exchange Street, Rochester, New York 14608

(716) 454-6810 • FAX (716) 454-6825

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

(800) 695-7222

DATE 3-12-97 PAGE 1 OF 4

PROJECT NAME <u>GM / Delphi Int L+S</u>					ANALYSIS REQUESTED														
PROJECT MANAGER/CONTACT <u>Chris Anderson</u>					# OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624	GC/MS SVOA's ☐ 8270A ☐ 625	GC VOA's ☐ 8010/8020 ☐ 601/602	PESTICIDES/PCB's ☒ 8080 ☐ 608	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (LIST BELOW) <u>X</u>	METALS, DISSOLVED (LIST BELOW) <u>BTU'S</u>	PRESERVATION			
COMPANY/ADDRESS <u>EMCON - CROSSROADS CORP</u>																pH < 2.0	pH > 12	Other	
ONE INT BLVD SUITE 700 MAHWAH NJ																			
TEL (201) 512 5780 FAX (201) 512 5786																			
SAMPLER'S SIGNATURE <u>Chi Anderson</u>																			
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX															
MB-WB-07	3-11-97	15:27	134788	wood block	1				X					X					
MB-WB-02		15:50	789		1				X					X					
MB-WB-10		16:00	790		1				X					X					
MB-WB-11		15:35	791		1				X					X					
MB-WB-09		16:15	792		1				X					X					
MB-WB-09		16:15	134824		1										X				
MB-WB-12		15:15	793		1				X					X					
MB-WB-08C		16:20	134825		1										X				
MB-WB-08C		16:20	794		1				X					X					

RELINQUISHED BY: <u>Chi Anderson</u> Signature <u>Chris Anderson</u> Printed Name <u>EMCON</u> Firm <u>3/12/97 16:30</u> Date/Time	RECEIVED BY: <u>Tom Hastings</u> Signature <u>Tom Hastings</u> Printed Name <u>EMCON</u> Firm <u>3/13/97 08:30</u> Date/Time	TURNAROUND REQUIREMENTS — 24 hr. ☒ 48 hr. — 5 day — Standard (10-15 working days) — Provide Verbal Preliminary Results — Provide FAX Preliminary Results Requested Report Date _____	REPORT REQUIREMENTS — 1. Routine Report — 2. Routine Rep. w/CASE Narrative — 3. EPA Level III Validatable Package — 4. N.J. Reduced Deliverables Level IV — 5. NY ASP/CLP Deliverables — 6. Site specific QC.	INVOICE INFORMATION: P.O. #: _____ Bill To: _____ _____ _____ _____	SAMPLE RECEIPT: Shipping Via: <u>FED EX</u> Shipping #: _____ Temperature: _____ Submission No: <u>3-170</u>

RELINQUISHED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____	RECEIVED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____

RELINQUISHED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____	RECEIVED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____

SPECIAL INSTRUCTIONS/COMMENTS: METALS <u>RCRA (8)</u> ORGANICS: ☒ TCL ☐ PPL ☐ AE Only ☐ BN Only ☐ Special List <u>Ignore label test parameters have changed to above</u>	

65 RAMAPO VALLEY ROAD MAHWAH, NJ 07430	201-512-3292 FAX 201-512-3362	435 LAWRENCE BELL DR. AMHERST NY 14221	716-634-0454 FAX 716-634-0010

COLUMBIA ANALYTICAL SERVICES, INC.
700 Exchange Street, Rochester, New York 14608
(716) 454-6810 • FAX (716) 454-6825

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM
(800) 695-7222

DATE 3-12-97 PAGE 2 OF 2

PROJECT NAME <u>GM/DELPHI INT L+S</u>					ANALYSIS REQUESTED																								
PROJECT MANAGER/CONTACT <u>Chris Anderson Andrews</u>					# OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624	GC/MS SVOA's ☐ 8270A ☐ 625	GC VOA's ☐ 8010/8020 ☐ 601/602	PESTICIDES/PCB's ☒ 8080 ☐ 608	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL X (LIST BELOW)	METALS, DISSOLVED (LIST BELOW)	PRESERVATION													
COMPANY/ADDRESS <u>EMCON</u> <u>MAHWAH NJ</u>																pH < 2.0	pH > 12	Other											
TEL (201) <u>512-5700</u> FAX (201) <u>512 5782</u>																													
SAMPLER'S SIGNATURE <u>[Signature]</u>																													
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX																									
MB-T-08	3-12-97	13:20	134 795	Dirt	1				X					X															
MB-T-04	3	12:45	796	Dust	1				X					X															
MB-T-02		10:06	797	Dust	1				X					X															
MB-T-01		10:40	798	Dirt	1				X					X															
MB-T-012		14:05	799	Dust	1				X					X															
MB-T-03		12:00	800	Dust	1				X					X															
MB-T-05		13:05	801	Dust	1				X					X															
MB-T-011		12:30	802	Dirt	1				X					X															
MB-T-09	✓	13:40	803	Dirt	1				X					X															
MB-T-07		16:00	804	Dirt	1				X					X															
RELINQUISHED BY: Signature <u>[Signature]</u> Printed Name <u>JAMES S. Dwyer</u> Firm <u>EMCON/OWI</u> Date/Time <u>3/12/97 1630</u>					RECEIVED BY: Signature <u>[Signature]</u> Printed Name <u>Tom Hastings</u> Firm <u>EMCON</u> Date/Time <u>3/13/97 0830</u>					TURNAROUND REQUIREMENTS ___ 24 hr. <u>X</u> 48 hr. ___ 5 day ___ Standard (10-15 working days) ___ Provide Verbal Preliminary Results ___ Provide FAX Preliminary Results Requested Report Date _____					REPORT REQUIREMENTS ___ 1. Routine Report ___ 2. Routine Rep. w/CASE Narrative ___ 3. EPA Level III Validatable Package ___ 4. N.J. Reduced Deliverables Level IV ___ 5. NY ASP/CLP Deliverables ___ 6. Site specific QC.					INVOICE INFORMATION: P.O. #: _____ Bill To: _____ _____ _____ _____					SAMPLE RECEIPT: Shipping Via: <u>FED EX</u> Shipping #: _____ Temperature: _____ Submission No: <u>3-170</u>				
RELINQUISHED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____					RECEIVED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____					SPECIAL INSTRUCTIONS/COMMENTS: METALS <u>PCRA (8)</u> ORGANICS: ☒ TCL ☐ PPL ☐ AE Only ☐ BN Only ☐ Special List																			
RELINQUISHED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____					RECEIVED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____					65 RAMAPO VAL ROAD MAHWAH, N.J. 07430 201-512-3292 FAX 201-512-3262 435 LAWRENCE BELL DR. AMHERST, NY 14204 16-634-0454 FAX 16-634-0454																			

(716) 454-6810 • FAX (716) 454-6825

(800) 695-7222

DATE 3-12-97 PAGE 3 OF 4

[illegible]

(716) 454-6810 • FAX (716) 454-6825

(800) 695-7222

DATE 3-12-97 PAGE 4 OF 4

[illegible]



A FULL SERVICE ENVIRONMENTAL LABORATORY

March 25, 1997

Mr. Raymond Kapp
EMCON
Crossroads Corp. Center
1 International Blvd, Ste. 700
Mahwah, NJ 07495

PROJECT:GM/DELPHI INT L+S
Submission #:9703000195

Dear Mr. Kapp:

Enclosed are the analytical results of the analyses requested. The analytical data was provided to you on 03/19/97 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at (716) 454-6810.

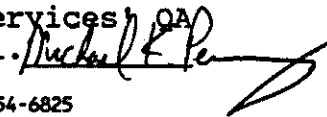
Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES


Mark Wilson
Client Service Manager

Enc.

This package has been reviewed by Columbia Analytical Services, QA Department/Laboratory Director prior to report submittal. 

700 Exchange Street • Rochester, NY 14608 • Tele:(716)454-6810 • Fax:(716)454-6825
65 Rambo Vally Rd. • Suite 16 • Mahwah, NJ 07430 • Tele:(201)512-3292 • Fax:(201)512-3362
12699 Roll Rd. • Akron, NY 14001 • Tele:(716)542-1264 • Fax:(716)542-3353

CASE NARRATIVE

COMPANY: EMCON
GM/Delphi Plant INT L+S
SUBMISSION #: 9703000195

EMCON samples of various matrices were collected on 03/13/97 and received at CAS on 03/14/97 in good condition.

PCBs

EMCON samples were analyzed for Target Compound List (TCL) PCBs by EPA Method 8080 from SW-846.

Several samples were analyzed dilutions due to interfering organics present in the sample. Due to some of the larger analytical dilutions, surrogates could not be quantitated and have been flagged "D".

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within QC Limits except for one of two surrogates in sample MB-PE-03. This was most likely due to matrix interferences. The surrogates have been flagged "**".

All samples were analyzed within the holding time as specified in the method.

No other analytical or QC problems were encountered.

VOLATILE ORGANICS

EMCON samples were analyzed for Target Compound List (TCL) of Volatile Organics by EPA Method 8260 from SW-846.

All samples were analyzed dilutions due to interfering organics present in the sample.

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within QC Limits.

All samples were analyzed within the holding time as specified in the method.

No other analytical or QC problems were encountered.

SEMIVOLATILE ORGANICS

EMCON samples were analyzed for Target Compound List (TCL) of Semivolatile Organics by EPA Method 8270 from SW-846.

All samples were analyzed dilutions due to interfering organics present in the sample and to bring target compounds within the linear range of the method.

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within QC Limits. All samples were analyzed within the holding time as specified in the method.

No other analytical or QC problems were encountered.

INORGANICS

EMCON samples were analyzed for the RCRA list of Metals. ICP Metals were analyzed by EPA Method 6010 and Mercury by 7470. Total Cyanide was analyzed by 9010.

For wipe samples where only one wipe sample was submitted, 1/2 was used for Mercury and 1/2 was used for all the other metals and a dilution of 2.0 was factored in to the final result.

All Initial and Continuing calibrations were compliant.

No analytical or QC problems were encountered.



Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)
- * - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits.
- D - Spike diluted out.
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CAS Lab ID # for State Certifications

NY ID # in Rochester:	10145	NJ ID # in Rochester:	73004
CT ID # in Rochester:	PH0556	RI ID # in Rochester:	158
MA ID # in Rochester:	M-NY032		

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-PE-06

Date Sampled : 03/13/97

Order #: 135109

Sample Matrix: SOLID

Date Received: 03/14/97

Submission #:9703000195

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	13.2	UG/G	03/17/97	1.0
CADMIUM	0.500	9.57	UG/G	03/17/97	1.0
CHROMIUM	1.00	3050	UG/G	03/17/97	10.0
LEAD	5.00	22.9	UG/G	03/17/97	1.0
MERCURY	0.150	0.302	UG/G	03/17/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	1.41	UG/G	03/17/97	1.0
WET CHEMISTRY					
TOTAL CYANIDE	1.00	1.00 U	UG/G	03/18/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SS-05

Date Sampled : 03/13/97 Order #: 135111 Sample Matrix: SOLID
Date Received: 03/14/97 Submission #: 9703000195 Analytical Run 15671

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/14/97		
DATE ANALYZED	: 03/17/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	3400	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

DECACHLOROBIPHENYL	(30 - 150 %)	147	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	93	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SS-04

Date Sampled : 03/13/97 Order #: 135112 Sample Matrix: SOIL/SEDIMENT
Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 63.7

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 1000.0			Dry Weight
PCB 1016	400	630000 U	UG/KG
PCB 1221	400	630000 U	UG/KG
PCB 1232	400	630000 U	UG/KG
PCB 1242	400	630000 U	UG/KG
PCB 1248	400	630000 U	UG/KG
PCB 1254	400	630000 U	UG/KG
PCB 1260	400	4400000	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	D	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	D	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-SD-02

Date Sampled : 03/13/97

Order #: 135113

Sample Matrix: SOIL/SEDIMENT

Date Received: 03/14/97

Submission #:9703000195

ANALYTE	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	2.14 U	UG/G	03/17/97	1.0
BARIUM	2.00	187	UG/G	03/17/97	10.0
CADMIUM	0.500	1.07 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	38.9	UG/G	03/17/97	1.0
LEAD	5.00	166	UG/G	03/17/97	1.0
MERCURY	0.150	0.321 U	UG/G	03/17/97	1.0
SELENIUM	0.500	1.07 U	UG/G	03/17/97	1.0
SILVER	1.00	2.14 U	UG/G	03/17/97	1.0
WET CHEMISTRY					
PERCENT SOLIDS	1.0	46.8	%	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-02

Date Sampled : 03/13/97 Order #: 135113 Sample Matrix: SOIL/SEDIMENT
Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 46.8

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/17/97			
ANALYTICAL DILUTION: 125.0			Dry Weight
ACETONE	20	5300 U	UG/KG
BENZENE	5.0	1300 U	UG/KG
BROMODICHLOROMETHANE	5.0	1300 U	UG/KG
BROMOFORM	5.0	1300 U	UG/KG
BROMOMETHANE	5.0	1300 U	UG/KG
2-BUTANONE (MEK)	10	2700 U	UG/KG
CARBON DISULFIDE	10	2700 U	UG/KG
CARBON TETRACHLORIDE	5.0	1300 U	UG/KG
CHLOROBENZENE	5.0	1300 U	UG/KG
CHLOROETHANE	5.0	1300 U	UG/KG
CHLOROFORM	5.0	1300 U	UG/KG
CHLOROMETHANE	5.0	1300 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	1300 U	UG/KG
1,1-DICHLOROETHANE	5.0	1300 U	UG/KG
1,2-DICHLOROETHANE	5.0	1300 U	UG/KG
1,1-DICHLOROETHENE	5.0	1300 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	1300 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	1300 U	UG/KG
1,2-DICHLOROPROPANE	5.0	1300 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	1300 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	1300 U	UG/KG
ETHYLBENZENE	5.0	1300 U	UG/KG
2-HEXANONE	10	2700 U	UG/KG
METHYLENE CHLORIDE	5.0	1300 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	2700 U	UG/KG
STYRENE	5.0	1300 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	1300 U	UG/KG
TETRACHLOROETHENE	5.0	1300 U	UG/KG
TOLUENE	5.0	1300 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	1300 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	1300 U	UG/KG
TRICHLOROETHENE	5.0	1300 U	UG/KG
VINYL CHLORIDE	5.0	1300 U	UG/KG
O-XYLENE	5.0	1300 U	UG/KG
M+P-XYLENE	5.0	1300 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(74 - 121 %)	106	%
TOLUENE-D8	(81 - 117 %)	104	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	101	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-02

Date Sampled : 03/13/97 Order #: 135113 Sample Matrix: SOIL/SEDIMENT
Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 46.8

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 10.0			Dry Weight
ACENAPHTHENE	330	7100 U	UG/KG
ACENAPHTHYLENE	330	7100 U	UG/KG
ANTHRACENE	330	7100 U	UG/KG
BENZO (A) ANTHRACENE	330	7100 U	UG/KG
BENZO (A) PYRENE	330	7100 U	UG/KG
BENZO (B) FLUORANTHENE	330	7100 U	UG/KG
BENZO (G, H, I) PERYLENE	330	7100 U	UG/KG
BENZO (K) FLUORANTHENE	330	7100 U	UG/KG
BENZYL ALCOHOL	330	7100 U	UG/KG
BUTYL BENZYL PHTHALATE	330	7100 U	UG/KG
DI-N-BUTYLPHTHALATE	330	7100 U	UG/KG
CARBAZOLE	330	7100 U	UG/KG
INDENO (1, 2, 3-CD) PYRENE	330	7100 U	UG/KG
4-CHLOROANILINE	330	7100 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	7100 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	7100 U	UG/KG
2-CHLORONAPHTHALENE	330	7100 U	UG/KG
2-CHLOROPHENOL	670	14000 U	UG/KG
2, 2'-OXYBIS (1-CHLOROPROPANE)	330	7100 U	UG/KG
CHRYSENE	330	7100 U	UG/KG
DIBENZO (A, H) ANTHRACENE	330	7100 U	UG/KG
DIBENZOFURAN	330	7100 U	UG/KG
1, 3-DICHLOROBENZENE	330	7100 U	UG/KG
1, 2-DICHLOROBENZENE	330	7100 U	UG/KG
1, 4-DICHLOROBENZENE	330	7100 U	UG/KG
3, 3'-DICHLOROBENZIDINE	330	7100 U	UG/KG
2, 4-DICHLOROPHENOL	670	14000 U	UG/KG
DIETHYLPHTHALATE	330	7100 U	UG/KG
DIMETHYL PHTHALATE	330	7100 U	UG/KG
2, 4-DIMETHYLPHENOL	670	14000 U	UG/KG
2, 4-DINITROPHENOL	1300	28000 U	UG/KG
2, 4-DINITROTOLUENE	330	7100 U	UG/KG
2, 6-DINITROTOLUENE	330	7100 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	7100 U	UG/KG
FLUORANTHENE	330	7100 U	UG/KG
FLUORENE	330	7100 U	UG/KG
HEXACHLOROBENZENE	330	7100 U	UG/KG
HEXACHLOROBUTADIENE	330	7100 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	7100 U	UG/KG
HEXACHLOROETHANE	330	7100 U	UG/KG
ISOPHORONE	330	7100 U	UG/KG
2-METHYLNAPHTHALENE	670	14000 U	UG/KG
4, 6-DINITRO-2-METHYLPHENOL	1300	28000 U	UG/KG

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-02

Date Sampled : 03/13/97 Order #: 135113 Sample Matrix: SOIL/SEDIMENT
 Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 46.8

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 10.0			Dry Weight
4-CHLORO-3-METHYLPHENOL	670	14000 U	UG/KG
2-METHYLPHENOL	670	14000 U	UG/KG
4-METHYLPHENOL	670	14000 U	UG/KG
NAPHTHALENE	330	7100 U	UG/KG
2-NITROANILINE	330	7100 U	UG/KG
3-NITROANILINE	330	7100 U	UG/KG
4-NITROANILINE	330	7100 U	UG/KG
NITROBENZENE	330	7100 U	UG/KG
2-NITROPHENOL	670	14000 U	UG/KG
4-NITROPHENOL	1300	28000 U	UG/KG
N-NITROSODIMETHYLAMINE	330	7100 U	UG/KG
N-NITROSODIPHENYLAMINE	330	7100 U	UG/KG
DI-N-OCTYL PHTHALATE	330	7100 U	UG/KG
PENTACHLOROPHENOL	1300	28000 U	UG/KG
PHENANTHRENE	330	7100 U	UG/KG
PHENOL	670	14000 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	7100 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	7100 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	7100 U	UG/KG
PYRENE	330	7100 U	UG/KG
1,2,4-TRICHLOROBENZENE	330	7100 U	UG/KG
2,4,6-TRICHLOROPHENOL	670	14000 U	UG/KG
2,4,5-TRICHLOROPHENOL	670	14000 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(18 - 137 %)	109	%
NITROBENZENE-d5	(23 - 120 %)	101	%
PHENOL-d6	(24 - 113 %)	97	%
2-FLUOROBIPHENYL	(30 - 115 %)	109	%
2-FLUOROPHENOL	(25 - 121 %)	118	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	29	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-02

Date Sampled : 03/13/97 Order #: 135113 Sample Matrix: SOIL/SEDIMENT
Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 46.8

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/14/97		
DATE ANALYZED	: 03/18/97		
ANALYTICAL DILUTION:	100.0		DRY WEIGHT
PCB 1016	400	85000 U	UG/KG
PCB 1221	400	85000 U	UG/KG
PCB 1232	400	85000 U	UG/KG
PCB 1242	400	85000 U	UG/KG
PCB 1248	400	85000 U	UG/KG
PCB 1254	400	85000 U	UG/KG
PCB 1260	400	640000	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150)	D	%
TETRACHLORO-META-XYLENE	(30 - 150)	D	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-SD-01

Date Sampled : 03/13/97

Order #: 135114

Sample Matrix: SOIL/SEDIMENT

Date Received: 03/14/97

Submission #:9703000195

ANALYTE	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	3.83 U	UG/G	03/17/97	1.0
BARIUM	2.00	8.66	UG/G	03/17/97	1.0
CADMIUM	0.500	1.92 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	19.7	UG/G	03/17/97	1.0
LEAD	5.00	79.3	UG/G	03/17/97	1.0
MERCURY	0.150	0.575 U	UG/G	03/17/97	1.0
SELENIUM	0.500	1.92 U	UG/G	03/17/97	1.0
SILVER	1.00	3.83 U	UG/G	03/17/97	1.0
WET CHEMISTRY					
PERCENT SOLIDS	1.0	26.1	%	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-01

Date Sampled : 03/13/97 Order #: 135114 Sample Matrix: SOIL/SEDIMENT
Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 26.1

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/17/97			
ANALYTICAL DILUTION: 125.0			Dry Weight
ACETONE	20	9600 U	UG/KG
BENZENE	5.0	2400 U	UG/KG
BROMODICHLOROMETHANE	5.0	2400 U	UG/KG
BROMOFORM	5.0	2400 U	UG/KG
BROMOMETHANE	5.0	2400 U	UG/KG
2-BUTANONE (MEK)	10	4800 U	UG/KG
CARBON DISULFIDE	10	4800 U	UG/KG
CARBON TETRACHLORIDE	5.0	2400 U	UG/KG
CHLOROBENZENE	5.0	2400 U	UG/KG
CHLOROETHANE	5.0	2400 U	UG/KG
CHLOROFORM	5.0	2400 U	UG/KG
CHLOROMETHANE	5.0	2400 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	2400 U	UG/KG
1,1-DICHLOROETHANE	5.0	2400 U	UG/KG
1,2-DICHLOROETHANE	5.0	2400 U	UG/KG
1,1-DICHLOROETHENE	5.0	2400 U	UG/K
CIS-1,2-DICHLOROETHENE	5.0	2400 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	2400 U	UG/KG
1,2-DICHLOROPROPANE	5.0	2400 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	2400 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	2400 U	UG/KG
ETHYLBENZENE	5.0	2400 U	UG/KG
2-HEXANONE	10	4800 U	UG/KG
METHYLENE CHLORIDE	5.0	2400 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	4800 U	UG/KG
STYRENE	5.0	2400 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	2400 U	UG/KG
TETRACHLOROETHENE	5.0	2400 U	UG/KG
TOLUENE	5.0	2400 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	2400 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	2400 U	UG/KG
TRICHLOROETHENE	5.0	2400 U	UG/KG
VINYL CHLORIDE	5.0	2400 U	UG/KG
O-XYLENE	5.0	2400 U	UG/KG
M+P-XYLENE	5.0	2400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(74 - 121 %)	106	%
TOLUENE-D8	(81 - 117 %)	106	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	100	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-01

Date Sampled : 03/13/97 Order #: 135114 Sample Matrix: SOIL/SEDIMENT
Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 26.1

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 10.0			Dry Weight
ACENAPHTHENE	330	13000 U	UG/KG
ACENAPHTHYLENE	330	13000 U	UG/KG
ANTHRACENE	330	13000 U	UG/KG
BENZO (A) ANTHRACENE	330	13000 U	UG/KG
BENZO (A) PYRENE	330	13000 U	UG/KG
BENZO (B) FLUORANTHENE	330	13000 U	UG/KG
BENZO (G, H, I) PERYLENE	330	13000 U	UG/KG
BENZO (K) FLUORANTHENE	330	13000 U	UG/KG
BENZYL ALCOHOL	330	13000 U	UG/KG
BUTYL BENZYL PHTHALATE	330	13000 U	UG/KG
DI-N-BUTYLPHTHALATE	330	13000 U	UG/KG
CARBAZOLE	330	13000 U	UG/KG
INDENO (1, 2, 3-CD) PYRENE	330	13000 U	UG/KG
4-CHLOROANILINE	330	13000 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	13000 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	13000 U	UG/KG
2-CHLORONAPHTHALENE	330	13000 U	UG/KG
2-CHLOROPHENOL	670	26000 U	UG/KG
2, 2'-OXYBIS (1-CHLOROPROPANE)	330	13000 U	UG/KG
CHRYSENE	330	13000 U	UG/KG
DIBENZO (A, H) ANTHRACENE	330	13000 U	UG/KG
DIBENZOFURAN	330	13000 U	UG/KG
1, 3-DICHLOROBENZENE	330	13000 U	UG/KG
1, 2-DICHLOROBENZENE	330	13000 U	UG/KG
1, 4-DICHLOROBENZENE	330	13000 U	UG/KG
3, 3'-DICHLOROBENZIDINE	330	13000 U	UG/KG
2, 4-DICHLOROPHENOL	670	26000 U	UG/KG
DIETHYLPHTHALATE	330	13000 U	UG/KG
DIMETHYL PHTHALATE	330	13000 U	UG/KG
2, 4-DIMETHYLPHENOL	670	26000 U	UG/KG
2, 4-DINITROPHENOL	1300	50000 U	UG/KG
2, 4-DINITROTOLUENE	330	13000 U	UG/KG
2, 6-DINITROTOLUENE	330	13000 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	13000 U	UG/KG
FLUORANTHENE	330	13000 U	UG/KG
FLUORENE	330	13000 U	UG/KG
HEXACHLOROBENZENE	330	13000 U	UG/KG
HEXACHLOROBUTADIENE	330	13000 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	13000 U	UG/KG
HEXACHLOROETHANE	330	13000 U	UG/KG
ISOPHORONE	330	13000 U	UG/KG
2-METHYLNAPHTHALENE	670	26000 U	UG/KG
4, 6-DINITRO-2-METHYLPHENOL	1300	50000 U	UG/KG

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-01

Date Sampled : 03/13/97 Order #: 135114 Sample Matrix: SOIL/SEDIMENT
 Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 26.1

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 10.0			Dry Weight
4-CHLORO-3-METHYLPHENOL	670	26000 U	UG/KG
2-METHYLPHENOL	670	26000 U	UG/KG
4-METHYLPHENOL	670	26000 U	UG/KG
NAPHTHALENE	330	13000 U	UG/KG
2-NITROANILINE	330	13000 U	UG/KG
3-NITROANILINE	330	13000 U	UG/KG
4-NITROANILINE	330	13000 U	UG/KG
NITROBENZENE	330	13000 U	UG/KG
2-NITROPHENOL	670	26000 U	UG/KG
4-NITROPHENOL	1300	50000 U	UG/KG
N-NITROSODIMETHYLAMINE	330	13000 U	UG/KG
N-NITROSODIPHENYLAMINE	330	13000 U	UG/KG
DI-N-OCTYL PHTHALATE	330	7700000	UG/KG
PENTACHLOROPHENOL	1300	50000 U	UG/KG
PHENANTHRENE	330	13000 U	UG/K
PHENOL	670	26000 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	13000 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	13000 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	13000 U	UG/KG
PYRENE	330	13000 U	UG/KG
1,2,4-TRICHLOROBENZENE	330	13000 U	UG/KG
2,4,6-TRICHLOROPHENOL	670	26000 U	UG/KG
2,4,5-TRICHLOROPHENOL	670	26000 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(18 - 137 %)	110	%
NITROBENZENE-d5	(23 - 120 %)	103	%
PHENOL-d6	(24 - 113 %)	105	%
2-FLUOROBIPHENYL	(30 - 115 %)	103	%
2-FLUOROPHENOL	(25 - 121 %)	106	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	30	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-01

Date Sampled : 03/13/97 Order #: 135114 Sample Matrix: SOIL/SEDIMENT
Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 26.1

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 1.0			DRY WEIGHT
PCB 1016	400	1500 U	UG/KG
PCB 1221	400	1500 U	UG/KG
PCB 1232	400	1500 U	UG/KG
PCB 1242	400	1500 U	UG/KG
PCB 1248	400	1500 U	UG/KG
PCB 1254	400	1500 U	UG/KG
PCB 1260	400	1500 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150)	83	%
TETRACHLORO-META-XYLENE	(30 - 150)	97	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-PE-05

Date Sampled : 03/13/97

Order #: 135115

Sample Matrix: WIPE

Date Received: 03/14/97

Submission #:9703000195

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	0.00100	8.20	UG/WIPE	03/17/97	2.0
BARIUM	1.00	616	UG/WIPE	03/17/97	2.0
CADMIUM	0.250	73.8	UG/WIPE	03/17/97	2.0
CHROMIUM	0.500	941	UG/WIPE	03/17/97	2.0
LEAD	0.250	505	UG/WIPE	03/17/97	2.0
MERCURY	0.0300	0.388	UG/WIPE	03/17/97	2.0
SELENIUM	0.000500	3.28	UG/WIPE	03/17/97	2.0
SILVER	0.500	5.78	UG/WIPE	03/17/97	2.0

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-PE-04

Date Sampled : 03/13/97

Order #: 135117

Sample Matrix: WIPE

Date Received: 03/14/97

Submission #:9703000195

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	0.00100	8.47	UG/WIPE	03/17/97	3.0
BARIUM	1.00	551	UG/WIPE	03/17/97	3.0
CADMIUM	0.250	10.5	UG/WIPE	03/17/97	3.0
CHROMIUM	0.500	211	UG/WIPE	03/17/97	3.0
LEAD	0.250	146	UG/WIPE	03/17/97	3.0
MERCURY	0.0300	0.248	UG/WIPE	03/17/97	3.0
SELENIUM	0.000500	2.57	UG/WIPE	03/17/97	3.0
SILVER	0.500	2.97	UG/WIPE	03/17/97	3.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-PE-04

Date Sampled : 03/13/97 Order #: 135117 Sample Matrix: WIPE
 Date Received: 03/14/97 Submission #: 9703000195 Analytical Run 15746

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 03/18/97		
ANALYTICAL DILUTION:	1500.0		
ACETONE	10	15000 U	UG/WI
BENZENE	5.0	7500 U	UG/WI
BROMODICHLOROMETHANE	5.0	7500 U	UG/WI
BROMOFORM	5.0	7500 U	UG/WI
BROMOMETHANE	5.0	7500 U	UG/WI
2-BUTANONE (MEK)	10	15000 U	UG/WI
CARBON DISULFIDE	10	15000 U	UG/WI
CARBON TETRACHLORIDE	5.0	7500 U	UG/WI
CHLOROBENZENE	5.0	7500 U	UG/WI
CHLOROETHANE	5.0	7500 U	UG/WI
CHLOROFORM	5.0	7500 U	UG/WI
CHLOROMETHANE	5.0	7500 U	UG/WI
DIBROMOCHLOROMETHANE	5.0	7500 U	UG/WI
1,1-DICHLOROETHANE	5.0	7500 U	UG/WI
1,2-DICHLOROETHANE	5.0	7500 U	UG/WI
1,1-DICHLOROETHENE	5.0	7500 U	UG/WI
CIS-1,2-DICHLOROETHENE	5.0	7500 U	UG/WI
TRANS-1,2-DICHLOROETHENE	5.0	7500 U	UG/WI
1,2-DICHLOROPROPANE	5.0	7500 U	UG/WI
CIS-1,3-DICHLOROPROPENE	5.0	7500 U	UG/WI
TRANS-1,3-DICHLOROPROPENE	5.0	7500 U	UG/WI
ETHYLBENZENE	5.0	7500 U	UG/WI
2-HEXANONE	10	15000 U	UG/WI
METHYLENE CHLORIDE	5.0	7500 U	UG/WI
4-METHYL-2-PENTANONE (MIBK)	10	15000 U	UG/WI
STYRENE	5.0	7500 U	UG/WI
1,1,2,2-TETRACHLOROETHANE	5.0	7500 U	UG/WI
TETRACHLOROETHENE	5.0	7500 U	UG/WI
TOLUENE	5.0	7500 U	UG/WI
1,1,1-TRICHLOROETHANE	5.0	7500 U	UG/WI
1,1,2-TRICHLOROETHANE	5.0	7500 U	UG/WI
TRICHLOROETHENE	5.0	7500 U	UG/WI
VINYL CHLORIDE	5.0	7500 U	UG/WI
O-XYLENE	5.0	7500 U	UG/WI
M+P-XYLENE	5.0	7500 U	UG/WI

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(74 - 121 %)	95	%
TOLUENE-D8	(81 - 117 %)	96	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	96	%

EMCON

Project Reference: GM/DELPHI INT L+S
Client Sample ID : MB-SS-03

Date Sampled : 03/13/97 Order #: 135120 Sample Matrix: SOLID
Date Received: 03/14/97 Submission #: 9703000195 Analytical Run 15671

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/14/97		
DATE ANALYZED	: 03/15/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	970	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	73	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	79	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-SD-04

Date Sampled : 03/13/97

Order #: 135122

Sample Matrix: SOIL/SEDIMENT

Date Received: 03/14/97

Submission #:9703000195

ANALYTE	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.55 U	UG/G	03/17/97	1.0
BARIUM	2.00	18.6	UG/G	03/17/97	1.0
CADMIUM	0.500	0.775 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	4.87	UG/G	03/17/97	1.0
LEAD	5.00	9.50	UG/G	03/17/97	1.0
MERCURY	0.150	0.233 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.775 U	UG/G	03/17/97	1.0
SILVER	1.00	1.55 U	UG/G	03/17/97	1.0
WET CHEMISTRY					
PERCENT SOLIDS	1.0	64.5	%	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-04

Date Sampled : 03/13/97 Order #: 135122 Sample Matrix: SOIL/SEDIMENT
 Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 64.5

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/17/97			
ANALYTICAL DILUTION: 125.0			Dry Weight
ACETONE	20	3900 U	UG/KG
BENZENE	5.0	970 U	UG/KG
BROMODICHLOROMETHANE	5.0	970 U	UG/KG
BROMOFORM	5.0	970 U	UG/KG
BROMOMETHANE	5.0	970 U	UG/KG
2-BUTANONE (MEK)	10	1900 U	UG/KG
CARBON DISULFIDE	10	1900 U	UG/KG
CARBON TETRACHLORIDE	5.0	970 U	UG/KG
CHLOROBENZENE	5.0	970 U	UG/KG
CHLOROETHANE	5.0	970 U	UG/KG
CHLOROFORM	5.0	970 U	UG/KG
CHLOROMETHANE	5.0	970 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	970 U	UG/KG
1,1-DICHLOROETHANE	5.0	970 U	UG/KG
1,2-DICHLOROETHANE	5.0	970 U	UG/KG
1,1-DICHLOROETHENE	5.0	970 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	970 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	970 U	UG/KG
1,2-DICHLOROPROPANE	5.0	970 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	970 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	970 U	UG/KG
ETHYLBENZENE	5.0	970 U	UG/KG
2-HEXANONE	10	1900 U	UG/KG
METHYLENE CHLORIDE	5.0	970 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1900 U	UG/KG
STYRENE	5.0	970 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	970 U	UG/KG
TETRACHLOROETHENE	5.0	970 U	UG/KG
TOLUENE	5.0	970 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	970 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	970 U	UG/KG
TRICHLOROETHENE	5.0	970 U	UG/KG
VINYL CHLORIDE	5.0	970 U	UG/KG
O-XYLENE	5.0	970 U	UG/KG
M+P-XYLENE	5.0	970 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(74 - 121 %)	109	%
TOLUENE-D8	(81 - 117 %)	104	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	99	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-04

Date Sampled : 03/13/97 Order #: 135122 Sample Matrix: SOIL/SEDIMENT
 Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 64.5

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 10.0			Dry Weight
ACENAPHTHENE	330	5100 U	UG/KG
ACENAPHTHYLENE	330	5100 U	UG/KG
ANTHRACENE	330	5100 U	UG/KG
BENZO (A) ANTHRACENE	330	5100 U	UG/KG
BENZO (A) PYRENE	330	5100 U	UG/KG
BENZO (B) FLUORANTHENE	330	5100 U	UG/KG
BENZO (G, H, I) PERYLENE	330	5100 U	UG/KG
BENZO (K) FLUORANTHENE	330	5100 U	UG/KG
BENZYL ALCOHOL	330	5100 U	UG/KG
BUTYL BENZYL PHTHALATE	330	5100 U	UG/KG
DI-N-BUTYLPHTHALATE	330	5100 U	UG/KG
CARBAZOLE	330	5100 U	UG/KG
INDENO (1, 2, 3-CD) PYRENE	330	5100 U	UG/KG
4-CHLOROANILINE	330	5100 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	5100 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	5100 U	UG/KG
2-CHLORONAPHTHALENE	330	5100 U	UG/KG
2-CHLOROPHENOL	670	10000 U	UG/KG
2, 2'-OXYBIS (1-CHLOROPROPANE)	330	5100 U	UG/KG
CHRYSENE	330	5100 U	UG/KG
DIBENZO (A, H) ANTHRACENE	330	5100 U	UG/KG
DIBENZOFURAN	330	5100 U	UG/KG
1, 3-DICHLOROBENZENE	330	5100 U	UG/KG
1, 2-DICHLOROBENZENE	330	5100 U	UG/KG
1, 4-DICHLOROBENZENE	330	5100 U	UG/KG
3, 3'-DICHLOROBENZIDINE	330	5100 U	UG/KG
2, 4-DICHLOROPHENOL	670	10000 U	UG/KG
DIETHYLPHTHALATE	330	5100 U	UG/KG
DIMETHYL PHTHALATE	330	5100 U	UG/KG
2, 4-DIMETHYLPHENOL	670	10000 U	UG/KG
2, 4-DINITROPHENOL	1300	20000 U	UG/KG
2, 4-DINITROTOLUENE	330	5100 U	UG/KG
2, 6-DINITROTOLUENE	330	5100 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	710000	UG/KG
FLUORANTHENE	330	5100 U	UG/KG
FLUORENE	330	5100 U	UG/KG
HEXACHLOROBENZENE	330	5100 U	UG/KG
HEXACHLOROBUTADIENE	330	5100 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	5100 U	UG/KG
HEXACHLOROETHANE	330	5100 U	UG/KG
ISOPHORONE	330	5100 U	UG/KG
2-METHYLNAPHTHALENE	670	10000 U	UG/KG
4, 6-DINITRO-2-METHYLPHENOL	1300	20000 U	UG/KG

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-04

Date Sampled : 03/13/97 Order #: 135122 Sample Matrix: SOIL/SEDIMENT
Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 64.5

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 10.0			Dry Weight
4-CHLORO-3-METHYLPHENOL	670	10000 U	UG/KG
2-METHYLPHENOL	670	10000 U	UG/KG
4-METHYLPHENOL	670	10000 U	UG/KG
NAPHTHALENE	330	5100 U	UG/KG
2-NITROANILINE	330	5100 U	UG/KG
3-NITROANILINE	330	5100 U	UG/KG
4-NITROANILINE	330	5100 U	UG/KG
NITROBENZENE	330	5100 U	UG/KG
2-NITROPHENOL	670	10000 U	UG/KG
4-NITROPHENOL	1300	20000 U	UG/KG
N-NITROSODIMETHYLAMINE	330	5100 U	UG/KG
N-NITROSODIPHENYLAMINE	330	5100 U	UG/KG
DI-N-OCTYL PHTHALATE	330	340000	UG/KG
PENTACHLOROPHENOL	1300	20000 U	UG/KG
PHENANTHRENE	330	5100 U	UG/KG
PHENOL	670	10000 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	5100 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	5100 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	5100 U	UG/KG
PYRENE	330	5100 U	UG/KG
1,2,4-TRICHLOROBENZENE	330	5100 U	UG/KG
2,4,6-TRICHLOROPHENOL	670	10000 U	UG/KG
2,4,5-TRICHLOROPHENOL	670	10000 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

TERPHENYL-d14	(18 - 137 %)	117	%
NITROBENZENE-d5	(23 - 120 %)	105	%
PHENOL-d6	(24 - 113 %)	105	%
2-FLUOROBIPHENYL	(30 - 115 %)	104	%
2-FLUOROPHENOL	(25 - 121 %)	111	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	32	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-04

Date Sampled : 03/13/97 Order #: 135122 Sample Matrix: SOIL/SEDIMENT
Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 64.5

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 100.0			DRY WEIGHT
PCB 1016	400	62000 U	UG/KG
PCB 1221	400	62000 U	UG/KG
PCB 1232	400	62000 U	UG/KG
PCB 1242	400	62000 U	UG/KG
PCB 1248	400	62000 U	UG/KG
PCB 1254	400	62000 U	UG/KG
PCB 1260	400	280000	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150)	D	%
TETRACHLORO-META-XYLENE	(30 - 150)	D	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-T-010

Date Sampled : 03/13/97

Order #: 135124

Sample Matrix: WIPE

Date Received: 03/14/97

Submission #: 9703000195

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	0.00100	12.1	UG/WIPE	03/17/97	2.0
BARIUM	1.00	2010	UG/WIPE	03/17/97	2.0
CADMIUM	0.250	60.9	UG/WIPE	03/17/97	2.0
CHROMIUM	0.500	552	UG/WIPE	03/17/97	2.0
LEAD	0.250	2070	UG/WIPE	03/17/97	2.0
MERCURY	0.0300	0.157	UG/WIPE	03/17/97	2.0
SELENIUM	0.000500	4.78	UG/WIPE	03/17/97	2.0
SILVER	0.500	8.45	UG/WIPE	03/17/97	2.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SS-02

Date Sampled : 03/13/97 Order #: 135125 Sample Matrix: SOLID
Date Received: 03/14/97 Submission #: 9703000195 Analytical Run 15671

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/14/97		
DATE ANALYZED	: 03/15/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	2000	UG/KG

SURROGATE RECOVERIESQC LIMITS

DECACHLOROBIPHENYL
TETRACHLORO-META-XYLENE

(30 - 150 %)
(30 - 150 %)

93 %
104 %

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-SD-03

Date Sampled : 03/13/97

Order #: 135126

Sample Matrix: SOIL/SEDIMENT

Date Received: 03/14/97

Submission #:9703000195

ANALYTE	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.44 U	UG/G	03/17/97	1.0
BARIUM	2.00	141	UG/G	03/18/97	10.0
CADMIUM	0.500	0.722 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	13.8	UG/G	03/17/97	1.0
LEAD	5.00	152	UG/G	03/17/97	1.0
MERCURY	0.150	0.216 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.722 U	UG/G	03/17/97	1.0
SILVER	1.00	1.44 U	UG/G	03/17/97	1.0
WET CHEMISTRY					
PERCENT SOLIDS	1.0	69.3	%	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-03

Date Sampled : 03/13/97 Order #: 135126 Sample Matrix: SOIL/SEDIMENT
Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 69.3

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/17/97			
ANALYTICAL DILUTION: 500.0			Dry Weight
ACETONE	20	14000 U	UG/KG
BENZENE	5.0	3600 U	UG/KG
BROMODICHLOROMETHANE	5.0	3600 U	UG/KG
BROMOFORM	5.0	3600 U	UG/KG
BROMOMETHANE	5.0	3600 U	UG/KG
2-BUTANONE (MEK)	10	7200 U	UG/KG
CARBON DISULFIDE	10	7200 U	UG/KG
CARBON TETRACHLORIDE	5.0	3600 U	UG/KG
CHLOROBENZENE	5.0	65000	UG/KG
CHLOROETHANE	5.0	3600 U	UG/KG
CHLOROFORM	5.0	3600 U	UG/KG
CHLOROMETHANE	5.0	3600 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	3600 U	UG/KG
1,1-DICHLOROETHANE	5.0	3600 U	UG/KG
1,2-DICHLOROETHANE	5.0	3600 U	UG/KG
1,1-DICHLOROETHENE	5.0	3600 U	UG/K
CIS-1,2-DICHLOROETHENE	5.0	3600 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	3600 U	UG/KG
1,2-DICHLOROPROPANE	5.0	3600 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	3600 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	3600 U	UG/KG
ETHYLBENZENE	5.0	3600 U	UG/KG
2-HEXANONE	10	7200 U	UG/KG
METHYLENE CHLORIDE	5.0	3600 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	7200 U	UG/KG
STYRENE	5.0	3600 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	3600 U	UG/KG
TETRACHLOROETHENE	5.0	3600 U	UG/KG
TOLUENE	5.0	3600 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	3600 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	3600 U	UG/KG
TRICHLOROETHENE	5.0	3600 U	UG/KG
VINYL CHLORIDE	5.0	3600 U	UG/KG
O-XYLENE	5.0	3600 U	UG/KG
M+P-XYLENE	5.0	3600 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(74 - 121 %)	105	%
TOLUENE-D8	(81 - 117 %)	101	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	96	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-03

Date Sampled : 03/13/97 Order #: 135126 Sample Matrix: SOIL/SEDIMENT
Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 69.3

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 10.0			Dry Weight
ACENAPHTHENE	330	4800 U	UG/KG
ACENAPHTHYLENE	330	4800 U	UG/KG
ANTHRACENE	330	4800 U	UG/KG
BENZO(A)ANTHRACENE	330	4800 U	UG/KG
BENZO(A)PYRENE	330	4800 U	UG/KG
BENZO(B)FLUORANTHENE	330	4800 U	UG/KG
BENZO(G,H,I)PERYLENE	330	4800 U	UG/KG
BENZO(K)FLUORANTHENE	330	4800 U	UG/KG
BENZYL ALCOHOL	330	4800 U	UG/KG
BUTYL BENZYL PHTHALATE	330	4800 U	UG/KG
DI-N-BUTYLPHTHALATE	330	4800 U	UG/KG
CARBAZOLE	330	4800 U	UG/KG
INDENO(1,2,3-CD)PYRENE	330	4800 U	UG/KG
4-CHLOROANILINE	330	4800 U	UG/KG
BIS(-2-CHLOROETHOXY)METHANE	330	4800 U	UG/KG
BIS(2-CHLOROETHYL)ETHER	330	4800 U	UG/KG
2-CHLORONAPHTHALENE	330	4800 U	UG/KG
2-CHLOROPHENOL	670	9700 U	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	330	4800 U	UG/KG
CHRYSENE	330	4800 U	UG/KG
DIBENZO(A,H)ANTHRACENE	330	4800 U	UG/KG
DIBENZOFURAN	330	4800 U	UG/KG
1,3-DICHLOROBENZENE	330	4800 U	UG/KG
1,2-DICHLOROBENZENE	330	4800 U	UG/KG
1,4-DICHLOROBENZENE	330	4800 U	UG/KG
3,3'-DICHLOROBENZIDINE	330	4800 U	UG/KG
2,4-DICHLOROPHENOL	670	9700 U	UG/KG
DIETHYLPHTHALATE	330	4800 U	UG/KG
DIMETHYL PHTHALATE	330	4800 U	UG/KG
2,4-DIMETHYLPHENOL	670	9700 U	UG/KG
2,4-DINITROPHENOL	1300	19000 U	UG/KG
2,4-DINITROTOLUENE	330	4800 U	UG/KG
2,6-DINITROTOLUENE	330	4800 U	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	330	1700000	UG/KG
FLUORANTHENE	330	4800 U	UG/KG
FLUORENE	330	4800 U	UG/KG
HEXACHLOROBENZENE	330	4800 U	UG/KG
HEXACHLOROBUTADIENE	330	4800 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	4800 U	UG/KG
HEXACHLOROETHANE	330	4800 U	UG/KG
ISOPHORONE	330	4800 U	UG/KG
2-METHYLNAPHTHALENE	670	9700 U	UG/KG
4,6-DINITRO-2-METHYLPHENOL	1300	19000 U	UG/KG

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-03

Date Sampled : 03/13/97 Order #: 135126 Sample Matrix: SOIL/SEDIMENT
Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 69.3

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 10.0			Dry Weight
4-CHLORO-3-METHYLPHENOL	670	9700 U	UG/KG
2-METHYLPHENOL	670	9700 U	UG/KG
4-METHYLPHENOL	670	9700 U	UG/KG
NAPHTHALENE	330	4800 U	UG/KG
2-NITROANILINE	330	4800 U	UG/KG
3-NITROANILINE	330	4800 U	UG/KG
4-NITROANILINE	330	4800 U	UG/KG
NITROBENZENE	330	4800 U	UG/KG
2-NITROPHENOL	670	9700 U	UG/KG
4-NITROPHENOL	1300	19000 U	UG/KG
N-NITROSODIMETHYLAMINE	330	4800 U	UG/KG
N-NITROSODIPHENYLAMINE	330	4800 U	UG/KG
DI-N-OCTYL PHTHALATE	330	4800 U	UG/KG
PENTACHLOROPHENOL	1300	19000 U	UG/KG
PHENANTHRENE	330	4800 U	UG/K
PHENOL	670	9700 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	4800 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	4800 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	4800 U	UG/KG
PYRENE	330	4800 U	UG/KG
1,2,4-TRICHLOROBENZENE	330	4800 U	UG/KG
2,4,6-TRICHLOROPHENOL	670	9700 U	UG/KG
2,4,5-TRICHLOROPHENOL	670	9700 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(18 - 137 %)	114	%
NITROBENZENE-d5	(23 - 120 %)	102	%
PHENOL-d6	(24 - 113 %)	98	%
2-FLUOROBIPHENYL	(30 - 115 %)	108	%
2-FLUOROPHENOL	(25 - 121 %)	113	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	29	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-03

Date Sampled : 03/13/97 Order #: 135126 Sample Matrix: SOIL/SEDIMENT
Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 69.3

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 1.0			DRY WEIGHT
PCB 1016	400	580 U	UG/KG
PCB 1221	400	580 U	UG/KG
PCB 1232	400	580 U	UG/KG
PCB 1242	400	580 U	UG/KG
PCB 1248	400	580 U	UG/KG
PCB 1254	400	580 U	UG/KG
PCB 1260	400	580 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150)	40	%
TETRACHLORO-META-XYLENE	(30 - 150)	79	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-PE-03

Date Sampled : 03/13/97

Order #: 135127

Sample Matrix: SOIL/SEDIMENT

Date Received: 03/14/97

Submission #:9703000195

ANALYTE	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.01 U	UG/G	03/17/97	1.0
BARIUM	2.00	2.13	UG/G	03/17/97	1.0
CADMIUM	0.500	0.506 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	2.40	UG/G	03/17/97	1.0
LEAD	5.00	5.06 U	UG/G	03/17/97	1.0
MERCURY	0.150	0.152 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.506 U	UG/G	03/17/97	1.0
SILVER	1.00	1.01 U	UG/G	03/17/97	1.0
WET CHEMISTRY					
PERCENT SOLIDS	1.0	98.9	%	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-PE-03

Date Sampled : 03/13/97 Order #: 135127 Sample Matrix: SOIL/SEDIMENT
 Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 98.9

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/17/97			
ANALYTICAL DILUTION: 125.0			Dry Weight
ACETONE	20	2500 U	UG/KG
BENZENE	5.0	630 U	UG/KG
BROMODICHLOROMETHANE	5.0	630 U	UG/KG
BROMOFORM	5.0	630 U	UG/KG
BROMOMETHANE	5.0	630 U	UG/KG
2-BUTANONE (MEK)	10	1300 U	UG/KG
CARBON DISULFIDE	10	1300 U	UG/KG
CARBON TETRACHLORIDE	5.0	630 U	UG/KG
CHLOROBENZENE	5.0	630 U	UG/KG
CHLOROETHANE	5.0	630 U	UG/KG
CHLOROFORM	5.0	630 U	UG/KG
CHLOROMETHANE	5.0	630 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHANE	5.0	630 U	UG/KG
1,2-DICHLOROETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHENE	5.0	630 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
1,2-DICHLOROPROPANE	5.0	630 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
ETHYLBENZENE	5.0	630 U	UG/KG
2-HEXANONE	10	1300 U	UG/KG
METHYLENE CHLORIDE	5.0	630 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1300 U	UG/KG
STYRENE	5.0	630 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	630 U	UG/KG
TETRACHLOROETHENE	5.0	630 U	UG/KG
TOLUENE	5.0	630 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	630 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	630 U	UG/KG
TRICHLOROETHENE	5.0	630 U	UG/KG
VINYL CHLORIDE	5.0	630 U	UG/KG
O-XYLENE	5.0	630 U	UG/KG
M+P-XYLENE	5.0	630 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(74 - 121 %)	90	%
TOLUENE-D8	(81 - 117 %)	100	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	99	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8080 PCBS

Reported: 03/25/97

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-PE-03

Date Sampled : 03/13/97 Order #: 135127 Sample Matrix: SOIL/SEDIMENT
Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 98.9

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/14/97		
DATE ANALYZED	: 03/16/97		
ANALYTICAL DILUTION:	1.0		DRY WEIGHT
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>
DECACHLOROBIPHENYL	(30 - 150)
TETRACHLORO-META-XYLENE	(30 - 150)

* %
87 %

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SS-01

Date Sampled : 03/13/97 Order #: 135128 Sample Matrix: SOLID
Date Received: 03/14/97 Submission #: 9703000195 Analytical Run 15671

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/14/97		
DATE ANALYZED	: 03/16/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	1100	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	88	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	116	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-SD-05

Date Sampled : 03/13/97

Order #: 135129

Sample Matrix: SOIL/SEDIMENT

Date Received: 03/14/97

Submission #:9703000195

ANALYTE	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.68 U	UG/G	03/17/97	1.0
BARIUM	2.00	30.5	UG/G	03/17/97	1.0
CADMIUM	0.500	0.842 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	10.4	UG/G	03/17/97	1.0
LEAD	5.00	8.42 U	UG/G	03/17/97	1.0
MERCURY	0.150	0.253 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.842 U	UG/G	03/17/97	1.0
SILVER	1.00	1.68 U	UG/G	03/17/97	1.0
WET CHEMISTRY					
PERCENT SOLIDS	1.0	59.4	%	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-05

Date Sampled : 03/13/97 Order #: 135129 Sample Matrix: SOIL/SEDIMENT
 Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 59.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/17/97			
ANALYTICAL DILUTION: 125.0			Dry Weight
ACETONE	20	4200 U	UG/KG
BENZENE	5.0	1100 U	UG/KG
BROMODICHLOROMETHANE	5.0	1100 U	UG/KG
BROMOFORM	5.0	1100 U	UG/KG
BROMOMETHANE	5.0	1100 U	UG/KG
2-BUTANONE (MEK)	10	2100 U	UG/KG
CARBON DISULFIDE	10	2100 U	UG/KG
CARBON TETRACHLORIDE	5.0	1100 U	UG/KG
CHLOROBENZENE	5.0	1100 U	UG/KG
CHLOROETHANE	5.0	1100 U	UG/KG
CHLOROFORM	5.0	1100 U	UG/KG
CHLOROMETHANE	5.0	1100 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	1100 U	UG/KG
1,1-DICHLOROETHANE	5.0	1100 U	UG/KG
1,2-DICHLOROETHANE	5.0	1100 U	UG/KG
1,1-DICHLOROETHENE	5.0	1100 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	1100 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	1100 U	UG/KG
1,2-DICHLOROPROPANE	5.0	1100 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	1100 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	1100 U	UG/KG
ETHYLBENZENE	5.0	1100 U	UG/KG
2-HEXANONE	10	2100 U	UG/KG
METHYLENE CHLORIDE	5.0	1100 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	2100 U	UG/KG
STYRENE	5.0	1100 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	1100 U	UG/KG
TETRACHLOROETHENE	5.0	1100 U	UG/KG
TOLUENE	5.0	1100 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	1100 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	1100 U	UG/KG
TRICHLOROETHENE	5.0	1100 U	UG/KG
VINYL CHLORIDE	5.0	1100 U	UG/KG
O-XYLENE	5.0	1100 U	UG/KG
M+P-XYLENE	5.0	1100 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(74 - 121 %)	110	%
TOLUENE-D8	(81 - 117 %)	101	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	104	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-05

Date Sampled : 03/13/97 Order #: 135129 Sample Matrix: SOIL/SEDIMENT
 Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 59.4

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/16/97			
ANALYTICAL DILUTION: 10.0			Dry Weight
ACENAPHTHENE	330	5600 U	UG/KG
ACENAPHTHYLENE	330	5600 U	UG/KG
ANTHRACENE	330	640000	UG/KG
BENZO (A) ANTHRACENE	330	3200000	UG/KG
BENZO (A) PYRENE	330	5600 U	UG/KG
BENZO (B) FLUORANTHENE	330	5600 U	UG/KG
BENZO (G, H, I) PERYLENE	330	5600 U	UG/KG
BENZO (K) FLUORANTHENE	330	5600 U	UG/KG
BENZYL ALCOHOL	330	5600 U	UG/KG
BUTYL BENZYL PHTHALATE	330	5600 U	UG/KG
DI-N-BUTYLPHTHALATE	330	5600 U	UG/KG
CARBAZOLE	330	5600 U	UG/KG
INDENO (1, 2, 3-CD) PYRENE	330	5600 U	UG/KG
4-CHLOROANILINE	330	5600 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	5600 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	5600 U	UG/KG
2-CHLORONAPHTHALENE	330	5600 U	UG/KG
2-CHLOROPHENOL	670	11000 U	UG/KG
2, 2'-OXYBIS (1-CHLOROPROPANE)	330	5600 U	UG/KG
CHRYSENE	330	3000000	UG/KG
DIBENZO (A, H) ANTHRACENE	330	5600 U	UG/KG
DIBENZOFURAN	330	5600 U	UG/KG
1, 3-DICHLOROBENZENE	330	5600 U	UG/KG
1, 2-DICHLOROBENZENE	330	5600 U	UG/KG
1, 4-DICHLOROBENZENE	330	5600 U	UG/KG
3, 3'-DICHLOROBENZIDINE	330	5600 U	UG/KG
2, 4-DICHLOROPHENOL	670	11000 U	UG/KG
DIETHYLPHTHALATE	330	5600 U	UG/KG
DIMETHYL PHTHALATE	330	5600 U	UG/KG
2, 4-DIMETHYLPHENOL	670	11000 U	UG/KG
2, 4-DINITROPHENOL	1300	22000 U	UG/KG
2, 4-DINITROTOLUENE	330	5600 U	UG/KG
2, 6-DINITROTOLUENE	330	5600 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	5600 U	UG/KG
FLUORANTHENE	330	5100000	UG/KG
FLUORENE	330	5600 U	UG/KG
HEXACHLOROBENZENE	330	5600 U	UG/KG
HEXACHLOROBUTADIENE	330	5600 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	5600 U	UG/KG
HEXACHLOROETHANE	330	5600 U	UG/KG
ISOPHORONE	330	5600 U	UG/KG
2-METHYLNAPHTHALENE	670	11000 U	UG/KG
4, 6-DINITRO-2-METHYLPHENOL	1300	22000 U	UG/KG

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-05

Date Sampled : 03/13/97 Order #: 135129 Sample Matrix: SOIL/SEDIMENT
 Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 59.4

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/16/97			
ANALYTICAL DILUTION: 10.0			Dry Weight
4-CHLORO-3-METHYLPHENOL	670	11000 U	UG/KG
2-METHYLPHENOL	670	11000 U	UG/KG
4-METHYLPHENOL	670	11000 U	UG/KG
NAPHTHALENE	330	5600 U	UG/KG
2-NITROANILINE	330	5600 U	UG/KG
3-NITROANILINE	330	5600 U	UG/KG
4-NITROANILINE	330	5600 U	UG/KG
NITROBENZENE	330	5600 U	UG/KG
2-NITROPHENOL	670	11000 U	UG/KG
4-NITROPHENOL	1300	22000 U	UG/KG
N-NITROSODIMETHYLAMINE	330	5600 U	UG/KG
N-NITROSODIPHENYLAMINE	330	5600 U	UG/KG
DI-N-OCTYL PHTHALATE	330	5600 U	UG/KG
PENTACHLOROPHENOL	1300	22000 U	UG/KG
PHENANTHRENE	330	2200000	UG/KG
PHENOL	670	11000 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	5600 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	5600 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	5600 U	UG/KG
PYRENE	330	5100000	UG/KG
1,2,4-TRICHLOROBENZENE	330	5600 U	UG/KG
2,4,6-TRICHLOROPHENOL	670	11000 U	UG/KG
2,4,5-TRICHLOROPHENOL	670	11000 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(18 - 137 %)	107	%
NITROBENZENE-d5	(23 - 120 %)	104	%
PHENOL-d6	(24 - 113 %)	99	%
2-FLUOROBIPHENYL	(30 - 115 %)	108	%
2-FLUOROPHENOL	(25 - 121 %)	110	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	30	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-05

Date Sampled : 03/13/97 Order #: 135129 Sample Matrix: SOIL/SEDIMENT
Date Received: 03/14/97 Submission #: 9703000195 Percent Solid: 59.4

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/16/97			
ANALYTICAL DILUTION: 1.0			DRY WEIGHT
PCB 1016	400	670 U	UG/KG
PCB 1221	400	670 U	UG/KG
PCB 1232	400	670 U	UG/KG
PCB 1242	400	670 U	UG/KG
PCB 1248	400	670 U	UG/KG
PCB 1254	400	670 U	UG/KG
PCB 1260	400	670 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150)	101	%
TETRACHLORO-META-XYLENE	(30 - 150)	117	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-PE-02

Date Sampled : 03/13/97

Date Received: 03/14/97

Order #: 135130

Submission #:9703000195

Sample Matrix: SOLID

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.12	UG/G	03/17/97	1.0
BARIUM	2.00	18.5	UG/G	03/17/97	1.0
CADMIUM	0.500	0.959	UG/G	03/17/97	1.0
CHROMIUM	1.00	11.0	UG/G	03/17/97	1.0
LEAD	5.00	10.3	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.963	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-PE-02

Date Sampled : 03/13/97 Order #: 135130 Sample Matrix: SOLID
 Date Received: 03/14/97 Submission #: 9703000195 Analytical Run 15746

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/17/97			
ANALYTICAL DILUTION: 125.0			
ACETONE	20	2500 U	UG/KG
BENZENE	5.0	630 U	UG/KG
BROMODICHLOROMETHANE	5.0	630 U	UG/KG
BROMOFORM	5.0	630 U	UG/KG
BROMOMETHANE	5.0	630 U	UG/KG
2-BUTANONE (MEK)	10	1300 U	UG/KG
CARBON DISULFIDE	10	1300 U	UG/KG
CARBON TETRACHLORIDE	5.0	630 U	UG/KG
CHLOROBENZENE	5.0	630 U	UG/KG
CHLOROETHANE	5.0	630 U	UG/KG
CHLOROFORM	5.0	630 U	UG/KG
CHLOROMETHANE	5.0	630 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHANE	5.0	630 U	UG/KG
1,2-DICHLOROETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHENE	5.0	630 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
1,2-DICHLOROPROPANE	5.0	630 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
ETHYLBENZENE	5.0	630 U	UG/KG
2-HEXANONE	10	1300 U	UG/KG
METHYLENE CHLORIDE	5.0	630 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1300 U	UG/KG
STYRENE	5.0	630 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	630 U	UG/KG
TETRACHLOROETHENE	5.0	630 U	UG/KG
TOLUENE	5.0	630 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	630 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	630 U	UG/KG
TRICHLOROETHENE	5.0	630 U	UG/KG
VINYL CHLORIDE	5.0	630 U	UG/KG
O-XYLENE	5.0	630 U	UG/KG
M+P-XYLENE	5.0	630 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(74 - 121 %)	97	%
TOLUENE-D8	(81 - 117 %)	100	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	101	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-PE-07

Date Sampled : 03/13/97

Order #: 135131

Sample Matrix: SOLID

Date Received: 03/14/97

Submission #:9703000195

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	34.5	UG/G	03/17/97	1.0
CADMIUM	0.500	5.07	UG/G	03/17/97	1.0
CHROMIUM	1.00	11.0	UG/G	03/17/97	1.0
LEAD	5.00	33.1	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	1.65	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-PE-07

Date Sampled : 03/13/97 Order #: 135131 Sample Matrix: SOLID
 Date Received: 03/14/97 Submission #: 9703000195 Analytical Run 15746

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 2000.0			
ACETONE	20	40000 U	UG/KG
BENZENE	5.0	10000 U	UG/KG
BROMODICHLOROMETHANE	5.0	10000 U	UG/KG
BROMOFORM	5.0	10000 U	UG/KG
BROMOMETHANE	5.0	10000 U	UG/KG
2-BUTANONE (MEK)	10	20000 U	UG/KG
CARBON DISULFIDE	10	20000 U	UG/KG
CARBON TETRACHLORIDE	5.0	10000 U	UG/KG
CHLOROBENZENE	5.0	10000 U	UG/KG
CHLOROETHANE	5.0	10000 U	UG/KG
CHLOROFORM	5.0	10000 U	UG/KG
CHLOROMETHANE	5.0	10000 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	10000 U	UG/KG
1,1-DICHLOROETHANE	5.0	10000 U	UG/KG
1,2-DICHLOROETHANE	5.0	10000 U	UG/KG
1,1-DICHLOROETHENE	5.0	10000 U	UG/K
CIS-1,2-DICHLOROETHENE	5.0	10000 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	10000 U	UG/KG
1,2-DICHLOROPROPANE	5.0	10000 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	10000 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	10000 U	UG/KG
ETHYLBENZENE	5.0	10000 U	UG/KG
2-HEXANONE	10	20000 U	UG/KG
METHYLENE CHLORIDE	5.0	10000 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	20000 U	UG/KG
STYRENE	5.0	10000 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	10000 U	UG/KG
TETRACHLOROETHENE	5.0	10000 U	UG/KG
TOLUENE	5.0	330000	UG/KG
1,1,1-TRICHLOROETHANE	5.0	10000 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	10000 U	UG/KG
TRICHLOROETHENE	5.0	10000 U	UG/KG
VINYL CHLORIDE	5.0	10000 U	UG/KG
O-XYLENE	5.0	40000	UG/KG
M+P-XYLENE	5.0	53000	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(74 - 121 %)	93	%
TOLUENE-D8	(81 - 117 %)	95	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	95	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-PE-01

Date Sampled : 03/13/97

Order #: 135132

Sample Matrix: SOLID

Date Received: 03/14/97

Submission #:9703000195

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	30.7	UG/G	03/17/97	1.0
BARIUM	2.00	268	UG/G	03/17/97	1.0
CADMIUM	0.500	34.9	UG/G	03/17/97	1.0
CHROMIUM	1.00	721	UG/G	03/17/97	1.0
LEAD	5.00	659	UG/G	03/17/97	1.0
MERCURY	0.150	0.428	UG/G	03/17/97	1.0
SELENIUM	0.500	10.7	UG/G	03/17/97	1.0
SILVER	1.00	24.0	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-PE-01

Date Sampled : 03/13/97 Order #: 135132 Sample Matrix: SOLID
 Date Received: 03/14/97 Submission #: 9703000195 Analytical Run 15746

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 125.0			
ACETONE	20	2500 U	UG/KG
BENZENE	5.0	630 U	UG/KG
BROMODICHLOROMETHANE	5.0	630 U	UG/KG
BROMOFORM	5.0	630 U	UG/KG
BROMOMETHANE	5.0	630 U	UG/KG
2-BUTANONE (MEK)	10	1300 U	UG/KG
CARBON DISULFIDE	10	1300 U	UG/KG
CARBON TETRACHLORIDE	5.0	630 U	UG/KG
CHLOROBENZENE	5.0	630 U	UG/KG
CHLOROETHANE	5.0	630 U	UG/KG
CHLOROFORM	5.0	630 U	UG/KG
CHLOROMETHANE	5.0	630 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHANE	5.0	630 U	UG/KG
1,2-DICHLOROETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHENE	5.0	630 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
1,2-DICHLOROPROPANE	5.0	630 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
ETHYLBENZENE	5.0	630 U	UG/KG
2-HEXANONE	10	1300 U	UG/KG
METHYLENE CHLORIDE	5.0	630 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1300 U	UG/KG
STYRENE	5.0	630 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	630 U	UG/KG
TETRACHLOROETHENE	5.0	630 U	UG/KG
TOLUENE	5.0	630 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	630 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	630 U	UG/KG
TRICHLOROETHENE	5.0	630 U	UG/KG
VINYL CHLORIDE	5.0	630 U	UG/KG
O-XYLENE	5.0	630 U	UG/KG
M+P-XYLENE	5.0	630 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(74 - 121 %)	99	%
TOLUENE-D8	(81 - 117 %)	103	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	103	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-CC-10

Date Sampled : 03/13/97

Order #: 135133

Sample Matrix: SOLID

Date Received: 03/14/97

Submission #:9703000195

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	133	UG/G	03/17/97	1.0
CADMIUM	0.500	0.500 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	19.0	UG/G	03/17/97	1.0
LEAD	5.00	7.68	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.716	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-CC-10

Date Sampled : 03/13/97 Order #: 135133 Sample Matrix: SOLID
Date Received: 03/14/97 Submission #: 9703000195 Analytical Run 15671

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/14/97		
DATE ANALYZED	: 03/16/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	71	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	95	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-CC-13

Date Sampled : 03/13/97

Date Received: 03/14/97

Order #: 135134

Submission #:9703000195

Sample Matrix: SOLID

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	46.3	UG/G	03/17/97	1.0
CADMIUM	0.500	0.500 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	22.3	UG/G	03/17/97	1.0
LEAD	5.00	5.00 U	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.767	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-CC-13

Date Sampled : 03/13/97 Order #: 135134 Sample Matrix: SOLID
Date Received: 03/14/97 Submission #: 9703000195 Analytical Run 15671

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/14/97		
DATE ANALYZED	: 03/16/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	97	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	111	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-CC-04

Date Sampled : 03/13/97

Order #: 135135

Sample Matrix: SOLID

Date Received: 03/14/97

Submission #:9703000195

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	2.65	UG/G	03/17/97	1.0
BARIUM	2.00	43.6	UG/G	03/17/97	1.0
CADMIUM	0.500	0.500 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	14.6	UG/G	03/17/97	1.0
LEAD	5.00	5.00 U	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-CC-04

Date Sampled : 03/13/97 Order #: 135135 Sample Matrix: SOLID
Date Received: 03/14/97 Submission #: 9703000195 Analytical Run 15671

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/14/97		
DATE ANALYZED	: 03/16/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	114	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	113	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-CC-03

Date Sampled : 03/13/97

Order #: 135136

Sample Matrix: SOLID

Date Received: 03/14/97

Submission #:9703000195

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	53.8	UG/G	03/17/97	1.0
CADMIUM	0.500	0.500 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	11.0	UG/G	03/17/97	1.0
LEAD	5.00	5.00 U	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-CC-03

Date Sampled : 03/13/97 Order #: 135136 Sample Matrix: SOLID
Date Received: 03/14/97 Submission #: 9703000195 Analytical Run 15671

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/14/97		
DATE ANALYZED	: 03/16/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	106	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	110	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-CC-07

Date Sampled : 03/12/97

Order #: 135137

Sample Matrix: SOLID

Date Received: 03/14/97

Submission #: 9703000195

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	2.41	UG/G	03/17/97	1.0
BARIUM	2.00	74.8	UG/G	03/17/97	1.0
CADMIUM	0.500	0.500 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	13.8	UG/G	03/17/97	1.0
LEAD	5.00	8.03	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0
WET CHEMISTRY					
TOTAL CYANIDE	1.00	1.00 U	UG/G	03/18/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-CC-07

Date Sampled : 03/12/97 Order #: 135137 Sample Matrix: SOLID
Date Received: 03/14/97 Submission #: 9703000195 Analytical Run 15671

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/14/97		
DATE ANALYZED	: 03/16/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	101	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	108	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-CC-05

Date Sampled : 03/13/97

Order #: 135138

Sample Matrix: SOLID

Date Received: 03/14/97

Submission #:9703000195

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	32.8	UG/G	03/17/97	1.0
CADMIUM	0.500	0.500 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	7.27	UG/G	03/17/97	1.0
LEAD	5.00	5.00 U	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	1.38	UG/G	03/17/97	1.0

COLUMBIA ANALYTICAL SERVICESEXTRACTABLE ORGANICS
METHOD 8080 PCBS
Reported: 03/25/97

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-CC-05

Date Sampled : 03/13/97 Order #: 135138 Sample Matrix: SOLID
Date Received: 03/14/97 Submission #: 9703000195 Analytical Run 15671

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/14/97		
DATE ANALYZED	: 03/16/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	83	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	98	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-CC-08

Date Sampled : 03/13/97

Order #: 135139

Sample Matrix: SOLID

Date Received: 03/14/97

Submission #:9703000195

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	2.58	UG/G	03/17/97	1.0
BARIUM	2.00	47.2	UG/G	03/17/97	1.0
CADMIUM	0.500	0.500 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	21.9	UG/G	03/17/97	1.0
LEAD	5.00	5.00 U	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	1.11	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-CC-08

Date Sampled : 03/13/97 Order #: 135139 Sample Matrix: SOLID
Date Received: 03/14/97 Submission #: 9703000195 Analytical Run 15671

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/14/97		
DATE ANALYZED	: 03/16/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	111	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	113	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-CC-11

Date Sampled : 03/13/97

Date Received: 03/14/97

Order #: 135140

Submission #:9703000195

Sample Matrix: SOLID

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.11	UG/G	03/17/97	1.0
BARIUM	2.00	40.3	UG/G	03/17/97	1.0
CADMIUM	0.500	0.500 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	27.9	UG/G	03/17/97	1.0
LEAD	5.00	5.00 U	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.527	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-CC-11

Date Sampled : 03/13/97 Order #: 135140 Sample Matrix: SOLID
Date Received: 03/14/97 Submission #: 9703000195 Analytical Run 15671

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/16/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	91	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	104	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-CC-06

Date Sampled : 03/13/97
Date Received: 03/14/97Order #: 135141
Submission #:9703000195

Sample Matrix: SOLID

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.30	UG/G	03/17/97	1.0
BARIUM	2.00	69.3	UG/G	03/17/97	1.0
CADMIUM	0.500	9.96	UG/G	03/17/97	1.0
CHROMIUM	1.00	55.7	UG/G	03/17/97	1.0
LEAD	5.00	51.6	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	21.6	UG/G	03/17/97	1.0

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8080 PCBS

Reported: 03/25/97

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-CC-06

Date Sampled : 03/13/97 Order #: 135141 Sample Matrix: SOLID
Date Received: 03/14/97 Submission #: 9703000195 Analytical Run 15671

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/16/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	107	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	109	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/25/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-CC-01

Date Sampled : 03/13/97

Order #: 135142

Sample Matrix: SOLID

Date Received: 03/14/97

Submission #:9703000195

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	71.5	UG/G	03/17/97	1.0
CADMIUM	0.500	0.500 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	13.3	UG/G	03/17/97	1.0
LEAD	5.00	5.00 U	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-CC-01

Date Sampled : 03/13/97 Order #: 135142 Sample Matrix: SOLID
Date Received: 03/14/97 Submission #: 9703000195 Analytical Run 15672

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/14/97		
DATE ANALYZED	: 03/16/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

DECACHLOROBIPHENYL
TETRACHLORO-META-XYLENE

(30 - 150 %)
(30 - 150 %)

110 %
110 %

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 136039	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15746

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/17/97			
ANALYTICAL DILUTION: 125.0			
ACETONE	20	2500 U	UG/KG
BENZENE	5.0	630 U	UG/KG
BROMODICHLOROMETHANE	5.0	630 U	UG/KG
BROMOFORM	5.0	630 U	UG/KG
BROMOMETHANE	5.0	630 U	UG/KG
2-BUTANONE (MEK)	10	1300 U	UG/KG
CARBON DISULFIDE	10	1300 U	UG/KG
CARBON TETRACHLORIDE	5.0	630 U	UG/KG
CHLOROBENZENE	5.0	630 U	UG/KG
CHLOROETHANE	5.0	630 U	UG/KG
CHLOROFORM	5.0	630 U	UG/KG
CHLOROMETHANE	5.0	630 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHANE	5.0	630 U	UG/KG
1,2-DICHLOROETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHENE	5.0	630 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
1,2-DICHLOROPROPANE	5.0	630 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
ETHYLBENZENE	5.0	630 U	UG/KG
2-HEXANONE	10	1300 U	UG/KG
METHYLENE CHLORIDE	5.0	630 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1300 U	UG/KG
STYRENE	5.0	630 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	630 U	UG/KG
TETRACHLOROETHENE	5.0	630 U	UG/KG
TOLUENE	5.0	630 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	630 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	630 U	UG/KG
TRICHLOROETHENE	5.0	630 U	UG/KG
VINYL CHLORIDE	5.0	630 U	UG/KG
O-XYLENE	5.0	630 U	UG/KG
M+P-XYLENE	5.0	630 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(74 - 121 %)	97	%
TOLUENE-D8	(81 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	99	%

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 136040	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15746

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 125.0			
ACETONE	20	2500 U	UG/KG
BENZENE	5.0	630 U	UG/KG
BROMODICHLOROMETHANE	5.0	630 U	UG/KG
BROMOFORM	5.0	630 U	UG/KG
BROMOMETHANE	5.0	630 U	UG/KG
2-BUTANONE (MEK)	10	1300 U	UG/KG
CARBON DISULFIDE	10	1300 U	UG/KG
CARBON TETRACHLORIDE	5.0	630 U	UG/KG
CHLOROBENZENE	5.0	630 U	UG/KG
CHLOROETHANE	5.0	630 U	UG/KG
CHLOROFORM	5.0	630 U	UG/KG
CHLOROMETHANE	5.0	630 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHANE	5.0	630 U	UG/KG
1,2-DICHLOROETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHENE	5.0	630 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	630 U	UG/K
TRANS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
1,2-DICHLOROPROPANE	5.0	630 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
ETHYLBENZENE	5.0	630 U	UG/KG
2-HEXANONE	10	1300 U	UG/KG
METHYLENE CHLORIDE	5.0	630 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1300 U	UG/KG
STYRENE	5.0	630 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	630 U	UG/KG
TETRACHLOROETHENE	5.0	630 U	UG/KG
TOLUENE	5.0	630 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	630 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	630 U	UG/KG
TRICHLOROETHENE	5.0	630 U	UG/KG
VINYL CHLORIDE	5.0	630 U	UG/KG
O-XYLENE	5.0	630 U	UG/KG
M+P-XYLENE	5.0	630 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(74 - 121 %)	97	%
TOLUENE-D8	(81 - 117 %)	102	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	100	%

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 135366	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15674

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 10.0			
ACENAPHTHENE	330	3300 U	UG/KG
ACENAPHTHYLENE	330	3300 U	UG/KG
ANTHRACENE	330	3300 U	UG/KG
BENZO (A) ANTHRACENE	330	3300 U	UG/KG
BENZO (A) PYRENE	330	3300 U	UG/KG
BENZO (B) FLUORANTHENE	330	3300 U	UG/KG
BENZO (G, H, I) PERYLENE	330	3300 U	UG/KG
BENZO (K) FLUORANTHENE	330	3300 U	UG/KG
BENZYL ALCOHOL	330	3300 U	UG/KG
BUTYL BENZYL PHTHALATE	330	3300 U	UG/KG
DI-N-BUTYLPHTHALATE	330	3300 U	UG/KG
CARBAZOLE	330	3300 U	UG/KG
INDENO (1, 2, 3-CD) PYRENE	330	3300 U	UG/KG
4-CHLOROANILINE	330	3300 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	3300 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	3300 U	UG/KG
2-CHLORONAPHTHALENE	330	3300 U	UG/KG
2-CHLOROPHENOL	670	6700 U	UG/KG
2, 2'-OXYBIS (1-CHLOROPROPANE)	330	3300 U	UG/KG
CHRYSENE	330	3300 U	UG/KG
DIBENZO (A, H) ANTHRACENE	330	3300 U	UG/KG
DIBENZOFURAN	330	3300 U	UG/KG
1, 3-DICHLOROBENZENE	330	3300 U	UG/KG
1, 2-DICHLOROBENZENE	330	3300 U	UG/KG
1, 4-DICHLOROBENZENE	330	3300 U	UG/KG
3, 3'-DICHLOROBENZIDINE	330	3300 U	UG/KG
2, 4-DICHLOROPHENOL	670	6700 U	UG/KG
DIETHYLPHTHALATE	330	3300 U	UG/KG
DIMETHYL PHTHALATE	330	3300 U	UG/KG
2, 4-DIMETHYLPHENOL	670	6700 U	UG/KG
2, 4-DINITROPHENOL	1300	13000 U	UG/KG
2, 4-DINITROTOLUENE	330	3300 U	UG/KG
2, 6-DINITROTOLUENE	330	3300 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	3300 U	UG/KG
FLUORANTHENE	330	3300 U	UG/KG
FLUORENE	330	3300 U	UG/KG
HEXACHLOROBENZENE	330	3300 U	UG/KG
HEXACHLOROBUTADIENE	330	3300 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	3300 U	UG/KG
HEXACHLOROETHANE	330	3300 U	UG/KG
ISOPHORONE	330	3300 U	UG/KG
2-METHYLNAPHTHALENE	670	6700 U	UG/KG
4, 6-DINITRO-2-METHYLPHENOL	1300	13000 U	UG/KG
4-CHLORO-3-METHYLPHENOL	670	6700 U	UG/KG

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 135366	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15674

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 10.0			
2-METHYLPHENOL	670	6700 U	UG/KG
4-METHYLPHENOL	670	6700 U	UG/KG
NAPHTHALENE	330	3300 U	UG/KG
2-NITROANILINE	330	3300 U	UG/KG
3-NITROANILINE	330	3300 U	UG/KG
4-NITROANILINE	330	3300 U	UG/KG
NITROBENZENE	330	3300 U	UG/KG
2-NITROPHENOL	670	6700 U	UG/KG
4-NITROPHENOL	1300	13000 U	UG/KG
N-NITROSODIMETHYLAMINE	330	3300 U	UG/KG
N-NITROSODIPHENYLAMINE	330	3300 U	UG/KG
DI-N-OCTYL PHTHALATE	330	3300 U	UG/KG
PENTACHLOROPHENOL	1300	13000 U	UG/KG
PHENANTHRENE	330	3300 U	UG/KG
PHENOL	670	6700 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	3300 U	UG/K
4-CHLOROPHENYL-PHENYLETHER	330	3300 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	3300 U	UG/KG
PYRENE	330	3300 U	UG/KG
1,2,4-TRICHLOROBENZENE	330	3300 U	UG/KG
2,4,6-TRICHLOROPHENOL	670	6700 U	UG/KG
2,4,5-TRICHLOROPHENOL	670	6700 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

TERPHENYL-d14	(18 - 137 %)	117	%
NITROBENZENE-d5	(23 - 120 %)	108	%
PHENOL-d6	(24 - 113 %)	110	%
2-FLUOROBIPHENYL	(30 - 115 %)	105	%
2-FLUOROPHENOL	(25 - 121 %)	121	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	34	%

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 135360	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15671

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	97	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	109	%

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 135364 Sample Matrix: SOLID
Date Received: Submission #: Analytical Run 15672

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/14/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	101	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	108	%

COLUMBIA ANALYTICAL SERVICES, INC.
700 Exchange Street, Rochester, New York 14608
(716) 454-6810 • FAX (716) 454-6825

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM
(800) 695-7222

DATE 3-13-97 PAGE 1 OF 3

PROJECT NAME <u>GM/DELPHI INT L+S</u>					ANALYSIS REQUESTED														
PROJECT MANAGER/CONTACT <u>CHRIS ANDREWS</u>					# OF CONTAINERS	GC/MS VOA's ☒ 8260 ☐ 624	GC/MS SVOA's ☒ 8270A ☐ 625	GC VOA's ☐ 8010/8020 ☐ 801/602	PESTICIDES/PCB's ☒ 6080 ☐ 608	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit	METALS, TOTAL (LIST BELOW)	METALS, DISSOLVED (LIST BELOW)	CN	pH < 2.0	pH > 12	Other
COMPANY/ADDRESS <u>EMCON</u> <u>MAHWAH NJ</u>																			
TEL (201) 512 5700 FAX (201) 512 5786																			
SAMPLER'S SIGNATURE <u>Chris Andrews</u>																			
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX															
MB-PE-06	3-13-97	08:30	135109	concrete	1									X					
MB-SS-05	1	11:30	135111	residue	1				X										
MB-SS-04	1	11:45	135112	sediment	1				X										
MB-SD-02		12:15	135113	sediment	1	X	X		X					X					
MB-SD-01		08:27	135114	sediment	1	X	X		X					X					
MB-PE-05		09:15	135115	residue	1									X					
MB-PE-04		09:40	135117	residue	1	X								X					
MB-SS-03		12:00	135120	residue	1				X										
MB-SD-04		12:15	135122	sediment	1	X	X		X					X					
MB-T-010	1	10:00	135124	residue										X					

RELINQUISHED BY:		RECEIVED BY:		TURNAROUND REQUIREMENTS		REPORT REQUIREMENTS		INVOICE INFORMATION:		SAMPLE RECEIPT:	
Signature <u>Chris Andrews</u>	Signature <u>Tom Hastings</u>	24 hr. ☒ 48 hr. ☐ 5 day ☐	1. Routine Report	P.O. #:	Shipping Via: <u>FED Ex</u>						
Printed Name <u>CHRIS ANDREWS</u>	Printed Name <u>Tom Hastings</u>	Standard (10-15 working days)	2. Routine Rep. w/CASE Narrative	Bill To:	Shipping #: <u>390</u>						
Firm <u>EMCON</u>	Firm <u>EMCON</u>	Provide Verbal Preliminary Results	3. EPA Level III Validatable Package		Temperature: <u>3.9°C</u>						
Date/Time <u>3/13/97 5:20pm</u>	Date/Time <u>3-13-97 5:25</u>	Provide FAX Preliminary Results	4. N.J. Reduced Deliverables Level IV		Submission No: <u>3-195</u>						
Requested Report Date		6. Site specific QC.									

RELINQUISHED BY:		RECEIVED BY:		SPECIAL INSTRUCTIONS/COMMENTS:	
Signature <u>Chris Andrews</u>	Signature <u>Tom Hastings</u>	METALS <u>RCRA (8)</u>			
Printed Name <u>CHRIS ANDREWS</u>	Printed Name <u>Tom Hastings</u>	ORGANICS: ☒ TCL ☐ PPL ☐ AE Only ☐ BN Only ☐ Special List			
Firm <u>EMCON</u>	Firm <u>EMCON</u>				
Date/Time <u>3/13/97 5:20pm</u>	Date/Time <u>3-14 0900</u>				

RELINQUISHED BY:		RECEIVED BY:		65 RAMAPO VALLEY ROAD		201-512-3292		435 LAWRENCE BELL DR.		716-634-0454	
Signature	Signature	Signature		MAHWAH, NJ 07430		FAX 201-512-3362		AMHERST, NY 14221		FAX 716-634-9019	
Printed Name	Printed Name	Printed Name									
Firm	Firm	Firm									
Date/Time	Date/Time	Date/Time									

COLUMBIA ANALYTICAL SERVICES, INC.
700 Exchange Street, Rochester, New York 14608
(716) 454-6810 • FAX (716) 454-6825

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

(800) 695-7222

DATE 3-13-97 PAGE 2 OF 3

PROJECT NAME <u>GM/DELTA II INT L+S</u>					ANALYSIS REQUESTED																								
PROJECT MANAGER/CONTACT <u>CHRIS ANDREWS</u>					# OF CONTAINERS	GC/MS VOA's ☒ 8260 ☐ 824	GC/MS SVOA's ☒ 8270A ☐ 825	GC VOA's ☐ 8010/8020 ☐ 601/602	PESTICIDES/PCB's ☒ 8080 ☐ 608	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (LIST BELOW)	METALS, DISSOLVED (LIST BELOW)	PRESERVATION													
COMPANY/ADDRESS <u>EMCON</u> <u>MAHWAN NJ</u>																pH < 2.0	pH > 12	Other											
TEL (201) <u>512 5700</u> FAX (201) <u>512 5786</u>																													
SAMPLER'S SIGNATURE <u>Chris Andrews</u>																													
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX																									
MB-SS-02	3/13/97	13:00	135125	residue	1				X																				
MB-SD-03	3/13/97	13:15	135126	sediment	1	X	X		X					X															
MB-PE-03	3/13/97	08:15	135127	sediment	1	X			X					X															
MB-SS-01	3/13/97	13:30	135128	residue	1				X																				
MB-SD-05	3/13/97	14:00	135129	sediment	1	X	X		X					X															
MB-PE-02	3/13/97	09:00	135130	sediment	1	X								X															
MB-PE-07	3/13/97	10:00	135131	residue	1	X								X															
MB-PE-01	3/13/97	10:15	135132	residue	1	X								X															
RELINQUISHED BY: <u>Chris Andrews</u> Signature Printed Name Firm Date/Time <u>3/13/97 5:22 pm</u>					RECEIVED BY: <u>Tom Hastings</u> Signature Printed Name Firm Date/Time <u>3/13/97 5:25</u>					TURNAROUND REQUIREMENTS 24 hr. ☒ 48 hr. ☐ 5 day ☐ Standard (10-15 working days) Provide Verbal Preliminary Results Provide FAX Preliminary Results Requested Report Date _____					REPORT REQUIREMENTS 1. Routine Report 2. Routine Rep. w/CASE Narrative 3. EPA Level III Validatable Package 4. N.J. Reduced Deliverables Level IV 5. NY ASP/CLP Deliverables 6. Site specific QC.					INVOICE INFORMATION: P.O. #: Bill To: _____					SAMPLE RECEIPT: Shipping Via: <u>FED EX</u> Shipping #: Temperature: <u>3.94</u> Submission No: _____				
RELINQUISHED BY: Signature Printed Name Firm Date/Time					RECEIVED BY: <u>Tom Hastings</u> Signature Printed Name Firm Date/Time <u>3/14/97 09:00</u>					SPECIAL INSTRUCTIONS/COMMENTS: <u>RCRA (C)</u>																			
RELINQUISHED BY: Signature Printed Name Firm Date/Time					RECEIVED BY: Signature Printed Name Firm Date/Time					METALS ORGANICS: ☒ TCL ☐ PPL ☐ AE Only ☐ BN Only ☐ Special List																			
										65 RAMAPO VA ROAD 201-512-3292 435 LAWRENCE BELL DR. 16-634-0454 MAHWAN, NJ 07 FAX 201-512-3362 AMHERST, NY 14221 716-634-9019																			

COLUMBIA ANALYTICAL SERVICES, INC.
700 Exchange Street, Rochester, New York 14608
(716) 454-6810 • FAX (716) 454-6825

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM
(800) 695-7222

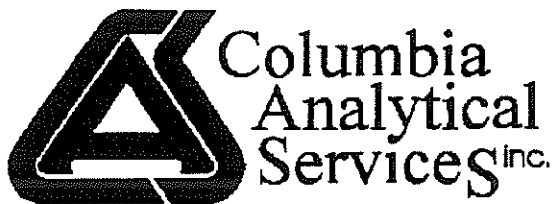
DATE 3-13-97 PAGE 3 OF 3

PROJECT NAME <u>Gm / DELPHI INT L+S</u>					ANALYSIS REQUESTED																
PROJECT MANAGER/CONTACT <u>CHRIS ANDREWS</u>					# OF CONTAINERS	GC/MS VOA's ☒ 8260 ☐ 624	GC/MS SVOA's ☒ 8270A ☐ 625	GC VOA's ☐ 8010/8020 ☐ 601/602	PESTICIDES/PCB's ☒ 8080 ☐ 608	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (LIST BELOW)	METALS, DISSOLVED (LIST BELOW)	CN	PH < 2.0	PH > 12	Other		
COMPANY/ADDRESS <u>EMCON</u> <u>MAHWAH, NJ</u>																					
TEL (201) 512 5700 FAX (201) 512 5786																					
SAMPLER'S SIGNATURE <u>Chris Andrews</u>																					
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX																	
MB-CC-10	3-13-97	08:00	135133	Concrete	1				X					X							
MB-CC-13	3-13-97	11:15	135134		1				X					X							
MB-CC-04	3-13-97	15:30	135135		1				X					X							
MB-CC-03	3-13-97	10:25	135136		1				X					X							
MB-CC-07	3-12-97	14:00	135137		1				X					X		X					
MB-CC-05	3-13-97	11:15	135138		1				X					X							
MB-CC-08	3-13-97	12:45	135139		1				X					X							
MB-CC-11	3-13-97	13:49	135140		1				X					X							
MB-CC-06	3-13-97	14:15	135141		1				X					X							
MB-CC-01	3-13-97	17:30	135142		1				X					X							

RELINQUISHED BY:		RECEIVED BY:		TURNAROUND REQUIREMENTS		REPORT REQUIREMENTS		INVOICE INFORMATION:		SAMPLE RECEIPT:	
Signature <u>Chris Andrews</u>	Printed Name <u>CHRIS ANDREWS</u>	Signature <u>Erin Schuyler</u>	Printed Name <u>ERIN SCHUYLER</u>	☒ 24 hr. ☒ 48 hr. ☐ 5 day	Standard (10-15 working days)	☐ 1. Routine Report	☐ 2. Routine Rep. w/CASE Narrative	P.O. #:	Shipping Via: <u>Fed Ex</u>	Shipping #:	Temperature: <u>3.9°C</u>
Firm <u>EMCON</u>	Date/Time <u>3/13/97 5:25pm</u>	Firm <u>EMCON</u>	Date/Time <u>3/13/97 5:25</u>	☐ Provide Verbal Preliminary Results	☐ Provide FAX Preliminary Results	☐ 3. EPA Level III	☐ Validatable Package	Bill To:			
				☐ Requested Report Date		☐ 4. N.J. Reduced Deliverables Level IV	☐ 5. NY ASP/CLP Deliverables				
						☐ 6. Site specific QC.					

RELINQUISHED BY:		RECEIVED BY:		SPECIAL INSTRUCTIONS/COMMENTS:	
Signature	Printed Name	Signature <u>Tom Hastings</u>	Printed Name <u>Tom Hastings</u>	METALS <u>PCRA (8)</u>	
Firm	Date/Time	Firm	Date/Time <u>3/14/97 09:00</u>	ORGANICS: ☒ TCL ☐ PPL ☐ AE Only ☐ BN Only ☐ Special List	

RELINQUISHED BY:		RECEIVED BY:		65 RAMAPO VALLEY ROAD		201-512-3292		435 LAWRENCE BELL DR.		716-634-0454	
Signature	Printed Name	Signature	Printed Name	MAHWAH, NJ 07430		FAX 201-512-3362		AMHERST, NY 14221		FAX 716-634-9019	
Firm	Date/Time	Firm	Date/Time								



A FULL SERVICE ENVIRONMENTAL LABORATORY

March 27, 1997

Mr. Raymond Kapp
EMCON
Crossroads Corp. Center
1 International Blvd, Ste. 700
Mahwah, NJ 07495

PROJECT:GM/DELPHI INT L+S
Submission #:9703000274

Dear Mr. Kapp

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 454-6810.

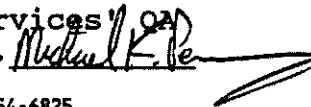
Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Mark Wilson
Client Service Manager

Enc.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director prior to report submittal. 

700 Exchange Street • Rochester, NY 14608 • Tele:(716)454-6810 • Fax:(716)454-6825
65 Ramapo Valley Rd. • Suite 16 • Mahwah, NJ 07430 • Tele:(201)512-3292 • Fax:(201)512-3362
12699 Roll Rd. • Akron, NY 14001 • Tele:(716)542-1264 • Fax:(716)542-3353



Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)
- * - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits.
- D - Spike diluted out.
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CAS Lab ID # for State Certifications

NY ID # in Rochester: 10145
CT ID # in Rochester: PH0556
MA ID # in Rochester: M-NY032

NJ ID # in Rochester: 73004
RI ID # in Rochester: 158

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-R-012

Date Sampled : 03/17/97

Order #: 136465

Sample Matrix: SOLID

Date Received: 03/20/97

Submission #:9703000274

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/24/97	1.0
BARIUM	2.00	282	UG/G	03/24/97	1.0
CADMIUM	0.500	16.5	UG/G	03/24/97	1.0
CHROMIUM	1.00	216	UG/G	03/24/97	1.0
LEAD	5.00	9990	UG/G	03/24/97	2.0
MERCURY	0.150	0.157	UG/G	03/24/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/24/97	1.0
SILVER	1.00	11.2	UG/G	03/24/97	1.0

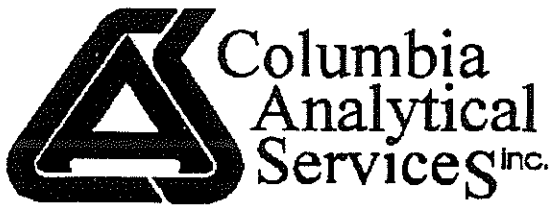
(716) 454-6810 • FAX (716) 454-6825

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

(800) 695-7222

DATE 3/12/97 3/19/97 PAGE 41 OF 41

[illegible]



A FULL SERVICE ENVIRONMENTAL LABORATORY

March 27, 1997

Mr. Raymond Kapp
EMCON
Crossroads Corp. Center
1 International Blvd, Ste. 700
Mahwah, NJ 07495

PROJECT:GM/DELPHI INT L+S
Submission #:9703000206

Dear Mr. Kapp:

Enclosed are the analytical results of the analyses requested. The analytical data was provided to you on 03/21/97 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at (716) 454-6810.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Mark Wilson
Client Service Manager

Enc.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director prior to report submittal.

700 Exchange Street • Rochester, NY 14608 • Tele:(716)454-6810 • Fax:(716)454-6825
65 Rambo Vally Rd. • Suite 16 • Mahwah, NJ 07430 • Tele:(201)512-3292 • Fax:(201)512-3362
12699 Roll Rd. • Akron, NY 14001 • Tele:(716)542-1264 • Fax:(716)542-3353



Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)
- * - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits.
- D - Spike diluted out.
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CAS Lab ID # for State Certifications

NY ID # in Rochester: 10145
CT ID # in Rochester: PH0556
MA ID # in Rochester: M-NY032

NJ ID # in Rochester: 73004
RI ID # in Rochester: 158

CASE NARRATIVE

COMPANY: EMCON
GM/Delphi Plant INT L+S
SUBMISSION #: 9703000206

EMCON samples of various matrices were collected on 03/12/97 through 03/14/97 and received at CAS on 03/15/97 in good condition.

PCBs

EMCON samples were analyzed for Target Compound List (TCL) PCBs by EPA Method 8080 from SW-846.

Initially analysis of the PCBs caused major instrument and calibration problems due to the sample matrices. All samples had to be repeated several times to obtain compliant data that met all criteria of the method. Final reported results reflect analytically compliant runs.

Several samples were analyzed dilutions due to interfering organics present in the sample. Due to some of the larger analytical dilutions, surrogates could not be quantitated and have been flagged "D".

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within QC Limits except for one of two surrogates in sample MB-SD-07, MB-SD-09, MB-SD-08, PH-SD-01, MB-GAL-01, MB-GAL-02, MB-GAL-05, MB-GAL-06 and MB-GAL-10. This was most likely due to matrix interferences. The surrogates have been flagged "**".

All samples were analyzed within the holding time as specified in the method.

No other analytical or QC problems were encountered.

VOLATILE ORGANICS

EMCON samples were analyzed for Target Compound List (TCL) of Volatile Organics by EPA Method 8260 from SW-846.

All samples were analyzed dilutions due to interfering organics present in the sample.

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within QC Limits.

All samples were analyzed within the holding time as specified in the method.

No other analytical or QC problems were encountered.

SEMIVOLATILE ORGANICS

EMCON samples were analyzed for Target Compound List (TCL) of Semivolatile Organics by EPA Method 8270 from SW-846.

All samples were analyzed dilutions due to interfering organics present in the sample and to bring target compounds within the linear range of the method.

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within QC Limits except for 2 surrogates in MG-R-01, 3 in MG-R-06, Due to high dilutions surrogates could not be calculated on sample MB-R-011.

All samples were analyzed within the holding time as specified in the method.

No other analytical or QC problems were encountered.

INORGANICS

EMCON samples were analyzed for the RCRA list of Metals. ICP Metals were analyzed by EPA Method 6010 and Mercury by 7470. Total Cyanide was analyzed by 9010.

For wipe samples where only one wipe sample was submitted, 1/2 was used for Mercury and 1/2 was used for all the other metals and a dilution of 2.0 was factored in to the final result.

All Initial and Continuing calibrations were compliant.

No analytical or QC problems were encountered.

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-CC-09

Date Sampled : 03/14/97

Order #: 135311

Sample Matrix: SOLID

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.26	UG/G	03/17/97	1.0
BARIUM	2.00	55.8	UG/G	03/17/97	1.0
CADMIUM	0.500	0.500 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	52.9	UG/G	03/17/97	1.0
LEAD	5.00	6.51	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0
WET CHEMISTRY					
TOTAL CYANIDE	1.00	7.68	UG/G	03/18/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-CC-09

Date Sampled : 03/14/97 Order #: 135311 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15698

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/17/97		
DATE ANALYZED	: 03/18/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	128	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	117	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-CC-12

Date Sampled : 03/14/97

Order #: 135312

Sample Matrix: SOLID

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	107	UG/G	03/17/97	1.0
CADMIUM	0.500	1.06	UG/G	03/17/97	1.0
CHROMIUM	1.00	46.4	UG/G	03/17/97	1.0
LEAD	5.00	22.4	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0
WET CHEMISTRY					
PH		11.6		03/18/97	NA

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-CC-12

Date Sampled : 03/14/97 Order #: 135312 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15698

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/17/97		
DATE ANALYZED	: 03/24/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	94	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	101	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MG-CC-02

Date Sampled : 03/14/97
Date Received: 03/15/97Order #: 135313
Submission #:9703000206

Sample Matrix: SOLID

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	4.44	UG/G	03/17/97	1.0
BARIUM	2.00	53.4	UG/G	03/17/97	1.0
CADMIUM	0.500	0.500 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	20.6	UG/G	03/17/97	1.0
LEAD	5.00	5.54	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MG-CC-02

Date Sampled : 03/14/97 Order #: 135313 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15698

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/17/97		
DATE ANALYZED	: 03/18/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	83	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	110	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-CC-02

Date Sampled : 03/14/97

Order #: 135314

Sample Matrix: SOLID

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	33.6	UG/G	03/17/97	1.0
CADMIUM	0.500	1.30	UG/G	03/17/97	1.0
CHROMIUM	1.00	12.8	UG/G	03/17/97	1.0
LEAD	5.00	5.00 U	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	5.06	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-CC-02

Date Sampled : 03/14/97 Order #: 135314 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15698

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/17/97			
DATE ANALYZED : 03/19/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	76	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	104	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MG-CC-01

Date Sampled : 03/14/97

Order #: 135315

Sample Matrix: SOLID

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
WET CHEMISTRY					
TOTAL CYANIDE	1.00	1.00 U	UG/G	03/18/97	1.0
PH		11.6		03/18/97	NA

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MG-CC-01

Date Sampled : 03/14/97 Order #: 135315 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15698

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/17/97			
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	100	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	110	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-VS-05C

Date Sampled : 03/13/97

Order #: 135316

Sample Matrix: WIPE

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	0.250	1.63	UG/WIPE	03/17/97	2.0
BARIUM	1.00	89.9	UG/WIPE	03/17/97	2.0
CADMIUM	0.250	3.52	UG/WIPE	03/17/97	2.0
CHROMIUM	0.500	85.9	UG/WIPE	03/17/97	2.0
LEAD	0.250	58.4	UG/WIPE	03/17/97	2.0
MERCURY	0.0300	0.0600 U	UG/WIPE	03/17/97	2.0
SELENIUM	0.250	3.62	UG/WIPE	03/17/97	2.0
SILVER	0.500	1.00 U	UG/WIPE	03/17/97	2.0

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :PH-R-01

Date Sampled : 03/14/97

Order #: 135317

Sample Matrix: WIPE

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	2.00 U	UG/WIPE	03/17/97	2.0
BARIUM	2.00	215	UG/WIPE	03/17/97	2.0
CADMIUM	0.500	6.79	UG/WIPE	03/17/97	2.0
CHROMIUM	1.00	87.1	UG/WIPE	03/17/97	2.0
LEAD	5.00	671	UG/WIPE	03/17/97	2.0
MERCURY	0.150	0.420	UG/WIPE	03/17/97	2.0
SELENIUM	0.500	1.47	UG/WIPE	03/17/97	2.0
SILVER	1.00	2.00 U	UG/WIPE	03/17/97	2.0

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-VS-09

Date Sampled : 03/13/97

Order #: 135318

Sample Matrix: SOIL/SEDIMENT

Date Received: 03/15/97

Submission #: 9703000206

ANALYTE	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.04 U	UG/G	03/17/97	1.0
BARIUM	2.00	139	UG/G	03/17/97	1.0
CADMIUM	0.500	4.41	UG/G	03/17/97	1.0
CHROMIUM	1.00	20.5	UG/G	03/17/97	1.0
LEAD	5.00	127	UG/G	03/17/97	1.0
MERCURY	0.150	0.155 U	UG/G	03/17/97	1.0
SELENIUM	0.500	2.32	UG/G	03/17/97	1.0
SILVER	1.00	1.04 U	UG/G	03/17/97	1.0
ZINC	1.00	62200	UG/G	03/17/97	50.0
WET CHEMISTRY					
TOTAL CYANIDE	1.00	1.06	UG/G	03/18/97	1.0
PERCENT SOLIDS	1.0	96.5	%	03/17/97	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-R-011

Date Sampled : 03/12/97

Order #: 135319

Sample Matrix: SOLID

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	2170	UG/G	03/17/97	1.0
CADMIUM	0.500	2.08	UG/G	03/17/97	1.0
CHROMIUM	1.00	173	UG/G	03/17/97	1.0
LEAD	5.00	21.8	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-011

Date Sampled : 03/12/97 Order #: 135319 Sample Matrix: SOLID
 Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15772

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 125.0			
ACETONE	20	2500 U	UG/KG
BENZENE	5.0	630 U	UG/KG
BROMODICHLOROMETHANE	5.0	630 U	UG/KG
BROMOFORM	5.0	630 U	UG/KG
BROMOMETHANE	5.0	630 U	UG/KG
2-BUTANONE (MEK)	10	1300 U	UG/KG
CARBON DISULFIDE	10	1300 U	UG/KG
CARBON TETRACHLORIDE	5.0	630 U	UG/KG
CHLOROBENZENE	5.0	630 U	UG/KG
CHLOROETHANE	5.0	630 U	UG/KG
CHLOROFORM	5.0	630 U	UG/KG
CHLOROMETHANE	5.0	630 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHANE	5.0	630 U	UG/KG
1,2-DICHLOROETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHENE	5.0	630 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
1,2-DICHLOROPROPANE	5.0	630 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
ETHYLBENZENE	5.0	630 U	UG/KG
2-HEXANONE	10	1300 U	UG/KG
METHYLENE CHLORIDE	5.0	630 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1300 U	UG/KG
STYRENE	5.0	630 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	630 U	UG/KG
TETRACHLOROETHENE	5.0	630 U	UG/KG
TOLUENE	5.0	630 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	630 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	630 U	UG/KG
TRICHLOROETHENE	5.0	630 U	UG/KG
VINYL CHLORIDE	5.0	630 U	UG/KG
O-XYLENE	5.0	630 U	UG/KG
M+P-XYLENE	5.0	630 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(74 - 121 %)	81	%
TOLUENE-D8	(81 - 117 %)	103	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	102	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-011

Date Sampled : 03/12/97 Order #: 135319 Sample Matrix: SOLID
 Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15753

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/18/97			
DATE ANALYZED : 03/19/97			
ANALYTICAL DILUTION: 250.0			
ACENAPHTHENE	330	83000 U	UG/KG
ACENAPHTHYLENE	330	83000 U	UG/KG
ANTHRACENE	330	83000 U	UG/KG
BENZO (A) ANTHRACENE	330	83000 U	UG/KG
BENZO (A) PYRENE	330	83000 U	UG/KG
BENZO (B) FLUORANTHENE	330	83000 U	UG/KG
BENZO (G, H, I) PERYLENE	330	83000 U	UG/KG
BENZO (K) FLUORANTHENE	330	83000 U	UG/KG
BENZYL ALCOHOL	330	83000 U	UG/KG
BUTYL BENZYL PHTHALATE	330	83000 U	UG/KG
DI-N-BUTYLPHTHALATE	330	83000 U	UG/KG
CARBAZOLE	330	83000 U	UG/KG
INDENO (1, 2, 3-CD) PYRENE	330	83000 U	UG/KG
4-CHLOROANILINE	330	83000 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	83000 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	83000 U	UG/KG
2-CHLORONAPHTHALENE	330	83000 U	UG/KG
2-CHLOROPHENOL	670	170000 U	UG/KG
2, 2'-OXYBIS (1-CHLOROPROPANE)	330	83000 U	UG/KG
CHRYSENE	330	83000 U	UG/KG
DIBENZO (A, H) ANTHRACENE	330	83000 U	UG/KG
DIBENZOFURAN	330	83000 U	UG/KG
1, 3-DICHLOROBENZENE	330	83000 U	UG/KG
1, 2-DICHLOROBENZENE	330	83000 U	UG/KG
1, 4-DICHLOROBENZENE	330	83000 U	UG/KG
3, 3'-DICHLOROBENZIDINE	330	83000 U	UG/KG
2, 4-DICHLOROPHENOL	670	170000 U	UG/KG
DIETHYLPHTHALATE	330	83000 U	UG/KG
DIMETHYL PHTHALATE	330	83000 U	UG/KG
2, 4-DIMETHYLPHENOL	670	170000 U	UG/KG
2, 4-DINITROPHENOL	1300	330000 U	UG/KG
2, 4-DINITROTOLUENE	330	83000 U	UG/KG
2, 6-DINITROTOLUENE	330	83000 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	480000	UG/KG
FLUORANTHENE	330	83000 U	UG/KG
FLUORENE	330	83000 U	UG/KG
HEXACHLOROBENZENE	330	83000 U	UG/KG
HEXACHLOROBUTADIENE	330	83000 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	83000 U	UG/KG
HEXACHLOROETHANE	330	83000 U	UG/KG
ISOPHORONE	330	83000 U	UG/KG
2-METHYLNAPHTHALENE	670	170000 U	UG/KG
4, 6-DINITRO-2-METHYLPHENOL	1300	330000 U	UG/KG

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-011

Date Sampled : 03/12/97 Order #: 135319 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15753

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/18/97			
DATE ANALYZED : 03/19/97			
ANALYTICAL DILUTION: 250.0			
4-CHLORO-3-METHYLPHENOL	670	170000 U	UG/KG
2-METHYLPHENOL	670	170000 U	UG/KG
4-METHYLPHENOL	670	170000 U	UG/KG
NAPHTHALENE	330	83000 U	UG/KG
2-NITROANILINE	330	83000 U	UG/KG
3-NITROANILINE	330	83000 U	UG/KG
4-NITROANILINE	330	83000 U	UG/KG
NITROBENZENE	330	83000 U	UG/KG
2-NITROPHENOL	670	170000 U	UG/KG
4-NITROPHENOL	1300	330000 U	UG/KG
N-NITROSODIMETHYLAMINE	330	83000 U	UG/KG
N-NITROSODIPHENYLAMINE	330	83000 U	UG/KG
DI-N-OCTYL PHTHALATE	330	83000 U	UG/KG
PENTACHLOROPHENOL	1300	330000 U	UG/KG
PHENANTHRENE	330	83000 U	UG/KG
PHENOL	670	170000 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	83000 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	83000 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	83000 U	UG/KG
PYRENE	330	83000 U	UG/KG
1,2,4-TRICHLOROBENZENE	330	83000 U	UG/KG
2,4,6-TRICHLOROPHENOL	670	170000 U	UG/KG
2,4,5-TRICHLOROPHENOL	670	170000 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

TERPHENYL-d14	(18 - 137 %)	D	%
NITROBENZENE-d5	(23 - 120 %)	D	%
PHENOL-d6	(24 - 113 %)	D	%
2-FLUOROBIPHENYL	(30 - 115 %)	D	%
2-FLUOROPHENOL	(25 - 121 %)	D	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	D	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : PH-R-01

Date Sampled : 03/14/97 Order #: 135320 Sample Matrix: WIPE
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15752

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/18/97		
DATE ANALYZED	: 03/20/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	1.0	1.0 U	UG/WI
PCB 1221	1.0	1.0 U	UG/WI
PCB 1232	1.0	1.0 U	UG/WI
PCB 1242	1.0	1.0 U	UG/WI
PCB 1248	1.0	1.0 U	UG/WI
PCB 1254	1.0	1.0 U	UG/WI
PCB 1260	1.0	1.0 U	UG/WI

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	30	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	81	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MG-R-01

Date Sampled : 03/14/97
Date Received: 03/15/97Order #: 135321
Submission #:9703000206

Sample Matrix: WIPE

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	2.00 U	UG/WIPE	03/17/97	2.0
BARIUM	2.00	1480	UG/WIPE	03/17/97	2.0
CADMIUM	0.500	10.1	UG/WIPE	03/17/97	2.0
CHROMIUM	1.00	16.4	UG/WIPE	03/17/97	2.0
LEAD	5.00	46.9	UG/WIPE	03/17/97	2.0
MERCURY	0.150	0.300 U	UG/WIPE	03/17/97	2.0
SELENIUM	0.500	2.48	UG/WIPE	03/17/97	2.0
SILVER	1.00	2.00 U	UG/WIPE	03/17/97	2.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MG-R-01

Date Sampled : 03/14/97 Order #: 135321 Sample Matrix: WIPE
 Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15772

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/19/97			
ANALYTICAL DILUTION: 500.0			
ACETONE	10	5000 U	UG/WI
BENZENE	5.0	2500 U	UG/WI
BROMODICHLOROMETHANE	5.0	2500 U	UG/WI
BROMOFORM	5.0	2500 U	UG/WI
BROMOMETHANE	5.0	2500 U	UG/WI
2-BUTANONE (MEK)	10	5000 U	UG/WI
CARBON DISULFIDE	10	5000 U	UG/WI
CARBON TETRACHLORIDE	5.0	2500 U	UG/WI
CHLOROBENZENE	5.0	2500 U	UG/WI
CHLOROETHANE	5.0	2500 U	UG/WI
CHLOROFORM	5.0	2500 U	UG/WI
CHLOROMETHANE	5.0	2500 U	UG/WI
DIBROMOCHLOROMETHANE	5.0	2500 U	UG/WI
1,1-DICHLOROETHANE	5.0	2500 U	UG/WI
1,2-DICHLOROETHANE	5.0	2500 U	UG/WI
1,1-DICHLOROETHENE	5.0	2500 U	UG/WI
CIS-1,2-DICHLOROETHENE	5.0	2500 U	UG/WI
TRANS-1,2-DICHLOROETHENE	5.0	2500 U	UG/WI
1,2-DICHLOROPROPANE	5.0	2500 U	UG/WI
CIS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/WI
TRANS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/WI
ETHYLBENZENE	5.0	2500 U	UG/WI
2-HEXANONE	10	5000 U	UG/WI
METHYLENE CHLORIDE	5.0	2500 U	UG/WI
4-METHYL-2-PENTANONE (MIBK)	10	5000 U	UG/WI
STYRENE	5.0	2500 U	UG/WI
1,1,2,2-TETRACHLOROETHANE	5.0	2500 U	UG/WI
TETRACHLOROETHENE	5.0	2500 U	UG/WI
TOLUENE	5.0	2500 U	UG/WI
1,1,1-TRICHLOROETHANE	5.0	2500 U	UG/WI
1,1,2-TRICHLOROETHANE	5.0	2500 U	UG/WI
TRICHLOROETHENE	5.0	2500 U	UG/WI
VINYL CHLORIDE	5.0	2500 U	UG/WI
O-XYLENE	5.0	2500 U	UG/WI
M+P-XYLENE	5.0	2500 U	UG/WI

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(74 - 121 %)	96	%
TOLUENE-D8	(81 - 117 %)	102	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	102	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MG-R-01

Date Sampled : 03/14/97 Order #: 135321 Sample Matrix: WIPE
 Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15729

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/18/97			
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 20.0			
ACENAPHTHENE	5.0	100 U	UG/WI
ACENAPHTHYLENE	5.0	100 U	UG/WI
ANTHRACENE	5.0	100 U	UG/WI
BENZO (A) ANTHRACENE	5.0	100 U	UG/WI
BENZO (A) PYRENE	5.0	100 U	UG/WI
BENZO (B) FLUORANTHENE	5.0	100 U	UG/WI
BENZO (G, H, I) PERYLENE	5.0	100 U	UG/WI
BENZO (K) FLUORANTHENE	5.0	100 U	UG/WI
BENZYL ALCOHOL	5.0	100 U	UG/WI
BUTYL BENZYL PHTHALATE	5.0	280	UG/WI
DI-N-BUTYLPHTHALATE	5.0	100 U	UG/WI
CARBAZOLE	5.0	100 U	UG/WI
INDENO (1, 2, 3-CD) PYRENE	5.0	100 U	UG/WI
4-CHLOROANILINE	5.0	100 U	UG/WI
BIS (-2-CHLOROETHOXY) METHANE	5.0	100 U	UG/WI
BIS (2-CHLOROETHYL) ETHER	5.0	100 U	UG/WI
2-CHLORONAPHTHALENE	5.0	100 U	UG/WI
2-CHLOROPHENOL	10	200 U	UG/WI
2, 2'-OXYBIS (1-CHLOROPROPANE)	5.0	100 U	UG/WI
CHRYSENE	5.0	100 U	UG/WI
DIBENZO (A, H) ANTHRACENE	5.0	100 U	UG/WI
DIBENZOFURAN	5.0	100 U	UG/WI
1, 3-DICHLOROBENZENE	5.0	100 U	UG/WI
1, 2-DICHLOROBENZENE	5.0	100 U	UG/WI
1, 4-DICHLOROBENZENE	5.0	100 U	UG/WI
3, 3'-DICHLOROBENZIDINE	5.0	100 U	UG/WI
2, 4-DICHLOROPHENOL	10	200 U	UG/WI
DIETHYLPHTHALATE	5.0	100 U	UG/WI
DIMETHYL PHTHALATE	5.0	100 U	UG/WI
2, 4-DIMETHYLPHENOL	10	200 U	UG/WI
2, 4-DINITROPHENOL	20	400 U	UG/WI
2, 4-DINITROTOLUENE	5.0	100 U	UG/WI
2, 6-DINITROTOLUENE	5.0	100 U	UG/WI
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	100 U	UG/WI
FLUORANTHENE	5.0	100 U	UG/WI
FLUORENE	5.0	100 U	UG/WI
HEXACHLOROBENZENE	5.0	100 U	UG/WI
HEXACHLOROBUTADIENE	5.0	100 U	UG/WI
HEXACHLOROCYCLOPENTADIENE	5.0	100 U	UG/WI
HEXACHLOROETHANE	5.0	100 U	UG/WI
ISOPHORONE	5.0	100 U	UG/WI
2-METHYLNAPHTHALENE	10	200 U	UG/WI
4, 6-DINITRO-2-METHYLPHENOL	20	400 U	UG/WI

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MG-R-01

Date Sampled : 03/14/97 Order #: 135321 Sample Matrix: WIPE
 Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15729

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/18/97			
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 20.0			
4-CHLORO-3-METHYLPHENOL	10	200 U	UG/WI
2-METHYLPHENOL	10	200 U	UG/WI
4-METHYLPHENOL	10	200 U	UG/WI
NAPHTHALENE	5.0	100 U	UG/WI
2-NITROANILINE	5.0	100 U	UG/WI
3-NITROANILINE	5.0	100 U	UG/WI
4-NITROANILINE	5.0	100 U	UG/WI
NITROBENZENE	5.0	100 U	UG/WI
2-NITROPHENOL	10	200 U	UG/WI
4-NITROPHENOL	20	400 U	UG/WI
N-NITROSODIMETHYLAMINE	5.0	100 U	UG/WI
N-NITROSODIPHENYLAMINE	5.0	100 U	UG/WI
DI-N-OCTYL PHTHALATE	5.0	100 U	UG/WI
PENTACHLOROPHENOL	20	400 U	UG/WI
PHENANTHRENE	5.0	100 U	UG/WI
PHENOL	10	200 U	UG/WI
4-BROMOPHENYL-PHENYLETHER	5.0	100 U	UG/WI
4-CHLOROPHENYL-PHENYLETHER	5.0	100 U	UG/WI
N-NITROSO-DI-N-PROPYLAMINE	5.0	100 U	UG/WI
PYRENE	5.0	100 U	UG/WI
1,2,4-TRICHLOROBENZENE	5.0	100 U	UG/WI
2,4,6-TRICHLOROPHENOL	10	200 U	UG/WI
2,4,5-TRICHLOROPHENOL	10	200 U	UG/WI

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(18 - 137 %)	102	%
NITROBENZENE-d5	(23 - 120 %)	102	%
PHENOL-d6	(24 - 113 %)	21 *	%
2-FLUOROBIPHENYL	(30 - 115 %)	100	%
2-FLUOROPHENOL	(25 - 121 %)	39	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	*	%

COLUMBIA ANALYTICAL SERVICES

Reported: 04/11/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-R-06

Date Sampled : 03/14/97

Date Received: 03/15/97

Order #: 135322

Submission #:9703000206

Sample Matrix: WIPE

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	2.00 U	UG/WIPE	03/17/97	2.0
BARIUM	2.00	1860	UG/WIPE	03/17/97	2.0
CADMIUM	0.500	385	UG/WIPE	03/17/97	2.0
CHROMIUM	1.00	406	UG/WIPE	03/17/97	2.0
LEAD	5.00	1050	UG/WIPE	03/17/97	2.0
MERCURY	0.150	0.300 U	UG/WIPE	03/17/97	2.0
SELENIUM	0.500	1.25	UG/WIPE	03/17/97	2.0
SILVER	1.00	2.00 U	UG/WIPE	03/17/97	2.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-06

Date Sampled : 03/14/97 Order #: 135322 Sample Matrix: WIPE
 Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15729

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/18/97			
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 20.0			
ACENAPHTHENE	5.0	100 U	UG/WI
ACENAPHTHYLENE	5.0	100 U	UG/WI
ANTHRACENE	5.0	100 U	UG/WI
BENZO(A)ANTHRACENE	5.0	100 U	UG/WI
BENZO(A)PYRENE	5.0	100 U	UG/WI
BENZO(B)FLUORANTHENE	5.0	100 U	UG/WI
BENZO(G,H,I)PERYLENE	5.0	100 U	UG/WI
BENZO(K)FLUORANTHENE	5.0	100 U	UG/WI
BENZYL ALCOHOL	5.0	100 U	UG/WI
BUTYL BENZYL PHTHALATE	5.0	100 U	UG/WI
DI-N-BUTYLPHTHALATE	5.0	100 U	UG/WI
CARBAZOLE	5.0	100 U	UG/WI
INDENO(1,2,3-CD)PYRENE	5.0	100 U	UG/WI
4-CHLOROANILINE	5.0	100 U	UG/WI
BIS(-2-CHLOROETHOXY)METHANE	5.0	100 U	UG/WI
BIS(2-CHLOROETHYL)ETHER	5.0	100 U	UG/WI
2-CHLORONAPHTHALENE	5.0	100 U	UG/WI
2-CHLOROPHENOL	10	200 U	UG/WI
2,2'-OXYBIS(1-CHLOROPROPANE)	5.0	100 U	UG/WI
CHRYSENE	5.0	100 U	UG/WI
DIBENZO(A,H)ANTHRACENE	5.0	100 U	UG/WI
DIBENZOFURAN	5.0	100 U	UG/WI
1,3-DICHLOROBENZENE	5.0	100 U	UG/WI
1,2-DICHLOROBENZENE	5.0	100 U	UG/WI
1,4-DICHLOROBENZENE	5.0	100 U	UG/WI
3,3'-DICHLOROBENZIDINE	5.0	100 U	UG/WI
2,4-DICHLOROPHENOL	10	200 U	UG/WI
DIETHYLPHTHALATE	5.0	100 U	UG/WI
DIMETHYL PHTHALATE	5.0	100 U	UG/WI
2,4-DIMETHYLPHENOL	10	200 U	UG/WI
2,4-DINITROPHENOL	20	400 U	UG/WI
2,4-DINITROTOLUENE	5.0	100 U	UG/WI
2,6-DINITROTOLUENE	5.0	100 U	UG/WI
BIS(2-ETHYLHEXYL)PHTHALATE	5.0	3100	UG/WI
FLUORANTHENE	5.0	100 U	UG/WI
FLUORENE	5.0	100 U	UG/WI
HEXACHLOROBENZENE	5.0	100 U	UG/WI
HEXACHLOROBUTADIENE	5.0	100 U	UG/WI
HEXACHLOROCYCLOPENTADIENE	5.0	100 U	UG/WI
HEXACHLOROETHANE	5.0	100 U	UG/WI
ISOPHORONE	5.0	100 U	UG/WI
2-METHYLNAPHTHALENE	10	200 U	UG/WI
4,6-DINITRO-2-METHYLPHENOL	20	400 U	UG/WI

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-06

Date Sampled : 03/14/97 Order #: 135322 Sample Matrix: WIPE
 Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15729

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/18/97			
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 20.0			
4-CHLORO-3-METHYLPHENOL	10	200 U	UG/WI
2-METHYLPHENOL	10	200 U	UG/WI
4-METHYLPHENOL	10	200 U	UG/WI
NAPHTHALENE	5.0	100 U	UG/WI
2-NITROANILINE	5.0	100 U	UG/WI
3-NITROANILINE	5.0	100 U	UG/WI
4-NITROANILINE	5.0	100 U	UG/WI
NITROBENZENE	5.0	100 U	UG/WI
2-NITROPHENOL	10	200 U	UG/WI
4-NITROPHENOL	20	400 U	UG/WI
N-NITROSODIMETHYLAMINE	5.0	100 U	UG/WI
N-NITROSODIPHENYLAMINE	5.0	100 U	UG/WI
DI-N-OCTYL PHTHALATE	5.0	100 U	UG/WI
PENTACHLOROPHENOL	20	400 U	UG/WI
PHENANTHRENE	5.0	100 U	UG/WI
PHENOL	10	200 U	UG/WI
4-BROMOPHENYL-PHENYLETHER	5.0	100 U	UG/WI
4-CHLOROPHENYL-PHENYLETHER	5.0	100 U	UG/WI
N-NITROSO-DI-N-PROPYLAMINE	5.0	100 U	UG/WI
PYRENE	5.0	100 U	UG/WI
1,2,4-TRICHLOROBENZENE	5.0	100 U	UG/WI
2,4,6-TRICHLOROPHENOL	10	200 U	UG/WI
2,4,5-TRICHLOROPHENOL	10	200 U	UG/WI

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(18 - 137 %)	96	%
NITROBENZENE-d5	(23 - 120 %)	98	%
PHENOL-d6	(24 - 113 %)	7 *	%
2-FLUOROBIPHENYL	(30 - 115 %)	114	%
2-FLUOROPHENOL	(25 - 121 %)	8 *	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	*	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-R-06

Date Sampled : 03/14/97 Order #: 135322 Sample Matrix: WIPE
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15772

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/19/97			
ANALYTICAL DILUTION: 500.0			
ACETONE	10	5000 U	UG/WI
BENZENE	5.0	2500 U	UG/WI
BROMODICHLOROMETHANE	5.0	2500 U	UG/WI
BROMOFORM	5.0	2500 U	UG/WI
BROMOMETHANE	5.0	2500 U	UG/WI
2-BUTANONE (MEK)	10	5000 U	UG/WI
CARBON DISULFIDE	10	5000 U	UG/WI
CARBON TETRACHLORIDE	5.0	2500 U	UG/WI
CHLOROBENZENE	5.0	2500 U	UG/WI
CHLOROETHANE	5.0	2500 U	UG/WI
CHLOROFORM	5.0	2500 U	UG/WI
CHLOROMETHANE	5.0	2500 U	UG/WI
DIBROMOCHLOROMETHANE	5.0	2500 U	UG/WI
1,1-DICHLOROETHANE	5.0	2500 U	UG/WI
1,2-DICHLOROETHANE	5.0	2500 U	UG/WI
1,1-DICHLOROETHENE	5.0	2500 U	UG/WI
CIS-1,2-DICHLOROETHENE	5.0	2500 U	UG/WI
TRANS-1,2-DICHLOROETHENE	5.0	2500 U	UG/WI
1,2-DICHLOROPROPANE	5.0	2500 U	UG/WI
CIS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/WI
TRANS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/WI
ETHYLBENZENE	5.0	2500 U	UG/WI
2-HEXANONE	10	5000 U	UG/WI
METHYLENE CHLORIDE	5.0	2500 U	UG/WI
4-METHYL-2-PENTANONE (MIBK)	10	5000 U	UG/WI
STYRENE	5.0	2500 U	UG/WI
1,1,2,2-TETRACHLOROETHANE	5.0	2500 U	UG/WI
TETRACHLOROETHENE	5.0	2500 U	UG/WI
TOLUENE	5.0	2500 U	UG/WI
1,1,1-TRICHLOROETHANE	5.0	2500 U	UG/WI
1,1,2-TRICHLOROETHANE	5.0	2500 U	UG/WI
TRICHLOROETHENE	5.0	2500 U	UG/WI
VINYL CHLORIDE	5.0	2500 U	UG/WI
O-XYLENE	5.0	2500 U	UG/WI
M+P-XYLENE	5.0	2500 U	UG/WI

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(74 - 121 %)	94	%
TOLUENE-D8	(81 - 117 %)	103	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	101	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-07

Date Sampled : 03/14/97 Order #: 135323 Sample Matrix: WATER
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15754

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/18/97			
DATE ANALYZED : 03/20/97			
ANALYTICAL DILUTION: 11.1			
PCB 1016	0.50	5.6 U	UG/L
PCB 1221	0.50	5.6 U	UG/L
PCB 1232	0.50	5.6 U	UG/L
PCB 1242	0.50	5.6 U	UG/L
PCB 1248	0.50	5.6 U	UG/L
PCB 1254	0.50	5.6 U	UG/L
PCB 1260	0.50	5.6 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	D	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	33	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-09

Date Sampled : 03/14/97 Order #: 135324 Sample Matrix: WATER
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15754

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/18/97		
DATE ANALYZED	: 03/20/97		
ANALYTICAL DILUTION:	11.1		
PCB 1016	0.50	5.6 U	UG/L
PCB 1221	0.50	5.6 U	UG/L
PCB 1232	0.50	5.6 U	UG/L
PCB 1242	0.50	5.6 U	UG/L
PCB 1248	0.50	5.6 U	UG/L
PCB 1254	0.50	5.6 U	UG/L
PCB 1260	0.50	5.6 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	23 *	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	50	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MB-R-05

Date Sampled : 03/14/97

Order #: 135325

Sample Matrix: SOLID

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	2.05	UG/G	03/17/97	1.0
BARIUM	2.00	45.7	UG/G	03/17/97	1.0
CADMIUM	0.500	2.84	UG/G	03/17/97	1.0
CHROMIUM	1.00	8.72	UG/G	03/17/97	1.0
LEAD	5.00	10.8	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :SS-SD-01

Date Sampled : 03/14/97

Order #: 135326

Sample Matrix: SOLID

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.02	UG/G	03/17/97	1.0
BARIUM	2.00	38.0	UG/G	03/17/97	1.0
CADMIUM	0.500	1.37	UG/G	03/17/97	1.0
CHROMIUM	1.00	47.2	UG/G	03/17/97	1.0
LEAD	5.00	136	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.698	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : SS-SD-01

Date Sampled : 03/14/97 Order #: 135326 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15772

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/19/97			
ANALYTICAL DILUTION: 125.0			
ACETONE	20	2500 U	UG/KG
BENZENE	5.0	630 U	UG/KG
BROMODICHLOROMETHANE	5.0	630 U	UG/KG
BROMOFORM	5.0	630 U	UG/KG
BROMOMETHANE	5.0	630 U	UG/KG
2-BUTANONE (MEK)	10	1300 U	UG/KG
CARBON DISULFIDE	10	1300 U	UG/KG
CARBON TETRACHLORIDE	5.0	630 U	UG/KG
CHLOROBENZENE	5.0	630 U	UG/KG
CHLOROETHANE	5.0	630 U	UG/KG
CHLOROFORM	5.0	630 U	UG/KG
CHLOROMETHANE	5.0	630 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHANE	5.0	630 U	UG/KG
1,2-DICHLOROETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHENE	5.0	630 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
1,2-DICHLOROPROPANE	5.0	630 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
ETHYLBENZENE	5.0	630 U	UG/KG
2-HEXANONE	10	1300 U	UG/KG
METHYLENE CHLORIDE	5.0	630 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1300 U	UG/KG
STYRENE	5.0	630 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	630 U	UG/KG
TETRACHLOROETHENE	5.0	630 U	UG/KG
TOLUENE	5.0	630 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	630 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	630 U	UG/KG
TRICHLOROETHENE	5.0	630 U	UG/KG
VINYL CHLORIDE	5.0	630 U	UG/KG
O-XYLENE	5.0	630 U	UG/KG
M+P-XYLENE	5.0	630 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(74 - 121 %)	97	%
TOLUENE-D8	(81 - 117 %)	98	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	100	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : SS-SD-01

Date Sampled : 03/14/97 Order #: 135326 Sample Matrix: SOLID
 Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/16/97			
ANALYTICAL DILUTION: 10.0			
ACENAPHTHENE	330	3300 U	UG/KG
ACENAPHTHYLENE	330	3300 U	UG/KG
ANTHRACENE	330	3300 U	UG/KG
BENZO (A) ANTHRACENE	330	3300 U	UG/KG
BENZO (A) PYRENE	330	3300 U	UG/KG
BENZO (B) FLUORANTHENE	330	3300 U	UG/KG
BENZO (G, H, I) PERYLENE	330	3300 U	UG/KG
BENZO (K) FLUORANTHENE	330	3300 U	UG/KG
BENZYL ALCOHOL	330	3300 U	UG/KG
BUTYL BENZYL PHTHALATE	330	3300 U	UG/KG
DI-N-BUTYLPHTHALATE	330	3300 U	UG/KG
CARBAZOLE	330	3300 U	UG/KG
INDENO (1, 2, 3-CD) PYRENE	330	3300 U	UG/KG
4-CHLOROANILINE	330	3300 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	3300 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	3300 U	UG/KG
2-CHLORONAPHTHALENE	330	3300 U	UG/KG
2-CHLOROPHENOL	670	6700 U	UG/KG
2, 2'-OXYBIS (1-CHLOROPROPANE)	330	3300 U	UG/KG
CHRYSENE	330	3300 U	UG/KG
DIBENZO (A, H) ANTHRACENE	330	3300 U	UG/KG
DIBENZOFURAN	330	3300 U	UG/KG
1, 3-DICHLOROBENZENE	330	3300 U	UG/KG
1, 2-DICHLOROBENZENE	330	3300 U	UG/KG
1, 4-DICHLOROBENZENE	330	3300 U	UG/KG
3, 3'-DICHLOROBENZIDINE	330	3300 U	UG/KG
2, 4-DICHLOROPHENOL	670	6700 U	UG/KG
DIETHYLPHTHALATE	330	3300 U	UG/KG
DIMETHYL PHTHALATE	330	3300 U	UG/KG
2, 4-DIMETHYLPHENOL	670	6700 U	UG/KG
2, 4-DINITROPHENOL	1300	13000 U	UG/KG
2, 4-DINITROTOLUENE	330	3300 U	UG/KG
2, 6-DINITROTOLUENE	330	3300 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	3300 U	UG/KG
FLUORANTHENE	330	3300 U	UG/KG
FLUORENE	330	3300 U	UG/KG
HEXACHLOROBENZENE	330	3300 U	UG/KG
HEXACHLOROBUTADIENE	330	3300 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	3300 U	UG/KG
HEXACHLOROETHANE	330	3300 U	UG/KG
ISOPHORONE	330	3300 U	UG/KG
2-METHYLNAPHTHALENE	670	6700 U	UG/KG
4, 6-DINITRO-2-METHYLPHENOL	1300	13000 U	UG/KG

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : SS-SD-01

Date Sampled : 03/14/97 Order #: 135326 Sample Matrix: SOLID
 Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/16/97			
ANALYTICAL DILUTION: 10.0			
4-CHLORO-3-METHYLPHENOL	670	6700 U	UG/KG
2-METHYLPHENOL	670	6700 U	UG/KG
4-METHYLPHENOL	670	6700 U	UG/KG
NAPHTHALENE	330	3300 U	UG/KG
2-NITROANILINE	330	3300 U	UG/KG
3-NITROANILINE	330	3300 U	UG/KG
4-NITROANILINE	330	3300 U	UG/KG
NITROBENZENE	330	3300 U	UG/KG
2-NITROPHENOL	670	6700 U	UG/KG
4-NITROPHENOL	1300	13000 U	UG/KG
N-NITROSODIMETHYLAMINE	330	3300 U	UG/KG
N-NITROSODIPHENYLAMINE	330	3300 U	UG/KG
DI-N-OCTYL PHTHALATE	330	3300 U	UG/KG
PENTACHLOROPHENOL	1300	13000 U	UG/KG
PHENANTHRENE	330	3300 U	UG/KG
PHENOL	670	6700 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	3300 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	3300 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	3300 U	UG/KG
PYRENE	330	3300 U	UG/KG
1,2,4-TRICHLOROBENZENE	330	3300 U	UG/KG
2,4,6-TRICHLOROPHENOL	670	6700 U	UG/KG
2,4,5-TRICHLOROPHENOL	670	6700 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(18 - 137 %)	111	%
NITROBENZENE-d5	(23 - 120 %)	102	%
PHENOL-d6	(24 - 113 %)	106	%
2-FLUOROBIPHENYL	(30 - 115 %)	114	%
2-FLUOROPHENOL	(25 - 121 %)	114	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	29	%

EMCON

Project Reference: GM/DELPHI INT L+S
client Sample ID : SS-SD-01

Date Sampled : 03/14/97 Order #: 135326 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15698

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/17/97		
DATE ANALYZED	: 03/18/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	61	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	100	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MD-SD-10

Date Sampled : 03/14/97

Order #: 135327

Sample Matrix: WATER

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	0.0100	0.0321	MG/L	03/19/97	1.0
BARIUM	0.0200	3.19	MG/L	03/19/97	1.0
CADMIUM	0.00500	0.161	MG/L	03/19/97	1.0
CHROMIUM	0.0100	0.467	MG/L	03/19/97	1.0
LEAD	0.0500	2.50	MG/L	03/19/97	1.0
MERCURY	0.000300	0.0976	MG/L	03/19/97	50.0
SELENIUM	0.0100	0.0245	MG/L	03/19/97	1.0
SILVER	0.0100	0.0121	MG/L	03/19/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MD-SD-10

Date Sampled : 03/14/97 Order #: 135327 Sample Matrix: WATER
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15754

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/18/97		
DATE ANALYZED	: 03/24/97		
ANALYTICAL DILUTION:	20.0		
PCB 1016	0.50	10 U	UG/L
PCB 1221	0.50	10 U	UG/L
PCB 1232	0.50	10 U	UG/L
PCB 1242	0.50	10 U	UG/L
PCB 1248	0.50	10 U	UG/L
PCB 1254	0.50	65	UG/L
PCB 1260	0.50	10 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	54 D	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	72 D	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MD-SD-06

Date Sampled : 03/14/97

Order #: 135328

Sample Matrix: SOIL/SEDIMENT

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	2.60 U	UG/G	03/17/97	1.0
BARIUM	2.00	340	UG/G	03/17/97	1.0
CADMIUM	0.500	16.1	UG/G	03/17/97	1.0
CHROMIUM	1.00	108	UG/G	03/17/97	1.0
LEAD	5.00	395	UG/G	03/17/97	1.0
MERCURY	0.150	35.1	UG/G	03/17/97	10.0
SELENIUM	0.500	1.68	UG/G	03/17/97	1.0
SILVER	1.00	2.60 U	UG/G	03/17/97	1.0
WET CHEMISTRY					
PERCENT SOLIDS	1.0	38.5	%	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MD-SD-06

Date Sampled : 03/14/97 Order #: 135328 Sample Matrix: SOIL/SEDIMENT
 Date Received: 03/15/97 Submission #: 9703000206 Percent Solid: 38.5

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/19/97			
ANALYTICAL DILUTION: 125.0			Dry Weight
ACETONE	20	6500 U	UG/KG
BENZENE	5.0	1600 U	UG/KG
BROMODICHLOROMETHANE	5.0	1600 U	UG/KG
BROMOFORM	5.0	1600 U	UG/KG
BROMOMETHANE	5.0	1600 U	UG/KG
2-BUTANONE (MEK)	10	3200 U	UG/KG
CARBON DISULFIDE	10	3200 U	UG/KG
CARBON TETRACHLORIDE	5.0	1600 U	UG/KG
CHLOROBENZENE	5.0	1600 U	UG/KG
CHLOROETHANE	5.0	1600 U	UG/KG
CHLOROFORM	5.0	1600 U	UG/KG
CHLOROMETHANE	5.0	1600 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	1600 U	UG/KG
1,1-DICHLOROETHANE	5.0	1600 U	UG/KG
1,2-DICHLOROETHANE	5.0	1600 U	UG/KG
1,1-DICHLOROETHENE	5.0	1600 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	1600 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	1600 U	UG/KG
1,2-DICHLOROPROPANE	5.0	1600 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	1600 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	1600 U	UG/KG
ETHYLBENZENE	5.0	1600 U	UG/KG
2-HEXANONE	10	3200 U	UG/KG
METHYLENE CHLORIDE	5.0	1600 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	3200 U	UG/KG
STYRENE	5.0	1600 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	1600 U	UG/KG
TETRACHLOROETHENE	5.0	1600 U	UG/KG
TOLUENE	5.0	1600 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	1600 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	1600 U	UG/KG
TRICHLOROETHENE	5.0	1600 U	UG/KG
VINYL CHLORIDE	5.0	1600 U	UG/KG
O-XYLENE	5.0	1600 U	UG/KG
M+P-XYLENE	5.0	1600 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(74 - 121 %)	84	%
TOLUENE-D8	(81 - 117 %)	100	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	111	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MD-SD-06

Date Sampled : 03/14/97 Order #: 135328 Sample Matrix: SOIL/SEDIMENT
Date Received: 03/15/97 Submission #: 9703000206 Percent Solid: 38.5

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/16/97			
ANALYTICAL DILUTION: 10.0			Dry Weight
ACENAPHTHENE	330	8600 U	UG/KG
ACENAPHTHYLENE	330	8600 U	UG/KG
ANTHRACENE	330	8600 U	UG/KG
BENZO (A) ANTHRACENE	330	8600 U	UG/KG
BENZO (A) PYRENE	330	8600 U	UG/KG
BENZO (B) FLUORANTHENE	330	8600 U	UG/KG
BENZO (G, H, I) PERYLENE	330	8600 U	UG/KG
BENZO (K) FLUORANTHENE	330	8600 U	UG/KG
BENZYL ALCOHOL	330	8600 U	UG/KG
BUTYL BENZYL PHTHALATE	330	8600 U	UG/KG
DI-N-BUTYLPHTHALATE	330	8600 U	UG/KG
CARBAZOLE	330	8600 U	UG/KG
INDENO (1, 2, 3-CD) PYRENE	330	8600 U	UG/KG
4-CHLOROANILINE	330	8600 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	8600 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	8600 U	UG/KG
2-CHLORONAPHTHALENE	330	8600 U	UG/KG
2-CHLOROPHENOL	670	17000 U	UG/KG
2, 2'-OXYBIS (1-CHLOROPROPANE)	330	8600 U	UG/KG
CHRYSENE	330	8600 U	UG/KG
DIBENZO (A, H) ANTHRACENE	330	8600 U	UG/KG
DIBENZOFURAN	330	8600 U	UG/KG
1, 3-DICHLOROBENZENE	330	8600 U	UG/KG
1, 2-DICHLOROBENZENE	330	8600 U	UG/KG
1, 4-DICHLOROBENZENE	330	8600 U	UG/KG
3, 3'-DICHLOROBENZIDINE	330	8600 U	UG/KG
2, 4-DICHLOROPHENOL	670	17000 U	UG/KG
DIETHYLPHTHALATE	330	8600 U	UG/KG
DIMETHYL PHTHALATE	330	8600 U	UG/KG
2, 4-DIMETHYLPHENOL	670	17000 U	UG/KG
2, 4-DINITROPHENOL	1300	34000 U	UG/KG
2, 4-DINITROTOLUENE	330	8600 U	UG/KG
2, 6-DINITROTOLUENE	330	8600 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	8600 U	UG/KG
FLUORANTHENE	330	8600 U	UG/KG
FLUORENE	330	8600 U	UG/KG
HEXACHLOROBENZENE	330	8600 U	UG/KG
HEXACHLOROBUTADIENE	330	8600 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	8600 U	UG/KG
HEXACHLOROETHANE	330	8600 U	UG/KG
ISOPHORONE	330	8600 U	UG/KG
2-METHYLNAPHTHALENE	670	17000 U	UG/KG
4, 6-DINITRO-2-METHYLPHENOL	1300	34000 U	UG/KG

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MD-SD-06

Date Sampled : 03/14/97 Order #: 135328 Sample Matrix: SOIL/SEDIMENT
Date Received: 03/15/97 Submission #: 9703000206 Percent Solid: 38.5

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/16/97			
ANALYTICAL DILUTION: 10.0			Dry Weight
4-CHLORO-3-METHYLPHENOL	670	17000 U	UG/KG
2-METHYLPHENOL	670	17000 U	UG/KG
4-METHYLPHENOL	670	17000 U	UG/KG
NAPHTHALENE	330	8600 U	UG/KG
2-NITROANILINE	330	8600 U	UG/KG
3-NITROANILINE	330	8600 U	UG/KG
4-NITROANILINE	330	8600 U	UG/KG
NITROBENZENE	330	8600 U	UG/KG
2-NITROPHENOL	670	17000 U	UG/KG
4-NITROPHENOL	1300	34000 U	UG/KG
N-NITROSODIMETHYLAMINE	330	8600 U	UG/KG
N-NITROSODIPHENYLAMINE	330	8600 U	UG/KG
DI-N-OCTYL PHTHALATE	330	8600 U	UG/KG
PENTACHLOROPHENOL	1300	34000 U	UG/KG
PHENANTHRENE	330	8600 U	UG/KG
PHENOL	670	17000 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	8600 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	8600 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	8600 U	UG/KG
PYRENE	330	8600 U	UG/KG
1,2,4-TRICHLOROBENZENE	330	8600 U	UG/KG
2,4,6-TRICHLOROPHENOL	670	17000 U	UG/KG
2,4,5-TRICHLOROPHENOL	670	17000 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(18 - 137 %)	108	%
NITROBENZENE-d5	(23 - 120 %)	103	%
PHENOL-d6	(24 - 113 %)	99	%
2-FLUOROBIPHENYL	(30 - 115 %)	113	%
2-FLUOROPHENOL	(25 - 121 %)	109	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	27	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MD-SD-06

Date Sampled : 03/14/97 Order #: 135328 Sample Matrix: SOIL/SEDIMENT
Date Received: 03/15/97 Submission #: 9703000206 Percent Solid: 38.5

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/17/97			
DATE ANALYZED : 03/24/97			
ANALYTICAL DILUTION: 5.0			Dry Weight
PCB 1016	400	5200 U	UG/KG
PCB 1221	400	5200 U	UG/KG
PCB 1232	400	5200 U	UG/KG
PCB 1242	400	5200 U	UG/KG
PCB 1248	400	5200 U	UG/KG
PCB 1254	400	18000	UG/KG
PCB 1260	400	5200 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	82	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	106	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :MG-SD-01

Date Sampled : 03/14/97

Order #: 135329

Sample Matrix: SOIL/SEDIMENT

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	3.40	UG/G	03/17/97	1.0
BARIUM	2.00	106	UG/G	03/17/97	1.0
CADMIUM	0.500	4.94	UG/G	03/17/97	1.0
CHROMIUM	1.00	220	UG/G	03/17/97	1.0
LEAD	5.00	747	UG/G	03/17/97	1.0
MERCURY	0.150	0.535	UG/G	03/17/97	1.0
SELENIUM	0.500	0.612 U	UG/G	03/17/97	1.0
SILVER	1.00	1.22 U	UG/G	03/17/97	1.0
WET CHEMISTRY					
PERCENT SOLIDS	1.0	81.7	%	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S
Client Sample ID : MG-SD-01

Date Sampled : 03/14/97 Order #: 135329 Sample Matrix: SOIL/SEDIM
Date Received: 03/15/97 Submission #: 9703000206 Percent Solid: 81.7

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/17/97		
DATE ANALYZED	: 03/18/97		
ANALYTICAL DILUTION:	1.0		Dry Weigh
PCB 1016	400	490 U	UG/KG
PCB 1221	400	490 U	UG/KG
PCB 1232	400	490 U	UG/KG
PCB 1242	400	490 U	UG/KG
PCB 1248	400	490 U	UG/KG
PCB 1254	400	490 U	UG/KG
PCB 1260	400	490 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	79	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	99	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :PH-SD-04

Date Sampled : 03/14/97

Order #: 135330

Sample Matrix: SOLID

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	36.8	UG/G	03/17/97	1.0
BARIUM	2.00	798	UG/G	03/17/97	1.0
CADMIUM	0.500	9.25	UG/G	03/17/97	1.0
CHROMIUM	1.00	119	UG/G	03/17/97	1.0
LEAD	5.00	928	UG/G	03/17/97	1.0
MERCURY	0.150	1.70	UG/G	03/17/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	5.44	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : PH-SD-04

Date Sampled : 03/14/97 Order #: 135330 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15698

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/17/97			
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	46	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	106	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :WW-SD-01

Date Sampled : 03/14/97
Date Received: 03/15/97Order #: 135331
Submission #:9703000206

Sample Matrix: SOLID

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/18/97	1.0
BARIUM	2.00	646	UG/G	03/18/97	1.0
CADMIUM	0.500	6.81	UG/G	03/18/97	1.0
CHROMIUM	1.00	41600	UG/G	03/18/97	100.0
LEAD	5.00	839	UG/G	03/18/97	1.0
MERCURY	0.150	1.28	UG/G	03/17/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/18/97	1.0
SILVER	1.00	2.48	UG/G	03/18/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-08

Date Sampled : 03/14/97 Order #: 135332 Sample Matrix: WATER
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15754

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/18/97			
DATE ANALYZED : 03/20/97			
ANALYTICAL DILUTION: 10.0			
PCB 1016	0.50	5.0 U	UG/L
PCB 1221	0.50	5.0 U	UG/L
PCB 1232	0.50	5.0 U	UG/L
PCB 1242	0.50	5.0 U	UG/L
PCB 1248	0.50	5.0 U	UG/L
PCB 1254	0.50	5.0 U	UG/L
PCB 1260	0.50	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	22 *	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	42	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :PH-SD-03

Date Sampled : 03/14/97

Order #: 135333

Sample Matrix: SOIL/SEDIMENT

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	25.9	UG/G	03/17/97	1.0
BARIUM	2.00	457	UG/G	03/17/97	1.0
CADMIUM	0.500	18.7	UG/G	03/17/97	1.0
CHROMIUM	1.00	295	UG/G	03/17/97	1.0
LEAD	5.00	1920	UG/G	03/17/97	1.0
MERCURY	0.150	3.85	UG/G	03/17/97	1.0
SELENIUM	0.500	1.05 U	UG/G	03/17/97	1.0
SILVER	1.00	2.11 U	UG/G	03/17/97	1.0
WET CHEMISTRY					
PERCENT SOLIDS	1.0	47.5	%	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : PH-SD-03

Date Sampled : 03/14/97 Order #: 135333 Sample Matrix: SOIL/SEDIM
Date Received: 03/15/97 Submission #: 9703000206 Percent Solid: 47.5

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/17/97		
DATE ANALYZED	: 03/18/97		
ANALYTICAL DILUTION:	1.0		Dry Weight
PCB 1016	400	840 U	UG/KG
PCB 1221	400	840 U	UG/KG
PCB 1232	400	840 U	UG/KG
PCB 1242	400	840 U	UG/KG
PCB 1248	400	840 U	UG/KG
PCB 1254	400	840 U	UG/KG
PCB 1260	400	840 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	80	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	115	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :PH-SD-01

Date Sampled : 03/14/97

Order #: 135334

Sample Matrix: SOLID

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	3.28	UG/G	03/17/97	1.0
BARIUM	2.00	1570	UG/G	03/17/97	1.0
CADMIUM	0.500	4.23	UG/G	03/17/97	1.0
CHROMIUM	1.00	258	UG/G	03/17/97	1.0
LEAD	5.00	616	UG/G	03/17/97	1.0
MERCURY	0.150	245	UG/G	03/17/97	100.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : PH-SD-01

Date Sampled : 03/14/97 Order #: 135334 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15698

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/17/97		
DATE ANALYZED	: 03/18/97		
ANALYTICAL DILUTION:	1.0		
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	21 *	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	81	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :PH-SD-02

Date Sampled : 03/14/97
Date Received: 03/15/97Order #: 135335
Submission #:9703000206

Sample Matrix: SOLID

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	5.64	UG/G	03/17/97	1.0
BARIUM	2.00	3960	UG/G	03/17/97	1.0
CADMIUM	0.500	15.8	UG/G	03/17/97	1.0
CHROMIUM	1.00	1070	UG/G	03/17/97	1.0
LEAD	5.00	729	UG/G	03/17/97	1.0
MERCURY	0.150	2.56	UG/G	03/17/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : PH-SD-02

Date Sampled : 03/14/97 Order #: 135335 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15698

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/17/97			
DATE ANALYZED : 03/24/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	750	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	91	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	103	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : CG-CC-01

Date Sampled : 03/14/97 Order #: 135336 Sample Matrix: SOLID
 Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15772

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 1.0			
ACETONE	20	20 U	UG/KG
BENZENE	5.0	5.0 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.0 U	UG/KG
BROMOFORM	5.0	5.0 U	UG/KG
BROMOMETHANE	5.0	5.0 U	UG/KG
2-BUTANONE (MEK)	10	10 U	UG/KG
CARBON DISULFIDE	10	10 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.0 U	UG/KG
CHLOROBENZENE	5.0	5.0 U	UG/KG
CHLOROETHANE	5.0	5.0 U	UG/KG
CHLOROFORM	5.0	5.0 U	UG/KG
CHLOROMETHANE	5.0	5.0 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.0 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
ETHYLBENZENE	5.0	5.0 U	UG/KG
2-HEXANONE	10	10 U	UG/KG
METHYLENE CHLORIDE	5.0	5.0 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/KG
STYRENE	5.0	5.0 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/KG
TETRACHLOROETHENE	5.0	5.0 U	UG/KG
TOLUENE	5.0	6.9	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/KG
TRICHLOROETHENE	5.0	5.0 U	UG/KG
VINYL CHLORIDE	5.0	5.0 U	UG/KG
O-XYLENE	5.0	5.0 U	UG/KG
M+P-XYLENE	5.0	5.0 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(74 - 121 %)	88	%
TOLUENE-D8	(81 - 117 %)	94	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	93	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : CG-CC-01

Date Sampled : 03/14/97 Order #: 135336 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15698

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/17/97			
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

DECACHLOROBIPHENYL
TETRACHLORO-META-XYLENE

(30 - 150 %)
(30 - 150 %)

38 %
89 %

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :PSB-CC-01

Date Sampled : 03/14/97

Order #: 135337

Sample Matrix: SOLID

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	4.31	UG/G	03/17/97	1.0
BARIUM	2.00	214	UG/G	03/17/97	1.0
CADMIUM	0.500	2.57	UG/G	03/17/97	1.0
CHROMIUM	1.00	59.6	UG/G	03/17/97	1.0
LEAD	5.00	62.1	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.500 U	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : PSB-CC-01

Date Sampled : 03/14/97 Order #: 135337 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15772

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/17/97			
ANALYTICAL DILUTION: 5.0			
ACETONE	20	100 U	UG/KG
BENZENE	5.0	25 U	UG/KG
BROMODICHLOROMETHANE	5.0	25 U	UG/KG
BROMOFORM	5.0	25 U	UG/KG
BROMOMETHANE	5.0	25 U	UG/KG
2-BUTANONE (MEK)	10	50 U	UG/KG
CARBON DISULFIDE	10	50 U	UG/KG
CARBON TETRACHLORIDE	5.0	25 U	UG/KG
CHLOROBENZENE	5.0	25 U	UG/KG
CHLOROETHANE	5.0	25 U	UG/KG
CHLOROFORM	5.0	25 U	UG/KG
CHLOROMETHANE	5.0	25 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	25 U	UG/KG
1,1-DICHLOROETHANE	5.0	25 U	UG/KG
1,2-DICHLOROETHANE	5.0	25 U	UG/KG
1,1-DICHLOROETHENE	5.0	25 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	25 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/KG
1,2-DICHLOROPROPANE	5.0	25 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/KG
ETHYLBENZENE	5.0	25 U	UG/KG
2-HEXANONE	10	50 U	UG/KG
METHYLENE CHLORIDE	5.0	25 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/KG
STYRENE	5.0	25 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/KG
TETRACHLOROETHENE	5.0	25 U	UG/KG
TOLUENE	5.0	25 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/KG
TRICHLOROETHENE	5.0	25 U	UG/KG
VINYL CHLORIDE	5.0	25 U	UG/KG
O-XYLENE	5.0	25 U	UG/KG
M+P-XYLENE	5.0	25 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(74 - 121 %)	103	%
TOLUENE-D8	(81 - 117 %)	99	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	93	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : PSB-CC-01

Date Sampled : 03/14/97 Order #: 135337 Sample Matrix: SOLID
 Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/16/97			
ANALYTICAL DILUTION: 10.0			
ACENAPHTHENE	330	3300 U	UG/KG
ACENAPHTHYLENE	330	3300 U	UG/KG
ANTHRACENE	330	3300 U	UG/KG
BENZO (A) ANTHRACENE	330	3300 U	UG/KG
BENZO (A) PYRENE	330	3300 U	UG/KG
BENZO (B) FLUORANTHENE	330	3300 U	UG/KG
BENZO (G, H, I) PERYLENE	330	3300 U	UG/KG
BENZO (K) FLUORANTHENE	330	3300 U	UG/KG
BENZYL ALCOHOL	330	3300 U	UG/KG
BUTYL BENZYL PHTHALATE	330	3300 U	UG/KG
DI-N-BUTYLPHTHALATE	330	3300 U	UG/KG
CARBAZOLE	330	3300 U	UG/KG
INDENO (1, 2, 3-CD) PYRENE	330	3300 U	UG/KG
4-CHLOROANILINE	330	3300 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	3300 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	3300 U	UG/KG
2-CHLORONAPHTHALENE	330	3300 U	UG/KG
2-CHLOROPHENOL	670	6700 U	UG/KG
2, 2'-OXYBIS (1-CHLOROPROPANE)	330	3300 U	UG/KG
CHRYSENE	330	3300 U	UG/KG
DIBENZO (A, H) ANTHRACENE	330	3300 U	UG/KG
DIBENZOFURAN	330	3300 U	UG/KG
1, 3-DICHLOROBENZENE	330	3300 U	UG/KG
1, 2-DICHLOROBENZENE	330	3300 U	UG/KG
1, 4-DICHLOROBENZENE	330	3300 U	UG/KG
3, 3'-DICHLOROBENZIDINE	330	3300 U	UG/KG
2, 4-DICHLOROPHENOL	670	6700 U	UG/KG
DIETHYLPHTHALATE	330	3300 U	UG/KG
DIMETHYL PHTHALATE	330	3300 U	UG/KG
2, 4-DIMETHYLPHENOL	670	6700 U	UG/KG
2, 4-DINITROPHENOL	1300	13000 U	UG/KG
2, 4-DINITROTOLUENE	330	3300 U	UG/KG
2, 6-DINITROTOLUENE	330	3300 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	3300 U	UG/KG
FLUORANTHENE	330	3300 U	UG/KG
FLUORENE	330	3300 U	UG/KG
HEXACHLOROBENZENE	330	3300 U	UG/KG
HEXACHLOROBUTADIENE	330	3300 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	3300 U	UG/KG
HEXACHLOROETHANE	330	3300 U	UG/KG
ISOPHORONE	330	3300 U	UG/KG
2-METHYLNAPHTHALENE	670	6700 U	UG/KG
4, 6-DINITRO-2-METHYLPHENOL	1300	13000 U	UG/KG

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : PSB-CC-01

Date Sampled : 03/14/97 Order #: 135337 Sample Matrix: SOLID
 Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/16/97			
ANALYTICAL DILUTION: 10.0			
4-CHLORO-3-METHYLPHENOL	670	6700 U	UG/KG
2-METHYLPHENOL	670	6700 U	UG/KG
4-METHYLPHENOL	670	6700 U	UG/KG
NAPHTHALENE	330	3300 U	UG/KG
2-NITROANILINE	330	3300 U	UG/KG
3-NITROANILINE	330	3300 U	UG/KG
4-NITROANILINE	330	3300 U	UG/KG
NITROBENZENE	330	3300 U	UG/KG
2-NITROPHENOL	670	6700 U	UG/KG
4-NITROPHENOL	1300	13000 U	UG/KG
N-NITROSODIMETHYLAMINE	330	3300 U	UG/KG
N-NITROSODIPHENYLAMINE	330	3300 U	UG/KG
DI-N-OCTYL PHTHALATE	330	3300 U	UG/KG
PENTACHLOROPHENOL	1300	13000 U	UG/KG
PHENANTHRENE	330	3300 U	UG/KG
PHENOL	670	6700 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	3300 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	3300 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	3300 U	UG/KG
PYRENE	330	3300 U	UG/KG
1,2,4-TRICHLOROBENZENE	330	3300 U	UG/KG
2,4,6-TRICHLOROPHENOL	670	6700 U	UG/KG
2,4,5-TRICHLOROPHENOL	670	6700 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(18 - 137 %)	106	%
NITROBENZENE-d5	(23 - 120 %)	99	%
PHENOL-d6	(24 - 113 %)	95	%
2-FLUOROBIPHENYL	(30 - 115 %)	106	%
2-FLUOROPHENOL	(25 - 121 %)	109	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	27	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : PSB-CC-01

Date Sampled : 03/14/97 Order #: 135337 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15698

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/17/97			
DATE ANALYZED : 03/24/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	61	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	80	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-GAL-02

Date Sampled : 03/13/97 Order #: 135338 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15698

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/17/97		
DATE ANALYZED	: 03/24/97		
ANALYTICAL DILUTION:	1000.0		
PCB 1016	400	400000 U	UG/KG
PCB 1221	400	400000 U	UG/KG
PCB 1232	400	400000 U	UG/KG
PCB 1242	400	400000 U	UG/KG
PCB 1248	400	400000 U	UG/KG
PCB 1254	400	400000 U	UG/KG
PCB 1260	400	2600000	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	D	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	D	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-GAL-01

Date Sampled : 03/13/97 Order #: 135339 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15698

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/17/97			
DATE ANALYZED : 03/24/97			
ANALYTICAL DILUTION: 10.0			
PCB 1016	400	4000 U	UG/KG
PCB 1221	400	4000 U	UG/KG
PCB 1232	400	4000 U	UG/KG
PCB 1242	400	4000 U	UG/KG
PCB 1248	400	4000 U	UG/KG
PCB 1254	400	4000 U	UG/KG
PCB 1260	400	39000	UG/KG

SURROGATE RECOVERIESQC LIMITS

DECACHLOROBIPHENYL
TETRACHLORO-META-XYLENE

(30 - 150 %)
(30 - 150 %)

358 *
88

%
%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-GAL-03

Date Sampled : 03/13/97 Order #: 135340 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15698

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/17/97			
DATE ANALYZED : 03/24/97			
ANALYTICAL DILUTION: 10.0			
PCB 1016	400	4000 U	UG/KG
PCB 1221	400	4000 U	UG/KG
PCB 1232	400	4000 U	UG/KG
PCB 1242	400	4000 U	UG/KG
PCB 1248	400	4000 U	UG/KG
PCB 1254	400	4000 U	UG/KG
PCB 1260	400	38000	UG/KG

SURROGATE RECOVERIESQC LIMITS

DECACHLOROBIPHENYL	(30 - 150 %)	706 *	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	82	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-GAL-04

Date Sampled : 03/13/97 Order #: 135341 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15698

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/17/97			
DATE ANALYZED : 03/24/97			
ANALYTICAL DILUTION: 100.0			
PCB 1016	400	40000 U	UG/KG
PCB 1221	400	40000 U	UG/KG
PCB 1232	400	40000 U	UG/KG
PCB 1242	400	40000 U	UG/KG
PCB 1248	400	40000 U	UG/KG
PCB 1254	400	40000 U	UG/KG
PCB 1260	400	130000	UG/KG

SURROGATE RECOVERIESQC LIMITSDECACHLOROBIPHENYL
TETRACHLORO-META-XYLENE(30 - 150 %)
(30 - 150 %)D %
D %

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-GAL-05

Date Sampled : 03/13/97 Order #: 135342 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15698

ANALYTE	PQL	RESULT	UNITS	-
DATE EXTRACTED	: 03/17/97			
DATE ANALYZED	: 03/24/97			
ANALYTICAL DILUTION:	10.0			
PCB 1016	400	4000 U	UG/KG	
PCB 1221	400	4000 U	UG/KG	
PCB 1232	400	4000 U	UG/KG	
PCB 1242	400	4000 U	UG/KG	
PCB 1248	400	4000 U	UG/KG	
PCB 1254	400	4000 U	UG/KG	
PCB 1260	400	26000	UG/KG	

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	792 *	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	43	%

EMCON

Project Reference: GM/DELPHI INT L+S
Client Sample ID : MB-GAL-06

Date Sampled : 03/13/97 Order #: 135343 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15698

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/17/97			
DATE ANALYZED : 03/24/97			
ANALYTICAL DILUTION: 10.0			
PCB 1016	400	4000 U	UG/KG
PCB 1221	400	4000 U	UG/KG
PCB 1232	400	4000 U	UG/KG
PCB 1242	400	4000 U	UG/KG
PCB 1248	400	4000 U	UG/KG
PCB 1254	400	4000 U	UG/KG
PCB 1260	400	25000	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	365 *	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	53	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-GAL-07

Date Sampled : 03/13/97 Order #: 135344 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15699

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/17/97			
DATE ANALYZED : 03/24/97			
ANALYTICAL DILUTION: 100.0			
PCB 1016	400	40000 U	UG/KG
PCB 1221	400	40000 U	UG/KG
PCB 1232	400	40000 U	UG/KG
PCB 1242	400	40000 U	UG/KG
PCB 1248	400	40000 U	UG/KG
PCB 1254	400	40000 U	UG/KG
PCB 1260	400	220000	UG/KG

SURROGATE RECOVERIESQC LIMITS

DECACHLOROBIPHENYL	(30 - 150 %)	D	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	D	%

EMCON

Project Reference: GM/DELPHI INT L+S
Client Sample ID : MB-GAL-08

Date Sampled : 03/13/97 Order #: 135345 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15699

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/17/97		
DATE ANALYZED	: 03/24/97		
ANALYTICAL DILUTION:	500.0		
PCB 1016	400	200000 U	UG/KG
PCB 1221	400	200000 U	UG/KG
PCB 1232	400	200000 U	UG/KG
PCB 1242	400	200000 U	UG/KG
PCB 1248	400	200000 U	UG/KG
PCB 1254	400	200000 U	UG/KG
PCB 1260	400	930000	UG/KG

SURROGATE RECOVERIESQC LIMITS

DECACHLOROBIPHENYL	(30 - 150 %)	D	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	D	%

COLUMBIA ANALYTICAL SERVICESEXTRACTABLE ORGANICS
METHOD 8080 PCBS
Reported: 03/28/97

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-GAL-09

Date Sampled : 03/13/97 Order #: 135347 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15699

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/17/97		
DATE ANALYZED	: 03/24/97		
ANALYTICAL DILUTION:	10.0		
PCB 1016	400	4000 U	UG/KG
PCB 1221	400	4000 U	UG/KG
PCB 1232	400	4000 U	UG/KG
PCB 1242	400	4000 U	UG/KG
PCB 1248	400	4000 U	UG/KG
PCB 1254	400	4000 U	UG/KG
PCB 1260	400	27000	UG/KG

SURROGATE RECOVERIESQC LIMITS

DECACHLOROBIPHENYL	(30 - 150 %)	492 *	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	85	%

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-GAL-10

Date Sampled : 03/13/97 Order #: 135348 Sample Matrix: SOLID
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15699

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 03/17/97		
DATE ANALYZED	: 03/24/97		
ANALYTICAL DILUTION:	10.0		
PCB 1016	400	4000 U	UG/KG
PCB 1221	400	4000 U	UG/KG
PCB 1232	400	4000 U	UG/KG
PCB 1242	400	4000 U	UG/KG
PCB 1248	400	4000 U	UG/KG
PCB 1254	400	4000 U	UG/KG
PCB 1260	400	38000	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	542 *	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	91	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :R05A-11

Date Sampled : 03/12/97

Order #: 135349

Sample Matrix: SOLID

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	8.64	UG/G	03/17/97	1.0
CADMIUM	0.500	0.500 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	4.18	UG/G	03/17/97	1.0
LEAD	5.00	5.00 U	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.791	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :R04A-17

Date Sampled : 03/12/97

Order #: 135350

Sample Matrix: SOLID

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	4.30	UG/G	03/17/97	1.0
CADMIUM	0.500	0.500 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	1.65	UG/G	03/17/97	1.0
LEAD	5.00	5.00 U	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	1.76	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :R02A-07

Date Sampled : 03/12/97

Order #: 135351

Sample Matrix: SOLID

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	3.06	UG/G	03/17/97	1.0
BARIUM	2.00	41.0	UG/G	03/17/97	1.0
CADMIUM	0.500	1.14	UG/G	03/17/97	1.0
CHROMIUM	1.00	6.54	UG/G	03/17/97	1.0
LEAD	5.00	68.7	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	3.24	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :R12E-09

Date Sampled : 03/12/97

Order #: 135352

Sample Matrix: SOLID

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	129	UG/G	03/17/97	1.0
CADMIUM	0.500	0.500 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	59.0	UG/G	03/17/97	1.0
LEAD	5.00	5.00 U	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.777	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :R07E-13

Date Sampled : 03/12/97

Order #: 135353

Sample Matrix: SOLID

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	6.33	UG/G	03/17/97	1.0
CADMIUM	0.500	0.500 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	3.35	UG/G	03/17/97	1.0
LEAD	5.00	5.39	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.791	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :R03I-01

Date Sampled : 03/12/97

Order #: 135354

Sample Matrix: SOLID

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	110	UG/G	03/17/97	1.0
CADMIUM	0.500	0.500 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	18.9	UG/G	03/17/97	1.0
LEAD	5.00	38.7	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	1.89	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : R03M-04

Date Sampled : 03/12/97
Date Received: 03/15/97Order #: 135355
Submission #: 9703000206

Sample Matrix: SOLID

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	45.6	UG/G	03/17/97	1.0
CADMIUM	0.500	0.500 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	172	UG/G	03/17/97	1.0
LEAD	5.00	48.4	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	0.904	UG/G	03/17/97	1.0
SILVER	1.00	1.00 U	UG/G	03/17/97	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 03/27/97

EMCON

Project Reference:GM/DELPHI INT L+S

Client Sample ID :R07A-15

Date Sampled : 03/12/97

Order #: 135356

Sample Matrix: SOLID

Date Received: 03/15/97

Submission #:9703000206

ANALYTE	PQL	RESULT	UNITS	DATE ANALYZED	ANALYTICAL DILUTION
METALS					
ARSENIC	1.00	1.00 U	UG/G	03/17/97	1.0
BARIUM	2.00	26.7	UG/G	03/17/97	1.0
CADMIUM	0.500	0.500 U	UG/G	03/17/97	1.0
CHROMIUM	1.00	15.8	UG/G	03/17/97	1.0
LEAD	5.00	24.3	UG/G	03/17/97	1.0
MERCURY	0.150	0.150 U	UG/G	03/17/97	1.0
SELENIUM	0.500	1.12	UG/G	03/17/97	1.0
SILVER	1.00	1.46	UG/G	03/17/97	1.0

EMCON

Project Reference: GM/DELPHI INT L+S

Client Sample ID : MB-SD-07B (NA)

Date Sampled : 03/14/97 Order #: 135946 Sample Matrix: NON-AQUEOUS
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15778

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/18/97			
DATE ANALYZED : 03/20/97			
ANALYTICAL DILUTION: 10.0			
PCB 1016	500	5000 U	UG/KG
PCB 1221	500	5000 U	UG/KG
PCB 1232	500	5000 U	UG/KG
PCB 1242	500	5000 U	UG/KG
PCB 1248	500	5000 U	UG/KG
PCB 1254	500	5000 U	UG/KG
PCB 1260	500	5000 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	39	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	76	%

EMCON

Project Reference: GM/DELPHI INT L+S
Client Sample ID : MB-SD-09B (NA)

Date Sampled : 03/14/97 Order #: 135947 Sample Matrix: NON-AQUEOUS
Date Received: 03/15/97 Submission #: 9703000206 Analytical Run 15778

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/18/97			
DATE ANALYZED : 03/20/97			
ANALYTICAL DILUTION: 10.0			
PCB 1016	500	5000 U	UG/KG
PCB 1221	500	5000 U	UG/KG
PCB 1232	500	5000 U	UG/KG
PCB 1242	500	5000 U	UG/KG
PCB 1248	500	5000 U	UG/KG
PCB 1254	500	5000 U	UG/KG
PCB 1260	500	5000 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	33	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	61	%

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 136289	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15772

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/17/97			
ANALYTICAL DILUTION: 1.0			
ACETONE	20	20 U	UG/KG
BENZENE	5.0	5.0 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.0 U	UG/KG
BROMOFORM	5.0	5.0 U	UG/KG
BROMOMETHANE	5.0	5.0 U	UG/KG
2-BUTANONE (MEK)	10	10 U	UG/KG
CARBON DISULFIDE	10	10 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.0 U	UG/KG
CHLOROBENZENE	5.0	5.0 U	UG/KG
CHLOROETHANE	5.0	5.0 U	UG/KG
CHLOROFORM	5.0	5.0 U	UG/KG
CHLOROMETHANE	5.0	5.0 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.0 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
ETHYLBENZENE	5.0	5.0 U	UG/KG
2-HEXANONE	10	10 U	UG/KG
METHYLENE CHLORIDE	5.0	5.0 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/KG
STYRENE	5.0	5.0 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/KG
TETRACHLOROETHENE	5.0	5.0 U	UG/KG
TOLUENE	5.0	5.0 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/KG
TRICHLOROETHENE	5.0	5.0 U	UG/KG
VINYL CHLORIDE	5.0	5.0 U	UG/KG
O-XYLENE	5.0	5.0 U	UG/KG
M+P-XYLENE	5.0	5.0 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(74 - 121 %)	103	%
TOLUENE-D8	(81 - 117 %)	101	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	99	%

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 136273	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15772

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 1.0			
ACETONE	20	20 U	UG/KG
BENZENE	5.0	5.0 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.0 U	UG/KG
BROMOFORM	5.0	5.0 U	UG/KG
BROMOMETHANE	5.0	5.0 U	UG/KG
2-BUTANONE (MEK)	10	10 U	UG/KG
CARBON DISULFIDE	10	10 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.0 U	UG/KG
CHLOROBENZENE	5.0	5.0 U	UG/KG
CHLOROETHANE	5.0	5.0 U	UG/KG
CHLOROFORM	5.0	5.0 U	UG/KG
CHLOROMETHANE	5.0	5.0 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.0 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
ETHYLBENZENE	5.0	5.0 U	UG/KG
2-HEXANONE	10	10 U	UG/KG
METHYLENE CHLORIDE	5.0	5.0 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/KG
STYRENE	5.0	5.0 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/KG
TETRACHLOROETHENE	5.0	5.0 U	UG/KG
TOLUENE	5.0	5.0 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/KG
TRICHLOROETHENE	5.0	5.0 U	UG/KG
VINYL CHLORIDE	5.0	5.0 U	UG/KG
O-XYLENE	5.0	5.0 U	UG/KG
M+P-XYLENE	5.0	5.0 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(74 - 121 %)	101	%
TOLUENE-D8	(81 - 117 %)	102	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	100	%

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 136269	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15772

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 125.0			
ACETONE	20	2500 U	UG/KG
BENZENE	5.0	630 U	UG/KG
BROMODICHLOROMETHANE	5.0	630 U	UG/KG
BROMOFORM	5.0	630 U	UG/KG
BROMOMETHANE	5.0	630 U	UG/KG
2-BUTANONE (MEK)	10	1300 U	UG/KG
CARBON DISULFIDE	10	1300 U	UG/KG
CARBON TETRACHLORIDE	5.0	630 U	UG/KG
CHLOROBENZENE	5.0	630 U	UG/KG
CHLOROETHANE	5.0	630 U	UG/KG
CHLOROFORM	5.0	630 U	UG/KG
CHLOROMETHANE	5.0	630 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHANE	5.0	630 U	UG/KG
1,2-DICHLOROETHANE	5.0	630 U	UG/KG
1,1-DICHLOROETHENE	5.0	630 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	630 U	UG/KG
1,2-DICHLOROPROPANE	5.0	630 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	630 U	UG/KG
ETHYLBENZENE	5.0	630 U	UG/KG
2-HEXANONE	10	1300 U	UG/KG
METHYLENE CHLORIDE	5.0	630 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	1300 U	UG/KG
STYRENE	5.0	630 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	630 U	UG/KG
TETRACHLOROETHENE	5.0	630 U	UG/KG
TOLUENE	5.0	630 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	630 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	630 U	UG/KG
TRICHLOROETHENE	5.0	630 U	UG/KG
VINYL CHLORIDE	5.0	630 U	UG/KG
O-XYLENE	5.0	630 U	UG/KG
M+P-XYLENE	5.0	630 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(74 - 121 %)	90	%
TOLUENE-D8	(81 - 117 %)	101	%
DIBROMOFLUOROMETHANE	(80 - 120 %)	100	%

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 135366	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15674

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 10.0			
ACENAPHTHENE	330	3300 U	UG/KG
ACENAPHTHYLENE	330	3300 U	UG/KG
ANTHRACENE	330	3300 U	UG/KG
BENZO (A) ANTHRACENE	330	3300 U	UG/KG
BENZO (A) PYRENE	330	3300 U	UG/KG
BENZO (B) FLUORANTHENE	330	3300 U	UG/KG
BENZO (G, H, I) PERYLENE	330	3300 U	UG/KG
BENZO (K) FLUORANTHENE	330	3300 U	UG/KG
BENZYL ALCOHOL	330	3300 U	UG/KG
BUTYL BENZYL PHTHALATE	330	3300 U	UG/KG
DI-N-BUTYLPHTHALATE	330	3300 U	UG/KG
CARBAZOLE	330	3300 U	UG/KG
INDENO (1, 2, 3-CD) PYRENE	330	3300 U	UG/KG
4-CHLOROANILINE	330	3300 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	3300 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	3300 U	UG/KG
2-CHLORONAPHTHALENE	330	3300 U	UG/KG
2-CHLOROPHENOL	670	6700 U	UG/KG
2,2'-OXYBIS (1-CHLOROPROPANE)	330	3300 U	UG/KG
CHRYSENE	330	3300 U	UG/KG
DIBENZO (A, H) ANTHRACENE	330	3300 U	UG/KG
DIBENZOFURAN	330	3300 U	UG/KG
1,3-DICHLOROBENZENE	330	3300 U	UG/KG
1,2-DICHLOROBENZENE	330	3300 U	UG/KG
1,4-DICHLOROBENZENE	330	3300 U	UG/KG
3,3'-DICHLOROBENZIDINE	330	3300 U	UG/KG
2,4-DICHLOROPHENOL	670	6700 U	UG/KG
DIETHYLPHTHALATE	330	3300 U	UG/KG
DIMETHYL PHTHALATE	330	3300 U	UG/KG
2,4-DIMETHYLPHENOL	670	6700 U	UG/KG
2,4-DINITROPHENOL	1300	13000 U	UG/KG
2,4-DINITROTOLUENE	330	3300 U	UG/KG
2,6-DINITROTOLUENE	330	3300 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	3300 U	UG/KG
FLUORANTHENE	330	3300 U	UG/KG
FLUORENE	330	3300 U	UG/KG
HEXACHLOROBENZENE	330	3300 U	UG/KG
HEXACHLOROBUTADIENE	330	3300 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	3300 U	UG/KG
HEXACHLOROETHANE	330	3300 U	UG/KG
ISOPHORONE	330	3300 U	UG/KG
2-METHYLNAPHTHALENE	670	6700 U	UG/KG
4,6-DINITRO-2-METHYLPHENOL	1300	13000 U	UG/KG
4-CHLORO-3-METHYLPHENOL	670	6700 U	UG/KG

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 135366	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15674

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/15/97			
DATE ANALYZED : 03/15/97			
ANALYTICAL DILUTION: 10.0			
2-METHYLPHENOL	670	6700 U	UG/KG
4-METHYLPHENOL	670	6700 U	UG/KG
NAPHTHALENE	330	3300 U	UG/KG
2-NITROANILINE	330	3300 U	UG/KG
3-NITROANILINE	330	3300 U	UG/KG
4-NITROANILINE	330	3300 U	UG/KG
NITROBENZENE	330	3300 U	UG/KG
2-NITROPHENOL	670	6700 U	UG/KG
4-NITROPHENOL	1300	13000 U	UG/KG
N-NITROSODIMETHYLAMINE	330	3300 U	UG/KG
N-NITROSODIPHENYLAMINE	330	3300 U	UG/KG
DI-N-OCTYL PHTHALATE	330	3300 U	UG/KG
PENTACHLOROPHENOL	1300	13000 U	UG/KG
PHENANTHRENE	330	3300 U	UG/KG
PHENOL	670	6700 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	3300 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	3300 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	3300 U	UG/KG
PYRENE	330	3300 U	UG/KG
1,2,4-TRICHLOROBENZENE	330	3300 U	UG/KG
2,4,6-TRICHLOROPHENOL	670	6700 U	UG/KG
2,4,5-TRICHLOROPHENOL	670	6700 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

TERPHENYL-d14	(18 - 137 %)	117	%
NITROBENZENE-d5	(23 - 120 %)	108	%
PHENOL-d6	(24 - 113 %)	110	%
2-FLUOROBIPHENYL	(30 - 115 %)	105	%
2-FLUOROPHENOL	(25 - 121 %)	121	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	34	%

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 136079	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15753

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/18/97			
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 1.0			
ACENAPHTHENE	330	330 U	UG/KG
ACENAPHTHYLENE	330	330 U	UG/KG
ANTHRACENE	330	330 U	UG/KG
BENZO (A) ANTHRACENE	330	330 U	UG/KG
BENZO (A) PYRENE	330	330 U	UG/KG
BENZO (B) FLUORANTHENE	330	330 U	UG/KG
BENZO (G, H, I) PERYLENE	330	330 U	UG/KG
BENZO (K) FLUORANTHENE	330	330 U	UG/KG
BENZYL ALCOHOL	330	330 U	UG/KG
BUTYL BENZYL PHTHALATE	330	330 U	UG/KG
DI-N-BUTYLPHTHALATE	330	330 U	UG/KG
CARBAZOLE	330	330 U	UG/KG
INDENO (1, 2, 3-CD) PYRENE	330	330 U	UG/KG
4-CHLOROANILINE	330	330 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	330 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	330 U	UG/KG
2-CHLORONAPHTHALENE	330	330 U	UG/KG
2-CHLOROPHENOL	670	670 U	UG/KG
2, 2'-OXYBIS (1-CHLOROPROPANE)	330	330 U	UG/KG
CHRYSENE	330	330 U	UG/KG
DIBENZO (A, H) ANTHRACENE	330	330 U	UG/KG
DIBENZOFURAN	330	330 U	UG/KG
1, 3-DICHLOROBENZENE	330	330 U	UG/KG
1, 2-DICHLOROBENZENE	330	330 U	UG/KG
1, 4-DICHLOROBENZENE	330	330 U	UG/KG
3, 3'-DICHLOROBENZIDINE	330	330 U	UG/KG
2, 4-DICHLOROPHENOL	670	670 U	UG/KG
DIETHYLPHTHALATE	330	330 U	UG/KG
DIMETHYL PHTHALATE	330	330 U	UG/KG
2, 4-DIMETHYLPHENOL	670	670 U	UG/KG
2, 4-DINITROPHENOL	1300	1300 U	UG/KG
2, 4-DINITROTOLUENE	330	330 U	UG/KG
2, 6-DINITROTOLUENE	330	330 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	330 U	UG/KG
FLUORANTHENE	330	330 U	UG/KG
FLUORENE	330	330 U	UG/KG
HEXACHLOROBENZENE	330	330 U	UG/KG
HEXACHLOROBUTADIENE	330	330 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	330 U	UG/KG
HEXACHLOROETHANE	330	330 U	UG/KG
ISOPHORONE	330	330 U	UG/KG
2-METHYLNAPHTHALENE	670	670 U	UG/KG
4, 6-DINITRO-2-METHYLPHENOL	1300	1300 U	UG/KG
4-CHLORO-3-METHYLPHENOL	670	670 U	UG/KG

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 136079	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15753

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/18/97			
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 1.0			
2-METHYLPHENOL	670	670 U	UG/KG
4-METHYLPHENOL	670	670 U	UG/KG
NAPHTHALENE	330	330 U	UG/KG
2-NITROANILINE	330	330 U	UG/KG
3-NITROANILINE	330	330 U	UG/KG
4-NITROANILINE	330	330 U	UG/KG
NITROBENZENE	330	330 U	UG/KG
2-NITROPHENOL	670	670 U	UG/KG
4-NITROPHENOL	1300	1300 U	UG/KG
N-NITROSODIMETHYLAMINE	330	330 U	UG/KG
N-NITROSODIPHENYLAMINE	330	330 U	UG/KG
DI-N-OCTYL PHTHALATE	330	330 U	UG/KG
PENTACHLOROPHENOL	1300	1300 U	UG/KG
PHENANTHRENE	330	330 U	UG/KG
PHENOL	670	670 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	330 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	330 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	330 U	UG/KG
PYRENE	330	330 U	UG/KG
1,2,4-TRICHLOROBENZENE	330	330 U	UG/KG
2,4,6-TRICHLOROPHENOL	670	670 U	UG/KG
2,4,5-TRICHLOROPHENOL	670	670 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(18 - 137 %)	84	%
NITROBENZENE-d5	(23 - 120 %)	78	%
PHENOL-d6	(24 - 113 %)	89	%
2-FLUOROBIPHENYL	(30 - 115 %)	86	%
2-FLUOROPHENOL	(25 - 121 %)	85	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	113	%

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 135922	Sample Matrix: WIPE
Date Received:	Submission #:	Analytical Run 15729

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/18/97			
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 20.0			
ACENAPHTHENE	5.0	100 U	UG/WI
ACENAPHTHYLENE	5.0	100 U	UG/WI
ANTHRACENE	5.0	100 U	UG/WI
BENZO (A) ANTHRACENE	5.0	100 U	UG/WI
BENZO (A) PYRENE	5.0	100 U	UG/WI
BENZO (B) FLUORANTHENE	5.0	100 U	UG/WI
BENZO (G, H, I) PERYLENE	5.0	100 U	UG/WI
BENZO (K) FLUORANTHENE	5.0	100 U	UG/WI
BENZYL ALCOHOL	5.0	100 U	UG/WI
BUTYL BENZYL PHTHALATE	5.0	100 U	UG/WI
DI-N-BUTYLPHTHALATE	5.0	100 U	UG/WI
CARBAZOLE	5.0	100 U	UG/WI
INDENO (1, 2, 3-CD) PYRENE	5.0	100 U	UG/WI
4-CHLOROANILINE	5.0	100 U	UG/WI
BIS (-2-CHLOROETHOXY) METHANE	5.0	100 U	UG/WI
BIS (2-CHLOROETHYL) ETHER	5.0	100 U	UG/WI
2-CHLORONAPHTHALENE	5.0	100 U	UG/WI
2-CHLOROPHENOL	10	200 U	UG/WI
2, 2'-OXYBIS (1-CHLOROPROPANE)	5.0	100 U	UG/WI
CHRYSENE	5.0	100 U	UG/WI
DIBENZO (A, H) ANTHRACENE	5.0	100 U	UG/WI
DIBENZOFURAN	5.0	100 U	UG/WI
1, 3-DICHLOROBENZENE	5.0	100 U	UG/WI
1, 2-DICHLOROBENZENE	5.0	100 U	UG/WI
1, 4-DICHLOROBENZENE	5.0	100 U	UG/WI
3, 3'-DICHLOROBENZIDINE	5.0	100 U	UG/WI
2, 4-DICHLOROPHENOL	10	200 U	UG/WI
DIETHYLPHTHALATE	5.0	100 U	UG/WI
DIMETHYL PHTHALATE	5.0	100 U	UG/WI
2, 4-DIMETHYLPHENOL	10	200 U	UG/WI
2, 4-DINITROPHENOL	20	400 U	UG/WI
2, 4-DINITROTOLUENE	5.0	100 U	UG/WI
2, 6-DINITROTOLUENE	5.0	100 U	UG/WI
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	100 U	UG/WI
FLUORANTHENE	5.0	100 U	UG/WI
FLUORENE	5.0	100 U	UG/WI
HEXACHLOROBENZENE	5.0	100 U	UG/WI
HEXACHLOROBUTADIENE	5.0	100 U	UG/WI
HEXACHLOROCYCLOPENTADIENE	5.0	100 U	UG/WI
HEXACHLOROETHANE	5.0	100 U	UG/WI
ISOPHORONE	5.0	100 U	UG/WI
2-METHYLNAPHTHALENE	10	200 U	UG/WI
4, 6-DINITRO-2-METHYLPHENOL	20	400 U	UG/WI
4-CHLORO-3-METHYLPHENOL	10	200 U	UG/WI

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 135922	Sample Matrix: WIPE
Date Received:	Submission #:	Analytical Run 15729

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/18/97			
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 20.0			
2-METHYLPHENOL	10	200 U	UG/WI
4-METHYLPHENOL	10	200 U	UG/WI
NAPHTHALENE	5.0	100 U	UG/WI
2-NITROANILINE	5.0	100 U	UG/WI
3-NITROANILINE	5.0	100 U	UG/WI
4-NITROANILINE	5.0	100 U	UG/WI
NITROBENZENE	5.0	100 U	UG/WI
2-NITROPHENOL	10	200 U	UG/WI
4-NITROPHENOL	20	400 U	UG/WI
N-NITROSODIMETHYLAMINE	5.0	100 U	UG/WI
N-NITROSODIPHENYLAMINE	5.0	100 U	UG/WI
DI-N-OCTYL PHTHALATE	5.0	100 U	UG/WI
PENTACHLOROPHENOL	20	400 U	UG/WI
PHENANTHRENE	5.0	100 U	UG/WI
PHENOL	10	200 U	UG/WI
4-BROMOPHENYL-PHENYLETHER	5.0	100 U	UG/WI
4-CHLOROPHENYL-PHENYLETHER	5.0	100 U	UG/WI
N-NITROSO-DI-N-PROPYLAMINE	5.0	100 U	UG/WI
PYRENE	5.0	100 U	UG/WI
1,2,4-TRICHLOROBENZENE	5.0	100 U	UG/WI
2,4,6-TRICHLOROPHENOL	10	200 U	UG/WI
2,4,5-TRICHLOROPHENOL	10	200 U	UG/WI

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(18 - 137 %)	85	%
NITROBENZENE-d5	(23 - 120 %)	76	%
PHENOL-d6	(24 - 113 %)	77	%
2-FLUOROBIPHENYL	(30 - 115 %)	99	%
2-FLUOROPHENOL	(25 - 121 %)	85	%
2,4,6-TRIBROMOPHENOL	(19 - 122 %)	43	%

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 135628	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15698

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/17/97			
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(30 - 150 %)	98	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	100	%

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 135632	Sample Matrix: SOLID
Date Received:	Submission #:	Analytical Run 15699

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/17/97			
DATE ANALYZED : 03/18/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	400	400 U	UG/KG
PCB 1221	400	400 U	UG/KG
PCB 1232	400	400 U	UG/KG
PCB 1242	400	400 U	UG/KG
PCB 1248	400	400 U	UG/KG
PCB 1254	400	400 U	UG/KG
PCB 1260	400	400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	94	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	98	%

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 136301	Sample Matrix: NON-AQUEOUS
Date Received:	Submission #:	Analytical Run 15778

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/18/97			
DATE ANALYZED : 03/20/97			
ANALYTICAL DILUTION: 10.0			
PCB 1016	500	5000 U	UG/KG
PCB 1221	500	5000 U	UG/KG
PCB 1232	500	5000 U	UG/KG
PCB 1242	500	5000 U	UG/KG
PCB 1248	500	5000 U	UG/KG
PCB 1254	500	5000 U	UG/KG
PCB 1260	500	5000 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	39	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	91	%

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 136077	Sample Matrix: WIPE
Date Received:	Submission #:	Analytical Run 15752

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/18/97			
DATE ANALYZED : 03/20/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	1.0	1.0 U	UG/WI
PCB 1221	1.0	1.0 U	UG/WI
PCB 1232	1.0	1.0 U	UG/WI
PCB 1242	1.0	1.0 U	UG/WI
PCB 1248	1.0	1.0 U	UG/WI
PCB 1254	1.0	1.0 U	UG/WI
PCB 1260	1.0	1.0 U	UG/WI

SURROGATE RECOVERIESQC LIMITS

DECACHLOROBIPHENYL	(30 - 150 %)	34	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	93	%

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 136082	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 15754

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/18/97			
DATE ANALYZED : 03/20/97			
ANALYTICAL DILUTION: 1.0			
PCB 1016	0.50	0.50 U	UG/L
PCB 1221	0.50	0.50 U	UG/L
PCB 1232	0.50	0.50 U	UG/L
PCB 1242	0.50	0.50 U	UG/L
PCB 1248	0.50	0.50 U	UG/L
PCB 1254	0.50	0.50 U	UG/L
PCB 1260	0.50	0.50 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(30 - 150 %)	31	%
TETRACHLORO-META-XYLENE	(30 - 150 %)	92	%

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM
(800) 695-7222

DATE 3-14-97 PAGE 1 OF 6

[illegible]

COLUMBIA ANALYTICAL SERVICES, INC.

700 Exchange Street, Rochester, New York 14608

(716) 454-6810 • FAX (716) 454-6825

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

(800) 695-7222

DATE 3-14-97 PAGE 2 OF 6

PROJECT NAME <u>Gm / DELPHI INT. L+S</u>					ANALYSIS REQUESTED															
PROJECT MANAGER/CONTACT <u>CHRIS ANDREWS</u>					# OF CONTAINERS	GC/MS VOA's 8260 ☒ 824	GC/MS SVOA's 8270A ☒ 825	GC VOA's 8010/8020 ☐ 601/602	PESTICIDES/PCBs 5080 ☒ 608	STAR'S LIST 8021 VOA's TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's TOTAL ☐ TCLP	TCLP ☐ METALS VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (LIST BELOW)	METALS, DISSOLVED (LIST BELOW)	pH	Zinc	PRESERVATION		
COMPANY/ADDRESS <u>EMCON</u> <u>MAHWAH, NJ</u>																		pH < 2.0	pH > 12	Other
TEL (201) 512 5788 FAX (201) 512 5786																				
SAMPLER'S SIGNATURE <u>Chris Andrews</u>																				
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX																
MB-CC-09	3-14-97	9:45	135311	Concrete core	1				X					X		X				
MB-CC-12		12:20	135312		1				X					X			(X) Add			
MB-CC-02		14:00	135313		1				X					X						
MB-CC-02		08:41	135314		1				X					X						
MB-CC-01		13:10	135315		1				X							X	X			
MB-VS-05C	3-13-97	16:15	135316	residue	1									X						
MB-VS-09	3-13-97	16:30	135318	sediment	1									X		X	X			
PH-R-01	3-14-97	09:45	135317	residue	1									X						
MB-R-011	3-12-97	14:35	135319	residue	1	X	X							X						
PH-R-01	3-14-97	09:45	135320	residue	1				X											

RELINQUISHED BY: Signature <u>Chris Andrews</u> Printed Name <u>Chris Andrews</u> Firm <u>Emcon</u> Date/Time <u>3/14/97 3:36</u>		RECEIVED BY: Signature <u>Tom Hastings</u> Printed Name <u>Tom Hastings</u> Firm <u>Emcon</u> Date/Time <u>3/14/97 3:35</u>		TURNAROUND REQUIREMENTS 24 hr. ☒ 48 hr. ☒ 5 day ☐ Standard (10-15 working days) Provide Verbal Preliminary Results Provide FAX Preliminary Results Requested Report Date _____		REPORT REQUIREMENTS 1. Routine Report 2. Routine Rep. w/CASE Narrative 3. EPA Level III Validatable Package 4. N.J. Reduced Deliverables Level IV 5. NY ASP/CLP Deliverables 6. Site specific QC.		INVOICE INFORMATION: P.O. #: _____ Bill To: _____ _____ _____ _____		SAMPLE RECEIPT: Shipping Via: _____ Shipping #: _____ Temperature: _____ Submission No: <u>77-3-206</u>	
RELINQUISHED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____		RECEIVED BY: Signature <u>Tom Hastings</u> Printed Name <u>Tom Hastings</u> Firm <u>Emcon</u> Date/Time <u>3/15/97 09:55</u>		SPECIAL INSTRUCTIONS/COMMENTS: METALS <u>LCRA (8)</u> ORGANICS: ☒ TCL ☐ PPL ☐ AE Only ☐ BN Only ☐ Special List							

RELINQUISHED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____		RECEIVED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____		65 RAMAPO VALLEY ROAD MAHWAH, NJ 07430		201-512-3292 FAX 201-512-3362		435 LAWRENCE BELL DR. AMHERST, NY 14221		716-634-0454 FAX 716-634-9019	

PROJECT NAME <u>GM/DELPHI INST L+S</u> PROJECT MANAGER/CONTACT <u>CHRIS ANDREWS</u> COMPANY/ADDRESS <u>EMCON</u> <u>MAHWAH, NJ</u> TEL (201) <u>512 5700</u> FAX (201) <u>512 5706</u> SAMPLER'S SIGNATURE <u>Chris Andrews</u>					ANALYSIS REQUESTED																																	
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX	# OF CONTAINERS											PRESERVATION																						
						GC/MS VOA's ☒ 8260 ☐ 624	GC/MS SVOA's ☐ 8270A ☐ 625	GC VOA's ☐ 8010/8020 ☐ 601/602	PESTICIDES/PCB's ☒ 8080 ☐ 608	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (LIST BELOW)	METALS, DISSOLVED (LIST BELOW)							pH < 2.0	pH > 12	Other														
MG-R-01	3-14-97	13:45	135321	residue	3	X	X																															
MB-SD-07	3-14-97	10:00	135323	sediment	1				X																													
MB-R-05	3-14-97	13:30	135325	concrete	1																																	
MB-R-06	3-14-97	14:45	135322	residue	3	X	X																															
SS-SD-01	3-14-97	11:10	135326	residue	1	X	X		X																													
MB-SD-09	3-14-97	09:00	135324	sediment	1				X																													
* MD-SD-010	3-14-97	08:40	135327	water/sed	1				X																													
MB-SD-06	3-14-97	08:30	135328	sediment	1	X	X		X																													
MG-SD-01	3-14-97	13:32	135329	sediment	1				X																													
PH-SD-04	3-14-97	10:20	135330	residue	1				X																													

RELINQUISHED BY: Signature <u>Chris Andrews</u> Printed Name <u>Chris Andrews</u> Firm <u>EMCON</u> Date/Time <u>3/14/97 3:55</u>	RECEIVED BY: Signature <u>Tom Hastings</u> Printed Name <u>Tom Hastings</u> Firm <u>EMCON</u> Date/Time <u>3/14/97 3:55</u>	TURNAROUND REQUIREMENTS — 24 hr. ☒ 48 hr. ☐ 5 day ☐ — Standard (10-15 working days) ☐ — Provide Verbal Preliminary Results ☐ — Provide FAX Preliminary Results ☐ Requested Report Date _____	REPORT REQUIREMENTS — 1. Routine Report — 2. Routine Rep. w/CASE Narrative — 3. EPA Level III Valuable Package — 4. N.J. Reduced Deliverables Level IV — 5. NY ASP/CLP Deliverables — 6. Site specific QC.	INVOICE INFORMATION: P.O. #: _____ Bill To: _____ _____ _____ _____	SAMPLE RECEIPT: Shipping Via: _____ Shipping #: _____ Temperature: _____ Submission No: <u>97-3-206</u>

RELINQUISHED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____	RECEIVED BY: Signature <u>Tom Hastings</u> Printed Name <u>Tom Hastings</u> Firm <u>EMCON</u> Date/Time <u>3/15/97 09:55</u>	SPECIAL INSTRUCTIONS/COMMENTS: METALS <u>RCRA (8)</u> ORGANICS: ☒ TCL ☐ PPL ☐ AE Only ☐ BN Only ☐ Special List	

RELINQUISHED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____	RECEIVED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____	65 RAMAPO VAL ROAD MAHWAH, NJ 07080 201-512-3292 FAX 201-512-3362	435 LAWRENCE BELL DR. AMHERST, NY 14221 16-634-0454 FAX 716-634-9019

(716) 454-6810 • FAX (716) 454-6825

(800) 695-7222

DATE 3-14-97 PAGE 4 OF 6

[illegible]

(716) 454-6810 • FAX (716) 454-6825

(800) 695-7222

DATE 3-14-97 PAGE 5 OF 6

[illegible]

(716) 454-6810 • FAX (716) 454-6825

(800) 695-7222

DATE 3-17-77 PAGE 6 OF 1

PROJECT NAME						ANALYSIS REQUESTED																					
PROJECT MANAGER / CONTACT						# OF CONTAINERS	GC/MS VOA's ☒ 8260 ☐ 624	GC/MS SVOA's ☒ 8270A ☐ 625	GC VOA's ☐ 8010/8020 ☐ 601/602	PESTICIDES/PCB's ☒ 9080 ☐ 608	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (LIST BELOW)	METALS, DISSOLVED (LIST BELOW)									PRESERVATION pH < 2.0	pH > 12	Other
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX																							
MB-GAL-09	3/13/97		135347	Gallbladder	1				X																		
mb-gal 10	3/13/97		348	Gallbladder	1				X																		
Rosa - 11	3/12/97		349	roof	1									X													
R04A-17			350		1									X													
R02A-07			351		1				F					X													
R1ZE-09			352		1									X													
R0TE-13			353		1									X													
R03I-01			354		1									X													
R03m-04			355		1									X													
R07A-15	V		356	V	1									X													

RELINQUISHED BY: Signature: [Signature] Printed Name: Chris Andrews Firm: EMCON Date/Time: 3/14/97 3:40

RECEIVED BY: Signature: [Signature] Printed Name: T.M. Schuchel Date/Time: 3/14/97 3:40

TURNAROUND REQUIREMENTS: 24 hr. ☒ 48 hr. ☒ 5 day ☐
Standard (10-15 working days) ☐
Provide Verbal Preliminary Results ☐
Provide FAX Preliminary Results ☐
Requested Report Date _____

REPORT REQUIREMENTS: 1. Routine Report ☐
2. Routine Rep. w/CASE Narrative ☐
3. EPA Level III Validatable Package ☐
4. N.J. Reduced Deliverables Level IV ☐
5. NY ASP/CLP Deliverables ☐
6. Site specific QC. ☐

INVOICE INFORMATION: P.O.#: _____ Bill To: _____

SAMPLE RECEIPT: Shipping Via: _____ Shipping #: _____ Temperature: _____ Submission No: 97-3-206

RELINQUISHED BY: Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____

RECEIVED BY: Signature: [Signature] Printed Name: Tom Hastings Date/Time: 3/15/97 09:55

SPECIAL INSTRUCTIONS/COMMENTS: METALS: PCRA (8)
ORGANICS: ☒ TCL ☐ PPL ☐ AE Only ☐ BN Only ☐ Special List

65 RAMAPO VALLEY ROAD
MAHWAH, NJ 07430

201-512-3292
FAX 201-512-3362

435 LAWRENCE BELL DR.
AMHERST, NY 14221

716-634-0454
FAX 716-634-9019

APPENDIX D

DECONTAMINATION COST ESTIMATE ASSUMPTIONS

Appendix D

Decontamination Cost Estimate Assumptions

In preparing the decontamination cost estimate for this project, a series of assumptions were made. These assumptions are presented by Item Number in the sections which follow, and correspond to the Facility Decontamination Cost Estimate presented in Section 7.

Item 1 — Above Ground Storage Tanks

- All raw materials contained in the above ground storage tanks will be emptied of product and/or waste and cleaned, consistent with 40 CFR 261.7 requirements by the Owner prior to the performance of the environmental deactivation project, with the exception of the following tanks at the Wastewater Treatment Plant: 8,000-gallon sulfuric acid, 8,000-gallon sodium bisulfite, 9,000-gallon sodium hydroxide, and 8,000-gallon sodium hypochlorite. These latter tanks will remain operational during the performance of the remedial work to permit treatment of decontamination washwaters. These tanks will be cleaned and decommissioned along with the demolition of the Wastewater Treatment Plant (see Item 22 below for additional details).
- Fifteen of these tanks will be subsequently cleaned for scrap disposal. All tank residues will be drummed and solidified as necessary, and the tanks pressure-washed. Tank washings will be transferred to the Wastewater Treatment Plant. Waste volume: 12 drums and 20,000 gallons of washwaters. Timeframe: 25 days.
- For the two, 30,000-gallon #6 fuel oil tanks, 3 inches or less of pumpable residual heels will remain prior to cleaning. Tank washings will be transferred to the Wastewater Treatment Plant. Timeframe: 4 days.
- For the 500,000-gallon #6 fuel oil tank, 24 inches (30,000 gallons) of tank bottom sludges will remain. This material will be removed using a Vactor Industrial Vacuum Loader over a 5-day period, and the sludges will be placed into a roll-off. The tank interior will be washed with #2 fuel oil followed by water. The oil wash will be disposed of as waste oil (5,000 gallons assuming 2 percent or less of bottom solids and water), while the washwater will be transferred to Wastewater Treatment Plant. Timeframe: 10 days.
- Cleaning will be performed for the one, 550-gallon gasoline tank as well as the one, 250-gallon diesel tank. Washwater will be transferred to the Wastewater Treatment Plant. Timeframe: 1 day.

- All cleaned tanks will be dismantled and scrapped by the demolition contractor as part of the facility demolition project.

Item 2 — Transformers

- Full turnkey services for the removal of the transformers associated with Substations 9, 10, 11A, 11B, 12, 13A, 13B, and 14. These services will include rigging, drainage of PCB oils, and disposal of the oil and carcasses. PCB oils: 5,600 gallons. Carcasses: 53 tons. Timeframe: 10 days.
- One of the three Main Transformers and the power and lighting transformers associated with Substations 1 through 5 and 7, have been retrofitted and drained of PCB oils. Substation 6 is a dry unit (non-mineral oil). Available data suggests that transformers within Substations 1, 2, and 5 contain PCBs at levels greater than 50 ppm. Transformers within Substations 3, 4, and 7 have not exhibited evidence of PCB contamination. For the purposes of this estimate, it has been assumed that all these units will be managed as PCB-contaminated (as described above). Waste oils: 12,600 gallons. Carcasses: 122 tons. Timeframe: 10 days.
- Substations 15 and 16 are filled with CFCs. The CFCs for these units will be removed, and rigging provided for carcass removal and loading. CFCs: 400 pounds. Carcasses: 28 tons. Timeframe: 5 days.
- PCB contamination was detected on the slab for Substation 11 at a level of 4,400 ppm. This slab will be removed and disposed of as PCB-contaminated waste. Waste volume: 48 tons. Timeframe: 3 days.

Item 3 — CFCs

- CFCs will be removed from 90 air conditioning and refrigeration units (see Appendix E for inventory). CFCs: 1,200 pounds. Timeframe: 7 days.

Item 4 — Mercury Switches

- Mercury is present in a variety of machines, including welders, temperature controls, pressure controls, and natural gas controls. It is anticipated that the affected equipment will be identified by the Owner as part of the facility shutdown. Removal and packaging of these mercury switches will result in one, 55-gallon drum that will be staged for disposal. Timeframe: 3 days. This timeframe includes removal of the affected part(s) from the equipment.

Item 5 — Lab Packs

- Lab packs will be prepared for the chemicals found within 5 laboratories: Process, Reliability, ELPO Paint Lab, Powerhouse, and Wastewater Treatment Plant. 50 Drums. Timeframe: 20 days.
- Lab packs will also be prepared for miscellaneous chemicals found during the performance of the project from other areas within the facility. 10 drums. Timeframe: 5 days.

Item 6 — Hydraulic/Gear Oil

- Hydraulic oils and gear oils will be drained and flushed from over 60 pieces of equipment, and the waste oil collected in a tank. Each piece of equipment will be tested prior to draining, and flushed with hexane. Waste oil: 4,500 gallons; 15 percent is assumed to contain PCBs at greater than 50 ppm (675 gallons); Waste hexane: 330 gallons (6 drums). Timeframe: 15 days (excluding testing).
- Forklift trucks will not be drained.

Item 7 — Galbestos

- 40,000 square feet of galbestos siding have been identified by the survey performed by the Traverse Group. This siding contains greater than 100 ppm of PCBs requiring separate handling as a PCB-contaminated waste.
- The siding will be removed and segregated for disposal. Weight: 125 tons. Timeframe: 20 days.

Item 8 — Lead Paint Abatement

- Many surfaces within the plant are painted, and given the age of the facility, the presence of lead is anticipated. An allowance has been included in this estimate for the removal of lead from 200,000 square feet of building surfaces. This removal will only be performed in areas where worker exposure during demolition is considered an issue. Otherwise, materials slated for demolition will be removed with the lead paint as is. Timeframe: 28 days.
- Removal of the lead paint from the 250,000-gallon elevated water tower may be required prior to demolition, given the presence of flaking paint. An allowance of \$300,000 has been included in the estimate and is based upon a similar completed job in New Jersey by our remediation subcontractor, Active Waste Technology. An assessment of the exposure risks to workers and the surrounding neighborhood should be performed to determine if this remedial action is needed.

Item 9 — Electrostatic Painting/Degreasing Equipment

- This area will require the removal of residual solids and sludges prior to demolition. Contamination will be removed using a Vactor Industrial Vacuum Loader. Residual solids will be placed in roll-offs provided by the Owner. The equipment will be steam cleaned, and the washwaters will be transferred to the Wastewater Treatment Plant.
- Waste volumes: six, 20-yard roll-off containers; 30 drums for piping and other debris; and 40,000 gallons of washwater. Timeframe: 40 days.

Item 10 — ELPO System

- The currently operational ELPO System will be deactivated and cleaned by the Owner. Minimal additional steam cleaning, residue and/or sludge removals are anticipated.
- Waste volumes: 20 drums for additional paint residue and other debris and 5,000 gallons of washwater. The washwater will be transferred to the Wastewater Treatment Plant. Timeframe: 7 days.

Item 11 — Black Phosphate Area

- All duct work will be dismantled and vacuumed, cleaned of carbon black and other residues prior to steam cleaning. The 26+/- tanks will be steam cleaned as warranted. Following dismantling by the demolition contractor, the floors will be vacuumed using a Vactor Industrial Loader, and then steam cleaned to remove any remaining residues. All wastewater will be transferred to the Wastewater Treatment Plant.
- Waste volumes: one, 20-yard roll-off, and 15,000 gallons of washwaters. Timeframe: 10 days.

Item 12 — Scrap Metal Pits

- All scrap metal will be removed by the Owner for salvage.
- Any remaining waste oil and debris will be removed from the pits. The emptied pits will be steam cleaned to remove gross oil contamination. It is highly unlikely that the concrete can be cleaned due historic seepage of cutting oils.
- Waste volumes: 1,500 gallons of waste oil; 10 cubic yards of debris, and 10,000 gallons of washwater. The washwater will be transferred to the Wastewater Treatment Plant. Timeframe: 5 days.

Item 13 — Zinc Die Cast

- Any standing liquids within the pits will be pumped out and transferred to the Wastewater Treatment Plant. The sludges in the piping pit will be removed and the pit steam cleaned. All duct work will be dismantled and cleaned. The wood trusses will be vacuumed using a Vactor Industrial Loader. Additional steam cleaning will be performed as warranted to remove any residues.
- Waste volumes: two, 20-yard roll-offs, and 15,000 gallons of washwater. The washwaters will be transferred to the Wastewater Treatment Plant. Timeframe: 15 days.

Item 14 — Rack Strip/Nitric Acid Tanks

- All duct work will be dismantled and cleaned. Residues will be removed from the tanks and floors prior to steam cleaning.
- Waste volumes: one, 20 yard roll-off of residue and debris, and 5,000 gallons of washwater. The washwaters will be transferred to the Wastewater Treatment Plant. Timeframe: 5 days.

Item 15 — Plater #12

- All duct work will be dismantled and cleaned. The floor area of the plater pit will be scraped and vacuumed to remove flaking floor sealants and other residue prior to pressure washing and steam cleaning.
- Waste volumes: two, 20-yard roll-offs, and 25,000 gallons of washwaters. All washwaters will be transferred to the Wastewater Treatment Plant. Timeframe: 15 days.

Item 16 — Rack Incinerators

- Residual dust will be removed and vacuumed from the outside of the incinerator units and the immediate area surrounding area. Steam cleaning will be performed to remove any residual materials.
- Waste volumes: 10 drums and 2,000 gallons of washwater. All washwaters will be transferred to the Wastewater Treatment Plant. Timeframe: 4 days.

Item 17 — Oil Residues (Various Locations)

- It is anticipated that during the course of the environmental deactivation work, several areas will be identified that have residual oil residues that will require removal for worker safety or building material disposal purposes. Steam cleaning

with washwater discharge to the Wastewater Treatment Plant will be performed at each location.

- Waste Volume: 5,000 gallons of washwater. Timeframe: 15 days.

Item 18 Duct and Truss Cleaning (Various Locations)

- It is anticipated that during the course of the environmental deactivation work, several areas with either process duct work and/or duct work associated with air pollution control equipment (that was operational at the time of the facility assessment) will require cleaning. An allowance for this activity has been included.
- Waste volume: Three, 20-yard roll-offs. Timeframe: 40 days.

Item 19 — Sewer Lines

- Following the decontamination and cleaning of the plant areas described above, the storm, sanitary and process sewer lines, will be flushed. It is assumed that the majority of this piping is still intact, has not collapsed, and will be flushable. Excessive sediments in accessible manholes and catch basins will be removed and the lines jet-blasted with water. All washwaters will be sent to the Wastewater Treatment Plant.
- Waste volumes: two, 20-yard roll-offs; washwater volume will be a function of residual sediment levels. Timeframe: 40 days.
- An allowance of \$50,000 has been included in this estimate for the possibility of treatment/disposal of PCB-containing wastewaters.

Item 20 — Lighting and Ballasts

- Light bulbs will be removed from the lighting fixtures in the plant prior to demolition, boxed, and recycled. Capacitors will be removed for disposal or recycled. Ballasts will be removed and packaged for disposal.

Lighting Type	Number of Bulbs	Number of Ballasts
Mercury Vapor	1,650	1,650
Fluorescent	16,000	8,000
Metal Halide	125	125
Sodium	200	200
Total	17,975	9,975

Notes:

ene-mtown1-j:\gmdelphi\85820000.001\apdx_d.doc-95\guido:1

6

1. 75 percent of the fluorescent bulbs are 8-foot long; the remainder are 4-foot long.
2. All ballasts are assumed to be PCB-contaminated unless marked or labeled.

- Waste volume: 23 tons of ballasts. Timeframe: 40 days.

Item 21 — Emergency Lighting

- Emergency lighting fixtures will be removed and prepared for off-site shipment and disposal. Number of units: 175; majority are 12-volt wet cells.
- Timeframe: 8 days.

Item 22 — Wastewater Treatment Plant

- The Wastewater Treatment Plant will be used for the treatment of all washwaters generated from the cleaning of plant equipment/areas and the sewer lines. Existing plant treatment units will be utilized, including the oil/water separator and the treatment/settling tanks. It is anticipated that the chemical quality of washwaters will be similar to the process wastewaters historically generated at the plant (if not more dilute). As such, all discharges will be made in compliance with the current NJPDES permit. It is further assumed, for the purpose of this estimate, that the Owner will provide a certified treatment plant operator for the duration of the deactivation project along with a supply of treatment chemicals.
- At the time for the demolition of the Wastewater Treatment Plant, any sludges remaining within the oil/water separator, neutralization tanks or clarifiers will be removed and pumped into tanker truck for off-site disposal. The emptied units will be steam cleaned and the washwaters transferred to tanker trucks for off-site disposal.
- Waste volumes: 1,100 tons of sludges, and 24,000 gallons of washwater. Timeframe: 15 days.
- The 4 aboveground storage tanks will be emptied of all chemicals and rinsed to permit demolition.

Waste	Gallons
Sulfuric Acid	300
Sodium Bisulfite	300
Sodium Hydroxide	300
Sodium Hypochlorite	300
Washwaters	3,000

- Timeframe: 5 days.

Item 23 — Demolition

- Estimates for the disposal volumes that will be generated from the demolition of the building were developed with the Turner Construction Company and A.G. Mazzocchi (demolition contractors).

Building Material	Cubic Yards	Tons
Concrete	38,163	77,160
Masonry	5,158	8,567
Glass Block	17,000	230
Structural Steel	—	8,786
Aboveground Storage Tanks Scrap Metal, Transformer Carcasses ¹	—	1,189
Glazing (windows and frames)	2,208	1,656
Wood Block ²	4,636	3,477
Miscellaneous Scrap Metal from Piping, Ductwork, Conduit etc.	—	29,400
Site Fencing	—	114
Site Paving ³	25,222	51,076
Other C& D debris	15,000	22,500
Total C& D Materials⁴	107,387	161,189
Total Steel and Scrap Metal⁵	—	39,489
Total All Materials	—	200,678

Notes:

1. CFC and dry transformer units (non-PCB).
 2. 15 percent of the wood block will be disposed of as hazardous waste.
 3. Site paving will be recycled by local asphalt reprocessor.
 4. Includes concrete, masonry, glass block, glazing, wood block, site paving and other C&D debris. All C&D materials (excluding site paving, 15 percent of the wood block and the other C&D material) will be reprocessed and used on site as backfill and for regrading.
 5. Includes structural steel, aboveground storage tanks, miscellaneous scrap metal and site fencing.
- Structural steel, scrap metal and site fencing are not included in the disposal costs for demolition materials as it is assumed that these materials will have a salvage value.

- Timeframe: 5 to 7 months.

Item 24 — Former Die Cast, Plater and Anodizer Pits

- Several portions of the Manufacturing Building were used for diecast and plating operations. Fourteen pit areas were identified from historic records. These pit areas have been backfilled with various unknown materials and new concrete flooring poured. Approximate areal extent: 80,800 square feet with pit depths ranging from 4 to 16 feet.
- Following building demolition, these pits will be exhumed and the contents analyzed for disposal purposes. In addition, the structural integrity of the below grade concrete pits will be examined. For those pits found to be intact, backfilling will be performed using previously excavated non-hazardous materials.
- Waste volume: 22,000 tons of hazardous waste. Timeframe: 40 days.

APPENDIX E
CFC EQUIPMENT INVENTORY

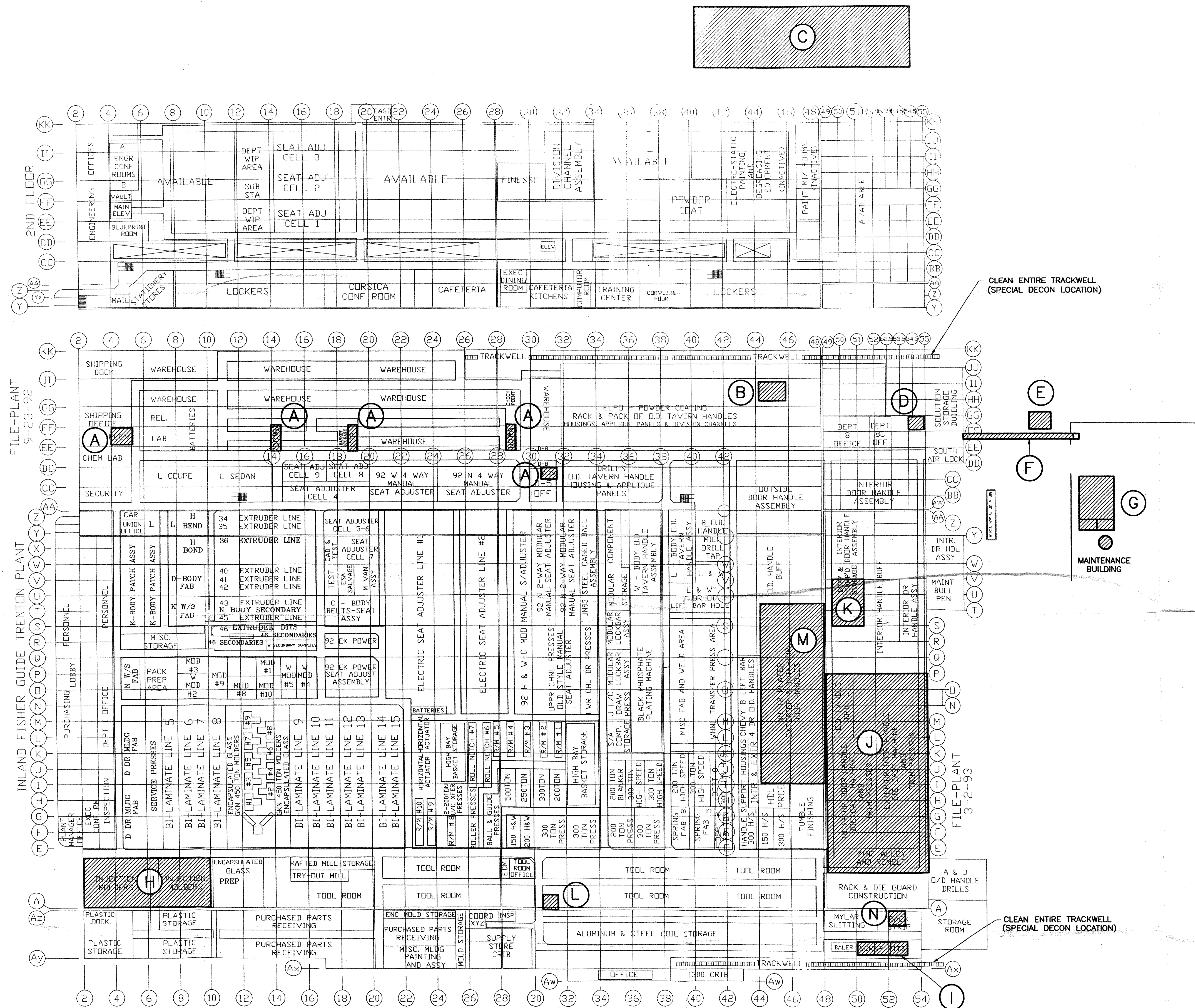
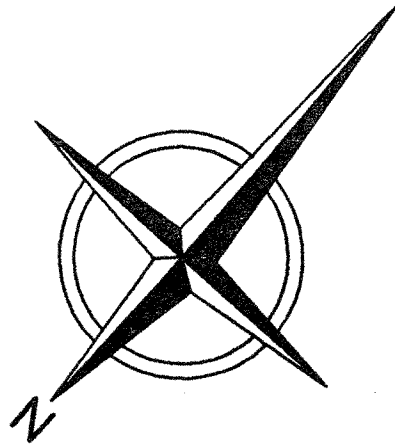
Appendix E

CFC Equipment Inventory

Equipment	Location	Refrigerant	CFC Capacity (lbs)
ELPO Department 9	Roof Top	R-22	60
ELPO Trackwell/Paint Room	Dock Unit and Remote Condensor	R-22	45
ELPO Paint Room	Outside Condensor for Carrier Compressor #1	R-22	30
ELPO Paint Room	Outside Condensor for Carrier Compressor #2	R-22	25
East Drive/McQuay Chiller	Package Chiller on East Side (Parking Lot)	R-22	41
ELPO #1 Air Dryer	Outside Paint Room	R-22	8
ELPO #2 Air Dryer	Outside Paint Room	R-22	8
ELPO #3 Air Dryer	Outside Paint Room	R-22	8
Roof Top Air Conditioner #1	2nd Floor Balcony	R-22	40
Roof Top Air Conditioner #2	2nd Floor Balcony	R-22	40
Roof Top Air Conditioner #3	2nd Floor Balcony	R-22	40
Roof Top Air Conditioner #4	2nd Floor Balcony	R-22	40
Roof Top Air Conditioner #5	2nd Floor Balcony	R-22	40
Roof Top Air Conditioner #6	2nd Floor Balcony	R-22	40
Roof Top Air Conditioner #7	2nd Floor Balcony (Executive Dining)	R-22	40
Air Conditioner #8	Roof Top (Training, Corvette, Lockers)	R-22	40
Air Conditioner #9	Roof Top (Training, Corvette, Lockers)	R-22	40
Air Conditioner #10	Roof Top (Training, Corvette, Lockers)	R-22	40
Air Conditioner #11	Roof Top (Training, Corvette, Lockers)	R-22	40
Sanyo	2nd Floor East Side (Roof Top)	R-22	6
Roof Top Air Conditioner	Engineering 2nd Floor Conference (Roof Top)	R-22	20
Sanyo	Engineering 2nd Floor Middle (Roof Top)	R-22	6
Sanyo	Engineering 2nd Floor West (Roof Top)	R-22	6
Reliability Lab	First Floor (Roof Top)	R-22	20
Sanyo #1	First Floor Engineering (Roof Top)	R-22	6
Sanyo #2	First Floor Engineering (Roof Top)	R-22	6
Sanyo #3	First Floor Engineering (Roof Top)	R-22	6
Sanyo #4	First Floor Engineering (Roof Top)	R-22	6
Sanyo #5	First Floor Engineering (Roof Top)	R-22	6
Sanyo #6	First Floor Engineering (Roof Top)	R-22	6
Sanyo	Center Building (Roof Top)	R-22	6
Trane (Water-cooled)	First Floor Engineering	R-22	8
Trane	Personnel Dept. First Floor (Front)	R-12	19
Hospital	Roof Top	R-12	15

Appendix E CFC Equipment Inventory

Equipment	Location	Refrigerant	CFC Capacity (lbs)
Personnel Conference Room	Benefits Office (Water-cooled)	R-12	20
Walk-in Box Produce	Kitchen	R-12	6
Walk-in Box Meat	Kitchen	R-12	6
Walk-in Box Dairy	Kitchen	R-12	6
Walk-in Freezer	Kitchen	R-12	6
Salad Bar	Kitchen	R-12	3
Salad Bar	Kitchen	R-12	3
Reach-in Freezer	Kitchen	R-12	2
Kelvinator Reach-in	Kitchen	R-12	2
Ice Machine (Cuber)	Maintenance	R-12	2
Ice Machine (Cuber)	Kitchen	R-502	2
Ice Machine (Cuber)	Kitchen	R-502	2
Ice Machine (Series 600)	Cafeteria	R-502	2
Bileiminate #5	Manufacturing	R-22	20
Bileiminate #6	Manufacturing	R-22	20
Bileiminate #7	Manufacturing	R-22	20
Bileiminate #8	Manufacturing	R-22	20
Bileiminate #9	Manufacturing	R-22	20
Bileiminate #10	Manufacturing	R-22	20
Bileiminate #11	Manufacturing	R-22	20
Bileiminate #12	Manufacturing	R-22	20
Bileiminate #13	Manufacturing	R-22	20
Bileiminate #14	Manufacturing	R-22	20
Bileiminate #15	Manufacturing	R-22	20
30 Window Units	Various	?	60
2 Refrigerators	Kitchen	?	6
TOTAL			1,154



LEGEND:

ID NUMBER	DESCRIPTION
(A)	ELEVATOR PIT
(B)	CONDENSATE PIT
(C)	POWER HOUSE BASEMENT (COMPRESSOR ROOM)
(D)	SANITATION WASH STATION
(E)	OUTSIDE SANITATION WASH STATION
(F)	TRENCH TO MAINTENANCE BUILDING
(G)	CAUSTIC WASH AREA (MAINTENANCE BUILDING)
(H)	INJECTION MOLDER TRENCH
(I)	SCRAP PITS
(J)	ZINC DIE CAST (33 MACHINES)
(K)	HANSON (PLATER) #7 (Cu,Ni,Cr)
(L)	TOOL ROOM WASH STATION
(M)	UDILYTE #12 (Cu,Ni,Cr)
(N)	RACK STRIP (NITRIC ACID)

NOTE:

FOR ADDITIONAL SPECIAL DECON LOCATIONS SEE DRAWING NO. 7.

1" = 1/2" 0"
MADE FROM: 24x36 INCH
DATE OF ISSUE: 4/98
DESIGNED BY: AK
CHECKED BY: SL
APPROVED BY: [Signature]
PROJECT NO.: 87064-001.000

REV	DATE	DESCRIPTION	OWN BY	DES BY	CHK BY	APP BY
1	4/98	DATE OF ISSUE	AK	SL		



GENERAL MOTORS
DELPHI INTERIOR AND LIGHTING SYSTEMS
TRENTON, NEW JERSEY
DECONTAMINATION SPECIFICATIONS
PITS, TRENCHES AND ELEVATORS

DRAWING NO.
3
PROJECT NO.
87064-001.000