# PROJECT REVIEW TRACKING FORM

(ISOF-016)



**Report Title**

VOLUME II OF III
APPENDIX A
FINAL DRAFT REMEDIATION VERIFICATION REPORT
ENVIRONMENTAL REMEDIATION
UNDEVELOPED AREA
GENERAL MOTORS POWERTRAIN GROUP
BAY CITY, MICHIGAN

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| **Project Number:** | 3938 | **Report Number:** | ~~74~~ ~~78~~ |
| **Project Manager:** | Ian Richardson | | |
| **Other Project Personnel:** | Sylvie Eastman | | |
| | Michael Tomka | | |

**Document Development**

| Date: | Typed By: | Submitted By: | Check below if review function performed | |
|---|---|---|---|---|
| | | | Reviewed By | Interim Review |
| June 2, 1998 | JDH & RC | Mike Tomka | MRT | ☒ |
| June 3, 1998 | MM | Mike Tomka | | ☐ |
| June 9, 1998 | RC | Claire Lewis | | ☐ |
| June 10, 1998 | JH | Claire Lewis | | ☐ |
| June 16, 1998 | MM | Claire Lewis | | ☐ |
| | | | | ☐ |
| | | | | ☐ |
| | | | | ☐ |
| | | | | ☐ |
| | | | | ☐ |
| | | | | ☐ |

**Authorization**

**Document Validated By:**
**(must be signed before printing)**

for IKR Verbal — Project Manager — Date: 6/16/98

Primary Author or Other Project Team Member — Date: 6/16/98

Peer Reviewer (if applicable) — Date:

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# FINAL DRAFT REMEDIATION VERIFICATION REPORT ENVIRONMENTAL REMEDIATION UNDEVELOPED AREA

General Motors Powertrain Group
Bay City Plant
Bay City, Michigan

JUNE 1998
REF. NO. 3938 (78)
This report is printed on recycled paper.

CONESTOGA-ROVERS & ASSOCIATES

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# VOLUME II OF III
# APPENDIX A

# FINAL DRAFT REMEDIAL ACTION PLAN

# VOLUME II OF III
# APPENDIX A

# FINAL DRAFT REMEDIAL ACTION PLAN

# VOLUME II OF III

# APPENDIX A

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## 1.0 INTRODUCTION

A remedial investigation (RI) was conducted between May 1993 and November 1994 at the General Motors Powertrain Group, Bay City Plant (GMPT Site or Site), Bay City, Michigan, including the portion identified in Consent Judgment 92-3740-CE as the Undeveloped Area (UA). The Site location is presented on Figure 1.1. The RI indicated the presence of lead in the UA at the location of borehole BH523 and PCBs in the UA at the location of boreholes BH512 and BH517 above the screening criteria (lead 400 mg/kg, PCB 9.9 mg/kg). In addition, an area not identified by the RI was also sampled and material was removed. This additional area is identified as the former battery casing area and the activities completed in this area were voluntary.

Conestoga-Rovers & Associates (CRA) was retained by General Motors (GM) to conduct verification sampling of three areas. In addition, CRA was retained to perform further volunteer investigations and verification sampling of the UA.

This document presents the results of the investigation and remediation activities conducted in the UA between May and August 1997.

Section 2.0 presents the details of the investigation and remediation activities. Section 3.0 presents verification of completion of the investigation and remediation activities.

## 2.0 INVESTIGATION AND REMEDIATION ACTIVITIES

### 2.1 SCOPE

The remediation of the UA included removing surface material, including concrete and miscellaneous debris, collecting investigation samples to define the extent of lead and PCB contamination, excavation and off-Site disposal of impacted soils, verification sampling, and some regrading. During removal of surface material, a former battery casing disposal area was identified. The battery casings were removed and samples of the underlying soil were collected and analyzed for lead to define the extent of contamination. The portions of the UA where investigation and remediation activities were performed are presented on Figure 2.1.

### 2.2 INVESTIGATION AND REMEDIATION ACTIVITIES

#### 2.2.1 REMEDIATION OF SURFACE DEBRIS

Surface material, including concrete and miscellaneous debris identified in the UA, was removed for off-Site disposal.

#### 2.2.2 EXCAVATION AND VERIFICATION SAMPLING IN THE BOREHOLE BH512 AREA

A total of approximately 400 cubic yards of material was removed from this area on May 13, 1997. The excavation was completed to a depth of 2 feet minimum below ground surface (bgs). A total of 14 verification samples, including 6 floor and 8 wall samples, were collected on May 13, 1997 from the locations presented on Figure 2.2 and analyzed for PCBs. The sample results are presented in Table 2.1.

The total area of the excavation covered approximately 3,020 square feet and exposed approximately 550 square feet of side wall area. "Guidance Document for Verification of Soil Remediation" (MDEQ, April 1994) requires the collection of 5 wall and 6 floor verification samples from an excavation of this size. A total of 8 wall and 6 floor verification samples were collected. PCBs were not reported above Generic Industrial Direct Contact (GIDC) criteria in the final verification samples presented on Figure 2.3.

Analytical reports are presented in Attachment A. The data validation reports are presented in Attachment B. Excavated soils were sampled and found to be below GIDC criteria, therefore, the material was retained on Site.

### 2.2.3 EXCAVATION AND VERIFICATION SAMPLING IN THE BOREHOLE BH523 AREA

A total of approximately 900 cubic yards of material was removed from this area for off-Site disposal between May 13 and June 9, 1997. The excavation was completed to a minimum depth of approximately 2.5 feet bgs.

Approximately 700 cubic yards of material was removed up to May 13, 1997. A total of 20 samples, including 8 floor and 12 wall samples, were collected on May 13, 1997 from the locations presented on Figure 2.4 and analyzed for total and leachable lead. The sample results are presented in Table 2.2. Total lead was reported above GIDC criteria in 5 wall samples. As a result, an additional 200 cubic yards of material was excavated for off-Site disposal on June 9, 1997. A total of 14 samples, including 5 floor and 9 wall samples, were collected on June 9, 1997. The sample results are presented in Table 2.2.

The total area of the excavation covered approximately 9,130 square feet and exposed approximately 1,400 square feet of side wall area. "Guidance Document for Verification of Soil Remediation" (MDEQ, April 1994) requires the collection of 6 wall and 9 floor verification samples from an excavation of this size. A total of 15 wall and 13 floor verification samples were collected. Total lead was not reported above GIDC criteria in the final verification samples presented on Figure 2.5.

Analytical reports are presented in Attachment A. The data validation reports are presented in Attachment B. Manifests and Bills of Lading for material removed from the Site are presented in Attachment C.

### 2.2.4 INVESTIGATION SAMPLING, EXCAVATION AND VERIFICATION SAMPLING IN THE FORMER BATTERY CASING AREA

Surface debris was removed from this area, following which investigation sampling was performed on May 22, 1997. A total of nine investigation samples were collected from the locations presented on Figure 2.6 and analyzed for total and leachable lead. The sample results are presented in Table 2.3. Total lead was reported above GIDC criteria in four of the investigation samples.

As a result of the investigation sample results, a total of approximately 700 cubic yards of material removed from this area for off-Site disposal between May 22 and July 24,

1997. The excavation was completed to an average depth of approximately 3 feet bgs minimum.

Initially, approximately 300 cubic yards of material were excavated on June 9, 1997 from two discrete excavation areas. A total of 6 floor samples were collected on June 9, 1997 from the locations presented on Figure 2.6 and analyzed for total and leachable lead. The sample results are presented in Table 2.3. Total lead was reported above GIDC criteria in three of the samples. As a result, an additional 150 cubic yards of material was excavated for disposal off Site. A total of 20 samples were collected, including 10 wall and 10 floor samples, on June 25, 1997 from the locations presented on Figure 2.6 and analyzed for total and leachable lead. The sample results are presented in Table 2.3. Total lead was reported above GIDC criteria in eight of the samples. As a result, an additional 100 cubic yards of material were excavated for off Site disposal. A total of 14 samples, including 7 wall and 7 floor samples, were collected on July 11, 1997 from the locations presented on Figure 2.6 and analyzed for total and leachable lead. The sample results are presented in Table 2.3. Total lead was reported above GIDC criteria in one of the samples. As a result, an additional 75 cubic yards of material were excavated for off-Site disposal. A total of three samples, including 2 wall and 1 floor sample, were collected on July 16, 1997 from the locations presented on Figure 2.6 and analyzed for total and leachable lead. The sample results are presented in Table 2.3. Total lead was reported above GIDC criteria in one of the samples. As a result, an additional 75 cubic yards of material were excavated for off-Site disposal. A total of four samples, including 3 wall and 1 floor sample, were collected on July 24, 1997 from the locations presented on Figure 2.6 and analyzed for total and leachable lead. The sample results are presented in Table 2.3.

The total area of the north excavation covered approximately 920 square feet and exposed approximately 380 square feet of side wall area. "Guidance Document for Verification of Soil Remediation" (MDEQ, April 1994) requires the collection of 4 wall and 3 floor verification samples from an excavation of this size. A total of 5 wall and 3 floor verification samples were collected. PCBs were not reported above GIDC criteria in the final verification samples presented on Figure 2.7.

The total area of the south excavation covered approximately 4,610 square feet and exposed approximately 670 square feet of side wall area. "Guidance Document for Verification of Soil Remediation" (MDEQ, April 1994) requires the collection of 5 wall and 7 floor verification samples from an excavation of this size. A total of 11 wall and 14 floor verification samples were collected. PCBs were not reported GIDC criteria in the final verification samples presented on Figure 2.7.

Analytical reports are presented in Attachment A. The data validation reports are presented in Attachment B. Manifests and Bills of Lading for material removed from the Site are presented in Attachment C.

### 2.2.5 EXCAVATION AND VERIFICATION SAMPLING IN THE BOREHOLE BH517 AREA

A total of approximately 2,100 cubic yards of material was removed from this area on five separate occasions for off-Site disposal by July 15, 1997. The excavation was completed to a depth of approximately 2.5 feet bgs. A total of 69 verification samples, including 30 floor and 37 wall samples, were collected on July 15, 1997 from the locations presented on Figure 2.8 and analyzed for PCBs. The sample results are presented in Table 2.4.

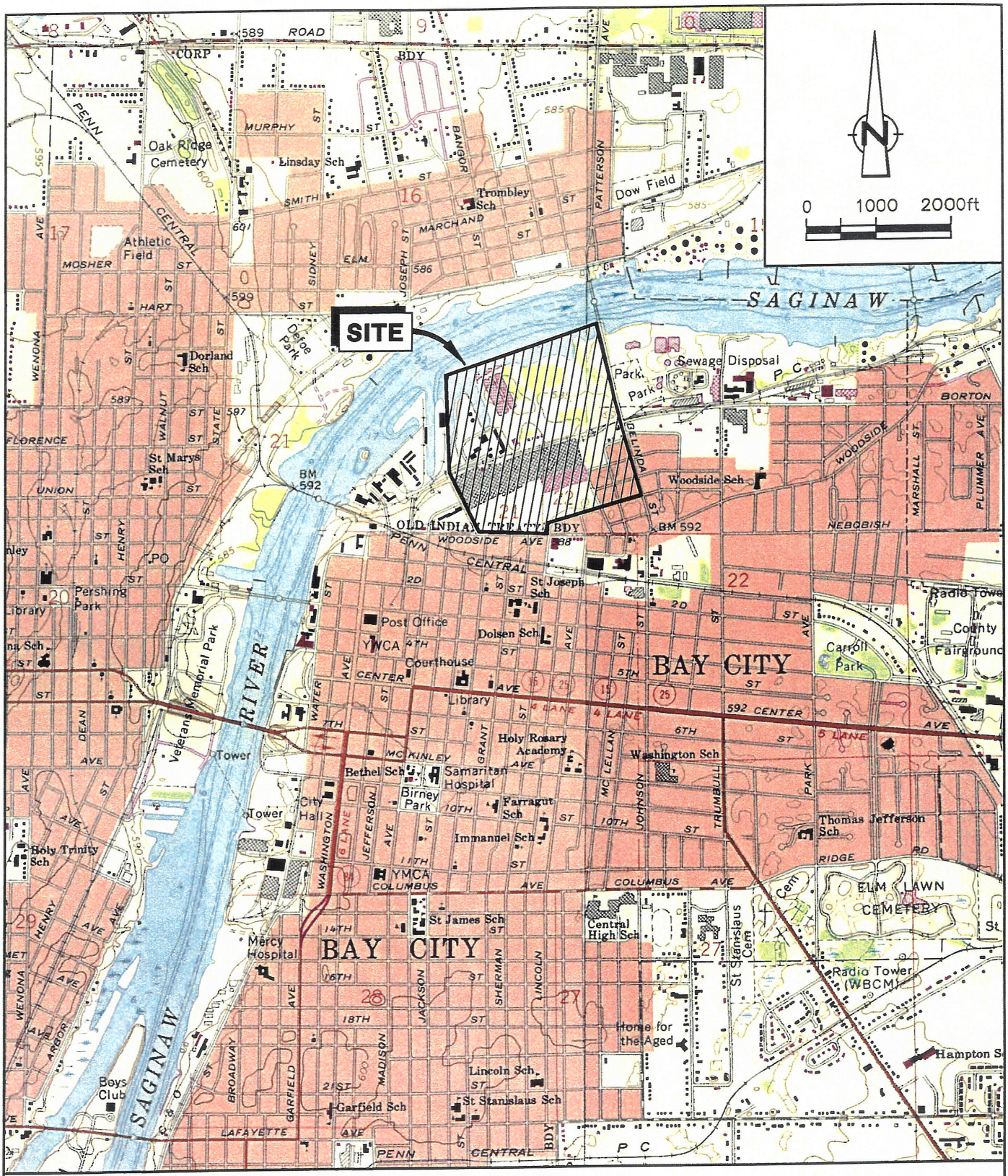
The total area of the excavation covered approximately 13,230 square feet and exposed approximately 1,620 square feet of side wall area. "Guidance Document for Verification of Soil Remediation" (MDEQ, April 1994) requires the collection of verification samples from an excavation of this size using a grid spacing of 17 feet. A total of 37 wall and 30 floor verification samples were collected. PCBs were reported above GIDC criteria in several verification samples. Based on discussions with the MDEQ, it was determined that the excavation would be backfilled and capped with a minimum of 2 feet of clay. The area would be graded to ensure surface water drainage away from the area. The area will be monitored to ensure the cover and drainage are maintained.

Analytical reports are presented in Attachment A. The data validation reports are presented in Attachment B. Manifests and Bills of Lading for material removed from the Site are presented in Attachment C.

## 3.0 VERIFICATION OF REMEDIAL ACTIVITY

With respect to PCBs, no further excavation work is required, since total PCB levels in the final verification samples collected were below the screening criteria of 9.9 mg/kg, except for the borehole BH517 area which was covered and will be maintained in the future.

With respect to lead, no further excavation work is required. Total lead levels in the final verification samples collected were below the GIDC Criteria of 400 mg/kg.




SOURCE: U.S.G.S. QUADRANGLE MAPS;
BAY CITY AND ESSEXVILLE, MICHIGAN
1967 (PHOTO REVISED 1973)

CRA

figure 1.1

SITE LOCATION

GM–POWERTRAIN GROUP – BAY CITY PLANT

*Bay City, Michigan*

03938–18(078)GN–WA001 JUN 09/98

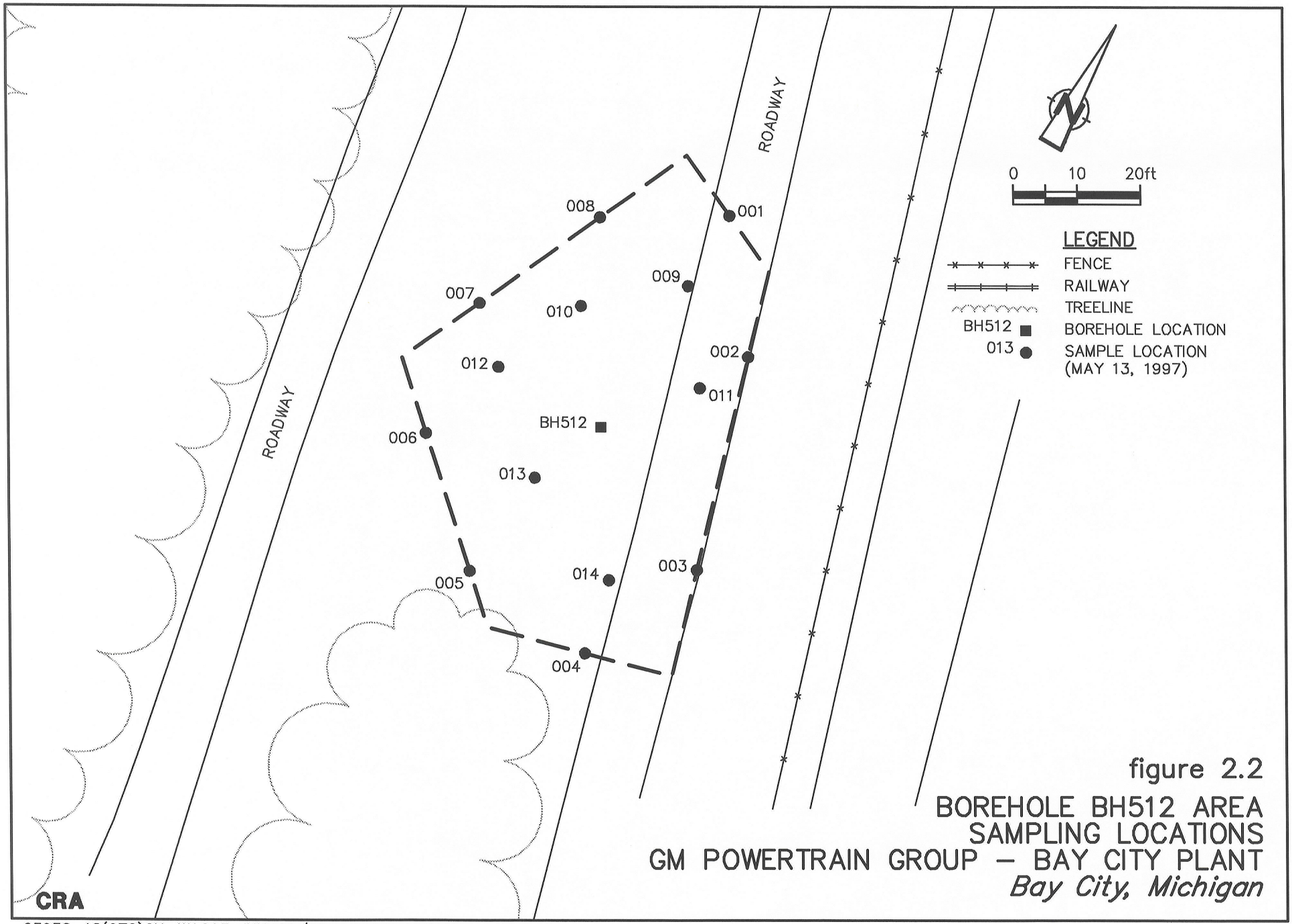



figure 2.2

BOREHOLE BH512 AREA
SAMPLING LOCATIONS
GM POWERTRAIN GROUP – BAY CITY PLANT
*Bay City, Michigan*

CRA

03938–18(078)GN–WA003 JUN 09/98

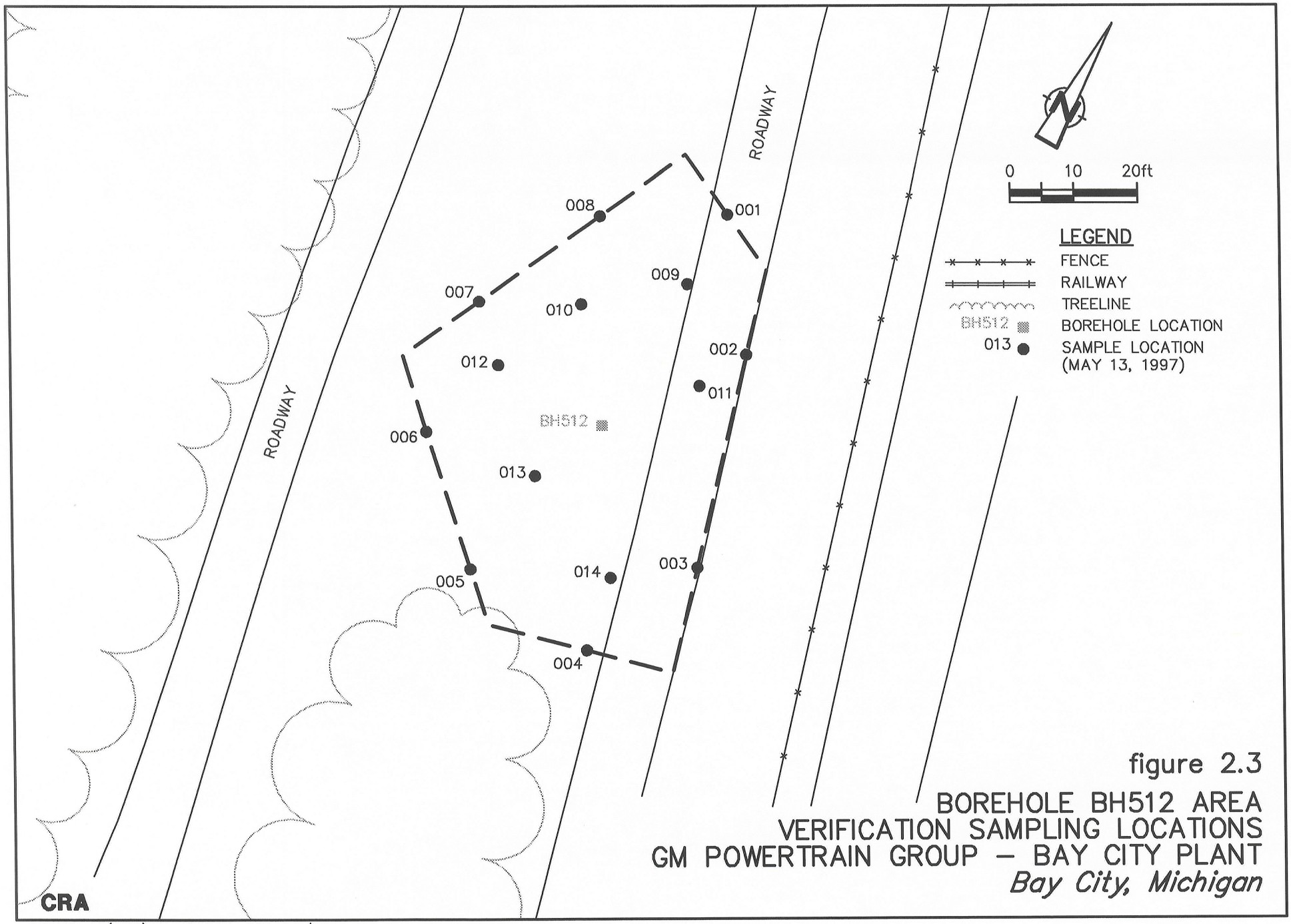



figure 2.3

BOREHOLE BH512 AREA
VERIFICATION SAMPLING LOCATIONS
GM POWERTRAIN GROUP – BAY CITY PLANT
*Bay City, Michigan*

CRA

03938-18(078)GN-WA004 JUN 02/98

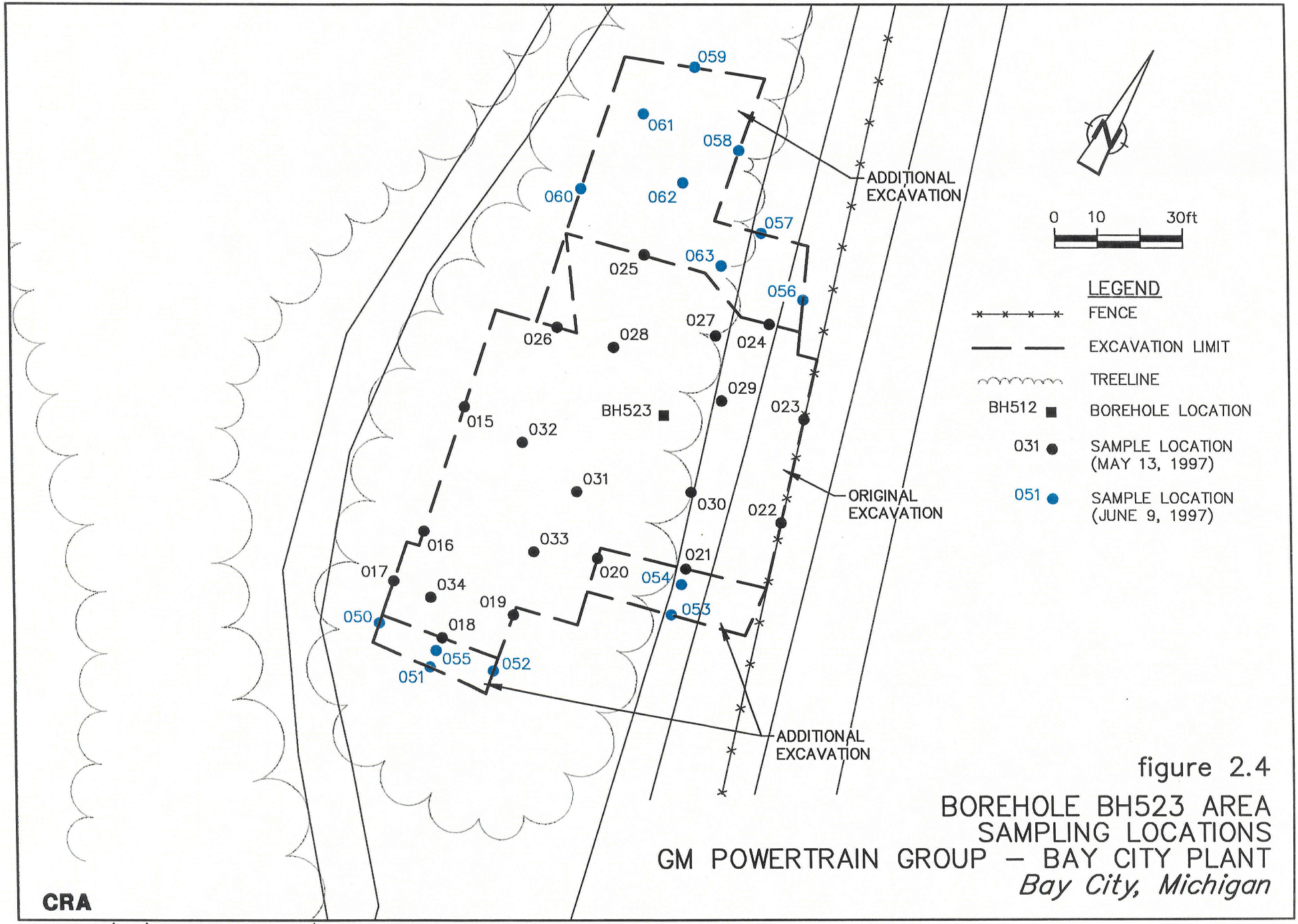



figure 2.4

BOREHOLE BH523 AREA
SAMPLING LOCATIONS
GM POWERTRAIN GROUP – BAY CITY PLANT
*Bay City, Michigan*

CRA

03938–18(078)GN–WA005 JUN 09/98

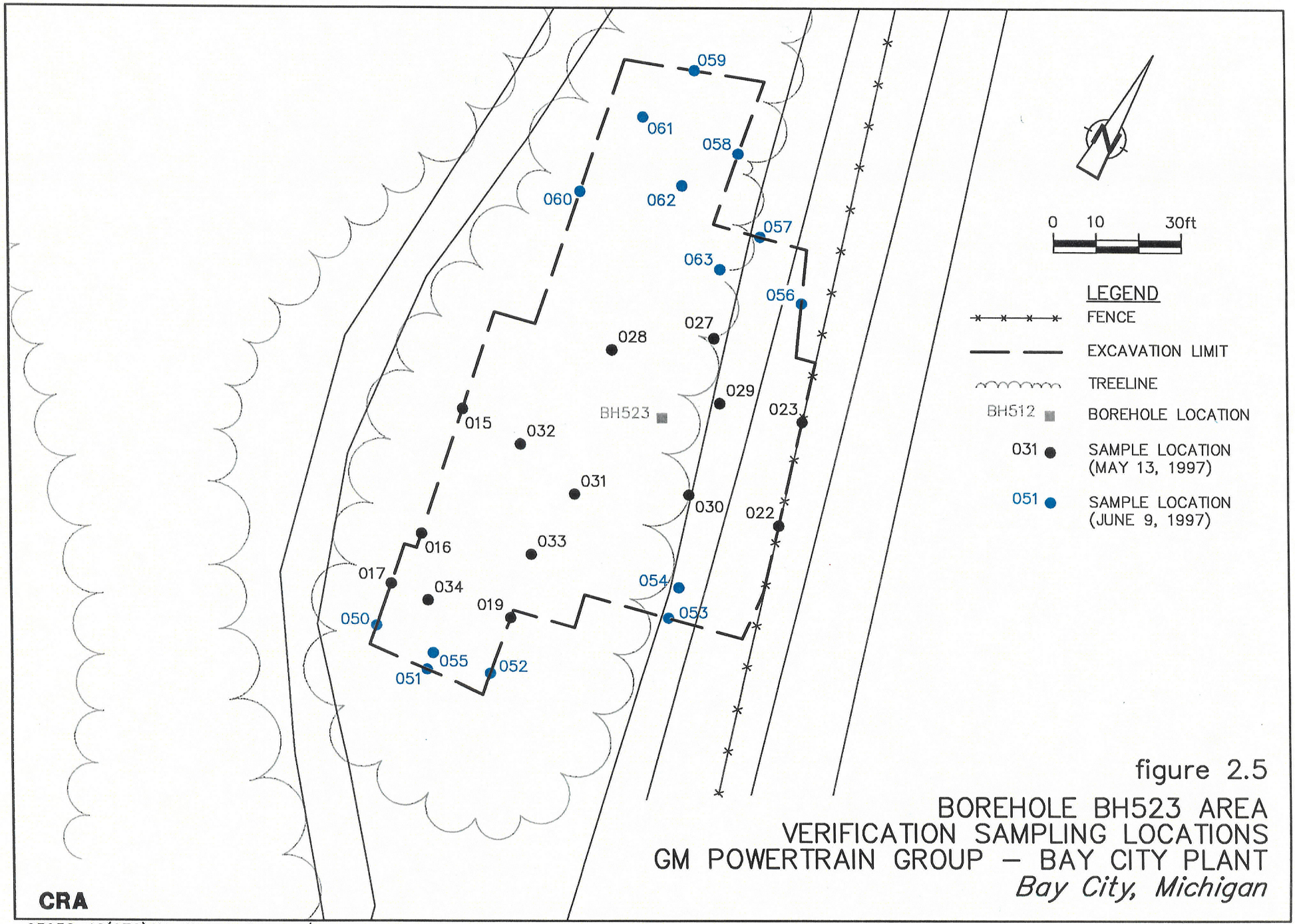



figure 2.5

BOREHOLE BH523 AREA
VERIFICATION SAMPLING LOCATIONS
GM POWERTRAIN GROUP – BAY CITY PLANT
*Bay City, Michigan*

**CRA**

03938–18(078)GN–WA006 JUN 09/98

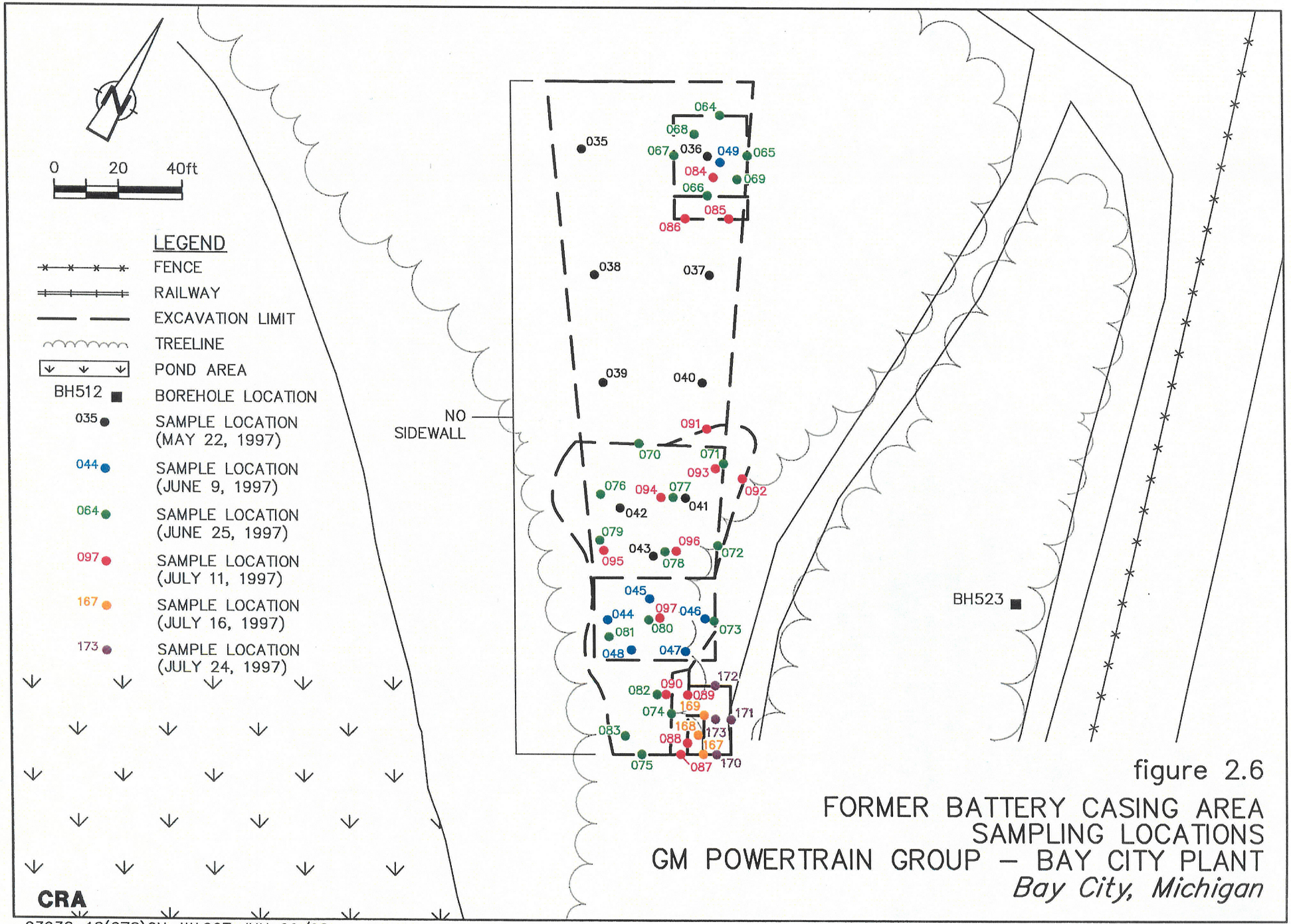



figure 2.6

FORMER BATTERY CASING AREA
SAMPLING LOCATIONS
GM POWERTRAIN GROUP – BAY CITY PLANT
*Bay City, Michigan*

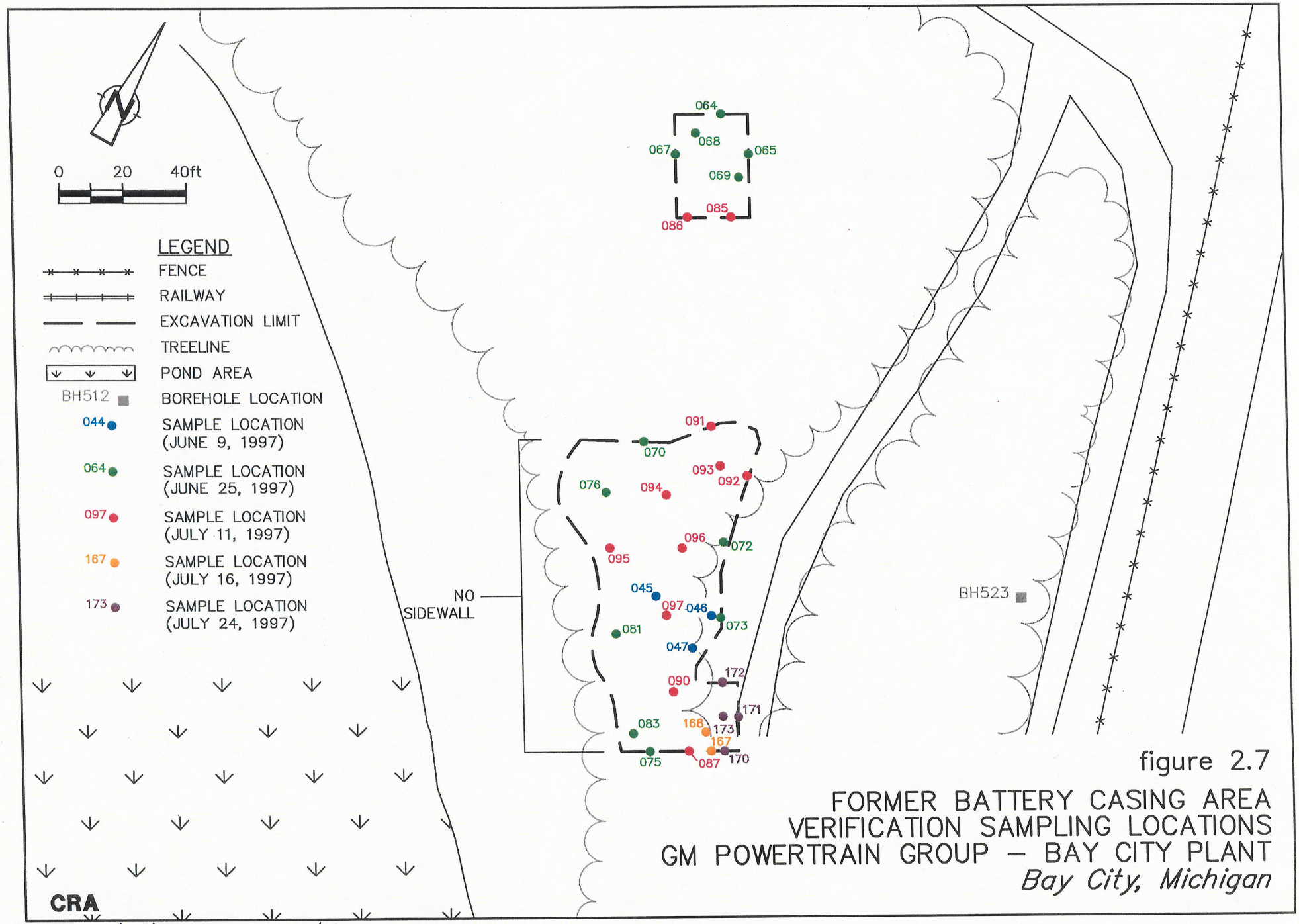



figure 2.7

FORMER BATTERY CASING AREA
VERIFICATION SAMPLING LOCATIONS
GM POWERTRAIN GROUP – BAY CITY PLANT
*Bay City, Michigan*

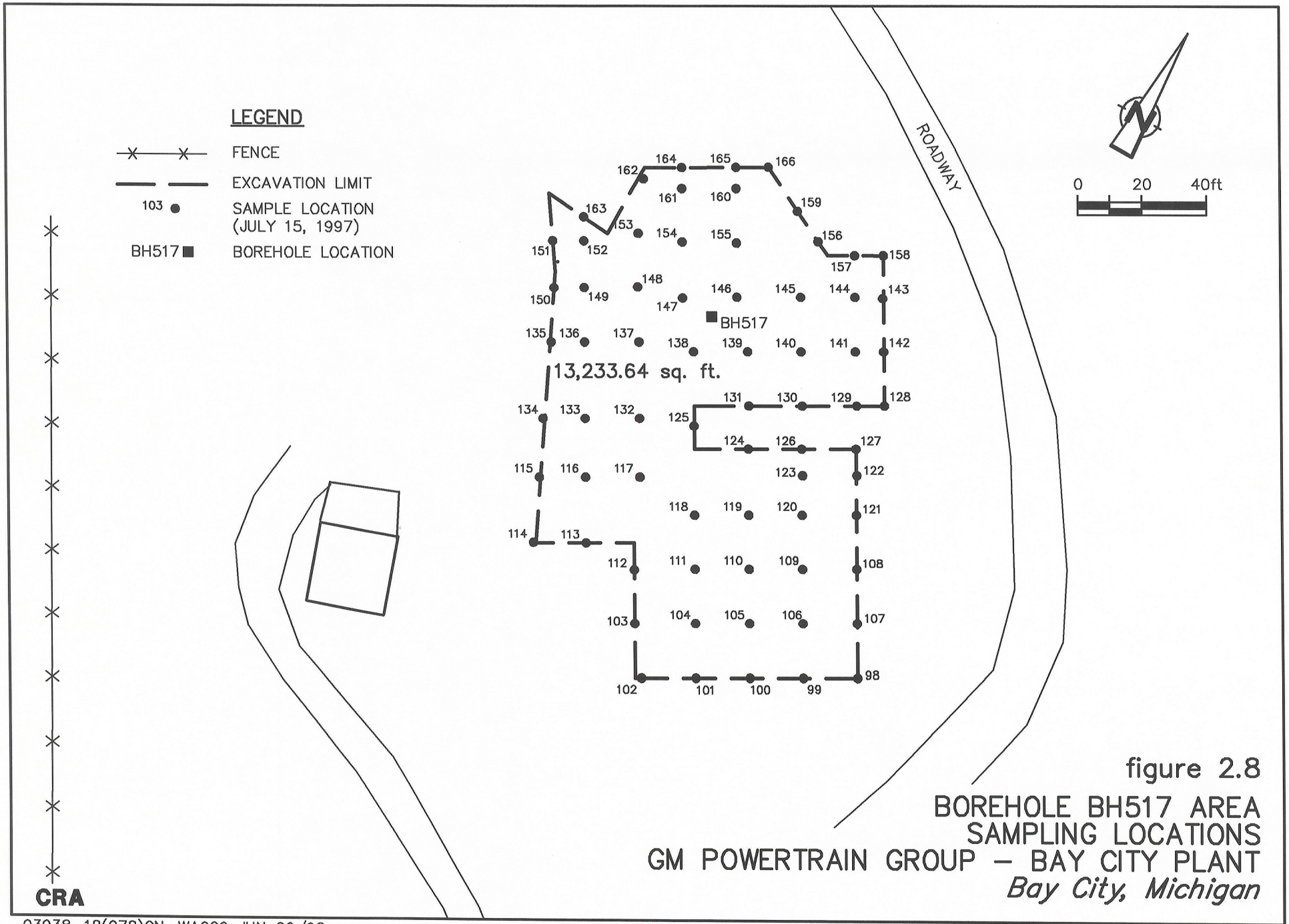



figure 2.8

BOREHOLE BH517 AREA
SAMPLING LOCATIONS
GM POWERTRAIN GROUP – BAY CITY PLANT
*Bay City, Michigan*

03938–18(078)GN–WA009 JUN 09/98

UNDEVELOPED AREA

BERM

FORMER BATTERY CASING AREA

BH523

BH517

BH512

POWER HOUSE

BARREL STORAGE

TRUCK REPAIR AND STORAGE

WAREHOUSE

WASTE WATER FACILITY

SANITARY / STORM TREATMENT PLANT

LEGEND

- FENCE
- RAILWAY
- TREELINE
- SHORELINE
- DEEP SOIL MIXING WALL
- STUDY AREA
- POND AREA
- BH512 RI BOREHOLE LOCATION
- INVESTIGATION AREAS

0 100 200ft

CRA

figure 2.1
UNDEVELOPED AREA
INVESTIGATION AREAS
GM POWERTRAIN GROUP – BAY CITY PLANT
*Bay City, Michigan*

03938-18(078)GN-WA002 JUN 09/98

# TABLE 2.1

## BOREHOLE BH512 AREA
## SUMMARY OF ANALYTICAL RESULTS
## GM POWERTRAIN GROUP, BAY CITY PLANT, BAY CITY, MICHIGAN

| *Sample Identification* | *Sample Date* | *Sample Location* | *Total Lead (mg/kg)* | *Leachable Lead (mg/L)* | *Total PCB (mg/kg)* |
|---|---|---|---|---|---|
| Criteria | | | 400 | 0.19 | 9.9 |
| S-3938-970513-SSH-001 | 13-May-97 | wall | na | na | 0.6 |
| S-3938-970513-SSH-002 | 13-May-97 | wall | na | na | 3.4 |
| S-3938-970513-SSH-003 | 13-May-97 | wall | na | na | 0.6 |
| S-3938-970513-SSH-004 | 13-May-97 | wall | na | na | 3.6 |
| S-3938-970513-SSH-005 | 13-May-97 | wall | na | na | <0.1 |
| S-3938-970513-SSH-006 | 13-May-97 | wall | na | na | <0.1 |
| S-3938-970513-SSH-007 | 13-May-97 | wall | na | na | <0.1 |
| S-3938-970513-SSH-008 | 13-May-97 | wall | na | na | 0.2 |
| S-3938-970513-SSH-009 | 13-May-97 | floor | na | na | 1.4 |
| S-3938-970513-SSH-010 | 13-May-97 | floor | na | na | 0.5 |
| S-3938-970513-SSH-011 | 13-May-97 | floor | na | na | <0.1 |
| S-3938-970513-SSH-012 | 13-May-97 | floor | na | na | <0.1 |
| S-3938-970513-SSH-013 | 13-May-97 | floor | na | na | <0.1 |
| S-3938-970513-SSH-014 | 13-May-97 | floor | na | na | <0.1 |

Note:

na - not analyzed

**TABLE 2.2**

**BOREHOLE BH523 AREA**
**SUMMARY OF ANALYTICAL RESULTS**
**GM POWERTRAIN GROUP, BAY CITY PLANT, BAY CITY, MICHIGAN**

| *Sample Identification* | *Sample Date* | *Sample Location* | *Total Lead (mg/kg)* | *Leachable Lead (mg/L)* | *Total PCB (mg/kg)* |
|---|---|---|---|---|---|
| Criteria | | | 400 | 0.19 | 9.9 |
| S-3938-970513-SSH-015 | 13-May-97 | wall | 299 J | 0.006 | na |
| S-3938-970513-SSH-016 | 13-May-97 | wall | 33 J | 0.013 | na |
| S-3938-970513-SSH-017 | 13-May-97 | wall | 75 J | 0.146 | na |
| S-3938-970513-SSH-018 | 13-May-97 | wall | 2,190 J | 0.058 | na |
| S-3938-970513-SSH-019 | 13-May-97 | wall | 256 J | 0.055 | na |
| S-3938-970513-SSH-020 | 13-May-97 | wall | 335 J | 0.104 | na |
| S-3938-970513-SSH-021 | 13-May-97 | wall | 1,670 J | 0.199 | na |
| S-3938-970513-SSH-022 | 13-May-97 | wall | 12 J | 0.014 | na |
| S-3938-970513-SSH-023 | 13-May-97 | wall | 14 J | 0.013 | na |
| S-3938-970513-SSH-024 | 13-May-97 | wall | 1,460 J | 0.027 | na |
| S-3938-970513-SSH-025 | 13-May-97 | wall | 908 J | 0.05 | na |
| S-3938-970513-SSH-026 | 13-May-97 | wall | 459 J | 0.052 | na |
| S-3938-970513-SSH-027 | 13-May-97 | floor | 89 J | 0.062 | na |
| S-3938-970513-SSH-028 | 13-May-97 | floor | 117 J | 0.045 | na |
| S-3938-970513-SSH-029 | 13-May-97 | floor | 17 J | <0.002 | na |
| S-3938-970513-SSH-030 | 13-May-97 | floor | 116 J | 0.058 | na |
| S-3938-970513-SSH-031 | 13-May-97 | floor | 224 J | 0.07 | na |
| S-3938-970513-SSH-032 | 13-May-97 | floor | 227 J | 0.092 | na |
| S-3938-970513-SSH-033 | 13-May-97 | floor | 30 J | <0.002 | na |
| S-3938-970513-SSH-034 | 13-May-97 | floor | 345 J | 0.178 | na |
| S-3938-970609-SSH-050 | 9-Jun-97 | wall | 57 | 0.068 | na |
| S-3938-970609-SSH-051 | 9-Jun-97 | wall | 35 | 0.038 | na |
| S-3938-970609-SSH-052 | 9-Jun-97 | wall | 274 | 0.051 | na |
| S-3938-970609-SSH-053 | 9-Jun-97 | wall | 295 | 0.056 | na |
| S-3938-970609-SSH-054 | 9-Jun-97 | floor | 49 | 0.028 | na |
| S-3938-970609-SSH-055 | 9-Jun-97 | floor | 4 | 0.003 | na |
| S-3938-970609-SSH-056 | 9-Jun-97 | wall | 29 | 0.022 | na |
| S-3938-970609-SSH-057 | 9-Jun-97 | wall | 35 | 0.025 | na |
| S-3938-970609-SSH-058 | 9-Jun-97 | wall | 80 | 0.026 | na |
| S-3938-970609-SSH-059 | 9-Jun-97 | wall | 218 | 0.078 | na |
| S-3938-970609-SSH-060 | 9-Jun-97 | wall | 9 | 0.011 | na |
| S-3938-970609-SSH-061 | 9-Jun-97 | floor | 78 | 0.023 | na |
| S-3938-970609-SSH-062 | 9-Jun-97 | floor | 81 | 0.034 | na |
| S-3938-970609-SSH-063 | 9-Jun-97 | floor | 49 | 0.029 | na |

Notes:

na - not analyzed
[ ] - exceeds criteria

**TABLE 2.3**

**FORMER BATTERY CASING AREA**
**SUMMARY OF ANALYTICAL RESULTS**
**GM POWERTRAIN GROUP, BAY CITY PLANT, BAY CITY, MICHIGAN**

| *Sample Identification* | *Sample Date* | *Sample Location* | *Total Lead (mg/kg)* | *Leachable Lead (mg/L)* | *Total PCB (mg/kg)* |
|---|---|---|---|---|---|
| Criteria | | | 400 | 0.19 | 9.9 |
| S-3938-970522-SSH-035 | 22-May-97 | floor | 13 J | 0.026 J | <0.1 |
| S-3938-970522-SSH-036 | 22-May-97 | floor | 7,980 J | 0.502 | 0.7 |
| S-3938-970522-SSH-037 | 22-May-97 | floor | 21 J | 0.039 J | 0.1 |
| S-3938-970522-SSH-038 | 22-May-97 | floor | 85 J | 0.10 J | 0.2 |
| S-3938-970522-SSH-039 | 22-May-97 | floor | 322 J | 0.102 J | 0.2 |
| S-3938-970522-SSH-040 | 22-May-97 | floor | 341 J | 0.004 J | <0.1 |
| S-3938-970522-SSH-041 | 22-May-97 | floor | 1,670 J | 0.546 | 11.3 |
| S-3938-970522-SSH-042 | 22-May-97 | floor | 2,540 J | 0.294 | 9.5 |
| S-3938-970522-SSH-043 | 22-May-97 | floor | 1,600 J | 0.632 | 2.2 |
| S-3938-970609-SSH-044 | 9-Jun-97 | floor | 2,160 | 0.688 | na |
| S-3938-970609-SSH-045 | 9-Jun-97 | floor | 14 | 0.013 | na |
| S-3938-970609-SSH-046 | 9-Jun-97 | floor | 151 | 0.174 | na |
| S-3938-970609-SSH-047 | 9-Jun-97 | floor | 22 | 0.004 | na |
| S-3938-970609-SSH-048 | 9-Jun-97 | floor | 725 | 0.064 | na |
| S-3938-970609-SSH-049 | 9-Jun-97 | floor | 1,760 | 0.442 | na |
| S-3938-970625-SSH-064 | 25-Jun-97 | wall | 207 | 0.014 | na |
| S-3938-970625-SSH-065 | 25-Jun-97 | wall | 13 | 0.003 | na |
| S-3938-970625-SSH-066 | 25-Jun-97 | wall | 977 | 0.065 | na |
| S-3938-970625-SSH-067 | 25-Jun-97 | wall | 66 | 0.011 | na |
| S-3938-970625-SSH-068 | 25-Jun-97 | floor | 11 | 0.005 | na |
| S-3938-970625-SSH-069 | 25-Jun-97 | floor | 332 | 0.033 | na |
| S-3938-970625-SSH-070 | 25-Jun-97 | wall | 28 | 0.023 | na |
| S-3938-970625-SSH-071 | 25-Jun-97 | wall | 5,550 | 0.053 | na |
| S-3938-970625-SSH-072 | 25-Jun-97 | wall | 11 | <0.002 | na |
| S-3938-970625-SSH-073 | 25-Jun-97 | wall | 13 | <0.002 | na |
| S-3938-970625-SSH-074 | 25-Jun-97 | wall | 9,130 | 0.106 | na |
| S-3938-970625-SSH-075 | 25-Jun-97 | wall | 20 | <0.002 | na |
| S-3938-970625-SSH-076 | 25-Jun-97 | floor | 90 | <0.002 | na |
| S-3938-970625-SSH-077 | 25-Jun-97 | floor | 645 | 0.047 | na |
| S-3938-970625-SSH-078 | 25-Jun-97 | floor | 1,490 | 0.025 | na |
| S-3938-970625-SSH-079 | 25-Jun-97 | floor | 2,550 | 0.031 | na |
| S-3938-970625-SSH-080 | 25-Jun-97 | floor | 12,500 | 0.057 | na |
| S-3938-970625-SSH-081 | 25-Jun-97 | floor | 66 | 0.026 | na |
| S-3938-970625-SSH-082 | 25-Jun-97 | floor | 5,440 | 0.172 | na |
| S-3938-970625-SSH-083 | 25-Jun-97 | floor | 3 | 0.002 | na |

**TABLE 2.3**

**FORMER BATTERY CASING AREA**
**SUMMARY OF ANALYTICAL RESULTS**
**GM POWERTRAIN GROUP, BAY CITY PLANT, BAY CITY, MICHIGAN**

| *Sample Identification* | *Sample Date* | *Sample Location* | *Total Lead (mg/kg)* | *Leachable Lead (mg/L)* | *Total PCB (mg/kg)* |
|---|---|---|---|---|---|
| Criteria | | | 400 | 0.19 | 9.9 |
| S-3938-970711-SSH-084 | 11-Jul-97 | floor | 12 | 0.007 | na |
| S-3938-970711-SSH-085 | 11-Jul-97 | wall | 293 | <0.002 | na |
| S-3938-970711-SSH-086 | 11-Jul-97 | wall | 281 | 0.039 | na |
| S-3938-970711-SSH-087 | 11-Jul-97 | wall | 6 | 0.007 | na |
| S-3938-970711-SSH-088 | 11-Jul-97 | wall | 1,810 | 0.109 | na |
| S-3938-970711-SSH-089 | 11-Jul-97 | wall | 15 | 0.005 | na |
| S-3938-970711-SSH-090 | 11-Jul-97 | floor | 5 | 0.004 | na |
| S-3938-970711-SSH-091 | 11-Jul-97 | wall | 3 | 0.006 | na |
| S-3938-970711-SSH-092 | 11-Jul-97 | wall | 4 | <0.002 | na |
| S-3938-970711-SSH-093 | 11-Jul-97 | floor | 2 | <0.002 | na |
| S-3938-970711-SSH-094 | 11-Jul-97 | floor | 4 | 0.004 | na |
| S-3938-970711-SSH-095 | 11-Jul-97 | floor | 37 | 0.016 | na |
| S-3938-970711-SSH-096 | 11-Jul-97 | floor | 5 | 0.004 | na |
| S-3938-970711-SSH-097 | 11-Jul-97 | floor | 36 | 0.016 | na |
| S-3938-970719-SSH-167 | 19-Jul-97 | wall | 185 | 0.093 | na |
| S-3938-970719-SSH-168 | 19-Jul-97 | floor | 51.2 | 0.058 | na |
| S-3938-970719-SSH-169 | 19-Jul-97 | wall | 524 | 0.126 | na |
| S-3938-970723-SSH-170 | 23-Jul-97 | wall | 18 | 0.119 | na |
| S-3938-970723-SSH-171 | 23-Jul-97 | wall | 11 | 0.019 | na |
| S-3938-970723-SSH-172 | 23-Jul-97 | wall | 16 | 0.300 | na |
| S-3938-970723-SSH-173 | 23-Jul-97 | floor | 2 | 0.006 | na |

Notes:

na - not analyzed
[ ] - exceeds criteria
J - estimated

**TABLE 2.4**

**PCB EXCAVATION AREA**
**SUMMARY OF ANALYTICAL RESULTS**
**GM POWERTRAIN GROUP, BAY CITY PLANT, BAY CITY, MICHIGAN**

| *Sample Identification* | *Sample Date* | *Sample Location* | *Total Lead (mg/kg)* | *Leachable Lead (mg/L)* | *Total PCB (mg/kg)* |
|---|---|---|---|---|---|
| Criteria | | | 400 | 0.19 | 9.9 |
| S-3938-970715-SSH-098 | 15-Jul-97 | wall | na | na | 130 |
| S-3938-970715-SSH-099 | 15-Jul-97 | wall | na | na | 17 |
| S-3938-970715-SSH-100 | 15-Jul-97 | wall | na | na | 9 |
| S-3938-970715-SSH-101 | 15-Jul-97 | wall | na | na | 15 |
| S-3938-970715-SSH-102 | 15-Jul-97 | wall | na | na | 69 |
| S-3938-970715-SSH-103 | 15-Jul-97 | wall | na | na | 10 |
| S-3938-970715-SSH-104 | 15-Jul-97 | floor | na | na | 3 |
| S-3938-970715-SSH-105 | 15-Jul-97 | floor | na | na | 65 |
| S-3938-970715-SSH-106 | 15-Jul-97 | floor | na | na | 4 |
| S-3938-970715-SSH-107 | 15-Jul-97 | wall | na | na | 120 |
| S-3938-970715-SSH-108 | 15-Jul-97 | wall | na | na | 29 |
| S-3938-970715-SSH-109 | 15-Jul-97 | floor | na | na | <1 |
| S-3938-970715-SSH-110 | 15-Jul-97 | floor | na | na | 3 |
| S-3938-970715-SSH-111 | 15-Jul-97 | floor | na | na | 16 |
| S-3938-970715-SSH-112 | 15-Jul-97 | wall | na | na | 21 |
| S-3938-970715-SSH-113 | 15-Jul-97 | wall | na | na | 170 |
| S-3938-970715-SSH-114 | 15-Jul-97 | wall | na | na | 6 |
| S-3938-970715-SSH-115 | 15-Jul-97 | wall | na | na | 3 |
| S-3938-970715-SSH-116 | 15-Jul-97 | floor | na | na | 24 |
| S-3938-970715-SSH-117 | 15-Jul-97 | floor | na | na | 48 |
| S-3938-970715-SSH-118 | 15-Jul-97 | floor | na | na | 20 |
| S-3938-970715-SSH-119 | 15-Jul-97 | floor | na | na | 2 |
| S-3938-970715-SSH-120 | 15-Jul-97 | floor | na | na | 17 |
| S-3938-970715-SSH-121 | 15-Jul-97 | wall | na | na | 3 |
| S-3938-970715-SSH-122 | 15-Jul-97 | wall | na | na | 1 |
| S-3938-970715-SSH-123 | 15-Jul-97 | floor | na | na | 48 |
| S-3938-970715-SSH-124 | 15-Jul-97 | wall | na | na | 51 |
| S-3938-970715-SSH-125 | 15-Jul-97 | wall | na | na | 7 |
| S-3938-970715-SSH-126 | 15-Jul-97 | wall | na | na | 1 |
| S-3938-970715-SSH-127 | 15-Jul-97 | wall | na | na | 3 |
| S-3938-970715-SSH-128 | 15-Jul-97 | wall | na | na | 31 |
| S-3938-970715-SSH-129 | 15-Jul-97 | wall | na | na | <1 |
| S-3938-970715-SSH-130 | 15-Jul-97 | wall | na | na | 5 |
| S-3938-970715-SSH-131 | 15-Jul-97 | wall | na | na | 6 |
| S-3938-970715-SSH-132 | 15-Jul-97 | floor | na | na | <1 |
| S-3938-970715-SSH-133 | 15-Jul-97 | floor | na | na | 4 |
| S-3938-970715-SSH-134 | 15-Jul-97 | wall | na | na | 53 |
| S-3938-970715-SSH-135 | 15-Jul-97 | wall | na | na | 3 |
| S-3938-970715-SSH-136 | 15-Jul-97 | floor | na | na | 1 |

**TABLE 2.4**

**PCB EXCAVATION AREA**
**SUMMARY OF ANALYTICAL RESULTS**
**GM POWERTRAIN GROUP, BAY CITY PLANT, BAY CITY, MICHIGAN**

| *Sample Identification* | *Sample Date* | *Sample Location* | *Total Lead (mg/kg)* | *Leachable Lead (mg/L)* | *Total PCB (mg/kg)* |
|---|---|---|---|---|---|
| Criteria | | | 400 | 0.19 | 9.9 |
| S-3938-970715-SSH-137 | 15-Jul-97 | floor | na | na | 3 |
| S-3938-970715-SSH-138 | 15-Jul-97 | floor | na | na | <1 |
| S-3938-970715-SSH-139 | 15-Jul-97 | floor | na | na | 12 |
| S-3938-970715-SSH-140 | 15-Jul-97 | floor | na | na | 10 |
| S-3938-970715-SSH-141 | 15-Jul-97 | floor | na | na | 12 |
| S-3938-970715-SSH-142 | 15-Jul-97 | wall | na | na | 7 |
| S-3938-970715-SSH-143 | 15-Jul-97 | wall | na | na | 2 |
| S-3938-970715-SSH-144 | 15-Jul-97 | floor | na | na | 9 |
| S-3938-970715-SSH-145 | 15-Jul-97 | floor | na | na | 34 |
| S-3938-970715-SSH-146 | 15-Jul-97 | floor | na | na | 6 |
| S-3938-970715-SSH-147 | 15-Jul-97 | floor | na | na | 7 |
| S-3938-970715-SSH-148 | 15-Jul-97 | floor | na | na | 8 |
| S-3938-970715-SSH-149 | 15-Jul-97 | floor | na | na | 12 |
| S-3938-970715-SSH-150 | 15-Jul-97 | wall | na | na | 5 |
| S-3938-970715-SSH-151 | 15-Jul-97 | wall | na | na | 50 |
| S-3938-970715-SSH-152 | 15-Jul-97 | floor | na | na | 17 |
| S-3938-970715-SSH-153 | 15-Jul-97 | floor | na | na | 9 |
| S-3938-970715-SSH-154 | 15-Jul-97 | floor | na | na | 14 |
| S-3938-970715-SSH-155 | 15-Jul-97 | floor | na | na | 5 |
| S-3938-970715-SSH-156 | 15-Jul-97 | wall | na | na | 1 |
| S-3938-970715-SSH-157 | 15-Jul-97 | wall | na | na | 3 |
| S-3938-970715-SSH-158 | 15-Jul-97 | wall | na | na | 110 |
| S-3938-970715-SSH-159 | 15-Jul-97 | wall | na | na | 5 |
| S-3938-970715-SSH-160 | 15-Jul-97 | floor | na | na | 4 |
| S-3938-970715-SSH-161 | 15-Jul-97 | floor | na | na | 29 |
| S-3938-970715-SSH-162 | 15-Jul-97 | wall | na | na | 1 |
| S-3938-970715-SSH-163 | 15-Jul-97 | wall | na | na | 2 |
| S-3938-970715-SSH-164 | 15-Jul-97 | wall | na | na | 84 |
| S-3938-970715-SSH-165 | 15-Jul-97 | wall | na | na | 1 |
| S-3938-970715-SSH-166 | 15-Jul-97 | wall | na | na | 25 |

Notes:

na - not analyzed
[ ] - exceeds criteria
J - estimated

# ATTACHMENT A

# ANALYTICAL DATA REPORTS

REC'D C
MAY 2 8 1997
SDG

**Columbia Analytical Services** INC.

May 27, 1997

Service Request No: K9703221

Paul Wiseman
Conastoga Rovers Ltd.
11100 Metro Airport Center Drive, Suite 160
Romulus, MI 48174

**Re: GMPT-BAY City/#CRA**

Dear Paul:

Enclosed is the reissued report for the sample(s) submitted to our laboratory on May 14, 1997. For your reference, these analyses have been assigned our service request number K9703221.

The Matrix Spike (MS) recovery of total lead for sample 5-3938-970513-SSH-015 was not calculated. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

The Matrix Spike (MS) recovery of Aroclor 1254 for sample 5-393899705139SSH-004 was not calculated. The analyte concentration for Aroclor 1248 interfered with the quantitation of Aroclor 1254, preventing accurate evaluation of the spike recovery.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions. My extension is 246.

Respectfully submitted,

**Columbia Analytical Services, Inc.**

Cynthia for

Abbie Spielman
Client Services Manager

AS/td

ORIGINAL ANALYTICAL REPORT
Project: 3938 Lab #: K9703221
Name: Gmpt - Bay City
Event:
Samples: 34 - Soil
Analysis: PCB's, Lead
TAT: 24hr
Lab: CAS
Checked by:
Date: 6/16/97
Date of V...: 5/31/97
Comments:



1317 South 13th Avenue • P.O. Box 479 • Kelso, Washington 98626 • Telephone 360/577-7222 • Fax 360/636-1068

## Acronyms

| | |
|---|---|
| ASTM | American Society for Testing and Materials |
| A2LA | American Association for Laboratory Accreditation |
| CARB | California Air Resources Board |
| CAS Number | Chemical Abstract Service registry Number |
| CFC | Chlorofluorocarbon |
| CFU | Colony-Forming Unit |
| DEC | Department of Environmental Conservation |
| DEQ | Department of Environmental Quality |
| DHS | Department of Health Services |
| DOE | Department of Ecology |
| DOH | Department of Health |
| EPA | U. S. Environmental Protection Agency |
| ELAP | Environmental Laboratory Accreditation Program |
| GC | Gas Chromatography |
| GC/MS | Gas Chromatography/Mass Spectrometry |
| J | Estimated concentration. The value is less than the method reporting limit, but greater than the method detection limit. |
| LUFT | Leaking Underground Fuel Tank |
| M | Modified |
| MCL | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL | Method Detection Limit |
| MPN | Most Probable Number |
| MRL | Method Reporting Limit |
| NA | Not Applicable |
| NAN | Not Analyzed |
| NC | Not Calculated |
| NCASI | National Council of the Paper Industry for Air and Stream Improvement |
| ND | Not Detected at or above the MRL |
| NIOSH | National Institute for Occupational Safety and Health |
| PQL | Practical Quantitation Limit |
| RCRA | Resource Conservation and Recovery Act |
| SIM | Selected Ion Monitoring |
| TPH | Total Petroleum Hydrocarbons |
| tr | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL. |

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703221 |
| **Project:** | GMPT-Bay City/#CRA | **Date Collected:** | 5/13/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 5/14/97 |
| | | **Date Extracted:** | NA |
| | | **Date Analyzed:** | 5/14/97 |

Solids, Total
EPA Method 160.3 Modified
Units: Percent (%)

| Sample Name | Lab Code | Result |
|---|---|---|
| 5-3938-970513-SSH-001 | K9703221-001 | 89.4 |
| 5-3938-970513-SSH-002 | K9703221-002 | 94.1 |
| 5-3938-970513-SSH-003 | K9703221-003 | 94.4 |
| 5-3938-970513-SSH-004 | K9703221-004 | 93.9 |
| 5-3938-970513-SSH-005 | K9703221-005 | 91.1 |
| 5-3938-970513-SSH-006 | K9703221-006 | 91.1 |
| 5-3938-970513-SSH-007 | K9703221-007 | 88.2 |
| 5-3938-970513-SSH-008 | K9703221-008 | 91.1 |
| 5-3938-970513-SSH-009 | K9703221-009 | 86.7 |
| 5-3938-970513-SSH-010 | K9703221-010 | 84.6 |
| 5-3938-970513-SSH-011 | K9703221-011 | 89.4 |
| 5-3938-970513-SSH-012 | K9703221-012 | 86.1 |
| 5-3938-970513-SSH-013 | K9703221-013 | 88.6 |
| 5-3938-970513-SSH-014 | K9703221-014 | 87.2 |
| 5-3938-970513-SSH-015 | K9703221-015 | 84.4 |
| 5-3938-970513-SSH-016 | K9703221-016 | 83.4 |
| 5-3938-970513-SSH-017 | K9703221-017 | 89.7 |
| 5-3938-970513-SSH-018 | K9703221-018 | 80.0 |
| 5-3938-970513-SSH-019 | K9703221-019 | 95.1 |
| 5-3938-970513-SSH-020 | K9703221-020 | 84.7 |

Approved By: _____ Date: 5/16/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City/#CRA
**Sample Matrix:** Soil

**Service Request:** K9703221
**Date Collected:** 5/13/97
**Date Received:** 5/14/97
**Date Extracted:** NA
**Date Analyzed:** 5/14/97

Solids, Total
EPA Method 160.3 Modified
Units: Percent (%)

| Sample Name | Lab Code | Result |
|---|---|---|
| 5-3938-970513-SSH-021 | K9703221-021 | 83.0 |
| 5-3938-970513-SSH-022 | K9703221-022 | 88.9 |
| 5-3938-970513-SSH-023 | K9703221-023 | 85.7 |
| 5-3938-970513-SSH-024 | K9703221-024 | 88.8 |
| 5-3938-970513-SSH-025 | K9703221-025 | 91.4 |
| 5-3938-970513-SSH-026 | K9703221-026 | 88.2 |
| 5-3938-970513-SSH-027 | K9703221-027 | 86.2 |
| 5-3938-970513-SSH-028 | K9703221-028 | 91.1 |
| 5-3938-970513-SSH-029 | K9703221-029 | 90.3 |
| 5-3938-970513-SSH-030 | K9703221-030 | 101 |
| 5-3938-970513-SSH-031 | K9703221-031 | 87.9 |
| 5-3938-970513-SSH-032 | K9703221-032 | 89.5 |
| 5-3938-970513-SSH-033 | K9703221-033 | 90.6 |
| 5-3938-970513-SSH-034 | K9703221-034 | 84.4 |

Approved By: _____ Date: 5/16/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City/#CRA
**Sample Matrix:** Soil

**Service Request:** K9703221
**Date Collected:** 5/13/97
**Date Received:** 5/14/97
**Date Extracted:** 5/14/97
**Date Analyzed:** 5/15/97

Total Lead
EPA Method 7421
Units: mg/Kg (ppm)
Dry Weight Basis

| Sample Name | Lab Code | MRL | Result |
|---|---|---|---|
| 5-3938-970513-SSH-015 | K9703221-015 | 1 | 299 |
| 5-3938-970513-SSH-016 | K9703221-016 | 1 | 33 |
| 5-3938-970513-SSH-017 | K9703221-017 | 1 | 75 |
| 5-3938-970513-SSH-018 | K9703221-018 | 1 | 2190 |
| 5-3938-970513-SSH-019 | K9703221-019 | 1 | 256 |
| 5-3938-970513-SSH-020 | K9703221-020 | 1 | 335 |
| 5-3938-970513-SSH-021 | K9703221-021 | 1 | 1670 |
| 5-3938-970513-SSH-022 | K9703221-022 | 1 | 12 |
| 5-3938-970513-SSH-023 | K9703221-023 | 1 | 14 |
| 5-3938-970513-SSH-024 | K9703221-024 | 1 | 1460 |
| 5-3938-970513-SSH-025 | K9703221-025 | 1 | 908 |
| 5-3938-970513-SSH-026 | K9703221-026 | 1 | 459 |
| 5-3938-970513-SSH-027 | K9703221-027 | 1 | 89 |
| 5-3938-970513-SSH-028 | K9703221-028 | 1 | 117 |
| 5-3938-970513-SSH-029 | K9703221-029 | 1 | 17 |
| 5-3938-970513-SSH-030 | K9703221-030 | 1 | 116 |
| 5-3938-970513-SSH-031 | K9703221-031 | 1 | 224 |
| 5-3938-970513-SSH-032 | K9703221-032 | 1 | 227 |
| 5-3938-970513-SSH-033 | K9703221-033 | 1 | 30 |
| 5-3938-970513-SSH-034 | K9703221-034 | 1 | 345 |
| Method Blank | K9703221-MB | 1 | ND |

Approved By: _____ Date: 5/15/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services. Inc. | **Service Request:** | K9703221 |
| **Project:** | GMPT-BAY City/#CRA | **Date Collected:** | 5/13/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 5/14/97 |
| | | **Date Extracted:** | 5/14/97 |
| | | **Date Analyzed:** | 5/15/97 |

Synthetic Precipitation Leaching Procedure (SPLP)
- EPA Method 1312/7421
**Lead**
Units: mg/L (ppm) in SPLP Extract

| Sample Name | Lab Code | MRL | Result |
|---|---|---|---|
| 5-3938-970513-SSH-015 | K9703221-015 | 0.002 | 0.006 |
| 5-3938-970513-SSH-016 | K9703221-016 | 0.002 | 0.013 |
| 5-3938-970513-SSH-017 | K9703221-017 | 0.002 | 0.146 |
| 5-3938-970513-SSH-018 | K9703221-018 | 0.002 | 0.058 |
| 5-3938-970513-SSH-019 | K9703221-019 | 0.002 | 0.055 |
| 5-3938-970513-SSH-020 | K9703221-020 | 0.002 | 0.104 |
| 5-3938-970513-SSH-021 | K9703221-021 | 0.002 | 0.199 |
| 5-3938-970513-SSH-022 | K9703221-022 | 0.002 | 0.014 |
| 5-3938-970513-SSH-023 | K9703221-023 | 0.002 | 0.013 |
| 5-3938-970513-SSH-024 | K9703221-024 | 0.002 | 0.027 |
| 5-3938-970513-SSH-025 | K9703221-025 | 0.002 | 0.050 |
| 5-3938-970513-SSH-026 | K9703221-026 | 0.002 | 0.052 |
| 5-3938-970513-SSH-027 | K9703221-027 | 0.002 | 0.062 |
| 5-3938-970513-SSH-028 | K9703221-028 | 0.002 | 0.045 |
| 5-3938-970513-SSH-029 | K9703221-029 | 0.002 | ND |
| 5-3938-970513-SSH-030 | K9703221-030 | 0.002 | 0.058 |
| 5-3938-970513-SSH-031 | K9703221-031 | 0.002 | 0.070 |
| 5-3938-970513-SSH-032 | K9703221-032 | 0.002 | 0.092 |
| 5-3938-970513-SSH-033 | K9703221-033 | 0.002 | ND |
| 5-3938-970513-SSH-034 | K9703221-034 | 0.002 | 0.178 |
| Method Blank | K9703221-MB | 0.002 | ND |

Approved By: _____ Date: 5/19/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703221 |
| **Project:** | GMPT-BAY City/#CRA | **Date Collected:** | 5/13/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 5/14/97 |
| | | **Date Extracted:** | 5/14/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3550A/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | **5-3938-970513-SSH-001** | **5-3938-970513-SSH-002** | **5-3938-970513-SSH-003** |
|---|---|---|---|---|
| Sample Name: | | | | |
| Lab Code: | | K9703221-001 | K9703221-002 | K9703221-003 |
| Date Analyzed: | | 5/15/97 | 5/15/97 | 5/15/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 0.1 | ND | ND | ND |
| Aroclor 1221 | 0.1 | ND | ND | ND |
| Aroclor 1232 | 0.1 | ND | ND | ND |
| Aroclor 1242 | 0.1 | ND | ND | ND |
| Aroclor 1248 | 0.1 | 0.6 | 3.4 | 0.6 |
| Aroclor 1254 | 0.1 | ND | ND | ND |
| Aroclor 1260 | 0.1 | ND | ND | ND |

Approved By: _____ Date: 5/15/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703221 |
| **Project:** | GMPT-BAY City/#CRA | **Date Collected:** | 5/13/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 5/14/97 |
| | | **Date Extracted:** | 5/14/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3550A/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | **5-3938-970513-SSH-004** | **5-3938-970513-SSH-005** | **5-3938-970513-SSH-006** |
|---|---|---|---|---|
| | Sample Name: | | | |
| | Lab Code: | K9703221-004 D | K9703221-005 | K9703221-006 |
| | Date Analyzed: | 5/15/97 | 5/15/97 | 5/15/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 0.1 | <1 | ND | ND |
| Aroclor 1221 | 0.1 | <1 | ND | ND |
| Aroclor 1232 | 0.1 | <1 | ND | ND |
| Aroclor 1242 | 0.1 | <1 | ND | ND |
| Aroclor 1248 | 0.1 | 3.6 | ND | ND |
| Aroclor 1254 | 0.1 | <1 | ND | ND |
| Aroclor 1260 | 0.1 | <1 | ND | ND |

D The MRL is elevated because of matrix interferences and because the sample required diluting.

Approved By: _____ Date: 5/16/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-BAY City/#CRA
**Sample Matrix:** Soil

**Service Request:** K9703221
**Date Collected:** 5/13/97
**Date Received:** 5/14/97
**Date Extracted:** 5/14/97

Polychlorinated Biphenyls (PCBs)
EPA Methods 3550A/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | 5-3938-970513-SSH-007 | 5-3938-970513-SSH-008 | 5-3938-970513-SSH-009 |
|---|---|---|---|---|
| Sample Name: | | 5-3938-970513-SSH-007 | 5-3938-970513-SSH-008 | 5-3938-970513-SSH-009 |
| Lab Code: | | K9703221-007 | K9703221-008 | K9703221-009 |
| Date Analyzed: | | 5/15/97 | 5/15/97 | 5/15/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 0.1 | ND | ND | ND |
| Aroclor 1221 | 0.1 | ND | ND | ND |
| Aroclor 1232 | 0.1 | ND | ND | ND |
| Aroclor 1242 | 0.1 | ND | ND | ND |
| Aroclor 1248 | 0.1 | ND | 0.2 | 1.4 |
| Aroclor 1254 | 0.1 | ND | ND | ND |
| Aroclor 1260 | 0.1 | ND | ND | ND |

Approved By: _____ Date: 5/15/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-BAY City/#CRA
**Sample Matrix:** Soil

**Service Request:** K9703221
**Date Collected:** 5/13/97
**Date Received:** 5/14/97
**Date Extracted:** 5/14/97

Polychlorinated Biphenyls (PCBs)
EPA Methods 3550A/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | 5-3938-970513-SSH-010 | 5-3938-970513-SSH-011 | 5-3938-970513-SSH-012 |
|---|---|---|---|---|
| Sample Name: | | | | |
| Lab Code: | | K9703221-010 | K9703221-011 | K9703221-012 |
| Date Analyzed: | | 5/15/97 | 5/15/97 | 5/15/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 0.1 | ND | ND | ND |
| Aroclor 1221 | 0.1 | ND | ND | ND |
| Aroclor 1232 | 0.1 | ND | ND | ND |
| Aroclor 1242 | 0.1 | ND | ND | ND |
| Aroclor 1248 | 0.1 | 0.5 | ND | ND |
| Aroclor 1254 | 0.1 | ND | ND | ND |
| Aroclor 1260 | 0.1 | ND | ND | ND |

Approved By: _____ Date: 5/15/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-BAY City/#CRA
**Sample Matrix:** Soil

**Service Request:** K9703221
**Date Collected:** 5/13/97
**Date Received:** 5/14/97
**Date Extracted:** 5/14/97

Polychlorinated Biphenyls (PCBs)
EPA Methods 3550A/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | 5-3938-970513-SSH-013 | 5-3938-970513-SSH-014 | Method Blank |
|---|---|---|---|---|
| Sample Name: | | | | |
| Lab Code: | | K9703221-013 | K9703221-014 | K970514-MB |
| Date Analyzed: | | 5/15/97 | 5/15/97 | 5/14/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 0.1 | ND | ND | ND |
| Aroclor 1221 | 0.1 | ND | ND | ND |
| Aroclor 1232 | 0.1 | ND | ND | ND |
| Aroclor 1242 | 0.1 | ND | ND | ND |
| Aroclor 1248 | 0.1 | ND | ND | ND |
| Aroclor 1254 | 0.1 | ND | ND | ND |
| Aroclor 1260 | 0.1 | ND | ND | ND |

Approved By: _____ Date: 5/15/97

# APPENDIX A

# LABORATORY QA/QC RESULTS

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City/#CRA
**Sample Matrix:** Soil

**Service Request:** K9703221
**Date Collected:** 5/13/97
**Date Received:** 5/14/97
**Date Extracted:** 5/14/97
**Date Analyzed:** 5/15/97

Duplicate Summary
Total Metals
Units: mg/Kg (ppm)
Dry Weight Basis

Sample Name: 5-3938-970513-SSH-015
Lab Code: K9703221-015

| Analyte | EPA Method | MRL | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference |
|---|---|---|---|---|---|---|
| Lead | 7421 | 1 | 299 | 555 | 427 | 60 |

Approved By: _____ Date: 5/16/97

DUP1SEPA/102194
03221ICP.JC1 - DUP 5/16/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703221 |
| **Project:** | GMPT-Bay City/#CRA | **Date Collected:** | 5/13/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 5/14/97 |
| | | **Date Extracted:** | 5/14/97 |
| | | **Date Analyzed:** | 5/15/97 |

Matrix Spike Summary
Total Metals
Units: mg/Kg (ppm)
Dry Weight Basis

Sample Name: 5-3938-970513-SSH-015
Lab Code: K9703221-015

| Analyte | MRL | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery | CAS Percent Recovery Acceptance Limits |
|---|---|---|---|---|---|---|
| Lead | 1 | 5 | 299 | 457 | NA | 75-125 |

NA Not Applicable; see case narrative.

Approved By: _____ Date: 5/16/97

MS1S/102194

03221ICP.JC1 - Spike 5/16/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703221 |
| **Project:** | GMPT-BAY City/#CRA | **Date Collected:** | 5/13/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 5/14/97 |
| | | **Date Extracted:** | 5/14/97 |
| | | **Date Analyzed:** | 5/16/97 |

Duplicate Summary
Synthetic Precipitation Leaching Procedure (SPLP)
EPA Method 1312/7421
Units: mg/L (ppm) in SPLP Extract

Sample Name: 5-3938-970513-SSH-016
Lab Code: K9703221-016

| Analyte | EPA Method | MRL | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference |
|---|---|---|---|---|---|---|
| Lead | 7421 | 0.002 | 0.013 | 0.013 | 0.013 | <1 |

Approved By: _____ Date: 5/19/97

DUP1SEPA/102194
03221ICP.EA1 - DUP 5/19/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703221 |
| **Project:** | GMPT-BAY City/#CRA | **Date Collected:** | 5/13/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 5/14/97 |
| | | **Date SPLP Performed:** | 5/14/97 |
| | | **Date Extracted:** | 5/15/97 |
| | | **Date Analyzed:** | 5/16/97 |

Matrix Spike Summary
Synthetic Precipitation Leaching Procedure (SPLP)
EPA Method 1312/7421
**Metals**
Units: mg/L (ppm) in SPLP Extract

Sample Name: 5-3938-970513-SSH-016
Lab Code: K9703221-016

| Analyte | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery* |
|---|---|---|---|---|
| Lead | 0.100 | 0.013 | 0.102 | 89 |

* Percent recovery information is provided in order to assess the performance of the method on this matrix.

Approved By: _____ Date: 5/19/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703221 |
| **Project:** | GMPT-Bay City/#CRA | **Date Collected:** | NA |
| **LCS Matrix:** | Soil | **Date Received:** | NA |
| | | **Date Analyzed:** | 5/15/97 |

Laboratory Control Sample Summary
Total Metals
Units: mg/Kg (ppm)

Source: ERA Priority Pollutant/CLP Inorganic Soils

| Analyte | EPA Method | Result | Control Limits |
|---|---|---|---|
| Lead | 1312/7421 | 118 | 92.8-251 |

Approved By: _____ Date: 5/19/97

LCSEPA/102194
03221ICP.EA2 - ERA 230 5/19/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703221 |
| **Project:** | GMPT-Bay City/#CRA | **Date Analyzed:** | 5/15/97 |

Initial Calibration Verification (ICV) Summary
Metals
Units: µg/L (ppb)

ICV Source: Inorganic Ventures ICV

| Analyte | EPA Method | True Value | Result | Percent Recovery |
|---|---|---|---|---|
| Lead | 7421 | 25.0 | 26.3 | 105 |

Approved By: _____ Date: 5/16/97

ICVEPA/102194
03221ICP.EA2 - ICV 5/16/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City/#CRA

**Service Request:** K9703221
**Date Analyzed:** 5/16/97

Initial Calibration Verification (ICV) Summary
Metals
Units: µg/L (ppb)

ICV Source: Inorganic Ventures ICV

| Analyte | EPA Method | True Value | Result | Percent Recovery |
|---|---|---|---|---|
| Lead | 7421 | 25.0 | 25.0 | 100 |

Approved By: _____ Date: 5/16/97

ICVEPA/102194
03221ICP.EA2 - ICV (2) 5/16/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City/#CRA

**Service Request:** K9703221
**Date Analyzed:** 5/15-16/97

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV1 Result | Percent Recovery | CCV2 Result | Percent Recovery | CCV3 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|
| Lead | 7421 | 40.0 | 39.9 | 100 | 41.4 | 104 | 40.2 | 101 |

Approved By: _____ Date: 5/16/97

CCV 1-3/042795
03221ICP.EA2 - CCV 1-3 5/16/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City/#CRA

**Service Request:** K9703221
**Date Analyzed:** 5/15-16/97

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV4 Result | Percent Recovery | CCV5 Result | Percent Recovery | CCV6 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|
| Lead | 7421 | 40.0 | 40.6 | 102 | 39.8 | 100 | 39.0 | 98 |

Approved By: _____ Date: 5/16/97

CCV 4-6/042795
03221ICP.EA2 - CCV 4-6 5/16/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City/#CRA

**Service Request:** K9703221
**Date Analyzed:** 5/15-16/97

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV7 Result | Percent Recovery | CCV8 Result | Percent Recovery | CCV9 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|
| Lead | 7421 | 40.0 | 39.8 | 100 | 37.2 | 93 | 39.5 | 99 |

Approved By: _____ Date: 5/16/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703221 |
| **Project:** | GMPT-Bay City/#CRA | **Date Analyzed:** | 5/15-16/97 |

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV10 Result | Percent Recovery | CCV11 Result | Percent Recovery | CCV12 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|
| Lead | 7421 | 40.0 | 39.4 | 99 | 37.5 | 94 | 38.8 | 97 |

Approved By: _____ Date: 5/16/97

CCV 1-3/042795
03221ICP.EA2 - CCV 1-3 (2) 5/16/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703221 |
| **Project:** | GMPT-Bay City/#CRA | **Date Analyzed:** | 5/15-16/97 |

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV13 Result | Percent Recovery | CCV14 Result | Percent Recovery |
|---|---|---|---|---|---|---|
| Lead | 7421 | 40.0 | 39.6 | 99 | 40.1 | 100 |

Approved By: _____ Date: 5/16/97

CCV 4-6/042795
03221ICP.EA2 - CCV 4-6 (2) 5/16/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City/#CRA

**Service Request:** K9703221
**Date Analyzed:** 5/ 15-16/97

Continuing Calibration Blank (CCB) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | MRL | CCB1 Result | CCB2 Result | CCB3 Result | CCB4 Result |
|---|---|---|---|---|---|---|
| Lead | 7421 | 2 | ND | ND | ND | ND |

Approved By: _____ Date: 5/16/97

CCB4SMRL/102194

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City/#CRA

**Service Request:** K9703221
**Date Analyzed:** 5/ 15-16/97

Continuing Calibration Blank (CCB) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | MRL | CCB5 Result | CCB6 Result | CCB7 Result | CCB8 Result |
|---|---|---|---|---|---|---|
| Lead | 7421 | 2 | ND | ND | ND | ND |

Approved By: _____ Date: 5/16/97

CCB4SMRL/102194

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City/#CRA

**Service Request:** K9703221
**Date Analyzed:** 5/ 15-16/97

Continuing Calibration Blank (CCB) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | MRL | CCB9 Result | CCB10 Result | CCB11 Result | CCB12 Result |
|---|---|---|---|---|---|---|
| Lead | 7421 | 2 | ND | ND | ND | ND |

Approved By: _____ Date: 5/16/97

CCB4SMRL/102194

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703221 |
| **Project:** | GMPT-Bay City/#CRA | **Date Analyzed:** | 5/ 15-16/97 |

Continuing Calibration Blank (CCB) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | MRL | CCB13 Result | CCB14 Result |
|---|---|---|---|---|
| Lead | 7421 | 2 | ND | ND |

Approved By: _____ Date: 5/16/97

CCB4SMRL/102194

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703221 |
| **Project:** | GMPT-Bay City/#CRA | **Date Collected:** | NA |
| **LCS Matrix:** | Soil | **Date Received:** | NA |
| | | **Date Analyzed:** | 5/15/97 |

Laboratory Control Sample Summary
Total Metals
Units: mg/Kg (ppm)

Source: ERA Priority Pollutant/CLP Inorganic Soils

| Analyte | EPA Method | Result | Control Limits |
|---|---|---|---|
| Lead | 7421 | 118 | 92.8-251 |

Approved By: _____ Date: 5/16/97

LCSEPA/102194
03221ICP.EA2 - ERA 230 5/16/97


00028

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-BAY City/#CRA
**Sample Matrix:** Soil

**Service Request:** K9703221
**Date Collected:** 5/13/97
**Date Received:** 5/14/97
**Date Extracted:** 5/14/97
**Date Analyzed:** 5/14,15/97

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)
EPA Methods 3550A/8080A

| Sample Name | Lab Code | Percent Recovery Decachlorobiphenyl |
|---|---|---|
| 5-3938-970513-SSH-001 | K9703221-001 | 95 |
| 5-3938-970513-SSH-002 | K9703221-002 | 77 |
| 5-3938-970513-SSH-003 | K9703221-003 | 89 |
| 5-3938-970513-SSH-004 | K9703221-004 | 89 |
| 5-3938-970513-SSH-005 | K9703221-005 | 83 |
| 5-3938-970513-SSH-006 | K9703221-006 | 78 |
| 5-3938-970513-SSH-007 | K9703221-007 | 80 |
| 5-3938-970513-SSH-008 | K9703221-008 | 82 |
| 5-3938-970513-SSH-009 | K9703221-009 | 85 |
| 5-3938-970513-SSH-010 | K9703221-010 | 83 |
| 5-3938-970513-SSH-011 | K9703221-011 | 83 |
| 5-3938-970513-SSH-012 | K9703221-012 | 79 |
| 5-3938-970513-SSH-013 | K9703221-013 | 80 |
| 5-3938-970513-SSH-014 | K9703221-014 | 86 |
| 5-3938-970513-SSH-004 | K9703221-004MS | 83 |
| 5-3938-970513-SSH-004 | K9703221-004DMS | 84 |
| Lab Control Sample | K970514-LCS | 93 |
| Method Blank | K970514-MB | 95 |

CAS Acceptance Limits: 54-144

Approved By: _____ Date: 5/15/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703221 |
| **Project:** | GMPT-BAY City/#CRA | **Date Collected:** | 5/13/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 5/14/97 |
| | | **Date Extracted:** | 5/14/97 |
| | | **Date Analyzed:** | 5/15/97 |

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)
EPA Methods 3550A/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

Sample Name: 5-3938-970513-SSH-004
Lab Code: K9703221-004MS, K9703221-004DMS

| | Spike Level | | Sample | Spike Result | | Percent Recovery | | CAS Acceptance | Relative Percent |
|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | MS | DMS | **Result** | MS | DMS | MS | DMS | Limits | **Difference** |
| Aroclor 1254 | 2.0 | 1.9 | ND | NA | NA | NA | NA | 42-142 | - |

NA Not Applicable; see case narrative.

Approved By: _____ Date: 5/15/97

DMS1S/120594
03221SVG.MM1 - DMS1S 5/15/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703221 |
| **Project:** | GMPT-BAY City/#CRA | **Date Collected:** | NA |
| **LCS Matrix:** | Soil | **Date Received:** | NA |
| | | **Date Extracted:** | 5/14/97 |
| | | **Date Analyzed:** | 5/14/97 |

Laboratory Control Sample Summary
Polychlorinated Biphenyls (PCBs)
EPA Methods 3550A/8080A
Units: mg/Kg (ppm)

| Analyte | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits |
|---|---|---|---|---|
| Aroclor 1254 | 1.3 | 1.1 | 85 | 59-130 |

Approved By: _____ Date: 5/15/97

LCS/121594
03221SVG.MM1 - LCS 5/15/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-BAY City/#CRA

**Service Request:** K9703221
**Date Analyzed:** 10/19/96 - 2/1/97

Initial Calibration Verification (ICV) Summary
Polychlorinated Biphenyls(PCBs)
EPA Method 8080A
Units: µg/mL (ppm)

| Analyte | True Value | Result | Percent Recovery |
|---|---|---|---|
| Aroclor 1016 | 1.0 | 0.88 | 88 |
| Aroclor 1221 | 1.0 | 1.18 | 118 |
| Aroclor 1232 | 1.0 | 0.92 | 92 |
| Aroclor 1242 | 1.0 | 0.86 | 86 |
| Aroclor 1248 | 1.0 | 0.92 | 92 |
| Aroclor 1254 | 1.4 | 1.30 | 93 |
| Aroclor 1260 | 1.0 | 1.11 | 111 |

Approved By: _____ Date: 5/15/97

ICV25/120594
03221SVG.JJ1 - ICV25 5/15/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-BAY City/#CRA

**Service Request:** K9703221
**Calibration Date:** 5/14/97
**Date Analyzed:** 5/14,15/97

Continuing Calibration Verification (CCV) Summary
Polychlorinated Biphenyls (PCBs)
EPA Method 8080A
Units: µg/mL (ppm)

| Analyte | True Value | CCV1 Result | Percent Recovery | CCV2 Result | Percent Recovery | CCV3 Result | Percent Recovery | CCV4 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 1.5 | 1.4 | 93 | 1.5 | 100 | 1.5 | 100 | 1.5 | 100 |
| Aroclor 1221 | 1.0 | 0.9 | 90 | 0.9 | 90 | 1.0 | 100 | 1.0 | 100 |
| Aroclor 1242 | 1.0 | 1.0 | 100 | 1.0 | 100 | 1.0 | 100 | 1.0 | 100 |
| Aroclor 1248 | 1.0 | - | - | - | - | 1.0 | 100 | 1.0 | 100 |
| Aroclor 1254 | 1.0 | 0.9 | 90 | 0.9 | 90 | 1.0 | 100 | 1.0 | 100 |
| Aroclor 1260 | 1.5 | 1.4 | 93 | 1.5 | 100 | 1.6 | 107 | 1.6 | 107 |

Approved By: _____ Date: 5/15/97

CCV 1-4/042795

# APPENDIX B

# CHAIN OF CUSTODY INFORMATION

# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

00035

Columbia Analytical Services INC. 1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222 • FAX (360) 636-1068

DATE 5/13/97 PAGE 1 OF 4

PROJECT NAME GMPT - Bay City # CRA

PROJECT MANAGER Jim Jorgensen

COMPANY/ADDRESS 100 Fitzgerald St. Bay City, MI 48708

PHONE 517-894-7200

SAMPLERS SIGNATURE Steven S. Hoversieyer / Conestoga-Rovers

| SAMPLE I.D. | DATE | TIME | LAB I.D. | SAMPLE MATRIX | NUMBER OF CONTAINERS | Pesticides (PCBs) 608/8080 | REMARKS |
|---|---|---|---|---|---|---|---|
| S-3938-970513-SSH | | -001 | 9703221-1 | soil | 1 | X | TAT - 24hrs |
| | | -002 | -2 | | 1 | X | |
| | | -003 | -3 | | 1 | X | |
| | | -004 | -4 | | 1 | X | |
| | | -005 | -5 | | 1 | X | |
| | | -006 | -6 | | 1 | X | |
| | | -007 | -7 | | 1 | X | |
| | | -008 | -8 | | 1 | X | |
| | | -009 | -9 | | 1 | X | |
| S-3938-970513-SSH | | -010 | -10 | | 1 | X | |

ANALYSIS REQUESTED

Base/Neu/Acid Organics GC/MS 625/8270 ☐ | Volatile Organics GC/MS 624/8240 ☐ | Halogenated or Aromatic Volatiles 601/8010 ☐ 602/8020 ☐ | Total Petroleum Hydrocarbons EPA/418.1 ☐ OR/418.1 ☐ WA/418.1 ☐ | TPH/Gas/BTEX 5030/8015/8020 Gas ☐ BTEX ☐ | TPH/8015 Modified Diesel ☐ Hydrocarbon Scan ☐ | TPH/HCID ☐ OR/HCID ☐ WA/HCID ☐ | TCLP Metals ☐ VOA ☐ Semi Pest/ VOA ☐ Herb ☐ | Metals (total or dissolved) List Below | Cyanide | pH, Cond, Cl, $SO_4$, $PO_4$, F, Br $NO_2$, $NO_3$, (circle) | $NH_3$-N, COD, Total-P, TKN, TOC (circle) | Total Organic Halides (TOX) 9020 ☐ (AOX) 1650A ☐

**RELINQUISHED BY:**
Signature: Steven S. Hoversieyer
Printed Name: Steven S. Hoversieyer
Firm: Conestoga-Rovers & Assoc.
Date/Time: 5/13/97 1500hrs

**RECEIVED BY:**
Signature: [illegible]
Printed Name: [illegible]
Firm: CAS
Date/Time: 5/14/97 1000

**TURNAROUND REQUIREMENTS**
- X 24 hr ___ 48 hr. ___ 5 day
- ___ Standard (10-15 working days)
- X Provide Verbal Preliminary Results
- X Provide FAX preliminary Results

Requested Report Date ___

**REPORT REQUIREMENTS**
- ___ I. Routine Report
- ___ II. Report (includes DUP.MS. MSD, as required, may be charged as samples)
- X III. Data Validation Report (includes All Raw Data)
- ___ IV. CLP Deliverable Report

**INVOICE INFORMATION:**
P.O.# ___
Bill To ___

**SAMPLE RECEIPT:**
Shipping VIA: ___
Shipping #: ___
Condition: ___
Lab No: K9703221

**RELINQUISHED BY:**
Signature ___
Printed Name ___
Firm ___
Date/Time ___

**RECEIVED BY:**
Signature ___
Printed Name ___
Firm ___
Date/Time ___

SPECIAL INSTRUCTIONS/COMMENTS:

Lead analysis is priority!

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

Columbia Analytical Services inc.

# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222 • FAX (360) 636-1068

DATE 5/13/97 PAGE 2 OF 4

00036

PROJECT NAME GMPT - Bay City # CRA

PROJECT MANAGER Jim Jorgensen

COMPANY/ADDRESS 100 Fitzgerald St
Bay City MI 48708

PHONE 517-894-7200

SAMPLERS SIGNATURE Steven S. Hoevemeyer / Conestoga-Rovers

| SAMPLE I.D. | DATE | TIME | LAB I.D. | SAMPLE MATRIX | NUMBER OF CONTAINERS | Base/Neu/Acid Organics GC/MS 625/8270 | Volatile Organics GC/MS 624/8240 | Halogenated or Aromatic Volatiles 601/8010 ☐ 602/8020 ☐ | Pesticides/PCBs 608/8080 | Total Petroleum Hydrocarbons EPA/418.1 ☐ OR/418.1 ☐ WA/418.1 ☐ | TPH/Gas/BTEX Gas ☐ BTEX ☐ 5030/8015/8020 | TPH/8015 Modified Diesel ☐ | TPH/HCID ☐ Hydrocarbon Scan ☐ OR/HCID ☐ WA/HCID ☐ | TCLP Metals ☐ VOA ☐ Semi VOA ☐ Pest/Herb ☐ | Metals (total or dissolved) List Below | Cyanide | pH, Cond, Cl, $SO_4$, $PO_4$, F, Br $NO_2$, $NO_3$, (circle) | $NH_3$-N, COD, Total-P, TKN, TOC (circle) | Total Organic Halides (TOX) 9020 ☐ (AOX) 1650A ☐ | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-3938-970513 | SSH | -011 | 9703221-11 | Soil | 1 | | | | X | | | | | | | | | | | | | | TAT - 24 hrs |
| " | " | -012 | -12 | " | 1 | | | | X | | | | | | | | | | | | | | |
| " | " | -013 | -13 | " | 1 | | | | X | | | | | | | | | | | | | | |
| S-3938-970513 | SSH | -014 | -14 | " | 1 | | | | X | | | | | | | | | | | | | | |
| S-3938-970513 | SSH | -015 | -15 | " | 1 | | | | | | | | | X Lead | X | | | | | | | | |
| " | " | -016 | -16 | " | 1 | | | | | | | | | X | X | | | | | | | | |
| " | " | -017 | -17 | " | 1 | | | | | | | | | X | X | | | | | | | | |
| " | " | -018 | -18 | " | 1 | | | | | | | | | X | X | | | | | | | | |
| " | " | -019 | -19 | " | 1 | | | | | | | | | X | X | | | | | | | | |
| S-3938-970513 | SSH | -020 | -20 | " | 1 | | | | | | | | | X | X | | | | | | | | |

**RELINQUISHED BY:**
Signature: Steven S. Hoevemeyer
Printed Name: Steven S. Hoevemeyer
Firm: Conestoga-Rovers & Assoc.
Date/Time: 5/13/97 1500 hrs

**RECEIVED BY:**
Signature: Claudia Lainer
Printed Name: Claudia Lainer
Firm: CRA
Date/Time: 5/14/97 1000

**TURNAROUND REQUIREMENTS**
X 24 hr ___ 48 hr. ___ 5 day
___ Standard (10-15 working days)
X Provide Verbal Preliminary Results
X Provide FAX preliminary Results
Requested Report Date ___

**REPORT REQUIREMENTS**
___ I. Routine Report
___ II. Report (includes DUP.MS. MSD, as required, may be charged as samples)
X III. Data Validation Report (includes All Raw Data)
___ IV. CLP Deliverable Report

**INVOICE INFORMATION:**
P.O.# ___
Bill To ___

**SAMPLE RECEIPT:**
Shipping VIA: ___
Shipping #: ___
Condition: ___
Lab No: K9703221

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

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

SPECIAL INSTRUCTIONS/COMMENTS:

Lead analysis is priority !

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

00037

Columbia Analytical Services, Inc. 1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222 • FAX (360) 636-1068

DATE 5/13/97 PAGE 3 OF 4

PROJECT NAME GMPT - Bay City # CRA

PROJECT MANAGER Jim Sorgensen

COMPANY/ADDRESS 100 Fitzgerald St. Bay City, MI 48708

PHONE 517-894-720.

SAMPLERS SIGNATURE Steven S. Hemminger / CRA

| SAMPLE I.D. | DATE | TIME | LAB I.D. | SAMPLE MATRIX | NUMBER OF CONTAINERS | TCLP Metals Lead | Metals (total or dissolved) Lead | REMARKS |
|---|---|---|---|---|---|---|---|---|
| S-3938-970513-SSH | -SSH | -021 | 97-3221-21 | Soil | 1 | X | X | TAT - 24 hrs |
| | | -022 | -22 | | 1 | X | X | |
| | | -023 | -23 | | 1 | X | X | |
| | | -024 | -24 | | 1 | X | X | |
| | | -025 | -25 | | 1 | X | X | |
| | | -026 | -26 | | 1 | X | X | |
| | | -027 | -27 | | 1 | X | X | |
| | | -028 | -28 | | 1 | X | X | |
| | | -029 | -29 | | 1 | X | X | |
| S-3938-970513-SSH | -SSH | -030 | -30 | | 1 | X | X | |

ANALYSIS REQUESTED

Base/Neu/Acid Organics GC/MS 625/8270 □ | Volatile Organics GC/MS 624/8240 □ | Halogenated or Aromatic Volatiles 601/8010 □ 602/8020 □ | Pesticides/PCBs 608/8080 □ | Total Petroleum Hydrocarbons EPA/418.1 □ OR/418.1 □ WA/418.1 □ | TPH/Gas/BTEX 5030/8015/8020 Gas □ BTEX □ | TPH/8015 Modified Diesel □ Hydrocarbon Scan □ | TPH/HCID □ OR/HCID □ WA/HCID □ | Semi Pest/ VOA □ VOA □ Herb □ | Cyanide | pH, Cond, Cl, $SO_4$, $PO_4$, F, Br $NO_2$, $NO_3$, (circle) | $NH_3$-N, COD, Total-P, TKN, TOC (circle) | Total Organic Halides (TOX) 9020 □ (AOX) 1650A □

**RELINQUISHED BY:**
Signature: Steven S. Hemminger
Printed Name: Steven S. Hemminger
Firm: Cornerstone - Rivers + Assoc.
Date/Time: 5/13/97 1500 hrs

**RECEIVED BY:**
Signature: [signature]
Printed Name: [signature]
Firm: CA
Date/Time: 5/14/97 1000

**TURNAROUND REQUIREMENTS**
- X 24 hr ____ 48 hr. ____ 5 day
- ____ Standard (10-15 working days)
- X Provide Verbal Preliminary Results
- X Provide FAX preliminary Results
- Requested Report Date ____

**REPORT REQUIREMENTS**
- ____ I. Routine Report
- ____ II. Report (includes DUP.MS. MSD, as required, may be charged as samples)
- X III. Data Validation Report (includes All Raw Data)
- ____ IV. CLP Deliverable Report

**INVOICE INFORMATION:**
P.O.# ____
Bill To ____

**SAMPLE RECEIPT:**
Shipping VIA: ____
Shipping #: ____
Condition: ____
Lab No: K9703221

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

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

SPECIAL INSTRUCTIONS/COMMENTS:

Lead analysis is priority!

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

Columbia Analytical Services, Inc. 1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222 • FAX (360) 636-1068

DATE 5/13/97 PAGE 4 OF 4

00038

PROJECT NAME GMPT - Bay City # CRA

PROJECT MANAGER Jim Jorgensen

COMPANY/ADDRESS 100 Fitzgerald St. Bay City, MI 48708

PHONE 517-894-7200

SAMPLERS SIGNATURE Steven S. Hoover

| SAMPLE I.D. | DATE | TIME | LAB I.D. | SAMPLE MATRIX | NUMBER OF CONTAINERS | ANALYSIS REQUESTED: Base/Neu/Acid Organics GC/MS 625/8270 | Volatile Organics GC/MS 624/8240 | Halogenated or Aromatic Volatiles 601/8010 ☐ 602/8020 ☐ | Pesticides/PCBs 608/8080 | Total Petroleum Hydrocarbons EPA/418.1 ☐ OR/418.1 ☐ WA/418.1 ☐ | TPH/Gas/BTEX 5030/8015/8020 Gas ☐ BTEX ☐ | TPH/8015 Modified Diesel ☐ Hydrocarbon Scan ☐ | TPH/HCID ☐ OR/HCID ☐ WA/HCID ☐ | TCLP Lead Metals ☐ VOA ☐ | Semi Pest/ VOA ☐ Herb ☐ Metals (circle List Below (total or dissolved) | Cyanide | pH, Cond, Cl, $SO_4$, $PO_4$, F, Br $NO_2$, $NO_3$, (circle) | $NH_3$-N, COD, Total-P, TKN, TOC (circle) | Total Organic Halides (TOX) 9020 ☐ (AOX) 1650A ☐ | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-3938-970513-SSH | | 031 | K9703221 | Soil | 1 | | | | | | | | | X | X | | | | | | TAT - 24 hrs |
| | | 032 | 32 | | 1 | | | | | | | | | X | X | | | | | | |
| | | 033 | 33 | | 1 | | | | | | | | | X | X | | | | | | |
| S-3938-970513-SSH | | 034 | 34 | | 1 | | | | | | | | | X | X | | | | | | |

**RELINQUISHED BY:**

Signature: Steven S. Hoover

Printed Name: Steven S. Hoover

Firm: Conestoga-Rovers & Assoc.

Date/Time: 5/13/97 1500 hrs

**RECEIVED BY:**

Signature: C. Caulainer

Printed Name: C. Caulainer

Firm: CA

Date/Time: 5/14/97 1000

**TURNAROUND REQUIREMENTS**

- X 24 hr ___ 48 hr. ___ 5 day
- ___ Standard (10-15 working days)
- X Provide Verbal Preliminary Results
- X Provide FAX preliminary Results

Requested Report Date ___

**REPORT REQUIREMENTS**

- ___ I. Routine Report
- ___ II. Report (includes DUP.MS. MSD, as required, may be charged as samples)
- X III. Data Validation Report (includes All Raw Data)
- ___ IV. CLP Deliverable Report

**INVOICE INFORMATION:**

P.O.# ___

Bill To ___

**SAMPLE RECEIPT:**

Shipping VIA: ___

Shipping #: ___

Condition: ___

Lab No: K9703221

**RELINQUISHED BY:**

Signature ___

Printed Name ___

Firm ___

Date/Time ___

**RECEIVED BY:**

Signature ___

Printed Name ___

Firm ___

Date/Time ___

SPECIAL INSTRUCTIONS/COMMENTS:

Lead analysis is priority!

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

Columbia Analytical Services, Inc.

June 17, 1997

Service Request No: K9703488

REC'D CRA
JUN 18 1997
SD6-2

Pieter Booth
PTI Environmental Services, Inc.
15375 SE 30th Place, Suite 250
Bellevue, WA 98007

**Re: GMPT-Bay City**

Dear Pieter:

Enclosed are the results of the sample(s) submitted to our laboratory on May 23, 1997. Preliminary results were transmitted via facsimile on May 27 and 29, 1997. For your reference, these analyses have been assigned our service request number K9703488.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions. My extension is 246.

Respectfully submitted,

**Columbia Analytical Services, Inc.**

Abbie Spielman

Abbie Spielman
Client Services Manager

AS/td

cc: Paul Wiseman (Conestoga-Rovers/Romulus, MI)

ORIGINAL ANALYTICAL REPORT
Project#: 3938 Lab #: K9703488
Name: GMPT - Bay City
Description
Event:
Samples: 9-Soil
Analysis: PCB, Pb, SPLP Pb
TAT: Page 1 of 3 4 9
Lab: CAS
Checked Against Chain of Custody by Lab:
Date: 6/16/97 Init.: MBC
Date of Verbal Confirmo: 6/2/97
Initials: Date:
Comments:

## Acronyms

| | |
|---|---|
| ASTM | American Society for Testing and Materials |
| A2LA | American Association for Laboratory Accreditation |
| CARB | California Air Resources Board |
| CAS Number | Chemical Abstract Service registry Number |
| CFC | Chlorofluorocarbon |
| CFU | Colony-Forming Unit |
| DEC | Department of Environmental Conservation |
| DEQ | Department of Environmental Quality |
| DHS | Department of Health Services |
| DOE | Department of Ecology |
| DOH | Department of Health |
| EPA | U. S. Environmental Protection Agency |
| ELAP | Environmental Laboratory Accreditation Program |
| GC | Gas Chromatography |
| GC/MS | Gas Chromatography/Mass Spectrometry |
| J | Estimated concentration. The value is less than the method reporting limit, but greater than the method detection limit. |
| LUFT | Leaking Underground Fuel Tank |
| M | Modified |
| MCL | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL | Method Detection Limit |
| MPN | Most Probable Number |
| MRL | Method Reporting Limit |
| NA | Not Applicable |
| NAN | Not Analyzed |
| NC | Not Calculated |
| NCASI | National Council of the Paper Industry for Air and Stream Improvement |
| ND | Not Detected at or above the MRL |
| NIOSH | National Institute for Occupational Safety and Health |
| PQL | Practical Quantitation Limit |
| RCRA | Resource Conservation and Recovery Act |
| SIM | Selected Ion Monitoring |
| TPH | Total Petroleum Hydrocarbons |
| tr | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL. |

**COLUMBIA ANALYTICAL SERVICES, INC.**

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request No.:** | K9703488 |
| **Project:** | GMTP-Bay City | **Date Received:** | 5/23/97 |
| **Sample Matrix:** | Soil | | |

## CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for sample(s) designated for Tier III data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Duplicate (DUP), Matrix Spike (MS), Matrix/Duplicate Matrix Spike (MS/DMS), Laboratory Control Sample (LCS), Initial Continuing Calibration Verification Standards (ICV/CCV), and Initial Continuing Calibration Blanks (ICB/CCB).

All EPA recommended holding times have been met for analyses in this sample delivery group.

The following difficulties were experienced during analysis of this batch:

The Method Blank for SPLP EPA 1312 contained low levels of Lead above the project specific method reporting limit. In accordance with CAS QA/QC policy, all sample results which are less than twenty times the level found in the Method Blank are flagged as estimated.

The method reporting limits for some analytes was elevated in EPA 8080 analyses due to matrix interferences.

The Relative Percent Difference (RPD) for the replicate analysis of Lead in sample S-3938-970522-SSH-036 was outside the normal CAS control limits. The variability in the results is attributed to the heterogeneous character of the sample . Mixing techniques within the scope of the EPA methodology were used, but were not sufficient for complete homogenization of this sample.

The Matrix Spike (MS) recovery of Lead for sample S-3938-970522-SSH-036 was not calculated. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

**Approved by** _____ **Date** 6/16/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703488 |
| **Project:** | GMPT-Bay City | **Date Collected:** | 5/22/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 5/23/97 |

### Total Solids

Prep Method: NONE
Analysis Method: 160.3 Modified
Test Notes:

Units: PERCENT
Basis: NA

| Sample Name | Lab Code | Date Analyzed | Result | Result Notes |
|---|---|---|---|---|
| S-3938-970522-SSH-035 | K9703488-001 | 5/23/97 | 81.0 | |
| S-3938-970522-SSH-036 | K9703488-002 | 5/23/97 | 84.7 | |
| S-3938-970522-SSH-037 | K9703488-003 | 5/23/97 | 87.8 | |
| S-3938-970522-SSH-038 | K9703488-004 | 5/23/97 | 82.7 | |
| S-3938-970522-SSH-039 | K9703488-005 | 5/23/97 | 74.7 | |
| S-3938-970522-SSH-040 | K9703488-006 | 5/23/97 | 84.1 | |
| S-3938-970522-SSH-041 | K9703488-007 | 5/23/97 | 79.8 | |
| S-3938-970522-SSH-042 | K9703488-008 | 5/23/97 | 66.2 | |
| S-3938-970522-SSH-043 | K9703488-009 | 5/23/97 | 73.5 | |

Approved By: _____ Date: 5/27/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703488 |
| **Project:** | GMPT-Bay City | **Date Collected:** | 5/22/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 5/23/97 |
| | | **Date Extracted:** | 5/23/97 |
| | | **Date Analyzed:** | 5/27/97 |

Total Lead
EPA Method 7421
Units: mg/Kg (ppm)
Dry Weight Basis

| Sample Name | Lab Code | MRL | Result |
|---|---|---|---|
| S-3938-970522-SSH-035 | K9703488-001 | 1 | 13 |
| S-3938-970522-SSH-036 | K9703488-002 | 1 | 7980 |
| S-3938-970522-SSH-037 | K9703488-003 | 1 | 21 |
| S-3938-970522-SSH-038 | K9703488-004 | 1 | 85 |
| S-3938-970522-SSH-039 | K9703488-005 | 1 | 322 |
| S-3938-970522-SSH-040 | K9703488-006 | 1 | 341 |
| S-3938-970522-SSH-041 | K9703488-007 | 1 | 1670 |
| S-3938-970522-SSH-042 | K9703488-008 | 1 | 2540 |
| S-3938-970522-SSH-043 | K9703488-009 | 1 | 1600 |
| Method Blank | K9703488-MB | 1 | ND |

Approved By: JC Date: 5/27/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703488 |
| **Project:** | GMPT-Bay City | **Date Collected:** | 5/22/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 5/23/97 |
| | | **Date Extracted:** | 5/27-28/97 |
| | | **Date Analyzed:** | 5/28/97 |

Synthetic Precipitation Leaching Procedure (SPLP)
EPA Method 1312
Metals
Units: mg/L (ppm) in SPLP Extract

| Sample Name | Lab Code | MRL | Result |
|---|---|---|---|
| S-3938-970522-SSH-035 | K9703488-001 | 0.002 | 0.026(E) |
| S-3938-970522-SSH-036 | K9703488-002 | 0.002 | 0.502 |
| S-3938-970522-SSH-037 | K9703488-003 | 0.002 | 0.039(E) |
| S-3938-970522-SSH-038 | K9703488-004 | 0.002 | 0.100(E) |
| S-3938-970522-SSH-039 | K9703488-005 | 0.002 | 0.102(E) |
| S-3938-970522-SSH-040 | K9703488-006 | 0.002 | 0.004(E) |
| S-3938-970522-SSH-041 | K9703488-007 | 0.002 | 0.546 |
| S-3938-970522-SSH-042 | K9703488-008 | 0.002 | 0.294 |
| S-3938-970522-SSH-043 | K9703488-009 | 0.002 | 0.632 |
| Method Blank | K9703488-MB | 0.002 | 0.006 |

E Estimated concentration; see case narrative.

Approved By: _____ Date: 5/29/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703488 |
| **Project:** | GMPT-Bay City | **Date Collected:** | 5/22/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 5/23/97 |
| | | **Date Extracted:** | 5/23/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3550/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| Sample Name: | S-3938-970522-SSH-035 | S-3938-970522-SSH-036 | S-3938-970522-SSH-037 |
|---|---|---|---|
| Lab Code: | K9703488-001 | K9703488-002 | K9703488-003 |
| Date Analyzed: | 5/23/97 | 5/23/97 | 5/23/97 |

| Analyte | MRL | | | |
|---|---|---|---|---|
| Aroclor 1016 | 0.1 | ND | ND | ND |
| Aroclor 1221 | 0.1 | ND | ND | ND |
| Aroclor 1232 | 0.1 | ND | ND | ND |
| Aroclor 1242 | 0.1 | ND | ND | ND |
| Aroclor 1248 | 0.1 | ND | <0.3 B | ND |
| Aroclor 1254 | 0.1 | ND | 0.5 | ND |
| Aroclor 1260 | 0.1 | ND | 0.2 | 0.1 |

B The MRL is elevated because of matrix interferences.

Approved By: _____ Date: 5-27-97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703488 |
| **Project:** | GMPT-Bay City | **Date Collected:** | 5/22/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 5/23/97 |
| | | **Date Extracted:** | 5/23/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3550/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970522-SSH-038 | S-3938-970522-SSH-039 | S-3938-970522-SSH-040 |
|---|---|---|---|---|
| Sample Name: | | S-3938-970522-SSH-038 | S-3938-970522-SSH-039 | S-3938-970522-SSH-040 |
| Lab Code: | | K9703488-004 | K9703488-005 | K9703488-006 |
| Date Analyzed: | | 5/23/97 | 5/24/97 | 5/24/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 0.1 | ND | ND | ND |
| Aroclor 1221 | 0.1 | ND | ND | ND |
| Aroclor 1232 | 0.1 | ND | ND | ND |
| Aroclor 1242 | 0.1 | ND | ND | ND |
| Aroclor 1248 | 0.1 | ND | ND | ND |
| Aroclor 1254 | 0.1 | ND | 0.2 | ND |
| Aroclor 1260 | 0.1 | 0.2 | ND | ND |

Approved By: _____ Date: 5-27-97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703488 |
| **Project:** | GMPT-Bay City | **Date Collected:** | 5/22/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 5/23/97 |
| | | **Date Extracted:** | 5/23/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3550/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970522-SSH-041 | S-3938-970522-SSH-042 | S-3938-970522-SSH-043 |
|---|---|---|---|---|
| Sample Name: | | S-3938-970522-SSH-041 | S-3938-970522-SSH-042 | S-3938-970522-SSH-043 |
| Lab Code: | | K9703488-007 | K9703488-008 | K9703488-009 |
| Date Analyzed: | | 5/24/97 | 5/24/97 | 5/24/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 0.1 | ND | ND | ND |
| Aroclor 1221 | 0.1 | ND | ND | ND |
| Aroclor 1232 | 0.1 | ND | ND | ND |
| Aroclor 1242 | 0.1 | ND | ND | ND |
| Aroclor 1248 | 0.1 | <2 B | <2 B | <0.6 B |
| Aroclor 1254 | 0.1 | 9.6 | 7.8 | 1.9 |
| Aroclor 1260 | 0.1 | 1.7 | 1.7 | 0.3 |

B The MRL is elevated because of matrix interferences.

Approved By: _____ Date: 5-27-97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City
**Sample Matrix:** Soil

**Service Request:** K9703488
**Date Collected:** NA
**Date Received:** NA
**Date Extracted:** 5/23/97

Polychlorinated Biphenyls (PCBs)
EPA Methods 3550/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | |
|---|---|
| Sample Name: | **Method Blank** |
| Lab Code: | K970523-SB |
| Date Analyzed: | 5/23/97 |

| **Analyte** | **MRL** | |
|---|---|---|
| Aroclor 1016 | 0.1 | ND |
| Aroclor 1221 | 0.1 | ND |
| Aroclor 1232 | 0.1 | ND |
| Aroclor 1242 | 0.1 | ND |
| Aroclor 1248 | 0.1 | ND |
| Aroclor 1254 | 0.1 | ND |
| Aroclor 1260 | 0.1 | ND |

Approved By: _____ Date: 5-27-97

# APPENDIX A
# LABORATORY QA/QC RESULTS

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City
**Sample Matrix:** Soil

**Service Request:** K9703488
**Date Collected:** 5/22/97
**Date Received:** 5/23/97

Duplicate Summary
Total Solids

Prep Method: NONE
Analysis Method: 160.3 Modified
Test Notes:

Units: PERCENT
Basis: WET

| Sample Name | Lab Code | Date Analyzed | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---|---|---|---|---|---|---|---|
| S-3938-970522-SSH-043 | K9703488-009 | 5/23/97 | 73.5 | 74.4 | 74.0 | 1 | |

Approved By: _____ Date: 6/17/97

Total Solids/060595
03488ICP.AM1 - TS DUP 6/17/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703488 |
| **Project:** | GMPT-Bay City | **Date Collected:** | 5/22/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 5/23/97 |
| | | **Date Extracted:** | 5/23/97 |
| | | **Date Analyzed:** | 5/27/97 |

Duplicate Summary
Total Metals
Units: mg/Kg (ppm)
Dry Weight Basis

Sample Name: S-3938-970522-SSH-036
Lab Code: K9703488-002

| Analyte | EPA Method | MRL | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference |
|---|---|---|---|---|---|---|
| Lead | 7421 | 1 | 7980 | 2500 | 5240 | 104 |

Approved By: JC Date: 5/27/97

DUP1SEPA/102194
03488ICP.JC1 - DUP 5/24/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City
**Sample Matrix:** Soil

**Service Request:** K9703488
**Date Collected:** 5/22/97
**Date Received:** 5/23/97
**Date Extracted:** 5/23/97
**Date Analyzed:** 5/27/97

Matrix Spike Summary
Total Metals
Units: mg/Kg (ppm)
Dry Weight Basis

Sample Name: S-3938-970522-SSH-036
Lab Code: K9703488-002

| Analyte | MRL | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery | CAS Percent Recovery Acceptance Limits |
|---|---|---|---|---|---|---|
| Lead | 1 | 5 | 7980 | 3570 | NA | 60-130 |

NA Not Applicable; see case narrative.

Approved By: _____ Date: 5/27/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703488 |
| **Project:** | GMPT-Bay City | **Date Collected:** | NA |
| **LCS Matrix:** | Soil | **Date Received:** | NA |
| | | **Date Analyzed:** | 5/27/97 |

Laboratory Control Sample Summary
Total Metals
Units: mg/Kg (ppm)

Source: ERA Priority Pollutant/CLP Inorganic Soils

| Analyte | EPA Method | Result | Control Limits |
|---|---|---|---|
| Lead | 7421 | 112 | 82.7 - 160 |

Approved By: _____ Date: 5/29/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703488 |
| **Project:** | GMPT-Bay City | **Date Collected:** | 5/22/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 5/23/97 |
| | | **Date SPLP Performed:** | 5/27/97 |
| | | **Date Extracted:** | 5/28/97 |
| | | **Date Analyzed:** | 5/28/97 |

Matrix Spike Summary
Synthetic Precipitation Leaching Procedure (SPLP)
EPA Method 1312
**Metals**
Units: mg/L (ppm) in SPLP Extract

Sample Name: S-3938-970522-SSH-035
Lab Code: K9703488-001

| Analyte | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery* |
|---|---|---|---|---|
| Lead | 0.08 | 0.026(E) | 0.109(E) | 104 |

* Percent recovery information is provided in order to assess the performance of the method on this matrix.
E Estimated concentration; see case narrative.

Approved By: _____ Date: 5/29/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703488 |
| **Project:** | GMPT-Bay City | **Date Collected:** | NA |
| **LCS Matrix:** | Water | **Date Received:** | NA |
| | | **Date Analyzed:** | 5/28/97 |

Laboratory Control Sample Summary
SPLP Metals
Units: mg/L (ppm)

SPLP Metals Inorganic Ventures

| Analyte | EPA Method | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits |
|---|---|---|---|---|---|
| Lead | 7421 | 0.025 | 0.025 | 100 | 80-120 |

Approved By: _____ Date: 6/17/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703488 |
| **Project:** | GMPT-Bay City | **Date Analyzed:** | 5/27/97 |

Initial Calibration Verification (ICV) Summary #1
Metals
Units: µg/L (ppb)

ICV Source: Inorganic Ventures ICV

| Analyte | EPA Method | True Value | Result | Percent Recovery |
|---|---|---|---|---|
| Lead | 7421 | 25.0 | 25.8 | 103 |

Approved By: _____ Date: 5/29/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9703488
**Date Analyzed:** 5/28/97

Initial Calibration Verification (ICV) Summary #2
Metals
Units: µg/L (ppb)

ICV Source: Inorganic Ventures ICV

| Analyte | EPA Method | True Value | Result | Percent Recovery |
|---|---|---|---|---|
| Lead | 7421 | 25.0 | 26.7 | 107 |

Approved By: _____ Date: 5/29/97

ICVEPA/102194
03488ICP.JC2 - ICV (2) 5/29/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9703488
**Date Analyzed:** 5/27,28/97

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV1 Result | Percent Recovery | CCV2 Result | Percent Recovery | CCV3 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|
| Lead | 7421 | 40.0 | 40.3 | 101 | 37.7 | 94 | 38.0 | 95 |

Approved By: _____ Date: 5/29/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9703488
**Date Analyzed:** 5/27,28/97

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV4 Result | Percent Recovery | CCV5 Result | Percent Recovery | CCV6 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|
| Lead | 7421 | 40.0 | 37.3 | 93 | 39.9 | 100 | 40.3 | 101 |

Approved By: _____ Date: 5/29/97

CCV 4-6/042795
03488ICP.JC2 - CCV 4-6 5/29/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services. Inc.
**Project:** GMPT-Bay City

**Service Request:** K9703488
**Date Analyzed:** 5/27.28/97

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV7 Result | Percent Recovery | CCV8 Result | Percent Recovery |
|---|---|---|---|---|---|---|
| Lead | 7421 | 40.0 | 40.0 | 100 | 41.0 | 103 |

Approved By: _____ Date: 5/29/97

CCV 7-9/042795
03488ICP.JC2 - CCV 7-9 5/29/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9703488
**Date Analyzed:** 5/27.28/97

Continuing Calibration Blank (CCB) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | MRL | CCB1 Result | CCB2 Result | CCB3 Result | CCB4 Result |
|---|---|---|---|---|---|---|
| Lead | 7421 | 2 | ND | ND | ND | ND |

Approved By: _____ Date: 5/29/97

CCB4SMRL/102194

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9703488
**Date Analyzed:** 5/27,28/97

Continuing Calibration Blank (CCB) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | MRL | CCB5 Result | CCB6 Result | CCB7 Result | CCB8 Result |
|---|---|---|---|---|---|---|
| Lead | 7421 | 2 | ND | ND | ND | ND |

Approved By: _____ Date: 5/29/97

CCB4SMRL/102194

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City
**Sample Matrix:** Soil

**Service Request:** K9703488
**Date Collected:** 5/22/97
**Date Received:** 5/23/97
**Date Extracted:** 5/23/97
**Date Analyzed:** 5/23/97

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)
EPA Methods 3550/8080A

| Sample Name | Lab Code | Percent Recovery Decachlorobiphenyl |
|---|---|---|
| S-3938-970522-SSH-035 | K9703488-001 | 92 |
| S-3938-970522-SSH-036 | K9703488-002 | 116 |
| S-3938-970522-SSH-037 | K9703488-003 | 99 |
| S-3938-970522-SSH-038 | K9703488-004 | 94 |
| S-3938-970522-SSH-039 | K9703488-005 | 97 |
| S-3938-970522-SSH-040 | K9703488-006 | 109 |
| S-3938-970522-SSH-041 | K9703488-007 | 118 |
| S-3938-970522-SSH-042 | K9703488-008 | 108 |
| S-3938-970522-SSH-043 | K9703488-009 | 93 |
| S-3938-970522-SSH-036 | K9703488-002MS | 101 |
| S-3938-970522-SSH-036 | K9703488-002DMS | 99 |
| Lab Control Sample | K970523-SL | 99 |
| Method Blank | K970523-SB | 99 |

CAS Acceptance Limits: 54-144

Approved By: _____ Date: 5-27-97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703488 |
| **Project:** | GMPT-Bay City | **Date Collected:** | 5/22/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 5/23/97 |
| | | **Date Extracted:** | 5/23/97 |
| | | **Date Analyzed:** | 5/23/97 |

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)
EPA Methods 3550/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

Sample Name: S-3938-970522-SSH-036
Lab Code: K9703488-002MS, K9703488-002DMS

| | Spike Level | | Sample | Spike Result | | Percent Recovery | | CAS Acceptance | Relative Percent |
|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | MS | DMS | **Result** | MS | DMS | MS | DMS | Limits | **Difference** |
| Aroclor 1260 | 0.78 | 0.78 | 0.15 | 0.99 | 0.87 | 108 | 92 | 46-148 | 13 |

Approved By: _____ Date: 5-27-97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703488 |
| **Project:** | GMPT-Bay City | **Date Collected:** | NA |
| **LCS Matrix:** | Soil | **Date Received:** | NA |
| | | **Date Extracted:** | 5/23/97 |
| | | **Date Analyzed:** | 5/23/97 |

Laboratory Control Sample Summary
Polychlorinated Biphenyls (PCBs)
EPA Methods 3550/8080A
Units: mg/Kg (ppm)

| Analyte | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits |
|---|---|---|---|---|
| Aroclor 1260 | 0.66 | 0.61 | 92 | 60-141 |

Approved By: _____ Date: 5-27-97

LCS/121594

03488SVG.DD1 - LCS 5/27/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9703488
**Calibration Date:** 3/26/97
**Date Analyzed:** 5/23-24/97

Continuing Calibration Verification (CCV) Summary
Polychlorinated Biphenyls (PCBs)
EPA Method 8080A
Units: µg/mL (ppm)

| Analyte | True Value | CCV1 Result | Percent Recovery | CCV2 Result | Percent Recovery | CCV3 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 1.5 | 1.6 | 107 | 1.6 | 107 | 1.5 | 100 |
| Aroclor 1221 | 1.0 | 1.0 | 100 | 1.0 | 100 | 1.0 | 100 |
| Aroclor 1242 | 1.0 | 1.1 | 110 | 1.0 | 100 | 1.0 | 100 |
| Aroclor 1248 | 1.0 | - | - | 1.1 | 110 | 1.0 | 100 |
| Aroclor 1254 | 1.0 | 0.9 | 90 | 1.0 | 100 | 0.9 | 90 |
| Aroclor 1260 | 1.5 | 1.6 | 107 | 1.5 | 100 | 1.5 | 100 |

Approved By: _____ Date: 5-27-97

CCV 1-4/042795

**APPENDIX B**
**CHAIN OF CUSTODY**

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

# CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Columbia Analytical Services Inc.

REFERENCE NUMBER: 3938-58

PROJECT NAME: GMPT - Bay City

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

| SEQ: No. | DATE | TIME | | SAMPLE TYPE | No. OF CONTAINERS | PCBs | Total Lead | CPLP Lead | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5/22/97 | | S-3938-970522-SSH-035 | soil | 2 | X | X | X | TAT - 24hrs |
| 2 | | | -036 | | 2 | X | X | X | |
| 3 | | | -037 | | 2 | X | X | X | |
| 4 | | | -038 | | 2 | X | X | X | |
| 5 | | | -039 | | 2 | X | X | X | |
| 6 | | | -040 | | 2 | X | X | X | |
| 7 | | | -041 | | 2 | X | X | X | |
| 8 | | | -042 | | 2 | X | X | X | |
| 9 | | | S-3938-970522-SSH-043 | | 2 | X | X | X | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

SSH

TOTAL NUMBER OF CONTAINERS: 18

| | | | |
|---|---|---|---|
| RELINQUISHED BY: 1. Steven S. Hoversmyer | DATE: 5/22/97 TIME: 1500 | RECEIVED BY: 1. [illegible] CAS-IC | DATE: 052397 TIME: 1000 |
| RELINQUISHED BY: 2. | DATE: TIME: | RECEIVED BY: 2. | DATE: TIME: |
| RELINQUISHED BY: 3. | DATE: TIME: | RECEIVED BY: 1. | DATE: TIME: |

METHOD OF SHIPMENT: FedEx AIR BILL No. 9735112962

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

SAMPLE TEAM: SSH

RECEIVED FOR LABORATORY BY:

DATE: _____ TIME: _____

№ 3792

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

REC'D CRA
JUN 25 1997
SDG 3

Columbia Analytical Services inc.

June 24, 1997

Service Request No: K9703903

Pieter Booth
PTI Environmental Services, Inc.
15375 SE 30th Place, Suite 250
Bellevue, WA 98007

**Re: GMPT-Bay City**

Dear Pieter:

Enclosed are the results of the rush sample(s) submitted to our laboratory on June 10, 1997. Preliminary results were transmitted via facsimile on June 11 and 12, 1997. For your reference, these analyses have been assigned our service request number K9703903.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions. My extension is 246.

Respectfully submitted,

**Columbia Analytical Services, Inc.**

Abbie Spielman
Client Services Manager

AS/td

cc: Paul Wiseman (Conestoga-Rovers/Romulus, MI)

**ORIGINAL ANALYTICAL REPORT**

Project#: 3938 **Lab #:** K9703903

Name: GMPT - Bay City

**Description**

**Event:** Soil verification

**Samples:** 20 - Soil

**Analysis:** Lead, SPLP-Pb

**TAT:** 24 hrs

**Lab:** CAS



**Checked Against Preliminary Data:**

Date: 7/17/97 **Init.:** MBC

Date of Validation Memo: 7/31/97

Invoice Approval Date: _____

**Comments:** _____

1317 South 13th Avenue • P.O. Box 479 • Kelso, Washington 98626 • Telephone 360/577-7222 • Fax 360/636-1068

## Acronyms

| | |
|---|---|
| ASTM | American Society for Testing and Materials |
| A2LA | American Association for Laboratory Accreditation |
| CARB | California Air Resources Board |
| CAS Number | Chemical Abstract Service registry Number |
| CFC | Chlorofluorocarbon |
| CFU | Colony-Forming Unit |
| DEC | Department of Environmental Conservation |
| DEQ | Department of Environmental Quality |
| DHS | Department of Health Services |
| DOE | Department of Ecology |
| DOH | Department of Health |
| EPA | U. S. Environmental Protection Agency |
| ELAP | Environmental Laboratory Accreditation Program |
| GC | Gas Chromatography |
| GC/MS | Gas Chromatography/Mass Spectrometry |
| J | Estimated concentration. The value is less than the method reporting limit, but greater than the method detection limit. |
| LUFT | Leaking Underground Fuel Tank |
| M | Modified |
| MCL | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL | Method Detection Limit |
| MPN | Most Probable Number |
| MRL | Method Reporting Limit |
| NA | Not Applicable |
| NAN | Not Analyzed |
| NC | Not Calculated |
| NCASI | National Council of the Paper Industry for Air and Stream Improvement |
| ND | Not Detected at or above the MRL |
| NIOSH | National Institute for Occupational Safety and Health |
| PQL | Practical Quantitation Limit |
| RCRA | Resource Conservation and Recovery Act |
| SIM | Selected Ion Monitoring |
| TPH | Total Petroleum Hydrocarbons |
| tr | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL. |

**COLUMBIA ANALYTICAL SERVICES, INC.**

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request No.:** | K9703903 |
| **Project:** | GMPT-Bay City | **Date Received:** | 6/10/97 |
| **Sample Matrix:** | Soil | | |

## CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for sample(s) designated for Tier III data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Additional quality control analyses reported herein include: Laboratory Duplicate (DUP), Matrix Spike (MS), Laboratory Control Sample (LCS), Initial Continuing Calibration Verification Standards (ICV/CCV), and Initial Continuing Calibration Blanks (ICB/CCB).

All EPA recommended holding times have been met for analyses in this sample delivery group.

The following difficulties were experienced during analysis of this batch:

The Matrix Spike (MS) recovery of Lead for sample S-3938-970609-SSH-046 was not calculated. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

The Matrix Spike (MS) recovery of SPLP Lead for sample S-3938-970609-SSH-044 was not calculated. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

**Approved by** _____ **Date** 6/24/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City
**Sample Matrix:** Soil

**Service Request:** K9703903
**Date Collected:** 6/9/97
**Date Received:** 6/10/97

### Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: NA

| Sample Name | Lab Code | Date Analyzed | Result | Result Notes |
|---|---|---|---|---|
| S-3938-970609-SSH-044 | K9703903-001 | 6/10/97 | 66.8 | |
| S-3938-970609-SSH-045 | K9703903-002 | 6/10/97 | 84.1 | |
| S-3938-970609-SSH-046 | K9703903-003 | 6/10/97 | 87.5 | |
| S-3938-970609-SSH-047 | K9703903-004 | 6/10/97 | 81.0 | |
| S-3938-970609-SSH-048 | K9703903-005 | 6/10/97 | 55.2 | |
| S-3938-970609-SSH-049 | K9703903-006 | 6/10/97 | 88.1 | |
| S-3938-970609-SSH-050 | K9703903-007 | 6/10/97 | 84.7 | |
| S-3938-970609-SSH-051 | K9703903-008 | 6/10/97 | 87.1 | |
| S-3938-970609-SSH-052 | K9703903-009 | 6/10/97 | 80.3 | |
| S-3938-970609-SSH-053 | K9703903-010 | 6/10/97 | 88.1 | |
| S-3938-970609-SSH-054 | K9703903-011 | 6/10/97 | 89.4 | |
| S-3938-970609-SSH-055 | K9703903-012 | 6/10/97 | 91.9 | |
| S-3938-970609-SSH-056 | K9703903-013 | 6/10/97 | 87.4 | |
| S-3938-970609-SSH-057 | K9703903-014 | 6/10/97 | 88.4 | |
| S-3938-970609-SSH-058 | K9703903-015 | 6/10/97 | 85.8 | |
| S-3938-970609-SSH-059 | K9703903-016 | 6/10/97 | 91.0 | |
| S-3938-970609-SSH-060 | K9703903-017 | 6/10/97 | 89.6 | |
| S-3938-970609-SSH-061 | K9703903-018 | 6/10/97 | 89.1 | |
| S-3938-970609-SSH-062 | K9703903-019 | 6/10/97 | 88.2 | |
| S-3938-970609-SSH-063 | K9703903-020 | 6/10/97 | 86.1 | |

Approved By: _____ Date: 6/25/97

TSSample/021397a

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City
**Sample Matrix:** Soil

**Service Request:** K9703903
**Date Collected:** 6/9/97
**Date Received:** 6/10/97
**Date Extracted:** 6/10/97
**Date Analyzed:** 6/10/97

Total Lead
EPA Method 7421
Units: mg/Kg (ppm)
Dry Weight Basis

| Sample Name | Lab Code | MRL | Result |
|---|---|---|---|
| S-3938-970609-SSH-044 | K9703903-001 | 1 | 2160 |
| S-3938-970609-SSH-045 | K9703903-002 | 1 | 14 |
| S-3938-970609-SSH-046 | K9703903-003 | 1 | 151 |
| S-3938-970609-SSH-047 | K9703903-004 | 1 | 22 |
| S-3938-970609-SSH-048 | K9703903-005 | 1 | 725 |
| S-3938-970609-SSH-049 | K9703903-006 | 1 | 1760 |
| S-3938-970609-SSH-050 | K9703903-007 | 1 | 57 |
| S-3938-970609-SSH-051 | K9703903-008 | 1 | 35 |
| S-3938-970609-SSH-052 | K9703903-009 | 1 | 274 |
| S-3938-970609-SSH-053 | K9703903-010 | 1 | 295 |
| S-3938-970609-SSH-054 | K9703903-011 | 1 | 49 |
| S-3938-970609-SSH-055 | K9703903-012 | 1 | 4 |
| S-3938-970609-SSH-056 | K9703903-013 | 1 | 29 |
| S-3938-970609-SSH-057 | K9703903-014 | 1 | 35 |
| S-3938-970609-SSH-058 | K9703903-015 | 1 | 80 |
| S-3938-970609-SSH-059 | K9703903-016 | 1 | 218 |
| S-3938-970609-SSH-060 | K9703903-017 | 1 | 9 |
| S-3938-970609-SSH-061 | K9703903-018 | 1 | 78 |
| S-3938-970609-SSH-062 | K9703903-019 | 1 | 81 |
| S-3938-970609-SSH-063 | K9703903-020 | 1 | 49 |
| Method Blank | K9703903-MB | 1 | ND |

Approved By: _____ Date: 6/20/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City
**Sample Matrix:** Soil

**Service Request:** K9703903
**Date Collected:** 6/9/97
**Date Received:** 6/10/97
**Date Extracted:** 6/11/97
**Date Analyzed:** 6/11/97

Synthetic Precipitation Leaching Procedure (SPLP)
Lead, SPLP
EPA Method 1312/7421
SPLP Metals
Units: mg/L (ppm) in SPLP Extract

| Sample Name | Lab Code | MRL | Result |
|---|---|---|---|
| S-3938-970609-SSH-044 | K9703903-001 | 0.002 | 0.688 |
| S-3938-970609-SSH-045 | K9703903-002 | 0.002 | 0.013 |
| S-3938-970609-SSH-046 | K9703903-003 | 0.002 | 0.174 |
| S-3938-970609-SSH-047 | K9703903-004 | 0.002 | 0.004 |
| S-3938-970609-SSH-048 | K9703903-005 | 0.002 | 0.064 |
| S-3938-970609-SSH-049 | K9703903-006 | 0.002 | 0.442 |
| S-3938-970609-SSH-050 | K9703903-007 | 0.002 | 0.068 |
| S-3938-970609-SSH-051 | K9703903-008 | 0.002 | 0.038 |
| S-3938-970609-SSH-052 | K9703903-009 | 0.002 | 0.051 |
| S-3938-970609-SSH-053 | K9703903-010 | 0.002 | 0.056 |
| S-3938-970609-SSH-054 | K9703903-011 | 0.002 | 0.028 |
| S-3938-970609-SSH-055 | K9703903-012 | 0.002 | 0.003 |
| S-3938-970609-SSH-056 | K9703903-013 | 0.002 | 0.022 |
| S-3938-970609-SSH-057 | K9703903-014 | 0.002 | 0.025 |
| S-3938-970609-SSH-058 | K9703903-015 | 0.002 | 0.026 |
| S-3938-970609-SSH-059 | K9703903-016 | 0.002 | 0.078 |
| S-3938-970609-SSH-060 | K9703903-017 | 0.002 | 0.011 |
| S-3938-970609-SSH-061 | K9703903-018 | 0.002 | 0.023 |
| S-3938-970609-SSH-062 | K9703903-019 | 0.002 | 0.034 |
| S-3938-970609-SSH-063 | K9703903-020 | 0.002 | 0.029 |
| Method Blank | K9703903-MB | 0.002 | ND |

Approved By: _____ Date: 6/23/97

# APPENDIX A
# LABORATORY QA/QC RESULTS

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City
**Sample Matrix:** Soil

**Service Request:** K9703903
**Date Collected:** 6/9/97
**Date Received:** 6/10/97

Duplicate Summary

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: NA

| Sample Name | Lab Code | Date Analyzed | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---|---|---|---|---|---|---|---|
| S-3938-970609-SSH-044 | K9703903-001DUP | 6/10/97 | 66.8 | 73.6 | 70.2 | 10 | |

Approved By: _____ Date: 6/23/97

TSDup/021397a

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City
**Sample Matrix:** Soil

**Service Request:** K9703903
**Date Collected:** 6/9/97
**Date Received:** 6/10/97
**Date Extracted:** 6/10/97
**Date Analyzed:** 6/10/97

Duplicate Summary
Total Metals
Units: mg/Kg (ppm)
Dry Weight Basis

Sample Name: S-3938-970609-SSH-046
Lab Code: K9703903-003

| Analyte | EPA Method | MRL | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference |
|---|---|---|---|---|---|---|
| Lead | 7421 | 1 | 151 | 149 | 150 | 1 |

Approved By: _____ Date: 6/12/97

DUP1SEPA/102194
03903ICP.JC1 - DUP 6/12/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City
**Sample Matrix:** Soil

**Service Request:** K9703903
**Date Collected:** 6/9/97
**Date Received:** 6/10/97
**Date Extracted:** 6/10/97
**Date Analyzed:** 6/10/97

Matrix Spike Summary
Total Metals
Units: mg/Kg (ppm)
Dry Weight Basis

Sample Name: S-3938-970609-SSH-046
Lab Code: K9703903-003

| Analyte | MRL | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery | CAS Percent Recovery Acceptance Limits |
|---|---|---|---|---|---|---|
| Lead | 1 | 5 | 151 | 148 | NA | 60-130 |

NA Not Applicable: see case narrative.

Approved By: _____ Date: 6/12/97

MS1S/102194

03903ICP.JC1 - Spike 6/12/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703903 |
| **Project:** | GMPT-Bay City | **Date Collected:** | NA |
| **LCS Matrix:** | Soil | **Date Received:** | NA |
| | | **Date Analyzed:** | 6/10/97 |

Laboratory Control Sample Summary
Total Metals
Units: mg/Kg (ppm)

Source: ERA Priority Pollutant/CLP Inorganic Soils

| Analyte | EPA Method | Result | Control Limits |
|---|---|---|---|
| Lead | 7421 | 97.0 | 82.7-160 |

Approved By: _____ Date: 6/12/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City
**Sample Matrix:** Soil

**Service Request:** K9703903
**Date Collected:** 6/9/97
**Date Received:** 6/10/97
**Date SPLP Performed:** 6/10/97
**Date Extracted:** 6/11/97
**Date Analyzed:** 6/11/97

Matrix Spike Summary
Synthetic Precipitation Leaching Procedure (SPLP)
EPA Method 1312
**Metals**
Units: mg/L (ppm) in SPLP Extract

Sample Name: S-3938-970609-SSH-044
Lab Code: K9703903-001

| Analyte | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery* |
|---|---|---|---|---|
| Lead | 0.04 | 0.688 | 0.718 | NA |

* Percent recovery information is provided in order to assess the performance of the method on this matrix.
NA Not Applicable: see case narrative.

Approved By: _____ Date: 6/12/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9703903 |
| **Project:** | GMPT-Bay City | **Date Collected:** | NA |
| **LCS Matrix:** | Water | **Date Received:** | NA |
| | | **Date Analyzed:** | 6/11/97 |

Laboratory Control Sample Summary
SPLP Metals
Units: mg/L (ppm)

Source: Inorganic Ventures

| Analyte | EPA Method | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits |
|---|---|---|---|---|---|
| Lead | 7421 | 0.025 | 0.025 | 100 | 80-120 |

Approved By: _____ Date: 6/12/97

LCSEPA/102194
03903ICP.JC1 - LCSW 6/12/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9703903
**Date Analyzed:** 6/10/97

Initial Calibration Verification (ICV) Summary #1
Metals
Units: µg/L (ppb)

ICV Source: Inorganic Ventures ICV

| Analyte | EPA Method | True Value | Result | Percent Recovery |
|---|---|---|---|---|
| Lead | 7421 | 25.0 | 23.8 | 95 |

Approved By: _____ Date: 6/12/97

ICVEPA/102194
03903ICP.JC2 - ICV 6/12/97

**COLUMBIA ANALYTICAL SERVICES. INC.**

QA/QC Report

**Client:** PTI Environmental Services. Inc.
**Project:** GMPT-Bay City

**Service Request:** K9703903
**Date Analyzed:** 6/11/97

Initial Calibration Verification (ICV) Summary #1
Metals
Units: µg/L (ppb)

ICV Source: Inorganic Ventures ICV

| Analyte | EPA Method | True Value | Result | Percent Recovery |
|---|---|---|---|---|
| Lead | 7421 | 25.0 | 25.6 | 102 |

Approved By: _____ Date: 6/12/97

ICVEPA/102194
03903ICP.JC2 - ICV (2) 6/12/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9703903
**Date Analyzed:** 6/10,11/97

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV1 Result | Percent Recovery | CCV2 Result | Percent Recovery | CCV3 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|
| Lead | 7421 | 40.0 | 38.1 | 95 | 36.3 | 91 | 39.4 | 99 |

Approved By: _____ Date: 6/12/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9703903
**Date Analyzed:** 6/10,11/97

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV4 Result | Percent Recovery | CCV5 Result | Percent Recovery | CCV6 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|
| Lead | 7421 | 40.0 | 39.5 | 99 | 39.5 | 99 | 39.0 | 98 |

Approved By: _____ Date: 6/12/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9703903
**Date Analyzed:** 6/10,11/97

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV7 Result | Percent Recovery | CCV8 Result | Percent Recovery | CCV9 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|
| Lead | 7421 | 40.0 | 38.8 | 97 | 39.1 | 98 | 40.8 | 102 |

Approved By: _____ Date: 6/12/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9703903
**Date Analyzed:** 6/10,11/97

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV10 Result | Percent Recovery | CCV11 Result | Percent Recovery | CCV12 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|
| Lead | 7421 | 40.0 | 38.8 | 97 | 39.0 | 98 | 39.6 | 99 |

Approved By: _____ Date: 6/12/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9703903
**Date Analyzed:** 6/10,11/97

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV13 Result | Percent Recovery | CCV14 Result | Percent Recovery | CCV14 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|
| Lead | 7421 | 40.0 | 40.4 | 101 | 40.0 | 100 | 37.4 | 94 |

Approved By: _____ Date: 6/12/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9703903
**Date Analyzed:** 6/10,11/97

Continuing Calibration Blank (CCB) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | MRL | CCB1 Result | CCB2 Result | CCB3 Result | CCB4 Result |
|---|---|---|---|---|---|---|
| Lead | 7421 | 2 | ND | ND | ND | ND |

Approved By: _____ Date: 6/12/97

CCB4SMRL/102194

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9703903
**Date Analyzed:** 6/10,11/97

Continuing Calibration Blank (CCB) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | MRL | CCB5 Result | CCB6 Result | CCB7 Result | CCB8 Result |
|---|---|---|---|---|---|---|
| Lead | 7421 | 2 | ND | ND | ND | ND |

Approved By: _____ Date: 6/12/97

CCB4SMRL/102194

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9703903
**Date Analyzed:** 6/10,11/97

Continuing Calibration Blank (CCB) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | MRL | CCB9 Result | CCB10 Result | CCB11 Result | CCB12 Result |
|---|---|---|---|---|---|---|
| Lead | 7421 | 2 | ND | ND | ND | ND |

Approved By: _____ Date: 6/12/97

CCB4SMRL/102194

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9703903
**Date Analyzed:** 6/10,11/97

Continuing Calibration Blank (CCB) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | MRL | CCB13 Result | CCB14 Result | CCB15 Result |
|---|---|---|---|---|---|
| Lead | 7421 | 2 | ND | ND | ND |

Approved By: _____ Date: 6/12/97

CCB4SMRL/102194

**APPENDIX B**
**CHAIN OF CUSTODY**

1 of 2

# CRA

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

## CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Columbia Analytical Services

REFERENCE NUMBER: 3938-58

PROJECT NAME: GMPT - Bay City

00026

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

| SEQ: No. | DATE | TIME | | SAMPLE TYPE | No. OF CONTAINERS | PARAMETERS: Total Lead | PARAMETERS: SPLP Lead | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 1 | 6/9/97 | | S-3938-970609-SSH-044 | Soil | 1 | X | X | TAT - 24 hrs |
| 2 | | | -045 | | 1 | X | X | |
| 3 | | | -046 | | 1 | X | X | |
| 4 | | | -047 | | 1 | X | X | |
| 5 | | | -048 | | 1 | X | X | |
| 6 | | | -049 | | 1 | X | X | |
| 7 | | | S-3938-970609-SSH-050 | | 1 | X | X | |
| 8 | | | -051 | | 1 | X | X | |
| 9 | | | -052 | | 1 | X | X | |
| 10 | | | -053 | | 1 | X | X | |
| 11 | | | -054 | | 1 | X | X | |
| 12 | | | -055 | | 1 | X | X | |
| 13 | | | -056 | | 1 | X | X | |
| 14 | | | S-3938-970609-SSH-057 | | 1 | X | X | |
| | | | TOTAL NUMBER OF CONTAINERS | | 14 | | | |

| | | | |
|---|---|---|---|
| RELINQUISHED BY: 1. Steven S. Howeneyer | DATE: 6/9/97 TIME: 1500 | RECEIVED BY: 1. [illegible] EAS-K | DATE: 061097 TIME: 1600 |
| RELINQUISHED BY: 2. | DATE: TIME: | RECEIVED BY: 2. | DATE: TIME: |
| RELINQUISHED BY: 3. | DATE: TIME: | RECEIVED BY: 1. | DATE: TIME: |

METHOD OF SHIPMENT: FedEx AIR BILL No. 9735112973

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

No. 3793

SAMPLE TEAM: SSH

RECEIVED FOR LABORATORY BY:

DATE: _____ TIME: _____

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

(K5107) 2042

# CRA

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

## CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Columbia Analytical Services

REFERENCE NUMBER: 3938-58

PROJECT NAME: GMPT - Bay City

00027

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

| SEQ: No. | DATE | TIME | | SAMPLE TYPE | No. OF CONTAINERS | PARAMETERS: total Lead | SPLP Lead | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 15 | 6/9/97 | | S-3938-970609-SSH-058 | Soil | 1 | X | X | TAT - 24 hrs |
| 16 | " | " | -059 | " | 1 | X | X | |
| 17 | " | " | -060 | " | 1 | X | X | |
| 18 | " | " | -061 | " | 1 | X | X | |
| 19 | " | " | -062 | " | 1 | X | X | |
| 20 | " | " | S-3938-970609-SSH-063 | " | 1 | X | X | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

SSH

TOTAL NUMBER OF CONTAINERS: 6

| | | | |
|---|---|---|---|
| RELINQUISHED BY: 1. Steven S Hoevemeyer | DATE: 6/9/97 TIME: 1500 | RECEIVED BY: 1. [illegible] CAS-K | DATE: 061097 TIME: 1000 |
| RELINQUISHED BY: 2. | DATE: TIME: | RECEIVED BY: 2. | DATE: TIME: |
| RELINQUISHED BY: 3. | DATE: TIME: | RECEIVED BY: 1. | DATE: TIME: |

METHOD OF SHIPMENT: Fed Ex AIR BILL No. 9735112973

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

No 3794

SAMPLE TEAM: SSH

RECEIVED FOR LABORATORY BY:

DATE: _____ TIME: _____

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

# CRA

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

## CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Columbia Analytical Services

REFERENCE NUMBER: 3938-58

PROJECT NAME: GMPT - Bay City

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

| SEQ: No. | DATE | TIME | | SAMPLE TYPE | No. OF CONTAINERS | PARAMETERS: Total Lead | PARAMETERS: SPLP lead | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 1 | 6/9/97 | | S-3938-970609-SSH-044 | Soil | 1 | X | X | TAT - 24 hrs |
| 2 | | | -045 | | 1 | X | X | |
| 3 | | | -046 | | 1 | X | X | |
| 4 | | | -047 | | 1 | X | X | |
| 5 | | | -048 | | 1 | X | X | |
| 6 | | | -049 | | 1 | X | X | |
| 7 | | | S-3938-970609-SSH-050 | | 1 | X | X | |
| 8 | | | -051 | | 1 | X | X | |
| 9 | | | -052 | | 1 | X | X | |
| 10 | | | -053 | | 1 | X | X | |
| 11 | | | -054 | | 1 | X | X | |
| 12 | | | -055 | | 1 | X | X | |
| 13 | | | -056 | | 1 | X | X | |
| 14 | | | S-3938-970609-SSH-057 | | 1 | X | X | |
| TOTAL NUMBER OF CONTAINERS | | | | | 14 | | | |

| | | | |
|---|---|---|---|
| RELINQUISHED BY: 1. Steven S. Howemeyer | DATE: 6/9/97 TIME: 1500 | RECEIVED BY: 1. [illegible] EAS-K | DATE: 6/10/97 TIME: 1600 |
| RELINQUISHED BY: 2. | DATE: TIME: | RECEIVED BY: 2. | DATE: TIME: |
| RELINQUISHED BY: 3. | DATE: TIME: | RECEIVED BY: 1. | DATE: TIME: |

METHOD OF SHIPMENT: FedEx AIR BILL No. 973511297 3

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

3793

SAMPLE TEAM: SSH

RECEIVED FOR LABORATORY BY:

DATE: _____ TIME: _____

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

820028

(K3903) 2 of 2

# CRA

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

## CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Columbia Analytical Services

REFERENCE NUMBER: 3938-58

PROJECT NAME: GMPT - Bay City

00029

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

| SEQ: No. | DATE | TIME | | SAMPLE TYPE | No. OF CONTAINERS | PARAMETERS: Total Lead | PARAMETERS: SPLP Lead | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 15 | 6/9/97 | | S-3938-970609-SSH-058 | soil | 1 | X | X | TAT - 24 hrs |
| 16 | | | -059 | | 1 | X | X | |
| 17 | | | -060 | | 1 | X | X | |
| 18 | | | -061 | | 1 | X | X | |
| 19 | | | -062 | | 1 | X | X | |
| 20 | | | S-3938-970609-SSH-063 | | 1 | X | X | |
| | | | SSH | | | | | |
| TOTAL NUMBER OF CONTAINERS | | | | | 6 | | | |

| | | | |
|---|---|---|---|
| RELINQUISHED BY: 1. Steven S. Hoevenaar | DATE: 6/9/97 TIME: 1500 | RECEIVED BY: 1. K. H FAS-K | DATE: 061097 TIME: 1000 |
| RELINQUISHED BY: 2. | DATE: TIME: | RECEIVED BY: 2. | DATE: TIME: |
| RELINQUISHED BY: 3. | DATE: TIME: | RECEIVED BY: 1. | DATE: TIME: |

METHOD OF SHIPMENT: Fed Ex AIR BILL No. 9735112973

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

3794

SAMPLE TEAM: SSH

RECEIVED FOR LABORATORY BY:

DATE: _____ TIME: _____

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

REC'D CRA
JUL - 7 1997
SDG # 4

Columbia Analytical Services inc.

July 3, 1997

Service Request No: K9704430

Pieter Booth
PTI Environmental Services, Inc.
15375 SE 30th Place, Suite 250
Bellevue, WA 98007

**Re: GMPT-Bay City**

Dear Pieter:

Enclosed are the results of the rush sample(s) submitted to our laboratory on June 26, 1997. Preliminary results were transmitted via facsimile on June 30, 1997 and on July 2, 1997. For your reference, these analyses have been assigned our service request number K9704430.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions. My extension is 246.

Respectfully submitted,

**Columbia Analytical Services, Inc.**

Abbie Spielman
Client Services Manager

AS/td

cc: Paul Wiseman (Conestoga-Rovers & Associates/Romulus, MI)

**ORIGINAL ANALYTICAL REPORT**

Project#: 3938 Lab #: K9704430
Name: GMPT - Bay City
Description
Event: Soil verification
Samples: 20 - Soil
Analysis: Pb, SPLP-Pb

TAT: 2 WK

Lab: CAS

Checked Against Preliminary Data:
Date: 7/17/97 Init.: MRC
Date of Validation Memo: 7/31/97
Invoice Approval Date:
Comments:

4247 South 12th Avenue • P.O. Box 479 • Kelso, Washington 98626 • Telephone 360/577-7222 • Fax 360/636-1068

## Acronyms

| | |
|---|---|
| ASTM | American Society for Testing and Materials |
| A2LA | American Association for Laboratory Accreditation |
| CARB | California Air Resources Board |
| CAS Number | Chemical Abstract Service registry Number |
| CFC | Chlorofluorocarbon |
| CFU | Colony-Forming Unit |
| DEC | Department of Environmental Conservation |
| DEQ | Department of Environmental Quality |
| DHS | Department of Health Services |
| DOE | Department of Ecology |
| DOH | Department of Health |
| EPA | U. S. Environmental Protection Agency |
| ELAP | Environmental Laboratory Accreditation Program |
| GC | Gas Chromatography |
| GC/MS | Gas Chromatography/Mass Spectrometry |
| J | Estimated concentration. The value is less than the method reporting limit, but greater than the method detection limit. |
| LUFT | Leaking Underground Fuel Tank |
| M | Modified |
| MCL | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL | Method Detection Limit |
| MPN | Most Probable Number |
| MRL | Method Reporting Limit |
| NA | Not Applicable |
| NAN | Not Analyzed |
| NC | Not Calculated |
| NCASI | National Council of the Paper Industry for Air and Stream Improvement |
| ND | Not Detected at or above the MRL |
| NIOSH | National Institute for Occupational Safety and Health |
| PQL | Practical Quantitation Limit |
| RCRA | Resource Conservation and Recovery Act |
| SIM | Selected Ion Monitoring |
| TPH | Total Petroleum Hydrocarbons |
| tr | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL. |

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City
**Sample Matrix:** Soil

**Service Request:** K9704430
**Date Collected:** 6/25/97
**Date Received:** 6/26/97

### Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: NA

| Sample Name | Lab Code | Date Analyzed | Result | Result Notes |
|---|---|---|---|---|
| S-3938-970625-SSH-064 | K9704430-001 | 6/26/97 | 90.5 | |
| S-3938-970625-SSH-065 | K9704430-002 | 6/26/97 | 82.0 | |
| S-3938-970625-SSH-066 | K9704430-003 | 6/26/97 | 84.4 | |
| S-3938-970625-SSH-067 | K9704430-004 | 6/26/97 | 83.5 | |
| S-3938-970625-SSH-068 | K9704430-005 | 6/26/97 | 92.0 | |
| S-3938-970625-SSH-069 | K9704430-006 | 6/26/97 | 91.7 | |
| S-3938-970625-SSH-070 | K9704430-007 | 6/26/97 | 82.3 | |
| S-3938-970625-SSH-071 | K9704430-008 | 6/26/97 | 83.3 | |
| S-3938-970625-SSH-072 | K9704430-009 | 6/26/97 | 79.9 | |
| S-3938-970625-SSH-073 | K9704430-010 | 6/26/97 | 84.3 | |
| S-3938-970625-SSH-074 | K9704430-011 | 6/26/97 | 57.2 | |
| S-3938-970625-SSH-075 | K9704430-012 | 6/26/97 | 78.8 | |
| S-3938-970625-SSH-076 | K9704430-013 | 6/26/97 | 79.0 | |
| S-3938-970625-SSH-077 | K9704430-014 | 6/26/97 | 85.6 | |
| S-3938-970625-SSH-078 | K9704430-015 | 6/26/97 | 71.3 | |
| S-3938-970625-SSH-079 | K9704430-016 | 6/26/97 | 59.2 | |
| S-3938-970625-SSH-080 | K9704430-017 | 6/26/97 | 74.1 | |
| S-3938-970625-SSH-081 | K9704430-018 | 6/26/97 | 82.3 | |
| S-3938-970625-SSH-082 | K9704430-019 | 6/26/97 | 60.7 | |
| S-3938-970625-SSH-083 | K9704430-020 | 6/26/97 | 85.3 | |

Approved By: _____ Date: 6/28/97

TSSample/021397a

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City
**Sample Matrix:** Soil

**Service Request:** K9704430
**Date Collected:** 6/25/97
**Date Received:** 6/26/97
**Date Extracted:** 6/27/97
**Date Analyzed:** 6/27/97

Total Lead
EPA Method 7421
Units: mg/Kg (ppm)
Dry Weight Basis

| Sample Name | Lab Code | MRL | Result |
|---|---|---|---|
| S-3938-970625-SSH-064 | K9704430-001 | 1 | 207 |
| S-3938-970625-SSH-065 | K9704430-002 | 1 | 13 |
| S-3938-970625-SSH-066 | K9704430-003 | 1 | 977 |
| S-3938-970625-SSH-067 | K9704430-004 | 1 | 66 |
| S-3938-970625-SSH-068 | K9704430-005 | 1 | 11 |
| S-3938-970625-SSH-069 | K9704430-006 | 1 | 332 |
| S-3938-970625-SSH-070 | K9704430-007 | 1 | 28 |
| S-3938-970625-SSH-071 | K9704430-008 | 1 | 5550 |
| S-3938-970625-SSH-072 | K9704430-009 | 1 | 11 |
| S-3938-970625-SSH-073 | K9704430-010 | 1 | 13 |
| S-3938-970625-SSH-074 | K9704430-011 | 1 | 9130 |
| S-3938-970625-SSH-075 | K9704430-012 | 1 | 20 |
| S-3938-970625-SSH-076 | K9704430-013 | 1 | 90 |
| S-3938-970625-SSH-077 | K9704430-014 | 1 | 645 |
| S-3938-970625-SSH-078 | K9704430-015 | 1 | 1490 |
| S-3938-970625-SSH-079 | K9704430-016 | 1 | 2550 |
| S-3938-970625-SSH-080 | K9704430-017 | 1 | 12500 |
| S-3938-970625-SSH-081 | K9704430-018 | 1 | 66 |
| S-3938-970625-SSH-082 | K9704430-019 | 1 | 5440 |
| S-3938-970625-SSH-083 | K9704430-020 | 1 | 3 |
| Method Blank | K9704430-MB | 1 | ND |

Approved By: _____ Date: 6/28/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City
**Sample Matrix:** Soil

**Service Request:** K9704430
**Date Collected:** 6/25/97
**Date Received:** 6/26/97
**Date Extracted:** 7/1/97
**Date Analyzed:** 7/2/97

Synthetic Precipitation Leaching Procedure (SPLP)
Lead, SPLP
EPA Method 1312/7421
SPLP Metals
Units: mg/L (ppm) in SPLP Extract

| Sample Name | Lab Code | MRL | Result |
|---|---|---|---|
| S-3938-970625-SSH-064 | K9704430-001 | 0.002 | 0.014 |
| S-3938-970625-SSH-065 | K9704430-002 | 0.002 | 0.002 |
| S-3938-970625-SSH-066 | K9704430-003 | 0.002 | 0.065 |
| S-3938-970625-SSH-067 | K9704430-004 | 0.002 | 0.011 |
| S-3938-970625-SSH-068 | K9704430-005 | 0.002 | 0.005 |
| S-3938-970625-SSH-069 | K9704430-006 | 0.002 | 0.033 |
| S-3938-970625-SSH-070 | K9704430-007 | 0.002 | 0.023 |
| S-3938-970625-SSH-071 | K9704430-008 | 0.002 | 0.053 |
| S-3938-970625-SSH-072 | K9704430-009 | 0.002 | ND |
| S-3938-970625-SSH-073 | K9704430-010 | 0.002 | ND |
| S-3938-970625-SSH-074 | K9704430-011 | 0.002 | 0.106 |
| S-3938-970625-SSH-075 | K9704430-012 | 0.002 | ND |
| S-3938-970625-SSH-076 | K9704430-013 | 0.002 | ND |
| S-3938-970625-SSH-077 | K9704430-014 | 0.002 | 0.047 |
| S-3938-970625-SSH-078 | K9704430-015 | 0.002 | 0.025 |
| S-3938-970625-SSH-079 | K9704430-016 | 0.002 | 0.031 |
| S-3938-970625-SSH-080 | K9704430-017 | 0.002 | 0.057 |
| S-3938-970625-SSH-081 | K9704430-018 | 0.002 | 0.026 |
| S-3938-970625-SSH-082 | K9704430-019 | 0.002 | 0.172 |
| S-3938-970625-SSH-083 | K9704430-020 | 0.002 | 0.002 |
| Method Blank | K9704430-MB | 0.002 | ND |

Approved By: _____ Date: 7/2/97

# APPENDIX A
# LABORATORY QA/QC RESULTS

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City
**Sample Matrix:** Soil

**Service Request:** K9704430
**Date Collected:** 6/25/97
**Date Received:** 6/26/97

### Duplicate Summary

### Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: NA

| Sample Name | Lab Code | Date Analyzed | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---|---|---|---|---|---|---|---|
| S-3938-970625-SSH-064 | K9704430-001DUP | 6/26/97 | 90.5 | 90.0 | 90.3 | <1 | |

Approved By: _____ Date: 6/27/97

TSDup/021397a

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City
**Sample Matrix:** Soil

**Service Request:** K9704430
**Date Collected:** 6/25/97
**Date Received:** 6/26/97
**Date Extracted:** 6/27/97
**Date Analyzed:** 6/27/97

Duplicate Summary
Total Metals
Units: mg/Kg (ppm)
Dry Weight Basis

Sample Name: S-3938-970625-SSH-065
Lab Code: K9704430-002

| Analyte | EPA Method | MRL | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference |
|---|---|---|---|---|---|---|
| Lead | 7421 | 1 | 13 | 13 | 13 | <1 |

Approved By: _____ Date: 6/28/97

DUP1SEPA/102194
04430ICP.JC1 - DUP 6/28/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City
**Sample Matrix:** Soil

**Service Request:** K9704430
**Date Collected:** 6/25/97
**Date Received:** 6/26/97
**Date Extracted:** 6/27/97
**Date Analyzed:** 6/27/97

Matrix Spike Summary
Total Metals
Units: mg/Kg (ppm)
Dry Weight Basis

Sample Name: S-3938-970625-SSH-065
Lab Code: K9704430-002

| Analyte | MRL | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery | CAS Percent Recovery Acceptance Limits |
|---|---|---|---|---|---|---|
| Lead | 1 | 5 | 13 | 19 | 120 | 60-130 |

Approved By: _____ Date: 6/28/97

MS1S/102194

04430ICP.JC1 - Spike 6/28/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704430 |
| **Project:** | GMPT-Bay City | **Date Collected:** | NA |
| **LCS Matrix:** | Soil | **Date Received:** | NA |
| | | **Date Analyzed:** | 6/27/97 |

Laboratory Control Sample Summary
Total Metals
Units: mg/Kg (ppm)

Source: ERA Priority Pollutant/CLP Inorganic Soils

| Analyte | EPA Method | Result | Control Limits |
|---|---|---|---|
| Lead | 7421 | 132 | 82.7 - 160 |

Approved By: _____ Date: 7/3/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City
**Sample Matrix:** Soil

**Service Request:** K9704430
**Date Collected:** 6/25/97
**Date Received:** 6/26/97
**Date SPLP Performed:** 7/1/97
**Date Extracted:** 7/2/97
**Date Analyzed:**

Matrix Spike Summary
Synthetic Precipitation Leaching Procedure (SPLP)
EPA Method 1312/7421
SPLP Metals
Units: mg/L (ppm) in SPLP Extract

Sample Name: S-3938-970625-SSH-064
Lab Code: K9704430-001

| Analyte | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery* |
|---|---|---|---|---|
| Lead | 0.04 | 0.014 | 0.053 | 98 |

* Percent recovery information is provided in order to assess the performance of the method on this matrix.

Approved By: _____ Date: 7/2/97

SPLPMS/102194
04430ICP.JC2 - Spike 7/1/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City
**LCS Matrix:** Water

**Service Request:** K9704430
**Date Collected:** NA
**Date Received:** NA
**Date Analyzed:** 7/2/97

Laboratory Control Sample Summary
Total Metals
Units: mg/L (ppm)

Source: Inorganic Ventures

| Analyte | EPA Method | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits |
|---|---|---|---|---|---|
| Lead | 7421 | 0.04 | 0.040 | 100 | 80-120 |

Approved By: _____ Date: 7/2/97

LCSEPA/102194

04430ICP.JC2 - LCSW 7/1/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9704430
**Date Analyzed:** 6/27/97

Initial Calibration Verification (ICV) Summary #1
Metals
Units: µg/L (ppb)

ICV Source: Inorganic Ventures ICV

| Analyte | EPA Method | True Value | Result | Percent Recovery |
|---|---|---|---|---|
| Lead | 7421 | 25.0 | 27.1 | 108 |

Approved By: _____ Date: 7/2/97

ICVEPA/102194
04430ICP.JC3 - ICV 7/1/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9704430
**Date Analyzed:** 7/2/97

Initial Calibration Verification (ICV) Summary #2
Metals
Units: µg/L (ppb)

ICV Source: Inorganic Ventures ICV

| Analyte | EPA Method | True Value | Result | Percent Recovery |
|---|---|---|---|---|
| Lead | 7421 | 25.0 | 25.2 | 101 |

Approved By: _____ Date: 7/2/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9704430
**Date Analyzed:** 6/27/97, 7/2/97

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV1 Result | Percent Recovery | CCV2 Result | Percent Recovery | CCV3 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|
| Lead | 7421 | 40.0 | 39.9 | 100 | 40.0 | 100 | 40.4 | 101 |

Approved By: _____ Date: 7/2/97

CCV 1-3/042795
04430ICP.JC3 - CCV 1-3 7/1/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9704430
**Date Analyzed:** 6/27/97, 7/2/97

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV4 Result | Percent Recovery | CCV5 Result | Percent Recovery | CCV6 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|
| Lead | 7421 | 40.0 | 40.5 | 101 | 39.4 | 99 | 37.0 | 93 |

Approved By: _____ Date: 7/2/97

CCV 4-6/042795
04430ICP.JC3 - CCV 4-6 7/1/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9704430
**Date Analyzed:** 6/27/97, 7/2/97

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV7 Result | Percent Recovery | CCV8 Result | Percent Recovery |
|---|---|---|---|---|---|---|
| Lead | 7421 | 40.0 | 38.8 | 97 | 39.0 | 98 |

Approved By: _____ Date: 7/2/97

CCV 7-9/042795
04430ICP.JC3 - CCV 7-9 7/1/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9704430
**Date Analyzed:** 6/27/97, 7/2/97

Continuing Calibration Blank (CCB) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | MRL | CCB1 Result | CCB2 Result | CCB3 Result | CCB4 Result |
|---|---|---|---|---|---|---|
| Lead | 7421 | 2 | ND | ND | ND | ND |

Approved By: _____ Date: 7/2/97

CCB4SMRL/102194

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT-Bay City

**Service Request:** K9704430
**Date Analyzed:** 6/27/97, 7/2/97

Continuing Calibration Blank (CCB) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | MRL | CCB5 Result | CCB6 Result | CCB7 Result | CCB8 Result |
|---|---|---|---|---|---|---|
| Lead | 7421 | 2 | ND | ND | ND | ND |

Approved By: _____ Date: 7/2/97

CCB4SMRL/102194

REC'D CRA
JUL 2 5 1997
SDG # 5

Columbia Analytical Services, Inc.

July 24, 1997 Service Request No: K9704879

Pieter Booth
PTI Environmental Services, Inc.
15375 SE 30th Place, Suite 250
Bellevue, WA 98007

**Re: GMPT Bay City**

Dear Pieter:

Enclosed are the results of the rush sample(s) submitted to our laboratory on July 12, 1997. Preliminary results were transmitted via facsimile on July 14, 1997. For your reference, these analyses have been assigned our service request number K9704879.

Please note that lead analyses were performed by ICP/MS (EPA200.8) rather than GFAA (EPA7421) in order to meet rush turnaround time.

The project detection limit requirements were met by this method.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions. My extension is 246.

Respectfully submitted,

**Columbia Analytical Services, Inc.**

Abbie Spielman
Client Services Manager

AS/td

cc: Paul Wiseman (CRA/Romulus, MI)

ORIGINAL ANALYTICAL REPORT

Proj #: 3938 Lab #: K9704879
Name: GMPT - Bay City
Description
Event:
Samples: 14 - Soil
Analysis: Lead, SPLP-Pb

TAT: 24 hr - Std
Page 1 of 1
Lab: CAS

Checked Against Preliminary Data:
Date: Init.:
Date of Validation Memo:
Data Approved By:
Comments:

## Acronyms

| | |
|---|---|
| ASTM | American Society for Testing and Materials |
| A2LA | American Association for Laboratory Accreditation |
| CARB | California Air Resources Board |
| CAS Number | Chemical Abstract Service registry Number |
| CFC | Chlorofluorocarbon |
| CFU | Colony-Forming Unit |
| DEC | Department of Environmental Conservation |
| DEQ | Department of Environmental Quality |
| DHS | Department of Health Services |
| DOE | Department of Ecology |
| DOH | Department of Health |
| EPA | U. S. Environmental Protection Agency |
| ELAP | Environmental Laboratory Accreditation Program |
| GC | Gas Chromatography |
| GC/MS | Gas Chromatography/Mass Spectrometry |
| J | Estimated concentration. The value is less than the method reporting limit, but greater than the method detection limit. |
| LUFT | Leaking Underground Fuel Tank |
| M | Modified |
| MCL | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL | Method Detection Limit |
| MPN | Most Probable Number |
| MRL | Method Reporting Limit |
| NA | Not Applicable |
| NAN | Not Analyzed |
| NC | Not Calculated |
| NCASI | National Council of the Paper Industry for Air and Stream Improvement |
| ND | Not Detected at or above the MRL |
| NIOSH | National Institute for Occupational Safety and Health |
| PQL | Practical Quantitation Limit |
| RCRA | Resource Conservation and Recovery Act |
| SIM | Selected Ion Monitoring |
| TPH | Total Petroleum Hydrocarbons |
| tr | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL. |

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City
**Sample Matrix:** Soil

**Service Request:** K9704879
**Date Collected:** 7/11/97
**Date Received:** 7/12/97
**Date Extracted:** NA
**Date Analyzed:** 7/14/97

Solids, Total
EPA Method 160.3 Modified
Units: Percent (%)

| Sample Name | Lab Code | Result |
|---|---|---|
| S-3938-970711-SSH-084 | K9704879-001 | 92.8 |
| S-3938-970711-SSH-085 | K9704879-002 | 87.6 |
| S-3938-970711-SSH-086 | K9704879-003 | 84.2 |
| S-3938-970711-SSH-087 | K9704879-004 | 90.2 |
| S-3938-970711-SSH-088 | K9704879-005 | 79.8 |
| S-3938-970711-SSH-089 | K9704879-006 | 81.1 |
| S-3938-970711-SSH-090 | K9704879-007 | 86.2 |
| S-3938-970711-SSH-091 | K9704879-008 | 90.6 |
| S-3938-970711-SSH-092 | K9704879-009 | 94.8 |
| S-3938-970711-SSH-093 | K9704879-010 | 83.8 |
| S-3938-970711-SSH-094 | K9704879-011 | 86.0 |
| S-3938-970711-SSH-095 | K9704879-012 | 89.9 |
| S-3938-970711-SSH-096 | K9704879-013 | 86.7 |
| S-3938-970711-SSH-097 | K9704879-014 | 85.6 |

Approved By: _____ Date: 7/14/97

1A/102094

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City
**Sample Matrix:** Soil

**Service Request:** K9704879
**Date Collected:** 7/11/97
**Date Received:** 7/12/97
**Date Extracted:** 7/13/97
**Date Analyzed:** 7/14/97

Total Lead
EPA Method 200.8
Units: mg/Kg (ppm)
Dry Weight Basis

| Sample Name | Lab Code | MRL | Result |
|---|---|---|---|
| S-3938-970711-SSH-084 | K9704879-001 | 1 | 12 |
| S-3938-970711-SSH-085 | K9704879-002 | 1 | 293 |
| S-3938-970711-SSH-086 | K9704879-003 | 1 | 281 |
| S-3938-970711-SSH-087 | K9704879-004 | 1 | 6 |
| S-3938-970711-SSH-088 | K9704879-005 | 1 | 1810 |
| S-3938-970711-SSH-089 | K9704879-006 | 1 | 15 |
| S-3938-970711-SSH-090 | K9704879-007 | 1 | 5 |
| S-3938-970711-SSH-091 | K9704879-008 | 1 | 3 |
| S-3938-970711-SSH-092 | K9704879-009 | 1 | 4 |
| S-3938-970711-SSH-093 | K9704879-010 | 1 | 2 |
| S-3938-970711-SSH-094 | K9704879-011 | 1 | 4 |
| S-3938-970711-SSH-095 | K9704879-012 | 1 | 37 |
| S-3938-970711-SSH-096 | K9704879-013 | 1 | 5 |
| S-3938-970711-SSH-097 | K9704879-014 | 1 | 36 |
| Method Blank | K9704879-MB | 1 | ND |

Approved By: _____ Date: 7/14/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704879 |
| **Project:** | GMPT Bay City | **Date Collected:** | 7/11/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/12/97 |
| | | **Date SPLP Performed:** | 7/13/97 |
| | | **Date Extracted:** | 7/14/97 |

Synthetic Precipitation Leaching Procedure (SPLP)
EPA Method 1312
**Metals**
Units: mg/L (ppm) in SPLP Extract

| | | | | | |
|---|---|---|---|---|---|
| | | | **S-3938-970711-** | **S-3938-970711-** | **S-3938-970711-** |
| | | Sample Name: | **SSH-084** | **SSH-085** | **SSH-086** |
| | | Lab Code: | K9704879-001 | K9704879-002 | K9704879-003 |
| | | Date Analyzed: | 7/14/97 | 7/14/97 | 7/14/97 |
| **Analyte** | **EPA Method** | **MRL** | | | |
| Lead | 200.8 | 0.002 | 0.007 | ND | 0.039 |

Approved By: _____ Date: 7/14/97

SPLP/102194
04879ICP.GJ1 - Sample (2) 7/14/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704879 |
| **Project:** | GMPT Bay City | **Date Collected:** | 7/11/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/12/97 |
| | | **Date SPLP Performed:** | 7/13/97 |
| | | **Date Extracted:** | 7/14/97 |

Synthetic Precipitation Leaching Procedure (SPLP)
EPA Method 1312
**Metals**
Units: mg/L (ppm) in SPLP Extract

| | | | Sample Name: | S-3938-970711-SSH-087 | S-3938-970711-SSH-088 | S-3938-970711-SSH-089 |
|---|---|---|---|---|---|---|
| | | | Lab Code: | K9704879-004 | K9704879-005 | K9704879-006 |
| | | | Date Analyzed: | 7/14/97 | 7/14/97 | 7/14/97 |
| **Analyte** | **EPA Method** | **MRL** | | | | |
| Lead | 200.8 | 0.002 | | 0.007 | 0.109 | 0.005 |

Approved By: _____ Date: 7/14/97

SPLP/102194
04879ICP.GJ1 - Sample (3) 7/14/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| ient: | PTI Environmental Services, Inc. | **Service Request:** | K9704879 |
| oject: | GMPT Bay City | **Date Collected:** | 7/11/97 |
| mple Matrix: | Soil | **Date Received:** | 7/12/97 |
| | | **Date SPLP Performed:** | 7/13/97 |
| | | **Date Extracted:** | 7/14/97 |

Synthetic Precipitation Leaching Procedure (SPLP)
EPA Method 1312
**Metals**
Units: mg/L (ppm) in SPLP Extract

| | | | | | |
|---|---|---|---|---|---|
| | | Sample Name: | **S-3938-970711-SSH-090** | **S-3938-970711-SSH-091** | **S-3938-970711-SSH-092** |
| | | Lab Code: | K9704879-007 | K9704879-008 | K9704879-009 |
| | | Date Analyzed: | 7/14/97 | 7/14/97 | 7/14/97 |
| **ıalyte** | **EPA Method** | **MRL** | | | |
| ad | 200.8 | 0.002 | 0.004 | 0.006 | ND |

proved By: _____ Date: 7/14/97

/102194
879ICP.GJ1 - Sample (4) 7/14/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704879 |
| **Project:** | GMPT Bay City | **Date Collected:** | 7/11/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/12/97 |
| | | **Date SPLP Performed:** | 7/13/97 |
| | | **Date Extracted:** | 7/14/97 |

Synthetic Precipitation Leaching Procedure (SPLP)
EPA Method 1312
**Metals**
Units: mg/L (ppm) in SPLP Extract

| | | | | | |
|---|---|---|---|---|---|
| | | Sample Name: | S-3938-970711-SSH-093 | S-3938-970711-SSH-094 | S-3938-970711-SSH-095 |
| | | Lab Code: | K9704879-010 | K9704879-011 | K9704879-012 |
| | | Date Analyzed: | 7/14/97 | 7/14/97 | 7/14/97 |
| **Analyte** | **EPA Method** | **MRL** | | | |
| Lead | 200.8 | 0.002 | ND | 0.004 | 0.016 |

Approved By: _____ Date: 7/14/97

SPLP/102194
04879ICP.GJ1 - Sample (5) 7/14/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704879 |
| **Project:** | GMPT Bay City | **Date Collected:** | 7/11/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/12/97 |
| | | **Date SPLP Performed:** | 7/13/97 |
| | | **Date Extracted:** | 7/14/97 |

Synthetic Precipitation Leaching Procedure (SPLP)
EPA Method 1312
**Metals**
Units: mg/L (ppm) in SPLP Extract

| | | | Sample Name: | S-3938-970711-SSH-096 | S-3938-970711-SSH-097 | Method Blank |
|---|---|---|---|---|---|---|
| | | | Lab Code: | K9704879-013 | K9704879-014 | K9704879-MB |
| | | | Date Analyzed: | 7/14/97 | 7/14/97 | 7/14/97 |
| **Analyte** | **EPA Method** | **MRL** | | | | |
| Lead | 200.8 | 0.002 | | 0.004 | 0.016 | ND |

Approved By: _____ Date: 7/14/97

SPLP/102194
04879ICP.GJ1 - Sample (6) 7/14/97

# APPENDIX A
# LABORATORY QA/QC RESULTS

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704879 |
| **Project:** | GMPT Bay City | **Date Collected:** | 7/11/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/12/97 |
| | | **Date Extracted:** | 7/13/97 |
| | | **Date Analyzed:** | 7/14/97 |

Duplicate Summary
Total Metals
Units: mg/Kg (ppm)
Dry Weight Basis

Sample Name: S-3938-97011-SSH-084
Lab Code: K9704879-001

| Analyte | EPA Method | MRL | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference |
|---|---|---|---|---|---|---|
| Lead | 200.8 | 1 | 12 | 9 | 10 | 30 |

Approved By: _____ Date: 7/14/97

DUP1SEPA/102194
04879ICP GJ1 - DUP 7/14/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

ient: PTI Environmental Services, Inc.
oject: GMPT Bay City
mple Matrix: Soil

**Service Request:** K9704879
**Date Collected:** 7/11/97
**Date Received:** 7/12/97
**Date Extracted:** 7/13/97
**Date Analyzed:** 7/14/97

Matrix Spike Summary
Total Metals
Units: mg/Kg (ppm)
Dry Weight Basis

mple Name: S-3938-97011-SSH-084
b Code: K9704879-001

| nalyte | MRL | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery | CAS Percent Recovery Acceptance Limits |
|---|---|---|---|---|---|---|
| ead | 1 | 4 | 12 | 16 | 100 | 60-130 |

pproved By: _____ Date: 7/14/97

S/102194
4879ICP.GJ1 - Spike 7/14/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704879 |
| **Project:** | GMPT Bay City | **Date Collected:** | NA |
| **LCS Matrix:** | Soil | **Date Received:** | NA |
| | | **Date Analyzed:** | 7/14/97 |

Laboratory Control Sample Summary
Total Metals
Units: mg/Kg (ppm)

Source: ERA Priority Pollutant/CLP Inorganic Soils

| Analyte | EPA Method | Result | Control Limits |
|---|---|---|---|
| Lead | 200.8 | 119 | 82.7-160 |

Approved By: _____ Date: 7/14/97

LCSEPA/102194
04879ICP.GJ1 - ERA 230 7/14/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704879 |
| **Project:** | GMPT Bay City | **Date Collected:** | 7/11/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/12/97 |
| | | **Date SPLP Performed:** | 7/13/97 |
| | | **Date Extracted:** | 7/14/97 |
| | | **Date Analyzed:** | 7/14/97 |

Matrix Spike Summary
Synthetic Precipitation Leaching Procedure (SPLP)
EPA Method 1312
**Metals**
Units: mg/L (ppm) in SPLP Extract

Sample Name: S-3938-97011-SSH-084
Lab Code: K9704879-001

| Analyte | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery* |
|---|---|---|---|---|
| Lead | 0.020 | 0.007 | 0.025 | 90 |

* Percent recovery information is provided in order to assess the performance of the method on this matrix.

Approved By: _____ Date: 7/14/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City

**Service Request:** K9704879
**Date Analyzed:** 7/14/97

Initial Calibration Verification (ICV) Summary
Metals
Units: µg/L (ppb)

ICV Source: Inorganic Ventures ICV

| Analyte | EPA Method | True Value | Result | Percent Recovery |
|---|---|---|---|---|
| Lead | 200.8 | 50.0 | 51.3 | 103 |

Approved By: _____ Date: 7/14/97

ICVEPA/102194

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc. **Service Request:** K9704879
**Project:** GMPT Bay City **Date Analyzed:** 7/14/97

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV1 Result | Percent Recovery | CCV2 Result | Percent Recovery | CCV3 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|
| Lead | 200.8 | 25.0 | 25.3 | 101 | 25.2 | 101 | 25.5 | 102 |

Approved By: _____ Date: 7/14/97

CCV 1-3/042795

00016

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City

**Service Request:** K9704879
**Date Analyzed:** 7/14/97

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV4 Result | Percent Recovery | CCV5 Result | Percent Recovery | CCV6 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|
| Lead | 200.8 | 25.0 | 25.7 | 103 | 25.7 | 103 | 25.5 | 102 |

Approved By: _____ Date: 7/14/97

CCV 4-6/042795

00017

Page No.:

04879ICP.GJ1 - CCV 4-6 7/14/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704879 |
| **Project:** | GMPT Bay City | **Date Analyzed:** | 7/14/97 |

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV7 Result | Percent Recovery |
|---|---|---|---|---|
| Lead | 200.8 | 25.0 | 25.6 | 102 |

Approved By: _____ Date: 7/14/97

CCV 7-9/042795

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc. **Service Request:** K9704879
**Project:** GMPT Bay City **Date Analyzed:** 7/14/97

Continuing Calibration Blank (CCB) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | MRL | CCB1 Result | CCB2 Result | CCB3 Result | CCB4 Result |
|---|---|---|---|---|---|---|
| Lead | 200.8 | 0.4 | ND | ND | ND | ND |

Approved By: _____ Date: 7/14/97

CCB4SMRL/102194

00019

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City

**Service Request:** K9704879
**Date Analyzed:** 7/14/97

Continuing Calibration Blank (CCB) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | MRL | CCB5 Result | CCB6 Result | CCB7 Result |
|---|---|---|---|---|---|
| Lead | 200.8 | 0.4 | ND | ND | ND |

Approved By: _____ Date: 7/14/97

CCB4SMRL/102194

00020

**APPENDIX B**
**CHAIN OF CUSTODY**

(K4879) 1 of 1

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

# CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Columbia Analytical Services, Inc.

REFERENCE NUMBER: 3938-SB

PROJECT NAME: GMPT Bay City

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

| SEQ: No. | DATE | TIME | | SAMPLE TYPE | No. OF CONTAINERS | PARAMETERS: Total Lead | PARAMETERS: SPLP Lead | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 1 | 7/11/97 | | S-3938-970711-SSH-084 | Soil | 1 | X | X | TAT - 24hrs |
| 2 | | | -085 | | 1 | X | X | |
| 3 | | | -086 | | 1 | X | X | |
| 4 | | | -087 | | 1 | X | X | |
| 5 | | | -088 | | 1 | X | X | |
| 6 | | | -089 | | 1 | X | X | |
| 7 | | | S-3938-970711-SSH-090 | | 1 | X | X | |
| 8 | | | -091 | | 1 | X | X | |
| 9 | | | -092 | | 1 | X | X | |
| 10 | | | -093 | | 2 | X | X | |
| 11 | | | -094 | | 2 | X | X | |
| 12 | | | -095 | | 2 | X | X | |
| 13 | | | -096 | | 2 | X | X | |
| 14 | | | S-3938-970711-SSH-097 | | 2 | X | X | |
| TOTAL NUMBER OF CONTAINERS | | | | | 19 | | | |

| | | | |
|---|---|---|---|
| RELINQUISHED BY: 1. Steven S. Hoversmyer | DATE: 7/11/97 TIME: 1500 | RECEIVED BY: 1. | DATE: TIME: |
| RELINQUISHED BY: 2. | DATE: TIME: | RECEIVED BY: 2. | DATE: TIME: |
| RELINQUISHED BY: 3. | DATE: TIME: | RECEIVED BY: 1. | DATE: TIME: |

METHOD OF SHIPMENT: FedEx AIR BILL No. 9735112995

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

4176

SAMPLE TEAM: SSH

RECEIVED FOR LABORATORY BY: CAS-K

DATE: 071297 TIME: 0900

GUUU

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

REC'D
JUL 1997
SDG# 6 (1 of 4)

**Columbia Analytical Services** INC.

July 29, 1997 Service Request No: K9704957

Pieter Booth
PTI Environmental Services, Inc.
15375 SE 30th Place, Suite 250
Bellevue, WA 98007

**Re: GMPT Bay City/C690-1301**

Dear Pieter:

Enclosed are the results of the rush sample(s) submitted to our laboratory on July 16, 1997. For your reference, these analyses have been assigned our service request number K9704957.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions. My extension is 246.

Respectfully submitted,

**Columbia Analytical Services, Inc.**

Abbie Spielman
Client Services Manager

AS/td

cc: Paul Wiseman (CRA Romulus/MI)

ORIGINAL ANALYTICAL REPORT
Pr[illegible]: 3938-58 K9704957
Name: GMPT - Bay City
Location
Event:
Samples: (total 69) - #98 - 117 only
Analysis: PCB
TAT: Page 1 of 306
Lab: CAS
Checked Against Preliminary Data:
Date: Init.:
Date of Validation Memo:
[illegible] Approval Date:
Comments:

## Acronyms

| | |
|---|---|
| ASTM | American Society for Testing and Materials |
| A2LA | American Association for Laboratory Accreditation |
| CARB | California Air Resources Board |
| CAS Number | Chemical Abstract Service registry Number |
| CFC | Chlorofluorocarbon |
| CFU | Colony-Forming Unit |
| DEC | Department of Environmental Conservation |
| DEQ | Department of Environmental Quality |
| DHS | Department of Health Services |
| DOE | Department of Ecology |
| DOH | Department of Health |
| EPA | U. S. Environmental Protection Agency |
| ELAP | Environmental Laboratory Accreditation Program |
| GC | Gas Chromatography |
| GC/MS | Gas Chromatography/Mass Spectrometry |
| J | Estimated concentration. The value is less than the method reporting limit, but greater than the method detection limit. |
| LUFT | Leaking Underground Fuel Tank |
| M | Modified |
| MCL | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL | Method Detection Limit |
| MPN | Most Probable Number |
| MRL | Method Reporting Limit |
| NA | Not Applicable |
| NAN | Not Analyzed |
| NC | Not Calculated |
| NCASI | National Council of the Paper Industry for Air and Stream Improvement |
| ND | Not Detected at or above the MRL |
| NIOSH | National Institute for Occupational Safety and Health |
| PQL | Practical Quantitation Limit |
| RCRA | Resource Conservation and Recovery Act |
| SIM | Selected Ion Monitoring |
| TPH | Total Petroleum Hydrocarbons |
| tr | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL. |

## COLUMBIA ANALYTICAL SERVICES, INC.

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request No.:** | K9704957 |
| **Project:** | G<PT Bay City/c690-1301 | **Date Received:** | 7/16/97 |
| **Sample Matrix:** | Soil | | |

## CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for sample(s) designated for Tier III data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Matrix/Duplicate Matrix Spike (MS/DMS), Laboratory Control Sample (LCS), Initial Continuing Calibration Verification Standards (ICV/CCV), and Initial Continuing Calibration Blanks (ICB/CCB).

All EPA recommended holding times have been met for analyses in this sample delivery group.

The following difficulties were experienced during analysis of this batch:

The Matrix Spike/Duplicate Matrix Spike (MS/DMS) recoveries of Aroclor 1242 for sample S-3938-970715-SSH-100 was not calculated because of matrix interference from other target analytes. The chromatogram had components (Aroclor 1248) that prevented accurate quantitation of the spiked analytes. No further corrective action was taken.

Approved by _____ Date 7/26/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704957
**Date Collected:** 7/15/97
**Date Received:** 7/16/97

### Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: NA

| Sample Name | Lab Code | Date Analyzed | Result | Result Notes |
|---|---|---|---|---|
| S-3938-970715-SSH-098 | K9704957-001 | 7/16/97 | 61.3 | |
| S-3938-970715-SSH-099 | K9704957-002 | 7/16/97 | 81.6 | |
| S-3938-970715-SSH-100 | K9704957-003 | 7/16/97 | 94.3 | |
| S-3938-970715-SSH-101 | K9704957-004 | 7/16/97 | 92.1 | |
| S-3938-970715-SSH-102 | K9704957-005 | 7/16/97 | 84.1 | |
| S-3938-970715-SSH-103 | K9704957-006 | 7/16/97 | 91.7 | |
| S-3938-970715-SSH-104 | K9704957-007 | 7/16/97 | 88.1 | |
| S-3938-970715-SSH-105 | K9704957-008 | 7/16/97 | 88.2 | |
| S-3938-970715-SSH-106 | K9704957-009 | 7/16/97 | 88.1 | |
| S-3938-970715-SSH-107 | K9704957-010 | 7/16/97 | 93.2 | |
| S-3938-970715-SSH-108 | K9704957-011 | 7/16/97 | 79.7 | |
| S-3938-970715-SSH-109 | K9704957-012 | 7/16/97 | 87.0 | |
| S-3938-970715-SSH-110 | K9704957-013 | 7/16/97 | 86.1 | |
| S-3938-970715-SSH-111 | K9704957-014 | 7/16/97 | 88.5 | |
| S-3938-970715-SSH-112 | K9704957-015 | 7/16/97 | 91.7 | |
| S-3938-970715-SSH-113 | K9704957-016 | 7/16/97 | 91.8 | |
| S-3938-970715-SSH-114 | K9704957-017 | 7/16/97 | 88.5 | |
| S-3938-970715-SSH-115 | K9704957-018 | 7/16/97 | 94.3 | |
| S-3938-970715-SSH-116 | K9704957-019 | 7/16/97 | 90.0 | |
| S-3938-970715-SSH-117 | K9704957-020 | 7/16/97 | 89.7 | |

Approved By: _____ Date: 7/18/97

TSSample/021397a

00004

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704957 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/15/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/16/97 |
| | | **Date Extracted:** | 7/17/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-098 | S-3938-970715-SSH-099 | S-3938-970715-SSH-100 |
|---|---|---|---|---|
| Sample Name: | | S-3938-970715-SSH-098 | S-3938-970715-SSH-099 | S-3938-970715-SSH-100 |
| Lab Code: | | K9704957-001 | K9704957-002 | K9704957-003 |
| Date Analyzed: | | 7/22/97 | 7/22/97 | 7/22/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 130 | 17 | 9 |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: _____ Date: 7/23/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services. Inc. | **Service Request:** | K9704957 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/15/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/16/97 |
| | | **Date Extracted:** | 7/17/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | **S-3938-970715-SSH-101** | **S-3938-970715-SSH-102** | **S-3938-970715-SSH-103** |
|---|---|---|---|---|
| Sample Name: | | | | |
| Lab Code: | | K9704957-004 | K9704957-005 | K9704957-006 |
| Date Analyzed: | | 7/22/97 | 7/22/97 | 7/22/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 15 | 69 | 10 |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: _____ Date: 7/22/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704957 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/15/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/16/97 |
| | | **Date Extracted:** | 7/17/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | **S-3938-970715-SSH-104** | **S-3938-970715-SSH-105** | **S-3938-970715-SSH-106** |
|---|---|---|---|---|
| Sample Name: | | | | |
| Lab Code: | | K9704957-007 | K9704957-008 | K9704957-009 |
| Date Analyzed: | | 7/22/97 | 7/22/97 | 7/22/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 3 | 65 | 4 |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: _____ Date: 7/23/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704957
**Date Collected:** 7/15/97
**Date Received:** 7/16/97
**Date Extracted:** 7/17/97

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-107 | S-3938-970715-SSH-108 | S-3938-970715-SSH-109 |
|---|---|---|---|---|
| Sample Name: | | S-3938-970715-SSH-107 | S-3938-970715-SSH-108 | S-3938-970715-SSH-109 |
| Lab Code: | | K9704957-010(D) | K9704957-011 | K9704957-012 |
| Date Analyzed: | | 7/22/97 | 7/22/97 | 7/22/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | <10 | ND | ND |
| Aroclor 1221 | 1 | <10 | ND | ND |
| Aroclor 1232 | 1 | <10 | ND | ND |
| Aroclor 1242 | 1 | <10 | ND | ND |
| Aroclor 1248 | 1 | 120 | 29 | ND |
| Aroclor 1254 | 1 | <10 | ND | ND |
| Aroclor 1260 | 1 | <10 | ND | ND |

D The MRL is elevated because of matrix interferences and because the sample required diluting.

Approved By: _____ Date: 7/23/97

00008

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704957
**Date Collected:** 7/15/97
**Date Received:** 7/16/97
**Date Extracted:** 7/17/97

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-110 | S-3938-970715-SSH-111 | S-3938-970715-SSH-112 |
|---|---|---|---|---|
| Sample Name: | | S-3938-970715-SSH-110 | S-3938-970715-SSH-111 | S-3938-970715-SSH-112 |
| Lab Code: | | K9704957-013 | K9704957-014 | K9704957-015 |
| Date Analyzed: | | 7/22/97 | 7/22/97 | 7/22/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 3 | 16 | 21 |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: JSP Date: 7/23/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704957 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/15/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/16/97 |
| | | **Date Extracted:** | 7/17/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | **S-3938-970715-SSH-113** | **S-3938-970715-SSH-114** | **S-3938-970715-SSH-115** |
|---|---|---|---|---|
| Sample Name: | | | | |
| Lab Code: | | K9704957-016(D) | K9704957-017 | K9704957-018 |
| Date Analyzed: | | 7/23/97 | 7/23/97 | 7/23/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | <10 | ND | ND |
| Aroclor 1221 | 1 | <10 | ND | ND |
| Aroclor 1232 | 1 | <10 | ND | ND |
| Aroclor 1242 | 1 | <10 | ND | ND |
| Aroclor 1248 | 1 | 170 | 6 | 3 |
| Aroclor 1254 | 1 | <10 | ND | ND |
| Aroclor 1260 | 1 | <10 | ND | ND |

D The MRL is elevated because of matrix interferences and because the sample required diluting.

Approved By: _____ Date: 7/23/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704957 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/15/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/16/97 |
| | | **Date Extracted:** | 7/17/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-116 | S-3938-970715-SSH-117 | Method Blank |
|---|---|---|---|---|
| Sample Name: | | S-3938-970715-SSH-116 | S-3938-970715-SSH-117 | Method Blank |
| Lab Code: | | K9704957-019 | K9704957-020 | K970717-MB |
| Date Analyzed: | | 7/23/97 | 7/23/97 | 7/22/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 24 | 48 | ND |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: _____ Date: 7/23/97

# APPENDIX A
# LABORATORY QA/QC RESULTS

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704957
**Date Collected:** 7/15/97
**Date Received:** 7/16/97

Duplicate Summary

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: NA

| Sample Name | Lab Code | Date Analyzed | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---|---|---|---|---|---|---|---|
| S-3938-970715-SSH-098 | K9704957-001DUP | 7/16/97 | 61.3 | 62.8 | 62.1 | 2 | |

Approved By: _____ Date: 7/18/97

TSDup/021397a

04957TS.AG1 - DUP 7/17/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704957
**Date Collected:** 7/15/97
**Date Received:** 7/16/97
**Date Extracted:** 7/17/97
**Date Analyzed:** 7/22-23/97

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A

| Sample Name | Lab Code | Percent Recovery Decachlorobiphenyl |
|---|---|---|
| S-3938-970715-SSH-098 | K9704957-001 | 128 |
| S-3938-970715-SSH-099 | K9704957-002 | 136 |
| S-3938-970715-SSH-100 | K9704957-003 | 110 |
| S-3938-970715-SSH-101 | K9704957-004 | 128 |
| S-3938-970715-SSH-102 | K9704957-005 | 137 |
| S-3938-970715-SSH-103 | K9704957-006 | 121 |
| S-3938-970715-SSH-104 | K9704957-007 | 123 |
| S-3938-970715-SSH-105 | K9704957-008 | 137 |
| S-3938-970715-SSH-106 | K9704957-009 | 122 |
| S-3938-970715-SSH-107 | K9704957-010 | 124 |
| S-3938-970715-SSH-108 | K9704957-011 | 137 |
| S-3938-970715-SSH-109 | K9704957-012 | 108 |
| S-3938-970715-SSH-110 | K9704957-013 | 127 |
| S-3938-970715-SSH-111 | K9704957-014 | 134 |
| S-3938-970715-SSH-112 | K9704957-015 | 134 |
| S-3938-970715-SSH-113 | K9704957-016 | 131 |
| S-3938-970715-SSH-114 | K9704957-017 | 121 |
| S-3938-970715-SSH-115 | K9704957-018 | 113 |
| S-3938-970715-SSH-116 | K9704957-019 | 127 |
| S-3938-970715-SSH-117 | K9704957-020 | 141 |
| S-3938-970715-SSH-100 | K9704957-003MS | 124 |
| S-3938-970715-SSH-100 | K9704957-003DMS | 142 |
| Lab Control Sample | K970717-LCS | 96 |
| Method Blank | K970717-MB | 95 |

CAS Acceptance Limits: 54-144

Approved By: _____ Date: 7/23/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704957 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/15/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/16/97 |
| | | **Date Extracted:** | 7/17/97 |
| | | **Date Analyzed:** | 7/22/97 |

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

Sample Name: S-3938-970715-SSH-100
Lab Code: K9704957-003MS, K9704957-003DMS

| | Spike Level | | Sample | Spike Result | | Percent Recovery | | CAS Acceptance | Relative Percent |
|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | MS | DMS | **Result** | MS | DMS | MS | DMS | Limits | **Difference** |
| Aroclor 1242 | 1.5 | 1.5 | ND | NA | NA | NC | NC | 40-141 | - |

NA Not Applicable; see case narrative.

Approved By: _____ Date: 7/23/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704957 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | NA |
| **LCS Matrix:** | Soil | **Date Received:** | NA |
| | | **Date Extracted:** | 7/17/97 |
| | | **Date Analyzed:** | 7/22/97 |

Laboratory Control Sample Summary
Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)

| Analyte | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits |
|---|---|---|---|---|
| Aroclor 1242 | 0.70 | 0.72 | 103 | 49-125 |

Approved By: _____ Date: 7/23/97

LCS/121594

04957SVG.JJ1 - LCS 7/23/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301

**Service Request:** K9704957
**Calibration Date:** 7/16/97
**Date Analyzed:** 7/22-23/97

Continuing Calibration Blank (CCB) Summary
Polychlorinated Biphenyls (PCBs)
EPA Method 8080A
Units: µg/mL (ppm)

| Analyte | MRL | CCB1 Result | CCB2 Result | CCB3 Result | CCB4 Result |
|---|---|---|---|---|---|
| Aroclor 1016 | 1 | ND | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND | ND |
| Aroclor 1248 | 1 | ND | ND | ND | ND |
| Aroclor 1254 | 1 | ND | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND | ND |

Approved By: _____ Date: 7/23/97

CCB4SMRL/120594

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301

**Service Request:** K9704957
**Calibration Date:** 7/16/97
**Date Analyzed:** 7/22-23/97

Continuing Calibration Verification (CCV) Summary
Polychlorinated Biphenyls (PCBs)
EPA Method 8080A
Units: µg/mL (ppm)

| Analyte | True Value | CCV1 Result | Percent Recovery | CCV2 Result | Percent Recovery | CCV3 Result | Percent Recovery | CCV4 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1242 | 1.0 | 1.0 | 100 | 1.0 | 100 | 1.1 | 110 | 1.1 | 110 |
| Aroclor 1248 | 1.0 | 0.9 | 90 | 1.0 | 100 | 1.0 | 100 | 1.0 | 100 |

Approved By: _____ Date: 7/23/97

**APPENDIX B**
**CHAIN OF CUSTODY**

# CRA

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

## CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Columbia Analytical Services 1C9204957

REFERENCE NUMBER: 3938.58

PROJECT NAME: GMPT Bay City

00020

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

| SEQ: No. | DATE | TIME | | SAMPLE TYPE | No. OF CONTAINERS | PARAMETERS: PCBs | REMARKS |
|---|---|---|---|---|---|---|---|
| 15 | 7/15/97 | | S-3938-970715-SSH-112 | Soil | 1 | X | TAT - 24 hrs |
| 16 | | | -113 | | 1 | X | |
| 17 | | | -114 | | 1 | X | |
| 18 | | | -115 | | 1 | X | |
| 19 | | | -116 | | 1 | X | |
| 20 | | | -117 | | 1 | X | |
| 21 | | | -118 | | 1 | X | |
| 22 | | | -119 | | 1 | X | |
| 23 | | | -120 | | 1 | X | |
| 24 | | | -121 | | 1 | X | |
| 25 | | | -122 | | 1 | X | |
| 26 | | | -123 | | 1 | X | |
| 27 | | | -124 | | 1 | X | |
| 28 | | | S-3938-970715-SSH-125 | | 1 | X | |
| | | | TOTAL NUMBER OF CONTAINERS | | 14 | | |

| | | | |
|---|---|---|---|
| RELINQUISHED BY: 1. Steven S. Hoevemeyer | DATE: 7/15/97 TIME: 1600 | RECEIVED BY: 1. | DATE: TIME: |
| RELINQUISHED BY: 2. | DATE: TIME: | RECEIVED BY: 2. | DATE: TIME: |
| RELINQUISHED BY: 3. | DATE: TIME: | RECEIVED BY: 1. | DATE: TIME: |

METHOD OF SHIPMENT: FedEx AIR BILL No.

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

4173

SAMPLE TEAM: SSH

RECEIVED FOR LABORATORY BY: Tracy Adams
DATE: 7/16 TIME: 1020

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

(1 of 1)

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

# CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Columbia Analytical Services KA04957

REFERENCE NUMBER: 3938-58

PROJECT NAME: GMPT Bay City

00021

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

| SEQ: No. | DATE | TIME | | SAMPLE TYPE | No. OF CONTAINERS | PARAMETERS: PCBs | REMARKS |
|---|---|---|---|---|---|---|---|
| 1 | 7/15/97 | | S-3938-970715-SSH-098 | soil | 1 | X | TAT - 24 hrs |
| 2 | | | -099 | | 1 | X | |
| 3 | | | -100 | | 1 | X | |
| 4 | | | -101 | | 1 | X | |
| 5 | | | -102 | | 1 | X | |
| 6 | | | -103 | | 1 | X | |
| 7 | | | -104 | | 1 | X | |
| 8 | | | -105 | | 1 | X | |
| 9 | | | -106 | | 1 | X | |
| 10 | | | -107 | | 1 | X | |
| 11 | | | -108 | | 1 | X | |
| 12 | | | -109 | | 1 | X | |
| 13 | | | -110 | | 1 | X | |
| 14 | | | S-3938-970715-SSH -111 | | 1 | X | |
| TOTAL NUMBER OF CONTAINERS | | | | | 14 | | |

| | | | |
|---|---|---|---|
| RELINQUISHED BY: 1. [signature] | DATE: 7/15/97 TIME: 1600 | RECEIVED BY: 1. | DATE: TIME: |
| RELINQUISHED BY: 2. | DATE: TIME: | RECEIVED BY: 2. | DATE: TIME: |
| RELINQUISHED BY: 3. | DATE: TIME: | RECEIVED BY: 1. | DATE: TIME: |

METHOD OF SHIPMENT: Fed Ex AIR BILL No.

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

1172

SAMPLE TEAM: SSH

RECEIVED FOR LABORATORY BY: [signature]
DATE: 7/16 TIME: 1020

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

REC'D CRA
1997
SDG#6 (2 of 4)

Columbia Analytical Services, Inc.

July 29, 1997 Service Request No: K9704959

Pieter Booth
PTI Environmental Services, Inc.
15375 SE 30th Place, Suite 250
Bellevue, WA 98007

**Re: GMPT Bay City/C690-1301**

Dear Pieter:

Enclosed are the results of the sample(s) submitted to our laboratory on July 16, 1997. Preliminary results were transmitted via facsimile on July 25, 1997. For your reference, these analyses have been assigned our service request number K9704959.

Please note that copies of the associated calibration data have been sent previously with service request K9704957.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions. My extension is 246.

Respectfully submitted,

**Columbia Analytical Services, Inc.**

Abbie Spielman
Client Services Manager

AS/td

cc: Paul Wiseman (CRA Romulus/MI)

ORIGINAL ANALYTICAL REPORT
Project: 3938-58 Lab #: K9704959
Name: GMPT - Bay City
Description
Event:
Samples: (total 69) - # 118-137
Analysis: PCB
TAT:
Lab: CAS
Checked Against Preliminary Data:
Date: ~~Page 1 of~~ Init.:
Date of Validation Memo:
Date Approved:
Comments:

## Acronyms

| | |
|---|---|
| ASTM | American Society for Testing and Materials |
| A2LA | American Association for Laboratory Accreditation |
| CARB | California Air Resources Board |
| CAS Number | Chemical Abstract Service registry Number |
| CFC | Chlorofluorocarbon |
| CFU | Colony-Forming Unit |
| DEC | Department of Environmental Conservation |
| DEQ | Department of Environmental Quality |
| DHS | Department of Health Services |
| DOE | Department of Ecology |
| DOH | Department of Health |
| EPA | U. S. Environmental Protection Agency |
| ELAP | Environmental Laboratory Accreditation Program |
| GC | Gas Chromatography |
| GC/MS | Gas Chromatography/Mass Spectrometry |
| J | Estimated concentration. The value is less than the method reporting limit, but greater than the method detection limit. |
| LUFT | Leaking Underground Fuel Tank |
| M | Modified |
| MCL | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL | Method Detection Limit |
| MPN | Most Probable Number |
| MRL | Method Reporting Limit |
| NA | Not Applicable |
| NAN | Not Analyzed |
| NC | Not Calculated |
| NCASI | National Council of the Paper Industry for Air and Stream Improvement |
| ND | Not Detected at or above the MRL |
| NIOSH | National Institute for Occupational Safety and Health |
| PQL | Practical Quantitation Limit |
| RCRA | Resource Conservation and Recovery Act |
| SIM | Selected Ion Monitoring |
| TPH | Total Petroleum Hydrocarbons |
| tr | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL. |

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704959
**Date Collected:** 7/15/97
**Date Received:** 7/16/97

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: NA

| Sample Name | Lab Code | Date Analyzed | Result | Result Notes |
|---|---|---|---|---|
| S-3938-970715-SSH-118 | K9704959-001 | 7/16/97 | 91.9 | |
| S-3938-970715-SSH-119 | K9704959-002 | 7/16/97 | 89.8 | |
| S-3938-970715-SSH-120 | K9704959-003 | 7/16/97 | 87.8 | |
| S-3938-970715-SSH-121 | K9704959-004 | 7/16/97 | 90.7 | |
| S-3938-970715-SSH-122 | K9704959-005 | 7/16/97 | 84.7 | |
| S-3938-970715-SSH-123 | K9704959-006 | 7/16/97 | 89.7 | |
| S-3938-970715-SSH-124 | K9704959-007 | 7/16/97 | 96.5 | |
| S-3938-970715-SSH-125 | K9704959-008 | 7/16/97 | 88.5 | |
| S-3938-970715-SSH-126 | K9704959-009 | 7/16/97 | 93.1 | |
| S-3938-970715-SSH-127 | K9704959-010 | 7/16/97 | 89.5 | |
| S-3938-970715-SSH-128 | K9704959-011 | 7/16/97 | 85.3 | |
| S-3938-970715-SSH-129 | K9704959-012 | 7/16/97 | 92.9 | |
| S-3938-970715-SSH-130 | K9704959-013 | 7/16/97 | 92.3 | |
| S-3938-970715-SSH-131 | K9704959-014 | 7/16/97 | 96.2 | |
| S-3938-970715-SSH-132 | K9704959-015 | 7/16/97 | 89.5 | |
| S-3938-970715-SSH-133 | K9704959-016 | 7/16/97 | 90.7 | |
| S-3938-970715-SSH-134 | K9704959-017 | 7/16/97 | 98.6 | |
| S-3938-970715-SSH-135 | K9704959-018 | 7/16/97 | 99.9 | |
| S-3938-970715-SSH-136 | K9704959-019 | 7/16/97 | 89.7 | |
| S-3938-970715-SSH-137 | K9704959-020 | 7/16/97 | 88.0 | |

Approved By: _____ Date: 7/18/97

TSSample/021397a

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704959
**Date Collected:** 7/15/97
**Date Received:** 7/16/97
**Date Extracted:** 7/18/97

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-118 | S-3938-970715-SSH-119 | S-3938-970715-SSH-120 |
|---|---|---|---|---|
| Sample Name: | | | | |
| Lab Code: | | K9704959-001 | K9704959-002 | K9704959-003 |
| Date Analyzed: | | 7/23/97 | 7/23/97 | 7/23/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 20 | 2 | 17 |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: Carl Johnsen Date: 7/25/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704959
**Date Collected:** 7/15/97
**Date Received:** 7/16/97
**Date Extracted:** 7/18/97

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-121 | S-3938-970715-SSH-122 | S-3938-970715-SSH-123 |
|---|---|---|---|---|
| Sample Name: | | S-3938-970715-SSH-121 | S-3938-970715-SSH-122 | S-3938-970715-SSH-123 |
| Lab Code: | | K9704959-004 | K9704959-005 | K9704959-006 |
| Date Analyzed: | | 7/23/97 | 7/23/97 | 7/23/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 3 | 1 | 48 |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: Carl Johnson Date: 7/25/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704959
**Date Collected:** 7/15/97
**Date Received:** 7/16/97
**Date Extracted:** 7/18/97

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-124 | S-3938-970715-SSH-125 | S-3938-970715-SSH-126 |
|---|---|---|---|---|
| Sample Name: | | S-3938-970715-SSH-124 | S-3938-970715-SSH-125 | S-3938-970715-SSH-126 |
| Lab Code: | | K9704959-007 | K9704959-008 | K9704959-009 |
| Date Analyzed: | | 7/23/97 | 7/23/97 | 7/23/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 51 | 7 | 1 |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: Carl Johnson Date: 7/25/97

3S22(1395)V/G.JJ1 - 7-9 7/25/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704959 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/15/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/16/97 |
| | | **Date Extracted:** | 7/18/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-127 | S-3938-970715-SSH-128 | S-3938-970715-SSH-129 |
|---|---|---|---|---|
| Sample Name: | | S-3938-970715-SSH-127 | S-3938-970715-SSH-128 | S-3938-970715-SSH-129 |
| Lab Code: | | K9704959-010 | K9704959-011 | K9704959-012 |
| Date Analyzed: | | 7/23/97 | 7/23/97 | 7/23/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 3 | 31 | ND |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: Carl Johnsen Date: 7/25/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704959 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/15/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/16/97 |
| | | **Date Extracted:** | 7/18/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-130 | S-3938-970715-SSH-131 | S-3938-970715-SSH-132 |
|---|---|---|---|---|
| Sample Name: | | S-3938-970715-SSH-130 | S-3938-970715-SSH-131 | S-3938-970715-SSH-132 |
| Lab Code: | | K9704959-013 | K9704959-014 | K9704959-015 |
| Date Analyzed: | | 7/23/97 | 7/23/97 | 7/23/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 5 | 6 | ND |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: Carol Johnson Date: 7/25/97

00003

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704959 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/15/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/16/97 |
| | | **Date Extracted:** | 7/18/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-133 | S-3938-970715-SSH-134 | S-3938-970715-SSH-135 |
|---|---|---|---|---|
| Sample Name: | | S-3938-970715-SSH-133 | S-3938-970715-SSH-134 | S-3938-970715-SSH-135 |
| Lab Code: | | K9704959-016 | K9704959-017 | K9704959-018 |
| Date Analyzed: | | 7/23/97 | 7/24/97 | 7/24/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 4 | 53 | 3 |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: Carl Johnson Date: 7/25/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704959 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/15/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/16/97 |
| | | **Date Extracted:** | 7/18/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-136 | S-3938-970715-SSH-137 | Method Blank |
|---|---|---|---|---|
| Sample Name: | | | | |
| Lab Code: | | K9704959-019 | K9704959-020 | K970718-MB |
| Date Analyzed: | | 7/24/97 | 7/24/97 | 7/23/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 1 | 3 | ND |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: Carl Johnson Date: 7/25/97

# APPENDIX A
# LABORATORY QA/QC RESULTS

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704959
**Date Collected:** 7/15/97
**Date Received:** 7/16/97

Duplicate Summary

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: NA

| Sample Name | Lab Code | Date Analyzed | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---|---|---|---|---|---|---|---|
| S-3938-970715-SSH-118 | K9704959-001DUP | 7/16/97 | 91.9 | 91.3 | 91.6 | <1 | |

Approved By: _____ Date: 7/18/97

TSDup.021397a

04959TS.AG1 - DUP 7/17/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704959
**Date Collected:** 7/15/97
**Date Received:** 7/16/97
**Date Extracted:** 7/18/97
**Date Analyzed:** 7/23-24/97

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A

| Sample Name | Lab Code | Percent Recovery Decachlorobiphenyl |
|---|---|---|
| S-3938-970715-SSH-118 | K9704959-001 | 104 |
| S-3938-970715-SSH-119 | K9704959-002 | 100 |
| S-3938-970715-SSH-120 | K9704959-003 | 101 |
| S-3938-970715-SSH-121 | K9704959-004 | 111 |
| S-3938-970715-SSH-122 | K9704959-005 | 103 |
| S-3938-970715-SSH-123 | K9704959-006 | 103 |
| S-3938-970715-SSH-124 | K9704959-007 | 92 |
| S-3938-970715-SSH-125 | K9704959-008 | 97 |
| S-3938-970715-SSH-126 | K9704959-009 | 97 |
| S-3938-970715-SSH-127 | K9704959-010 | 101 |
| S-3938-970715-SSH-128 | K9704959-011 | 113 |
| S-3938-970715-SSH-129 | K9704959-012 | 95 |
| S-3938-970715-SSH-130 | K9704959-013 | 96 |
| S-3938-970715-SSH-131 | K9704959-014 | 100 |
| S-3938-970715-SSH-132 | K9704959-015 | 112 |
| S-3938-970715-SSH-133 | K9704959-016 | 103 |
| S-3938-970715-SSH-134 | K9704959-017 | 104 |
| S-3938-970715-SSH-135 | K9704959-018 | 93 |
| S-3938-970715-SSH-136 | K9704959-019 | 98 |
| S-3938-970715-SSH-137 | K9704959-020 | 104 |
| S-3938-970715-SSH-132 | K9704959-015MS | 94 |
| S-3938-970715-SSH-132 | K9704959-015DMS | 94 |
| Lab Control Sample | K970718-LCS | 91 |
| Method Blank | K970718-MB | 89 |

CAS Acceptance Limits: 54-144

Approved By: Carl Johnson Date: 7/25/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704959 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/15/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/16/97 |
| | | **Date Extracted:** | 7/18/97 |
| | | **Date Analyzed:** | 7/23/97 |

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

Sample Name: S-3938-970715-SSH-132
Lab Code: K9704959-015MS, K9704959-015DMS

| | Spike Level | | Sample | Spike Result | | Percent Recovery | | CAS Acceptance | Relative Percent |
|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | MS | DMS | **Result** | MS | DMS | MS | DMS | Limits | **Difference** |
| Aroclor 1254 | 4.5 | 4.5 | ND | 4.7 | 5.0 | 104 | 111 | 42-142 | 6 |

Approved By: Carl Johnson Date: 7/25/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704959 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | NA |
| **LCS Matrix:** | Soil | **Date Received:** | NA |
| | | **Date Extracted:** | 7/18/97 |
| | | **Date Analyzed:** | 7/23/97 |

Laboratory Control Sample Summary
Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)

| Analyte | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits |
|---|---|---|---|---|
| Aroclor 1254 | 4.0 | 3.9 | 98 | 59-130 |

Approved By: Carol Johnson Date: 7/25/97

LCS/121594
04959SVG.JJ1 - LCS 7/25/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301

**Service Request:** K9704959
**Calibration Date:** 7/16/97
**Date Analyzed:** 7/23-24/97

Continuing Calibration Blank (CCB) Summary
Polychlorinated Biphenyls (PCBs)
EPA Method 8080A
Units: µg/mL (ppm)

| Analyte | MRL | CCB1 Result | CCB2 Result | CCB3 Result | CCB4 Result |
|---|---|---|---|---|---|
| Aroclor 1016 | 1 | ND | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND | ND |
| Aroclor 1248 | 1 | ND | ND | ND | ND |
| Aroclor 1254 | 1 | ND | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND | ND |

Approved By: Carol Johnson Date: 7/25/97

CCB4SMRL/120594
04959SVG.JJ1 - ccb 7/25/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301

**Service Request:** K9704959
**Calibration Date:** 7/16/97
**Date Analyzed:** 7/23-24/97

Continuing Calibration Verification (CCV) Summary
Polychlorinated Biphenyls (PCBs)
EPA Method 8080A
Units: µg/mL (ppm)

| Analyte | True Value | CCV1 Result | Percent Recovery | CCV2 Result | Percent Recovery | CCV3 Result | Percent Recovery | CCV4 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 1.0 | 1.0 | 100 | - | - | - | - | 0.9 | 90 |
| Aroclor 1242 | 1.0 | 0.9 | 90 | 0.9 | 90 | 0.9 | 90 | 0.9 | 90 |
| Aroclor 1248 | 1.0 | 1.0 | 100 | 1.0 | 100 | 1.0 | 100 | 1.0 | 100 |
| Aroclor 1254 | 1.0 | 1.0 | 100 | - | - | - | - | 1.0 | 100 |
| Aroclor 1260 | 1.0 | 0.9 | 90 | - | - | - | - | 1.0 | 100 |

Approved By: Carl Johnson Date: 7/25/97

CCV 5-R/042795
04959SVG.JJ1 - ccv2 7/25/97

**APPENDIX B**
**CHAIN OF CUSTODY**

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

# CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Columbia Analytical Services

REFERENCE NUMBER: 3938-58

PROJECT NAME: GMPT Bay City

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

| SEQ: No. | DATE | TIME | | SAMPLE TYPE | No. OF CONTAINERS | PARAMETERS: PUBS | REMARKS |
|---|---|---|---|---|---|---|---|
| 29 | 7/15/97 | | S-3938-970715-SSH-126 | Soil | 1 | X | TAT - Bay City |
| 30 | | | -127 | | 1 | X | |
| 31 | | | -128 | | 1 | X | |
| 32 | | | -129 | | 1 | X | |
| 33 | | | -130 | | 1 | X | |
| 34 | | | -131 | | 1 | X | |
| 35 | | | -132 | | 1 | X | |
| 36 | | | -133 | | 1 | X | |
| 37 | | | -134 | | 1 | X | |
| 38 | | | -135 | | 1 | X | |
| 39 | | | -136 | | 1 | X | |
| 40 | | | -137 | | 1 | X | |
| 41 | | | -138 | | 1 | X | |
| 42 | | | S-3938-970715-SSH-139 | | 1 | X | |
| TOTAL NUMBER OF CONTAINERS | | | | | 14 | | |

| | | | |
|---|---|---|---|
| RELINQUISHED BY: 1. Steven S. Hoevenaar | DATE: 7/16/97 TIME: 1600 | RECEIVED BY: 1. | DATE: TIME: |
| RELINQUISHED BY: 2. | DATE: TIME: | RECEIVED BY: 2. | DATE: TIME: |
| RELINQUISHED BY: 3. | DATE: TIME: | RECEIVED BY: 1. | DATE: TIME: |

METHOD OF SHIPMENT: FedEx AIR BILL No.

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

4174

SAMPLE TEAM: SSH

RECEIVED FOR LABORATORY BY:

DATE: TIME:

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

REC'D CRA
AUG - 5 1997
SDG#6 (3 of 4)

Columbia Analytical Services, Inc.

August 2, 1997

Service Request No: K9704960

Pieter Booth
PTI Environmental Services, Inc.
15375 SE 30th Place, Suite 250
Bellevue, WA 98007

**Re: GMPT Bay City/C690-1301**

Dear Pieter:

Enclosed are the results of the sample(s) submitted to our laboratory on July 16, 1997. Preliminary results were transmitted via facsimile on July 30, 1997. For your reference, these analyses have been assigned our service request number K9704960.

Additional calibration data associated with these samples was previously sent in K9704957.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions. My extension is 246.

Respectfully submitted,

**Columbia Analytical Services, Inc.**

Abbie Spielman
Client Services Manager

AS/td

cc: Paul Wiseman (CRA/Romulus, MI)

ORIGINAL ANALYTICAL REPORT
Project #: 3928-58 Lab #: K9704960
Name: GMPT - Bay City
Description
Event:
Samples: 695011 - 137-157
Analysis: PCB
TAT:
Lab: CAS
Checked Against Preliminary Data:
Date:
Date of Validation Memo:
Invoice Approval Date:
Comments:

## Acronyms

| | |
|---|---|
| ASTM | American Society for Testing and Materials |
| A2LA | American Association for Laboratory Accreditation |
| CARB | California Air Resources Board |
| CAS Number | Chemical Abstract Service registry Number |
| CFC | Chlorofluorocarbon |
| CFU | Colony-Forming Unit |
| DEC | Department of Environmental Conservation |
| DEQ | Department of Environmental Quality |
| DHS | Department of Health Services |
| DOE | Department of Ecology |
| DOH | Department of Health |
| EPA | U. S. Environmental Protection Agency |
| ELAP | Environmental Laboratory Accreditation Program |
| GC | Gas Chromatography |
| GC/MS | Gas Chromatography/Mass Spectrometry |
| J | Estimated concentration. The value is less than the method reporting limit, but greater than the method detection limit. |
| LUFT | Leaking Underground Fuel Tank |
| M | Modified |
| MCL | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL | Method Detection Limit |
| MPN | Most Probable Number |
| MRL | Method Reporting Limit |
| NA | Not Applicable |
| NAN | Not Analyzed |
| NC | Not Calculated |
| NCASI | National Council of the Paper Industry for Air and Stream Improvement |
| ND | Not Detected at or above the MRL |
| NIOSH | National Institute for Occupational Safety and Health |
| PQL | Practical Quantitation Limit |
| RCRA | Resource Conservation and Recovery Act |
| SIM | Selected Ion Monitoring |
| TPH | Total Petroleum Hydrocarbons |
| tr | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL. |

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704960
**Date Collected:** 7/15/97
**Date Received:** 7/16/97

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: NA

| Sample Name | Lab Code | Date Analyzed | Result | Result Notes |
|---|---|---|---|---|
| S-3938-970715-SSH-138 | K9704960-001 | 7/16/97 | 89.7 | |
| S-3938-970715-SSH-139 | K9704960-002 | 7/16/97 | 92.9 | |
| S-3938-970715-SSH-140 | K9704960-003 | 7/16/97 | 92.8 | |
| S-3938-970715-SSH-141 | K9704960-004 | 7/16/97 | 91.3 | |
| S-3938-970715-SSH-142 | K9704960-005 | 7/16/97 | 99.1 | |
| S-3938-970715-SSH-143 | K9704960-006 | 7/16/97 | 94.5 | |
| S-3938-970715-SSH-144 | K9704960-007 | 7/16/97 | 88.5 | |
| S-3938-970715-SSH-145 | K9704960-008 | 7/16/97 | 90.9 | |
| S-3938-970715-SSH-146 | K9704960-009 | 7/16/97 | 87.2 | |
| S-3938-970715-SSH-147 | K9704960-010 | 7/16/97 | 89.2 | |
| S-3938-970715-SSH-148 | K9704960-011 | 7/16/97 | 83.4 | |
| S-3938-970715-SSH-149 | K9704960-012 | 7/16/97 | 89.0 | |
| S-3938-970715-SSH-150 | K9704960-013 | 7/16/97 | 99.6 | |
| S-3938-970715-SSH-151 | K9704960-014 | 7/16/97 | 98.4 | |
| S-3938-970715-SSH-152 | K9704960-015 | 7/16/97 | 89.5 | |
| S-3938-970715-SSH-153 | K9704960-016 | 7/16/97 | 97.0 | |
| S-3938-970715-SSH-154 | K9704960-017 | 7/16/97 | 89.5 | |
| S-3938-970715-SSH-155 | K9704960-018 | 7/16/97 | 88.3 | |
| S-3938-970715-SSH-156 | K9704960-019 | 7/16/97 | 91.8 | |
| S-3938-970715-SSH-157 | K9704960-020 | 7/16/97 | 97.7 | |

Approved By: _____ Date: 7/18/97

TSSample/021397a

**APPENDIX B**
**CHAIN OF CUSTODY**

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services. Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704960
**Date Collected:** 7/15/97
**Date Received:** 7/16/97
**Date Extracted:** 7/21/97

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-138 | S-3938-970715-SSH-139 | S-3938-970715-SSH-140 |
|---|---|---|---|---|
| Sample Name: | | S-3938-970715-SSH-138 | S-3938-970715-SSH-139 | S-3938-970715-SSH-140 |
| Lab Code: | | K9704960-001 | K9704960-002 | K9704960-003 |
| Date Analyzed: | | 7/24/97 | 7/24/97 | 7/24/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | ND | 12 | 10 |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: RM Date: 072997

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704960
**Date Collected:** 7/15/97
**Date Received:** 7/16/97
**Date Extracted:** 7/21/97

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-141 | S-3938-970715-SSH-142 | S-3938-970715-SSH-143 |
|---|---|---|---|---|
| Sample Name: | | S-3938-970715-SSH-141 | S-3938-970715-SSH-142 | S-3938-970715-SSH-143 |
| Lab Code: | | K9704960-004 | K9704960-005 | K9704960-006 |
| Date Analyzed: | | 7/24/97 | 7/24/97 | 7/24/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 12 | 7 | 2 |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: PM Date: 072997

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704960
**Date Collected:** 7/15/97
**Date Received:** 7/16/97
**Date Extracted:** 7/21/97

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-144 | S-3938-970715-SSH-145 | S-3938-970715-SSH-146 |
|---|---|---|---|---|
| Sample Name: | | S-3938-970715-SSH-144 | S-3938-970715-SSH-145 | S-3938-970715-SSH-146 |
| Lab Code: | | K9704960-007 | K9704960-008 | K9704960-009 |
| Date Analyzed: | | 7/24/97 | 7/24/97 | 7/24/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 9 | 34 | 6 |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: RM Date: 072997

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services. Inc. | **Service Request:** | K9704960 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/15/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/16/97 |
| | | **Date Extracted:** | 7/21/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-147 | S-3938-970715-SSH-148 | S-3938-970715-SSH-149 |
|---|---|---|---|---|
| Sample Name: | | | | |
| Lab Code: | | K9704960-010 | K9704960-011 | K9704960-012 |
| Date Analyzed: | | 7/24/97 | 7/24/97 | 7/24/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 7 | 8 | 12 |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: PM Date: 072997

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704960 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/15/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/16/97 |
| | | **Date Extracted:** | 7/21/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-150 | S-3938-970715-SSH-151 | S-3938-970715-SSH-152 |
|---|---|---|---|---|
| Sample Name: | | | | |
| Lab Code: | | K9704960-013 | K9704960-014 | K9704960-015 |
| Date Analyzed: | | 7/24/97 | 7/24/97 | 7/24/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 5 | 50 | 17 |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: PM Date: 072997

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704960
**Date Collected:** 7/15/97
**Date Received:** 7/16/97
**Date Extracted:** 7/21/97

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-153 | S-3938-970715-SSH-154 | S-3938-970715-SSH-155 |
|---|---|---|---|---|
| Sample Name: | | | | |
| Lab Code: | | K9704960-016 | K9704960-017 | K9704960-018 |
| Date Analyzed: | | 7/24/97 | 7/25/97 | 7/25/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 9 | 14 | 5 |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: PM Date: 072997

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704960 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/15/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/16/97 |
| | | **Date Extracted:** | 7/21/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-156 | S-3938-970715-SSH-157 | Method Blank |
|---|---|---|---|---|
| Sample Name: | | S-3938-970715-SSH-156 | S-3938-970715-SSH-157 | Method Blank |
| Lab Code: | | K9704960-019 | K9704960-020 | K970721-MB |
| Date Analyzed: | | 7/25/97 | 7/25/97 | 7/24/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 1 | 3 | ND |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: PM Date: 072997

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704960
**Date Collected:** 7/15/97
**Date Received:** 7/16/97

Duplicate Summary

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: NA

| Sample Name | Lab Code | Date Analyzed | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---|---|---|---|---|---|---|---|
| S-3938-970715-SSH-138 | K9704960-001DUP | 7/16/97 | 89.7 | 88.5 | 89.1 | 1 | |

Approved By: _____ Date: 8/1/97

TSDup/021397a

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704960
**Date Collected:** 7/15/97
**Date Received:** 7/16/97
**Date Extracted:** 7/21/97
**Date Analyzed:** 7/24-25/97

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A

| Sample Name | Lab Code | Percent Recovery Decachlorobiphenyl |
|---|---|---|
| S-3938-970715-SSH-138 | K9704960-001 | 99 |
| S-3938-970715-SSH-139 | K9704960-002 | 98 |
| S-3938-970715-SSH-140 | K9704960-003 | 94 |
| S-3938-970715-SSH-141 | K9704960-004 | 108 |
| S-3938-970715-SSH-142 | K9704960-005 | 98 |
| S-3938-970715-SSH-143 | K9704960-006 | 80 |
| S-3938-970715-SSH-144 | K9704960-007 | 110 |
| S-3938-970715-SSH-145 | K9704960-008 | 97 |
| S-3938-970715-SSH-146 | K9704960-009 | 96 |
| S-3938-970715-SSH-147 | K9704960-010 | 102 |
| S-3938-970715-SSH-148 | K9704960-011 | 101 |
| S-3938-970715-SSH-149 | K9704960-012 | 106 |
| S-3938-970715-SSH-150 | K9704960-013 | 98 |
| S-3938-970715-SSH-151 | K9704960-014 | 98 |
| S-3938-970715-SSH-152 | K9704960-015 | 109 |
| S-3938-970715-SSH-153 | K9704960-016 | 108 |
| S-3938-970715-SSH-154 | K9704960-017 | 109 |
| S-3938-970715-SSH-155 | K9704960-018 | 102 |
| S-3938-970715-SSH-156 | K9704960-019 | 99 |
| S-3938-970715-SSH-157 | K9704960-020 | 97 |
| S-3938-970715-SSH-142 | K9704960-005MS | 87 |
| S-3938-970715-SSH-142 | K9704960-005DMS | 91 |
| Lab Control Sample | K970721-LCS | 90 |
| Method Blank | K970721-MB | 90 |

CAS Acceptance Limits: 54-144

Approved By: PM Date: 072997

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704960
**Date Collected:** 7/15/97
**Date Received:** 7/16/97
**Date Extracted:** 7/21/97
**Date Analyzed:** 7/24/97

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

Sample Name: S-3938-970715-SSH-142
Lab Code: K9704960-005MS, K9704960-005DMS

| | Spike Level | | Sample | Spike Result | | Percent Recovery | | CAS Acceptance | Relative Percent |
|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | MS | DMS | **Result** | MS | DMS | MS | DMS | Limits | **Difference** |
| Aroclor 1254 | 4.0 | 3.9 | ND | 5.2 | 3.7 | 130 | 95 | 42-142 | 31 |

Approved By: PM Date: 072997

DMS1S/120594
04960SVG.JJ1 - DMS1S 7/29/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**LCS Matrix:** Soil

**Service Request:** K9704960
**Date Collected:** NA
**Date Received:** NA
**Date Extracted:** 7/21/97
**Date Analyzed:** 7/24/97

Laboratory Control Sample Summary
Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)

| Analyte | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits |
|---|---|---|---|---|
| Aroclor 1254 | 3.8 | 3.7 | 97 | 59-130 |

Approved By: PM Date: 072997

LCS/121594

04960SVG.JJ1 - LCS 7/29/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301

**Service Request:** K9704960
**Calibration Date:** 7/16/97
**Date Analyzed:** 7/24-25/97

Continuing Calibration Verification (CCV) Summary
Polychlorinated Biphenyls (PCBs)
EPA Method 8080A
Units: µg/mL (ppm)

| Analyte | True Value | CCV1 Result | Percent Recovery | CCV2 Result | Percent Recovery | CCV3 Result | Percent Recovery | CCV4 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1248 | 1.0 | 0.9 | 90 | 0.9 | 90 | 1.0 | 100 | 1.0 | 100 |

Approved By: RM Date: 072997

CCV 1-4/042795

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services. Inc.
**Project:** GMPT Bay City/C690-1301

**Service Request:** K9704960
**Calibration Date:** 7/16/97
**Date Analyzed:** 7/24-25/97

Continuing Calibration Blank (CCB) Summary
Polychlorinated Biphenyls (PCBs)
EPA Method 8080A
Units: µg/mL (ppm)

| Analyte | MRL | CCB1 Result | CCB2 Result | CCB3 Result | CCB4 Result |
|---|---|---|---|---|---|
| Aroclor 1016 | 1 | ND | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND | ND |
| Aroclor 1248 | 1 | ND | ND | ND | ND |
| Aroclor 1254 | 1 | ND | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND | ND |

Approved By: RM Date: 072997

CCB4SMRL/120594

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

# CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Columbia Analytical Services

REFERENCE NUMBER: 3938-58

PROJECT NAME: GMPT Bay City

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

| SEQ: No. | DATE | TIME | | SAMPLE TYPE | No. OF CONTAINERS | PARAMETERS: PCBs | REMARKS |
|---|---|---|---|---|---|---|---|
| 43 | 7/15/97 | | S-3938-970715-SSH-140 | Soil | 1 | X | TAT-24hrs |
| 44 | | | -141 | | 1 | X | |
| 45 | | | -142 | | 1 | X | |
| 46 | | | -143 | | 1 | X | |
| 47 | | | -144 | | 1 | X | |
| 48 | | | -145 | | 1 | X | |
| 49 | | | -146 | | 1 | X | |
| 50 | | | -147 | | 1 | X | |
| 51 | | | -148 | | 1 | X | |
| 52 | | | -149 | | 1 | X | |
| 53 | | | -150 | | 1 | X | |
| 54 | | | -151 | | 1 | X | |
| 55 | | | -152 | | 1 | X | |
| 56 | | | S-3938-970715-SSH-153 | | 1 | X | |
| | | | TOTAL NUMBER OF CONTAINERS | | 14 | | |

| RELINQUISHED BY: | DATE: 7/15/97 TIME: 1600 | RECEIVED BY: | DATE: TIME: |
|---|---|---|---|
| 1. Steven S. Hoewemeyer | | 1. | |
| RELINQUISHED BY: | DATE: TIME: | RECEIVED BY: | DATE: TIME: |
| 2. | | 2. | |
| RELINQUISHED BY: | DATE: TIME: | RECEIVED BY: | DATE: TIME: |
| 3. | | 1. | |

METHOD OF SHIPMENT: FedEx AIR BILL No.

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

4177

SAMPLE TEAM: SSH

RECEIVED FOR LABORATORY BY:

DATE: TIME:

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

2054

00019

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

# CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Columbia Analytical Services

REFERENCE NUMBER: 3938-58

PROJECT NAME: GMPT Bay City

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

| SEQ: No. | DATE | TIME | | SAMPLE TYPE | No. OF CONTAINERS | PARAMETERS: PCBs | REMARKS |
|---|---|---|---|---|---|---|---|
| 57 | 7/15/97 | | S-3938-970715-SSH-154 | Soil | 1 | X | TAT - 24 hrs |
| 58 | | | -155 | | 1 | X | |
| 59 | | | -156 | | 1 | X | |
| 60 | | | -157 | | 1 | X | |
| 61 | | | -158 | | 1 | X | |
| 62 | | | -159 | | 1 | X | |
| 63 | | | -160 | | 1 | X | |
| 64 | | | -161 | | 1 | X | |
| 65 | | | -162 | | 1 | X | |
| 66 | | | -163 | | 1 | X | |
| 67 | | | -164 | | 1 | X | |
| 68 | | | -165 | | 1 | X | |
| 69 | | | S-3938-970715-SSH-166 | | 1 | X | |
| | | | | | | | |
| | | | TOTAL NUMBER OF CONTAINERS | | 13 | | |

| | | | |
|---|---|---|---|
| RELINQUISHED BY: 1. Steven S. Hoversten | DATE: / TIME: | RECEIVED BY: 1. | DATE: / TIME: |
| RELINQUISHED BY: 2. | DATE: / TIME: | RECEIVED BY: 2. | DATE: / TIME: |
| RELINQUISHED BY: 3. | DATE: / TIME: | RECEIVED BY: 1. | DATE: / TIME: |

METHOD OF SHIPMENT: FedEx AIR BILL No.

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

1178

SAMPLE TEAM: SSH

RECEIVED FOR LABORATORY BY:

DATE: TIME:

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

REC'D C
AUG - 8 19
SDG#6 (944)

Columbia Analytical Services inc.

August 5, 1997 Service Request No: K9704961

Pieter Booth
PTI Environmental Services, Inc.
15375 SE 30th Place, Suite 250
Bellevue, WA 98007

**Re: GMPT Bay City/C690-1301**

Dear Pieter:

Enclosed are the results of the sample(s) submitted to our laboratory on July 16, 1997. Preliminary results were transmitted via facsimile on July 31, 1997. For your reference, these analyses have been assigned our service request number K9704961.

Additional calibration data associated with these samples can be found with K9704957.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions. My extension is 246.

Respectfully submitted,

**Columbia Analytical Services, Inc.**

Abbie Spielman
Client Services Manager

AS/td

cc: Paul Wiseman (CRA/Romulus, MI)

[illegible] 3938-58 Lab #: K9704961
Name: GmpT - Bay City
[illegible]
Event:
Samples: (69-Soil) # 158-166
Analysis: PCB

TAT:
Lab: CAS
Checked Against Preliminary Data:
Date: Init.:
Date of Validation: Init.:
[illegible]
Comments:

## Acronyms

| | |
|---|---|
| ASTM | American Society for Testing and Materials |
| A2LA | American Association for Laboratory Accreditation |
| CARB | California Air Resources Board |
| CAS Number | Chemical Abstract Service registry Number |
| CFC | Chlorofluorocarbon |
| CFU | Colony-Forming Unit |
| DEC | Department of Environmental Conservation |
| DEQ | Department of Environmental Quality |
| DHS | Department of Health Services |
| DOE | Department of Ecology |
| DOH | Department of Health |
| EPA | U. S. Environmental Protection Agency |
| ELAP | Environmental Laboratory Accreditation Program |
| GC | Gas Chromatography |
| GC/MS | Gas Chromatography/Mass Spectrometry |
| J | Estimated concentration. The value is less than the method reporting limit, but greater than the method detection limit. |
| LUFT | Leaking Underground Fuel Tank |
| M | Modified |
| MCL | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL | Method Detection Limit |
| MPN | Most Probable Number |
| MRL | Method Reporting Limit |
| NA | Not Applicable |
| NAN | Not Analyzed |
| NC | Not Calculated |
| NCASI | National Council of the Paper Industry for Air and Stream Improvement |
| ND | Not Detected at or above the MRL |
| NIOSH | National Institute for Occupational Safety and Health |
| PQL | Practical Quantitation Limit |
| RCRA | Resource Conservation and Recovery Act |
| SIM | Selected Ion Monitoring |
| TPH | Total Petroleum Hydrocarbons |
| tr | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL. |

## COLUMBIA ANALYTICAL SERVICES, INC.

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request No.:** | K9704961 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Received:** | 7/16/97 |
| **Sample Matrix:** | Soil | | |

## CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for sample(s) designated for Tier III data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Matrix/Duplicate Matrix Spike (MS/DMS), Laboratory Control Sample (LCS), Initial Continuing Calibration Verification Standards (ICV/CCV), and Initial Continuing Calibration Blanks (ICB/CCB).

All EPA recommended holding times have been met for analyses in this sample delivery group.

The following difficulties were experienced during analysis of this batch:

The Matrix Spike/Duplicate Matrix Spike (MS/DMS) recoveries of Aroclor 1254 for sample S-3938-970715-SSH-164 were not calculated. The sample contained matrix interference's from target analytes (Aroclor 1248) that prevented adequate resolution of the spike. No further corrective action was taken.

**Approved by** Alli Spielman **Date** 8/5/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704961
**Date Collected:** 7/15/97
**Date Received:** 7/16/97

### Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: NA

| Sample Name | Lab Code | Date Analyzed | Result | Result Notes |
|---|---|---|---|---|
| S-3938-970715-SSH-158 | K9704961-001 | 7/16/97 | 95.4 | |
| S-3938-970715-SSH-159 | K9704961-002 | 7/16/97 | 95.8 | |
| S-3938-970715-SSH-160 | K9704961-003 | 7/16/97 | 86.8 | |
| S-3938-970715-SSH-161 | K9704961-004 | 7/16/97 | 92.8 | |
| S-3938-970715-SSH-162 | K9704961-005 | 7/16/97 | 94.3 | |
| S-3938-970715-SSH-163 | K9704961-006 | 7/16/97 | 95.6 | |
| S-3938-970715-SSH-164 | K9704961-007 | 7/16/97 | 96.4 | |
| S-3938-970715-SSH-165 | K9704961-008 | 7/16/97 | 96.9 | |
| S-3938-970715-SSH-166 | K9704961-009 | 7/16/97 | 77.4 | |

Approved By: _____ Date: 7/18/97

TSSample/021397a

00004

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704961 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/15/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/16/97 |
| | | **Date Extracted:** | 7/22/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-158 | S-3938-970715-SSH-159 | S-3938-970715-SSH-160 |
|---|---|---|---|---|
| Sample Name: | | S-3938-970715-SSH-158 | S-3938-970715-SSH-159 | S-3938-970715-SSH-160 |
| Lab Code: | | K9704961-001(D) | K9704961-002 | K9704961-003 |
| Date Analyzed: | | 7/29/97 | 7/29/97 | 7/29/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | <10 | ND | ND |
| Aroclor 1221 | 1 | <10 | ND | ND |
| Aroclor 1232 | 1 | <10 | ND | ND |
| Aroclor 1242 | 1 | <10 | ND | ND |
| Aroclor 1248 | 1 | 110 | 5 | 4 |
| Aroclor 1254 | 1 | <10 | ND | ND |
| Aroclor 1260 | 1 | <10 | ND | ND |

D The MRL is elevated because of matrix interferences and because the sample required diluting.

Approved By: _____ Date: 7/31/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704961 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/15/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/16/97 |
| | | **Date Extracted:** | 7/22/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | S-3938-970715-SSH-161 | S-3938-970715-SSH-162 | S-3938-970715-SSH-163 |
|---|---|---|---|---|
| Sample Name: | | S-3938-970715-SSH-161 | S-3938-970715-SSH-162 | S-3938-970715-SSH-163 |
| Lab Code: | | K9704961-004 | K9704961-005 | K9704961-006 |
| Date Analyzed: | | 7/29/97 | 7/29/97 | 7/29/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 29 | 1 | 2 |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: _____ Date: 7/31/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704961 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/15/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/16/97 |
| | | **Date Extracted:** | 7/22/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | | **S-3938-970715-** | **S-3938-970715-** | **S-3938-970715-** |
|---|---|---|---|---|
| | Sample Name: | **SSH-164** | **SSH-165** | **SSH-166** |
| | Lab Code: | K9704961-007 | K9704961-008 | K9704961-009 |
| | Date Analyzed: | 7/29/97 | 7/29/97 | 7/29/97 |
| **Analyte** | **MRL** | | | |
| Aroclor 1016 | 1 | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND |
| Aroclor 1248 | 1 | 84 | 1 | 25 |
| Aroclor 1254 | 1 | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND |

Approved By: _____ Date: 7/31/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704961 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | NA |
| **Sample Matrix:** | Soil | **Date Received:** | NA |
| | | **Date Extracted:** | 7/22/97 |

Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

| | |
|---|---|
| Sample Name: | **Method Blank** |
| Lab Code: | K970722-SB |
| Date Analyzed: | 7/29/97 |

| **Analyte** | **MRL** | |
|---|---|---|
| Aroclor 1016 | 1 | ND |
| Aroclor 1221 | 1 | ND |
| Aroclor 1232 | 1 | ND |
| Aroclor 1242 | 1 | ND |
| Aroclor 1248 | 1 | ND |
| Aroclor 1254 | 1 | ND |
| Aroclor 1260 | 1 | ND |

Approved By: _____ Date: 7/31/97

# APPENDIX A
# LABORATORY QA/QC RESULTS

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704961
**Date Collected:** 7/15/97
**Date Received:** 7/16/97

Duplicate Summary

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: NA

| Sample Name | Lab Code | Date Analyzed | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference | Result Notes |
|---|---|---|---|---|---|---|---|
| S-3938-970715-SSH-158 | K9704961-001DUP | 7/16/97 | 95.4 | 95.6 | 95.5 | <1 | |

Approved By: _____ Date: 7/18/97

00010

TSDup/021397a

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9704961
**Date Collected:** 7/15/97
**Date Received:** 7/16/97
**Date Extracted:** 7/22/97
**Date Analyzed:** 7/29/97

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A

| Sample Name | Lab Code | Percent Recovery Decachlorobiphenyl |
|---|---|---|
| S-3938-970715-SSH-158 | K9704961-001 | 127 |
| S-3938-970715-SSH-159 | K9704961-002 | 128 |
| S-3938-970715-SSH-160 | K9704961-003 | 123 |
| S-3938-970715-SSH-161 | K9704961-004 | 137 |
| S-3938-970715-SSH-162 | K9704961-005 | 128 |
| S-3938-970715-SSH-163 | K9704961-006 | 122 |
| S-3938-970715-SSH-164 | K9704961-007 | 125 |
| S-3938-970715-SSH-165 | K9704961-008 | 111 |
| S-3938-970715-SSH-166 | K9704961-009 | 118 |
| S-3938-970715-SSH-164 | K9704961-007MS | 121 |
| S-3938-970715-SSH-164 | K9704961-007DMS | 119 |
| Lab Control Sample | K970722-SL | 129 |
| Method Blank | K970722-SB | 126 |

CAS Acceptance Limits: 54-144

Approved By: _____ Date: 7/31/97

00011

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704961 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/15/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/16/97 |
| | | **Date Extracted:** | 7/22/97 |
| | | **Date Analyzed:** | 7/29/97 |

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)
Dry Weight Basis

Sample Name: S-3938-970715-SSH-164
Lab Code: K9704961-007MS, K9704961-007DMS

| | Spike Level | | Sample | Spike Result | | Percent Recovery | | CAS Acceptance | Relative Percent |
|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | MS | DMS | **Result** | MS | DMS | MS | DMS | Limits | **Difference** |
| Aroclor 1254 | 4.0 | 4.1 | ND | NA | NA | NC | NC | 42-142 | - |

NA Not Applicable; see case narrative.

Approved By: _____ Date: 7/31/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9704961 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | NA |
| **LCS Matrix:** | Soil | **Date Received:** | NA |
| | | **Date Extracted:** | 7/22/97 |
| | | **Date Analyzed:** | 7/29/97 |

Laboratory Control Sample Summary
Polychlorinated Biphenyls (PCBs)
EPA Methods 3540B/8080A
Units: mg/Kg (ppm)

| Analyte | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits |
|---|---|---|---|---|
| Aroclor 1254 | 3.9 | 4.5 | 115 | 59-130 |

Approved By: _____ Date: 7/31/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301

**Service Request:** K9704961
**Calibration Date:** 7/16/97
**Date Analyzed:** 7/29/97

Continuing Calibration Blank (CCB) Summary
Polychlorinated Biphenyls (PCBs)
EPA Method 8080A
Units: µg/mL (ppm)

| Analyte | MRL | CCB1 Result | CCB2 Result | CCB3 Result | CCB4 Result |
|---|---|---|---|---|---|
| Aroclor 1016 | 1 | ND | ND | ND | ND |
| Aroclor 1221 | 1 | ND | ND | ND | ND |
| Aroclor 1232 | 1 | ND | ND | ND | ND |
| Aroclor 1242 | 1 | ND | ND | ND | ND |
| Aroclor 1248 | 1 | ND | ND | ND | ND |
| Aroclor 1254 | 1 | ND | ND | ND | ND |
| Aroclor 1260 | 1 | ND | ND | ND | ND |

Approved By: _____ Date: 7/31/97

CCB4SMRL/120594

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301

**Service Request:** K9704961
**Calibration Date:** 7/16/97
**Date Analyzed:** 7/29-30/97

Continuing Calibration Verification (CCV) Summary
Polychlorinated Biphenyls (PCBs)
EPA Method 8080A
Units: µg/mL (ppm)

| Analyte | True Value | CCV1 Result | Percent Recovery | CCV2 Result | Percent Recovery | CCV3 Result | Percent Recovery | CCV4 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1248 | 1.0 | 1.0 | 100 | 1.0 | 100 | 1.1 | 110 | 1.1 | 110 |

Approved By: _____ Date: 7/31/97

**APPENDIX B**
**CHAIN OF CUSTODY**

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

SHIPPED TO (Laboratory Name): Columbia Analytical Services (970496)

REFERENCE NUMBER: 3938-58

PROJECT NAME: GMPT Bay City

00017

# CHAIN OF CUSTODY RECORD

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

| SEQ: No. | DATE | TIME | | SAMPLE TYPE | No. OF CONTAINERS | PARAMETERS: PCBs | REMARKS |
|---|---|---|---|---|---|---|---|
| 57 | 7/15/97 | | S-3938-970715-SSH-154 | Soil | 1 | X | TAT - 24 hrs |
| 58 | | | -155 | | 1 | X | |
| 59 | | | -156 | | 1 | X | |
| 60 | | | -157 | | 1 | X | |
| 61 | | | -158 | | 1 | X | |
| 62 | | | -159 | | 1 | X | |
| 63 | | | -160 | | 1 | X | |
| 64 | | | -161 | | 1 | X | |
| 65 | | | -162 | | 1 | X | |
| 66 | | | -163 | | 1 | X | |
| 67 | | | -164 | | 1 | X | |
| 68 | | | -165 | | 1 | X | |
| 69 | | | S-3938-970715-SSH-166 | | 1 | X | |
| | | | TOTAL NUMBER OF CONTAINERS | | 13 | | |

| | | | |
|---|---|---|---|
| RELINQUISHED BY: 1. Steven S. Hoevemeyer | DATE: / TIME: | RECEIVED BY: 1. | DATE: / TIME: |
| RELINQUISHED BY: 2. | DATE: / TIME: | RECEIVED BY: 2. | DATE: / TIME: |
| RELINQUISHED BY: 3. | DATE: / TIME: | RECEIVED BY: 1. | DATE: / TIME: |

METHOD OF SHIPMENT: FedEx AIR BILL No.

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

4178

SAMPLE TEAM: SSH

RECEIVED FOR LABORATORY BY:

DATE: 7/16 TIME: 1020

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

REC'D C[illegible]
JU[illegible]8
SDG # 7

Columbia Analytical Services, Inc.

July 24, 1997

Service Request No: K9705000

Pieter Booth
PTI Environmental Services, Inc.
15375 SE 30th Place, Suite 250
Bellevue, WA 98007

**Re: GMPT Bay City/C690-1301**

Dear Pieter:

Enclosed are the results of the rush sample(s) submitted to our laboratory on July 17, 1997. Preliminary results were transmitted via facsimile on July 18 and July 21, 1997. For your reference, these analyses have been assigned our service request number K9705000.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions. My extension is 246.

Respectfully submitted,

**Columbia Analytical Services, Inc.**

Abbie Spielman
Client Services Manager

AS/td

cc: Paul Wiseman (CRA, MI)

**ORIGINAL ANALYTICAL REPORT**

P[illegible]: 3938 Lab #: K9705000

N[illegible]: GMPT-Bay City

[illegible]:

Sa[illegible]: 3-Soil

An[illegible]: lead

TAT: 24hr=metG

Lab: Page 1 of CAS 159

Ch[illegible] A[illegible] Preliminary Data:

Date: Init.:

Date of Validation Memo:

I[illegible] Approval Date:

Comments:

## Acronyms

| | |
|---|---|
| ASTM | American Society for Testing and Materials |
| A2LA | American Association for Laboratory Accreditation |
| CARB | California Air Resources Board |
| CAS Number | Chemical Abstract Service registry Number |
| CFC | Chlorofluorocarbon |
| CFU | Colony-Forming Unit |
| DEC | Department of Environmental Conservation |
| DEQ | Department of Environmental Quality |
| DHS | Department of Health Services |
| DOE | Department of Ecology |
| DOH | Department of Health |
| EPA | U. S. Environmental Protection Agency |
| ELAP | Environmental Laboratory Accreditation Program |
| GC | Gas Chromatography |
| GC/MS | Gas Chromatography/Mass Spectrometry |
| J | Estimated concentration. The value is less than the method reporting limit, but greater than the method detection limit. |
| LUFT | Leaking Underground Fuel Tank |
| M | Modified |
| MCL | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL | Method Detection Limit |
| MPN | Most Probable Number |
| MRL | Method Reporting Limit |
| NA | Not Applicable |
| NAN | Not Analyzed |
| NC | Not Calculated |
| NCASI | National Council of the Paper Industry for Air and Stream Improvement |
| ND | Not Detected at or above the MRL |
| NIOSH | National Institute for Occupational Safety and Health |
| PQL | Practical Quantitation Limit |
| RCRA | Resource Conservation and Recovery Act |
| SIM | Selected Ion Monitoring |
| TPH | Total Petroleum Hydrocarbons |
| tr | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL. |

## COLUMBIA ANALYTICAL SERVICES, INC.

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request No.:** | K9705000 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Received:** | 7/17/97 |
| **Sample Matrix:** | Soil | | |

## CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for sample(s) designated for Tier III data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Additional quality control analyses reported herein include: Laboratory Duplicate (DUP), Matrix Spike (MS), Laboratory Control Sample (LCS), Initial Continuing Calibration Verification Standards (ICV/CCV), and Initial Continuing Calibration Blanks (ICB/CCB).

All EPA recommended holding times have been met for analyses in this sample delivery group.

The following difficulties were experienced during analysis of this batch:

The Relative Percent Difference (RPD) for the replicate analysis of Lead in sample S-3938-970716-SSH-167 was outside the normal CAS control limits due to the heterogeneous character of the sample. The sample was redigested and reanalyzed with similar results.

The Matrix Spike (MS) recovery of Lead for sample S-3938-970716-SSH-167 was not calculated. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

The Matrix Spike (MS) recovery of SPLP/Lead for sample S-3938-970716-SSH-167 was not calculated. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

**Approved by** _____ **Date** 7/25/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9705000 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/16/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/17/97 |
| | | **Date Extracted:** | NA |
| | | **Date Analyzed:** | 7/18/97 |

Solids, Total
EPA Method 160.3 Modified
Units: Percent (%)

| Sample Name | Lab Code | Result |
|---|---|---|
| S-3938-97016-SSH-167 | K9705000-001 | 77.3 |
| S-3938-97016-SSH-168 | K9705000-002 | 83.3 |
| S-3938-97016-SSH-169 | K9705000-003 | 75.0 |

Approved By: _____ Date: 7/25/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9705000
**Date Collected:** 7/16/97
**Date Received:** 7/17/97
**Date Extracted:** 7/17/97
**Date Analyzed:** 7/18/97

Total Lead
EPA Method 200.8
Units: mg/Kg (ppm)
Dry Weight Basis

| Sample Name | Lab Code | MRL | Result |
|---|---|---|---|
| S-3938-97016-SSH-167 | K9705000-001 | 1 | 185 |
| S-3938-97016-SSH-168 | K9705000-002 | 1 | 51.2 |
| S-3938-97016-SSH-169 | K9705000-003 | 1 | 524 |
| Method Blank | K9705000-MB | 1 | ND |

Approved By: _____ Date: 7/22/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9705000 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/16/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/17/97 |
| | | **Date Extracted:** | 7/18/97 |
| | | **Date Analyzed:** | 7/21/97 |

Synthetic Precipitation Leaching Procedure (SPLP)
Lead, SPLP
EPA Method 1312/200.8
SPLP Metals
Units: mg/L (ppm) in SPLP Extract

| Sample Name | Lab Code | MRL | Result |
|---|---|---|---|
| S-3938-970716-SSH-167 | K9705000-001 | 0.002 | 0.093 |
| S-3938-970716-SSH-168 | K9705000-002 | 0.002 | 0.058 |
| S-3938-970716-SSH-169 | K9705000-003 | 0.002 | 0.126 |
| Method Blank | K9705000-MB | 0.002 | 0.002 |

Approved By: _____ Date: 7/28/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9705000
**Date Collected:** 7/16/97
**Date Received:** 7/17/97
**Date Extracted:** 7/17/97
**Date Analyzed:** 7/18/97

Duplicate Summary
Total Metals
Units: mg/Kg (ppm)
Dry Weight Basis

Sample Name: S-3938-970716-SSH-167
Lab Code: K9705000-001

| Analyte | EPA Method | MRL | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference |
|---|---|---|---|---|---|---|
| Lead | 200.8 | 1 | 185 | 136 | 160 | 31 |

Approved By: _____ Date: 7/25/97

00007

DUP1SEPA/102194
05000ICP.GJ1 - DUP 7/24/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9705000
**Date Collected:** 7/16/97
**Date Received:** 7/17/97
**Date Extracted:** 7/17/97
**Date Analyzed:** 7/18/97

Matrix Spike Summary
Total Metals
Units: mg/Kg (ppm)
Dry Weight Basis

Sample Name: S-3938-970716-SSH-167
Lab Code: K9705000-001

| Analyte | MRL | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery | CAS Percent Recovery Acceptance Limits |
|---|---|---|---|---|---|---|
| Lead | 1 | 65 | 185 | 300 | NA | 60-130 |

NA Not Applicable; see case narrative.

Approved By: _____ Date: 7/20/97

00008

MS1S/102194
05000ICP.GJ1 - Spike 7/24/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9705000 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | NA |
| **LCS Matrix:** | Soil | **Date Received:** | NA |
| | | **Date Analyzed:** | 7/18/97 |

Laboratory Control Sample Summary
Total Metals
Units: mg/Kg (ppm)

Source: ERA Priority Pollutant/CLP Inorganic Soils

| Analyte | EPA Method | Result | Control Limits |
|---|---|---|---|
| Lead | 200.8 | 123 | 82.7-160 |

Approved By: _____ Date: 7/21/97

00009

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301

**Service Request:** K9705000
**Date Analyzed:** 7/18/97

Initial Calibration Verification (ICV) Summary
Metals
Units: µg/L (ppb)

ICV Source: Inorganic Ventures ICV

| Analyte | EPA Method | True Value | Result | Percent Recovery |
|---|---|---|---|---|
| Lead | 200.8 | 50.0 | 52.6 | 103 |

Approved By: _____ Date: 7/21/97

00010

ICVEPA/102194
05000ICP.GJ1 - ICV 7/18/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301

**Service Request:** K9705000
**Date Analyzed:** 7/18/97

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV1 Result | Percent Recovery | CCV2 Result | Percent Recovery | CCV3 Result | Percent Recovery |
|---|---|---|---|---|---|---|---|---|
| Lead | 200.8 | 25.0 | 25.5 | 102 | 26.0 | 104 | 26.7 | 107 |

Approved By: _____ Date: 7/21/97

00011

CCV 1-3/042795
05000ICP.GJ1 - CCV 1-3 7/18/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9705000 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Analyzed:** | 7/18/97 |

Continuing Calibration Blank (CCB) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | MRL | CCB1 Result | CCB2 Result | CCB3 Result |
|---|---|---|---|---|---|
| Lead | 200.8 | 0.5 | ND | ND | ND |

Approved By: _____ Date: 7/21/97

CCB4SMRL/102194

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9705000 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | 7/16/97 |
| **Sample Matrix:** | Soil | **Date Received:** | 7/17/97 |
| | | **Date SPLP Performed:** | 7/17/97 |
| | | **Date Extracted:** | 7/18/97 |
| | | **Date Analyzed:** | 7/21/97 |

Matrix Spike Summary
Synthetic Precipitation Leaching Procedure (SPLP)
EPA Method 1312/200.8
SPLP Metals
Units: mg/L (ppm) in SPLP Extract

Sample Name: S-3938-970716-SSH-167
Lab Code: K9705000-001

| Analyte | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery* |
|---|---|---|---|---|
| Lead | 0.020 | 0.093 | 0.111 | NA |

* Percent recovery information is provided in order to assess the performance of the method on this matrix.
NA Not Applicable; see case narrative.

Approved By: _____ Date: 7/25/97

SPLPMS/102194
05000ICP.GJ2 - Spike 7/24/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9705000 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Collected:** | NA |
| **LCS Matrix:** | Water | **Date Received:** | NA |
| | | **Date Analyzed:** | 7/21/97 |

Laboratory Control Sample Summary
SPLP Metals
Units: mg/L (ppm)

Source: Inorganic Ventures

| Analyte | EPA Method | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits |
|---|---|---|---|---|---|
| Lead | 200.8 | 0.020 | 0.020 | 100 | 80-120 |

Approved By: _____ Date: 7/21/97

LCSEPA/102194
05000ICP.GJ2 - LCSW 7/21/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc. **Service Request:** K9705000
**Project:** GMPT Bay City/C690-1301 **Date Analyzed:** 7/21/97

Initial Calibration Verification (ICV) Summary
Metals
Units: µg/L (ppb)

ICV Source: Inorganic Ventures ICV

| Analyte | EPA Method | True Value | Result | Percent Recovery |
|---|---|---|---|---|
| Lead | 200.8 | 50.0 | 50.4 | 103 |

Approved By: _____ Date: 7/21/97

00015

ICVEPA/102194
05000ICP.GJ2 - ICV 7/21/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9705000 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Analyzed:** | 7/21/97 |

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV1 Result | Percent Recovery | CCV2 Result | Percent Recovery |
|---|---|---|---|---|---|---|
| Lead | 200.8 | 25.0 | 25.0 | 100 | 24.9 | 100 |

Approved By: _____ Date: 7/21/97

00016

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | PTI Environmental Services, Inc. | **Service Request:** | K9705000 |
| **Project:** | GMPT Bay City/C690-1301 | **Date Analyzed:** | 7/21/97 |

Continuing Calibration Blank (CCB) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | MRL | CCB1 Result | CCB2 Result |
|---|---|---|---|---|
| Lead | 200.8 | 0.2 | ND | ND |

Approved By: _____ Date: 7/21/97

CCB4SMRL/102194

00017

**APPENDIX B**
**CHAIN OF CUSTODY**

# CRA

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

## CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Columbia Analytical Services (K5000)

REFERENCE NUMBER: 3938-58

PROJECT NAME: GMPT Bay City

SAMPLER'S SIGNATURE: Steven S Hoevemeyer PRINTED NAME: Steven S Hoevemeyer

| SEQ: No. | DATE | TIME | | SAMPLE TYPE | No. OF CONTAINERS | PARAMETERS: Total lead | PARAMETERS: SPLP lead | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 1 | 7/16/97 | | S-3938-970716-SSH-167 | Soil | 1 | X | X | TAT - 24 hrs |
| 2 | 1 | | S-3938-970716-SSH-168 | 1 | 1 | X | X | |
| 3 | | | S-3938-970716-SSH-169 | 1 | 1 | X | X | |
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| | | | | | | | | |

SSH

TOTAL NUMBER OF CONTAINERS: 3

| | | | |
|---|---|---|---|
| RELINQUISHED BY: 1. Steven S Hoevemeyer | DATE: 7/16/97 TIME: 1400 | RECEIVED BY: 1. | DATE: TIME: |
| RELINQUISHED BY: 2. | DATE: TIME: | RECEIVED BY: 2. | DATE: TIME: |
| RELINQUISHED BY: 3. | DATE: TIME: | RECEIVED BY: 1. | DATE: TIME: |

METHOD OF SHIPMENT: FedEx AIR BILL No. 973511 3010

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

No. 3795

SAMPLE TEAM: SSH

RECEIVED FOR LABORATORY BY: CAS-K

DATE: 071797 TIME: 1030

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

61006

REC'D CRA
AUG – 1 1997
8

Columbia Analytical Services INC.

July 29, 1997 Service Request No: K9705214

Pieter Booth
PTI Environmental Services, Inc.
15375 SE 30th Place, Suite 250
Bellevue, WA 98007

**Re: GMPT Bay City\C690-1301**

Dear Pieter:

Enclosed are the results of the rush sample(s) submitted to our laboratory on July 14, 1997. Preliminary results were transmitted via facsimile on July 25, 1997 and July 28, 1997. For your reference, these analyses have been assigned our service request number K9705214.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions. My extension is 246.

Respectfully submitted,

**Columbia Analytical Services, Inc.**

Abbie Spielman
Client Services Manager

AS/ak

cc: Paul Wiseman at CRA

ORIGINAL ANALYTICAL REPORT
Project#: 3938-58 Lab #: _____
Name: GM PT - Bay City
Description
Event: _____
Samples: _____
Analysis: _____
TAT: 11 7
Page 1 of _____
Lab: _____
Checked Against Project Library
Date: _____ Init.: _____
Date of Validation Review: _____
Invoice Approval: _____
Comments: _____

## Acronyms

| | |
|---|---|
| ASTM | American Society for Testing and Materials |
| A2LA | American Association for Laboratory Accreditation |
| CARB | California Air Resources Board |
| CAS Number | Chemical Abstract Service registry Number |
| CFC | Chlorofluorocarbon |
| CFU | Colony-Forming Unit |
| DEC | Department of Environmental Conservation |
| DEQ | Department of Environmental Quality |
| DHS | Department of Health Services |
| DOE | Department of Ecology |
| DOH | Department of Health |
| EPA | U. S. Environmental Protection Agency |
| ELAP | Environmental Laboratory Accreditation Program |
| GC | Gas Chromatography |
| GC/MS | Gas Chromatography/Mass Spectrometry |
| J | Estimated concentration. The value is less than the method reporting limit, but greater than the method detection limit. |
| LUFT | Leaking Underground Fuel Tank |
| M | Modified |
| MCL | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL | Method Detection Limit |
| MPN | Most Probable Number |
| MRL | Method Reporting Limit |
| NA | Not Applicable |
| NAN | Not Analyzed |
| NC | Not Calculated |
| NCASI | National Council of the Paper Industry for Air and Stream Improvement |
| ND | Not Detected at or above the MRL |
| NIOSH | National Institute for Occupational Safety and Health |
| PQL | Practical Quantitation Limit |
| RCRA | Resource Conservation and Recovery Act |
| SIM | Selected Ion Monitoring |
| TPH | Total Petroleum Hydrocarbons |
| tr | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL. |

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9705214
**Date Collected:** 7/23/97
**Date Received:** 7/24/97
**Date Extracted:** NA
**Date Analyzed:** 7/25/97

Solids, Total
EPA Method 160.3 Modified
Units: Percent (%)

| Sample Name | Lab Code | Result |
|---|---|---|
| S-3938-970723-SSH-170 | K9705214-001 | 83.6 |
| S-3938-970723-SSH-171 | K9705214-002 | 92.7 |
| S-3938-970723-SSH-172 | K9705214-003 | 89.7 |
| S-3938-970723-SSH-173 | K9705214-004 | 87.6 |

Approved By: _____ Date: 7/25/97

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** PTI Environmental Services. Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9705214
**Date Collected:** 7/23/97
**Date Received:** 7/24/97
**Date Extracted:** 7/24/97
**Date Analyzed:** 7/25/97

Total Lead
EPA Method 200.8
Units: mg/Kg (ppm)
Dry Weight Basis

| Sample Name | Lab Code | MRL | Result |
|---|---|---|---|
| S-3938-970723-SSH-170 | K9705214-001 | 1 | 18 |
| S-3938-970723-SSH-171 | K9705214-002 | 1 | 11 |
| S-3938-970723-SSH-172 | K9705214-003 | 1 | 16 |
| S-3938-970723-SSH-173 | K9705214-004 | 1 | 2 |
| Method Blank | K9705214-MB | 1 | ND |

Approved By: _____ Date: 7/28/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9705214
**Date Collected:** 7/23/97
**Date Received:** 7/24/97
**Date Extracted:** 7/25/97
**Date Analyzed:** 7/28/97

Synthetic Precipitation Leaching Procedure (SPLP)
Lead, SPLP
EPA Method 1312/200.8
SPLP Metals
Units: mg/L (ppm) in SPLP Extract

| Sample Name | Lab Code | MRL | Result |
|---|---|---|---|
| S-3938-970723-SSH-170 | K9705214-001 | 0.002 | 0.119 |
| S-3938-970723-SSH-171 | K9705214-002 | 0.002 | 0.019 |
| S-3938-970723-SSH-172 | K9705214-003 | 0.002 | 0.300 |
| S-3938-970723-SSH-173 | K9705214-004 | 0.002 | 0.006 |
| Method Blank | K9705214-MB | 0.002 | ND |

Approved By: _____ Date: 7/28/97

1AMRL/102594
05214ICP.GJ2 - Sample 7/28/97

# APPENDIX A
# LABORATORY QA/QC RESULTS

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9705214
**Date Collected:** 7/23/97
**Date Received:** 7/24/97
**Date Extracted:** 7/24/97
**Date Analyzed:** 7/25/97

Duplicate Summary
Total Metals
Units: mg/Kg (ppm)
Dry Weight Basis

Sample Name: S-3938-970723-SSH-170
Lab Code: K9705214-001

| Analyte | EPA Method | MRL | Sample Result | Duplicate Sample Result | Average | Relative Percent Difference |
|---|---|---|---|---|---|---|
| Lead | 200.8 | 1 | 18 | 18 | 18 | <1 |

Approved By: _____ Date: 7/28/97

DUP1SEPA/102194
05214ICP.GJ1 - DUP 7/25/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9705214
**Date Collected:** 7/23/97
**Date Received:** 7/24/97
**Date Extracted:** 7/24/97
**Date Analyzed:** 7/25/97

Matrix Spike Summary
Total Metals
Units: mg/Kg (ppm)
Dry Weight Basis

Sample Name: S-3938-970723-SSH-170
Lab Code: K9705214-001

| Analyte | MRL | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery | CAS Percent Recovery Acceptance Limits |
|---|---|---|---|---|---|---|
| Lead | 1 | 60 | 18 | 84 | 110 | 60-130 |

Approved By: _____ Date: 7/28/97

MS1S/102194

05214ICP.GJ1 - Spike 7/25/97



00008

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**LCS Matrix:** Soil

**Service Request:** K9705214
**Date Collected:** NA
**Date Received:** NA
**Date Analyzed:** 7/25/97

Laboratory Control Sample Summary
Total Metals
Units: mg/Kg (ppm)

Source: ERA Priority Pollutant/CLP Inorganic Soils

| Analyte | EPA Method | Result | Control Limits |
|---|---|---|---|
| Lead | 200.8 | 132 | 82.7-160 |

Approved By: _____ Date: 7/28/97

LCSEPA/102194
05214ICP.GJ1 - ERA 230 7/25/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301

**Service Request:** K9705214
**Date Analyzed:** 7/25/97

Initial Calibration Verification (ICV) Summary
Metals
Units: µg/L (ppb)

ICV Source: Inorganic Ventures ICV

| Analyte | EPA Method | True Value | Result | Percent Recovery |
|---|---|---|---|---|
| Lead | 200.8 | 50.0 | 49.8 | 103 |

Approved By: _____ Date: 7/29/97

ICVEPA/102194
05214ICP.GJ1 - ICV 7/25/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301

**Service Request:** K9705214
**Date Analyzed:** 7/25/97

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV1 Result | Percent Recovery | CCV2 Result | Percent Recovery |
|---|---|---|---|---|---|---|
| Lead | 200.8 | 25.0 | 25.0 | 100 | 24.6 | 98 |

Approved By: _____ Date: 7/28/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301

**Service Request:** K9705214
**Date Analyzed:** 7/25/97

Continuing Calibration Blank (CCB) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | MRL | CCB1 Result | CCB2 Result |
|---|---|---|---|---|
| Lead | 200.8 | 0.5 | ND | ND |

Approved By: _____ Date: 7/29/97

CCB4SMRL/102194

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services. Inc.
**Project:** GMPT Bay City/C690-1301
**Sample Matrix:** Soil

**Service Request:** K9705214
**Date Collected:** 7/23/97
**Date Received:** 7/24/97
**Date SPLP Performed:** 7/24/97
**Date Extracted:** 7/25/97
**Date Analyzed:** 7/28/97

Matrix Spike Summary
Synthetic Precipitation Leaching Procedure (SPLP)
EPA Method 1312/200.8
SPLP Metals
Units: mg/L (ppm) in SPLP Extract

Sample Name: S-3938-970723-SSH-170
Lab Code: K9705214-001

| Analyte | Spike Level | Sample Result | Spiked Sample Result | Percent Recovery* |
|---|---|---|---|---|
| Lead | 0.10 | 0.119 | 0.217 | 98 |

* Percent recovery information is provided in order to assess the performance of the method on this matrix.

Approved By: _____ Date: 7/28/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City/C690-1301
**LCS Matrix:** Water

**Service Request:** K9705214
**Date Collected:** NA
**Date Received:** NA
**Date Analyzed:** 7/28/97

Laboratory Control Sample Summary
SPLP Metals
Units: mg/L (ppm)

Source: Inorganic Ventures

| Analyte | EPA Method | True Value | Result | Percent Recovery | CAS Percent Recovery Acceptance Limits |
|---|---|---|---|---|---|
| Lead | 200.8 | 0.020 | 0.020 | 100 | 80-120 |

Approved By: _____ Date: 7/29/97

LCSEPA/102194
95214ICP.GJ2 - LCSW 7/28/97

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City

**Service Request:** K9705214
**Date Analyzed:** 7/28/97

Initial Calibration Verification (ICV) Summary
Metals
Units: µg/L (ppb)

ICV Source: Inorganic Ventures ICV

| Analyte | EPA Method | True Value | Result | Percent Recovery |
|---|---|---|---|---|
| Lead | 200.8 | 50.0 | 50.6 | 103 |

Approved By: _____ Date: 7/28/97

ICVEPA/102194
05214ICP.GJ2 - ICV 7/28/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services. Inc.
**Project:** GMPT Bay City

**Service Request:** K9705214
**Date Analyzed:** 7/28/97

Continuing Calibration Verification (CCV) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | True Value | CCV1 Result | Percent Recovery | CCV2 Result | Percent Recovery |
|---|---|---|---|---|---|---|
| Lead | 200.8 | 25.0 | 25.0 | 100 | 24.5 | 98 |

Approved By: _____ Date: 7/28/97

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** PTI Environmental Services, Inc.
**Project:** GMPT Bay City

**Service Request:** K9705214
**Date Analyzed:** 7/28/97

Continuing Calibration Blank (CCB) Summary
Metals
Units: µg/L (ppb)

| Analyte | EPA Method | MRL | CCB1 Result | CCB2 Result |
|---|---|---|---|---|
| Lead | 200.8 | 0.4 | ND | ND |

Approved By: _____ Date: 7/28/97

CCB4SMRL/102194

**APPENDIX B**
**CHAIN OF CUSTODY**

# CRA

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

## CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Columbia Analytical Services

REFERENCE NUMBER: 3938-58

PROJECT NAME: GMPT Bay City

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

| SEQ: No. | DATE | TIME | | SAMPLE TYPE | No. OF CONTAINERS | PARAMETERS: Total Lead | PARAMETERS: SPLP Lead | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 1 | 7/23/97 | | S-3938-970723-SSH-170 | Soil | 2 | X | X | TAT - 24hrs |
| 2 | " | | " -171 | " | 2 | X | X | |
| 3 | " | | " -172 | " | 2 | X | X | |
| 4 | " | | S-3938-970723-SSH-173 | " | 2 | X | X | |

SSH

TOTAL NUMBER OF CONTAINERS

| | | | |
|---|---|---|---|
| RELINQUISHED BY: 1. Steven S. Howemeyer | DATE: 7/23/97 TIME: 1500 | RECEIVED BY: 1. | DATE: TIME: |
| RELINQUISHED BY: 2. | DATE: TIME: | RECEIVED BY: 2. | DATE: TIME: |
| RELINQUISHED BY: 3. | DATE: TIME: | RECEIVED BY: 1. | DATE: TIME: |

METHOD OF SHIPMENT: FedEx AIR BILL No. 773511295 1

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

1165

SAMPLE TEAM: SSH

RECEIVED FOR LABORATORY BY: Kimberly Olson
DATE: 7/24-97 TIME: 10:00

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

# ATTACHMENT B

# DATA VALIDATION REPORTS

**CRA**
11100 Metro Airport Center Drive
Suite 160
Romulus, MI 48174
(313) 942-0909

# MEMO

TO: Michael Tomka REFERENCE NO: 3938

FROM: Mary Cameron/dfh/197/Det. MSC DATE: July 31, 1997

RE: Data Quality Assessment and Validation for Soil Samples Collected from the General Motors Powertrain Site in Bay City, Michigan

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The following details a quality assessment and validation of the analytical data resulting from the May 13, 22 and June 9, 25, 1997, collection of 83 soil samples from the General Motors Powertrain Site in Bay City, Michigan. The samples identified in Table 1 were analyzed for polychlorinated biphenyls (PCB); total lead and synthetic precipitation leachate procedure (SPLP) extract for lead. Sample analysis was completed at Columbia Analytical Services Kelso, Washington facility (CAS) in accordance with the methodologies presented in Table 2. The quality control criteria used to assess the data were established by the methods.[1]

## Holding Time Period and Sample Analysis

The holding time periods are presented in Table 3. The samples, as indicated by the sample collection, extraction and analysis dates on the chain-of-custody forms and analytical reports provided by CAS, were prepared and analyzed within the required holding time periods.

## Initial and Continuing Calibration - Metals Analyses

Initial calibration data (initial calibration verification (ICV) and IC blank (ICB)) were used to demonstrate that each instrument was capable of generating acceptable quantitative data. Continuing calibration data (continuing calibration verification (CCV) and CC blank (CCB)) were used to ensure each instrument was capable of producing acceptable quantitative data over the analysis period. The initial calibration and continuing calibration acceptance criteria were met.

## Method Blank Samples

Contamination of samples contributed by laboratory conditions or procedures was monitored by concurrent preparation and analysis of method blank samples. The samples presented in Table 3 should be qualified due to laboratory contamination.

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[1] Application of quality assurance criteria was consistent with "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", EPA-540/R-94/012, February 1994, and "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", EPA-540/R-94-013, February 1994.

Method Blank Samples (con't)

The remaining method blank samples were reported to be free from detectable levels of target analytes, indicating no additional laboratory-attributable contamination occurred.

Laboratory Control Sample Analysis

The laboratory control sample (LCS) analyses serve as a monitor of the overall performance in all steps of the sample analysis. The LCS percent recoveries were within the laboratory control limits, indicating that an acceptable level of overall performance was achieved.

Surrogate Compound Percent Recoveries (Surrogate Recoveries) - PCB Analysis

Individual sample performance for the PCB analyses was monitored by assessing the results of surrogate compound percent recoveries. The surrogate recovery acceptance criteria was met for all samples.

Matrix Spike Analysis - Metals Analyses

Matrix spike samples were monitored to determine the effects of sample matrix on the laboratories digestion and measurement methods. Based on the information supplied by the laboratory, the inorganic matrix spike recoveries were within acceptance criteria.

Duplicate Sample Analyses - Metals Analyses

The laboratory precision of matrix-specific metals methods was monitored by the analyses of duplicate samples. The duplicate relative percent difference (RPD) data for the samples outlined in Table 4 violated the acceptance criteria. The remaining samples were within the acceptance criteria.

Matrix Spike/Matrix Spike Duplicate Percent Recoveries - PCB Analyses

To assess the long term accuracy and precision of the analytical methods on various matrices, matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and the RPD of the recoveries were determined. The percent recoveries and RPDs acceptance criteria were met for all analyses.

Sample Quantitation - Organic Analyses

The laboratory flag "E" had been incorrectly applied to sample results and should be disregarded.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted.

## TABLE 1

## SAMPLE IDENTIFICATION NUMBERS
## GENERAL MOTORS POWERTRAIN SITE
## BAY CITY, MICHIGAN

S-3938-970513-SSH-001
S-3938-970513-SSH-002
S-3938-970513-SSH-003
S-3938-970513-SSH-004
S-3938-970513-SSH-005
S-3938-970513-SSH-006
S-3938-970513-SSH-007
S-3938-970513-SSH-008
S-3938-970513-SSH-009
S-3938-970513-SSH-010
S-3938-970513-SSH-011
S-3938-970513-SSH-012
S-3938-970513-SSH-013
S-3938-970513-SSH-014
S-3938-970513-SSH-015
S-3938-970513-SSH-016
S-3938-970513-SSH-017
S-3938-970513-SSH-018
S-3938-970513-SSH-019
S-3938-970513-SSH-020
S-3938-970513-SSH-021
S-3938-970513-SSH-022
S-3938-970513-SSH-023
S-3938-970513-SSH-024
S-3938-970513-SSH-025
S-3938-970513-SSH-026
S-3938-970513-SSH-027
S-3938-970513-SSH-028
S-3938-970513-SSH-029
S-3938-970513-SSH-030
S-3938-970513-SSH-031
S-3938-970513-SSH-032
S-3938-970513-SSH-033
S-3938-970513-SSH-034
S-3938-970522-SSH-035
S-3938-970522-SSH-036
S-3938-970522-SSH-037
S-3938-970522-SSH-038
S-3938-970522-SSH-039
S-3938-970522-SSH-040
S-3938-970522-SSH-041
S-3938-970522-SSH-042
S-3938-970522-SSH-043
S-3938-970609-SSH-044
S-3938-970609-SSH-045
S-3938-970609-SSH-046
S-3938-970609-SSH-047
S-3938-970609-SSH-048
S-3938-970609-SSH-049
S-3938-970609-SSH-050
S-3938-970609-SSH-051
S-3938-970609-SSH-052
S-3938-970609-SSH-053
S-3938-970609-SSH-054
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S-3938-970609-SSH-056
S-3938-970609-SSH-057
S-3938-970609-SSH-058
S-3938-970609-SSH-059
S-3938-970609-SSH-060
S-3938-970609-SSH-061
S-3938-970609-SSH-062
S-3938-970609-SSH-063
S-3938-970625-SSH-064
S-3938-970625-SSH-065
S-3938-970625-SSH-066
S-3938-970625-SSH-067
S-3938-970625-SSH-068
S-3938-970625-SSH-069
S-3938-970625-SSH-070
S-3938-970625-SSH-071
S-3938-970625-SSH-072
S-3938-970625-SSH-073
S-3938-970625-SSH-074
S-3938-970625-SSH-075
S-3938-970625-SSH-076
S-3938-970625-SSH-077
S-3938-970625-SSH-078
S-3938-970625-SSH-079
S-3938-970625-SSH-080
S-3938-970625-SSH-081
S-3938-970625-SSH-082
S-3938-970625-SSH-083

# TABLE 2

## SUMMARY OF ANALYTICAL METHODS
## GENERAL MOTORS POWERTRAIN SITE
## BAY CITY, MICHIGAN

| *Parameter* | *Method* |
|---|---|
| PCB | SW-846 8080A[1] |
| Lead | SW-846 7421 |
| SPLP | SW-846 1312 |

[1] "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd Edition, and Promulgated Updates, November 1986.

## TABLE 3

## SUMMARY OF QUALIFIED SAMPLE DATA DUE TO METHOD BLANK CONTAMINATION GENERAL MOTORS POWERTRAIN SITE BAY CITY, MICHIGAN

| *Analyte* | *Associated Samples* | *Qualified*[1] *Sample Result (mg/L)* |
|---|---|---|
| SPLP-Lead | S-3938-970522-SSH-035 | U(0.026) |
| | S-3938-970522-SSH-040 | U(0.004) |

[1] Samples should be qualified for SPLP-Lead as:

U( ) - The analyte was analyzed for, but was not detected above the reported sample quantitation limit in parenthesis.

## TABLE 4

## SUMMARY OF QUALIFIED SAMPLE DATA DUE TO OUTLYING DUPLICATE RPDS-INORGANICS GENERAL MOTORS POWERTRAIN SITE BAY CITY, MICHIGAN

| *Parametes* | *Associated Samples* | *Qualifier*[1] |
|---|---|---|
| Lead | S-3938-970513-SSH-015 | J |
| | S-3938-970513-SSH-016 | J |
| | S-3938-970513-SSH-017 | J |
| | S-3938-970513-SSH-018 | J |
| | S-3938-970513-SSH-019 | J |
| | S-3938-970513-SSH-020 | J |
| | S-3938-970513-SSH-021 | J |
| | S-3938-970513-SSH-022 | J |
| | S-3938-970513-SSH-023 | J |
| | S-3938-970513-SSH-024 | J |
| | S-3938-970513-SSH-025 | J |
| | S-3938-970513-SSH-026 | J |
| | S-3938-970513-SSH-027 | J |
| | S-3938-970513-SSH-028 | J |
| | S-3938-970513-SSH-029 | J |
| | S-3938-970513-SSH-030 | J |
| | S-3938-970513-SSH-031 | J |
| | S-3938-970513-SSH-032 | J |
| | S-3938-970513-SSH-033 | J |
| | S-3938-970513-SSH-034 | J |
| | S-3938-970522-SSH-035 | J |
| | S-3938-970522-SSH-036 | J |
| | S-3938-970522-SSH-037 | J |
| | S-3938-970522-SSH-038 | J |
| | S-3938-970522-SSH-039 | J |
| | S-3938-970522-SSH-040 | J |
| | S-3938-970522-SSH-041 | J |
| | S-3938-970522-SSH-042 | J |
| | S-3938-970522-SSH-043 | J |

[1] Samples should be qualified for the parameter as:

J - The associated value is an estimated quantity.

**CRA**
11100 Metro Airport Center Drive
Suite 160
Romulus, MI 48174
(313) 942-0909

# MEMO

TO: Michael Tomka REFERENCE NO: 3938

FROM: Mary Cameron/dfh/198/Det. DATE: September 18, 1997

RE: Data Quality Assessment and Validation for Soil Samples Collected from the General Motors Powertrain Site in Bay City, Michigan

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The following details a quality assessment and validation of the analytical data resulting from the July 11, 15, 16 and 23, 1997, collection of 90 soil samples from the General Motors Powertrain Site in Bay City, Michigan. The samples identified in Table 1 were selectively analyzed for polychlorinated biphenyls (PCB); total lead and synthetic precipitation leachate procedure (SPLP) extract for lead. Sample analysis was completed at Columbia Analytical Services, Inc., Kelso, Washington facility (CAS) in accordance with the methodologies presented in Table 2. The quality control criteria used to assess the data were established by the methods.[1]

## Holding Time Period and Sample Analysis

The holding time periods are presented in Table 3. The samples, as indicated by the sample collection, extraction and analysis dates on the chain-of-custody forms and analytical reports provided by CAS, were prepared and analyzed within the required holding time periods.

## Initial and Continuing Calibration - Metals Analyses

Initial calibration data (initial calibration verification (ICV) and IC blank (ICB)) were used to demonstrate that each instrument was capable of generating acceptable quantitative data. Continuing calibration data (continuing calibration verification (CCV) and CC blank (CCB)) were used to ensure each instrument was capable of producing acceptable quantitative data over the analysis period. The initial calibration and continuing calibration acceptance criteria were met.

## Method Blank Samples

Contamination of samples contributed by laboratory conditions or procedures was monitored by concurrent preparation and analysis of method blank samples. The

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[1] Application of quality assurance criteria was consistent with "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", EPA-540/R-94/012, February 1994, and "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", EPA-540/R-94-013, February 1994.

method blank samples were reported to be free from detectable levels of target analytes, indicating no laboratory-attributable contamination occurred.

Laboratory Control Sample Analysis

The laboratory control sample (LCS) analyses serve as a monitor of the overall performance in all steps of the sample analysis. The LCS percent recoveries were within the laboratory control limits, indicating that an acceptable level of overall performance was achieved.

Surrogate Compound Percent Recoveries (Surrogate Recoveries) - PCB Analysis

Individual sample performance for the PCB analyses was monitored by assessing the results of surrogate compound percent recoveries. The surrogate recovery acceptance criteria was met for all samples.

Matrix Spike Analysis - Metals Analyses

Matrix spike samples were monitored to determine the effects of sample matrix on the laboratories digestion and measurement methods. Based on the information supplied by the laboratory, the metals matrix spike recoveries were within acceptance criteria.

Duplicate Sample Analyses - Metals Analyses

The laboratory precision of matrix-specific metals methods was monitored by the analyses of duplicate samples. The duplicate relative percent difference (RPD) data were within the acceptance criteria.

Matrix Spike/Matrix Spike Duplicate Percent Recoveries - PCB Analyses

To assess the long term accuracy and precision of the analytical methods on various matrices, matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and the RPD of the recoveries were determined. The percent recoveries and RPDs acceptance criteria were met for all analyses.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted.

# TABLE 1

## SAMPLE IDENTIFICATION NUMBERS
## GENERAL MOTORS POWERTRAIN SITE
## BAY CITY, MICHIGAN

| | |
|---|---|
| S-3938-970711-SSH-084 | S-3938-970715-SSH-129 |
| S-3938-970711-SSH-085 | S-3938-970715-SSH-130 |
| S-3938-970711-SSH-086 | S-3938-970715-SSH-131 |
| S-3938-970711-SSH-087 | S-3938-970715-SSH-132 |
| S-3938-970711-SSH-088 | S-3938-970715-SSH-133 |
| S-3938-970711-SSH-089 | S-3938-970715-SSH-134 |
| S-3938-970711-SSH-090 | S-3938-970715-SSH-135 |
| S-3938-970711-SSH-091 | S-3938-970715-SSH-136 |
| S-3938-970711-SSH-092 | S-3938-970715-SSH-137 |
| S-3938-970711-SSH-093 | S-3938-970715-SSH-138 |
| S-3938-970711-SSH-094 | S-3938-970715-SSH-139 |
| S-3938-970711-SSH-095 | S-3938-970715-SSH-140 |
| S-3938-970711-SSH-096 | S-3938-970715-SSH-141 |
| S-3938-970711-SSH-097 | S-3938-970715-SSH-142 |
| S-3938-970715-SSH-098 | S-3938-970715-SSH-143 |
| S-3938-970715-SSH-099 | S-3938-970715-SSH-144 |
| S-3938-970715-SSH-100 | S-3938-970715-SSH-145 |
| S-3938-970715-SSH-101 | S-3938-970715-SSH-146 |
| S-3938-970715-SSH-102 | S-3938-970715-SSH-147 |
| S-3938-970715-SSH-103 | S-3938-970715-SSH-148 |
| S-3938-970715-SSH-104 | S-3938-970715-SSH-149 |
| S-3938-970715-SSH-105 | S-3938-970715-SSH-150 |
| S-3938-970715-SSH-106 | S-3938-970715-SSH-151 |
| S-3938-970715-SSH-107 | S-3938-970715-SSH-152 |
| S-3938-970715-SSH-108 | S-3938-970715-SSH-153 |
| S-3938-970715-SSH-109 | S-3938-970715-SSH-154 |
| S-3938-970715-SSH-110 | S-3938-970715-SSH-155 |
| S-3938-970715-SSH-111 | S-3938-970715-SSH-156 |
| S-3938-970715-SSH-112 | S-3938-970715-SSH-157 |
| S-3938-970715-SSH-113 | S-3938-970715-SSH-158 |
| S-3938-970715-SSH-114 | S-3938-970715-SSH-159 |
| S-3938-970715-SSH-115 | S-3938-970715-SSH-160 |
| S-3938-970715-SSH-116 | S-3938-970715-SSH-161 |
| S-3938-970715-SSH-117 | S-3938-970715-SSH-162 |
| S-3938-970715-SSH-118 | S-3938-970715-SSH-163 |
| S-3938-970715-SSH-119 | S-3938-970715-SSH-164 |
| S-3938-970715-SSH-120 | S-3938-970715-SSH-165 |
| S-3938-970715-SSH-121 | S-3938-970715-SSH-166 |
| S-3938-970715-SSH-122 | S-3938-970716-SSH-167 |
| S-3938-970715-SSH-123 | S-3938-970716-SSH-168 |
| S-3938-970715-SSH-124 | S-3938-970716-SSH-169 |
| S-3938-970715-SSH-125 | S-3938-970723-SSH-170 |
| S-3938-970715-SSH-126 | S-3938-970723-SSH-171 |
| S-3938-970715-SSH-127 | S-3938-970723-SSH-172 |
| S-3938-970715-SSH-128 | S-3938-970723-SSH-173 |

## TABLE 2

## SUMMARY OF ANALYTICAL METHODS
## GENERAL MOTORS POWERTRAIN SITE
## BAY CITY, MICHIGAN

| *Parameter* | *Method* |
|---|---|
| PCB | SW-846 8080A[1] |
| Lead | EPA 200.8[2] |
| SPLP | SW-846 1312 |

[1] SW-846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd Edition, and Promulgated Updates, November 1986.

[2] EPA- "Methods for the Determination of Metals in Environmental Samples", EPA/600/4-91/010

## TABLE 3

## HOLDING TIME PERIODS
## GENERAL MOTORS POWERTRAIN SITE
## BAY CITY, MICHIGAN

| *Analysis* | *Holding Time Period* |
|---|---|
| PCB | - 14 days from sample collection to extraction<br>- 40 days from extraction to completion of analysis |
| Lead, SPLP Lead | - 180 days from sample collection or SPLP extraction to completion of analysis |
| SPLP-extraction | - 180 days from sample collection to completion of sample extraction |

ATTACHMENT C

MANIFESTS AND BILLS OF LADING

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

U.A. EXCAVATION DISP.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-9

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. M I D 0 0 5 3 5 6 6 8 8 — Manifest Document No. 0 0 1 9 7

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP, BAY CITY PLANT ERG #171
100 FITZGERALD STREET, BAY CITY, MI 48708

4. Generator's Phone ( 517 ) 894-7333

A. State Manifest Document Number: MI 4097242

B. State Generator's ID:

5. Transporter 1 Company Name: ~~LES (TS INC)~~ YOUNGS ENVIRONMENTAL — 6. US EPA ID Number: MFD088697506 / MIR000014530

C. State Transporter's ID: 810-789-7155

D. Transporter's Phone: ~~810-744-3701~~

7. Transporter 2 Company Name: CSXT — 8. US EPA ID Number: F L D 0 0 6 9 2 1 3 4 0

E. State Transporter's ID:

F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI. EAST, 7 MI NORTH OF EXIT 41 OFF I-80
CLIVE, UTAH — 10. US EPA ID Number: U T D 9 9 1 3 0 1 7 4 8

G. State Facility's ID:

H. Facility's Phone: 801-595-3900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. | X RQ, POLYCHLORINATED BIPHENYLS, 9, UN2315, III MARINE POLLUTANT | 001 | C M | 19622 | K | 026 L | N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above — GB97-0098
11 A. ~~0393-0215~~, CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 41107 NET WEIGHT: 43,220 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:

Printed/Typed Name: MICHAEL T. SWITALA — Signature: Michael T. Switala — Date: Month 06 Day 04 Year 97

GENERATOR

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: LARRY TIHOMEY — Signature: — Date: Month 06 Day 04 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

TRANSPORTER

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88) — Copies mailed by Michigan DNR Rev. 10/93

PR 5110 Rev. 10/9

DNR

# MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

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1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

Please print or type.

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: M I D 0 0 5 3 5 6 6 8 8 | Manifest Document No.: 0 0 2 9 7 | 2. Page 1 of 2 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP, BAY CITY PLANT ERG #171
100 FITZGERALD STREET, BAY CITY, MI 48708

4. Generator's Phone ( 517 ) 894-7333

A. State Manifest Document Number: MI 4097243

B. State Generator's ID:

5. Transporter 1 Company Name: ~~LES (TS INC)~~ Hi-Po

6. US EPA ID Number: M I 0 0 0 0 1 3 1 2 9 2

C. State Transporter's ID: 313-677-8822

D. Transporter's Phone: ~~810-744-3701~~

7. Transporter 2 Company Name: CSXT

8. US EPA ID Number: F I D 0 0 6 9 2 1 3 4 0

E. State Transporter's ID:

F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI. EAST, 7 MI NORTH OF EXIT 41 OFF I-80
CLIVE, UTAH

10. US EPA ID Number: U T D 9 9 1 3 0 1 7 4 8

G. State Facility's ID:

H. Facility's Phone: 801-595-3900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. | X RQ, POLYCHLORINATED BIPHENYLS, 9, UN2315, III MARINE POLLUTANT | 0 0 1 | C M | 18768 | K | D 0 2 6 L | N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above: GB97-0098
11 A. ~~GB97-0215,~~ CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 411251 NET WEIGHT: 41,340 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:

Printed/Typed Name: MICHAEL T. SWITALA | Signature: Michael T. Switala | Date: Month 10 Day 14 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: KEN DEAN | Signature: Ken Dean | Date: Month 10 Day 14 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: | Signature: | Date: Month Day Year

GENERATOR

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88) Copy mailed by Michigan DNR Sep 2008

PR 5110 Rev. 10/9

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OMB No. 2050-0039 Expires 9-30-9(

Please print or type.

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356888 Manifest Document No. 010397

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number MI 4097244

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP, BAY CITY PLANT ERG #171
100 FITZGERALD STREET, BAY CITY, MI 48708

B. State Generator's ID

4. Generator's Phone ( 517 ) 894-7333

5. Transporter 1 Company Name ~~LES (TS INC)~~ YOUNGS ENVIRONMENTAL

6. US EPA ID Number MID 068849506 MIN000011530

C. State Transporter's ID 810-789-7155

D. Transporter's Phone ~~810-744-3701~~

7. Transporter 2 Company Name CSXT

8. US EPA ID Number FLD006921340

E. State Transporter's ID

F. Transporter's Phone 800-327-5405

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI. EAST, 7 MI NORTH OF EXIT 41 OFF I-80
CLIVE, UTAH

10. US EPA ID Number UTD991301748

G. State Facility's ID

H. Facility's Phone 801-595-3900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. RQ, POLYCHLORINATED BIPHENYLS, 9, UN2315, III MARINE POLLUTANT | X | 001 | CM | 20539 | K | D026L | N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above GB97-0098
11 A. ~~GB92-0215,~~ CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053. ERG #171
OUT OF SERVICE DATE: 5-16-97
CONTAINER NUMBER: 411288 NET WEIGHT: 45,240 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| MICHAEL T. SWITALA | Michael T. Switala | 06 04 97 |

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| LARRY T HOWARD | Larry T Howard | 06 04 97 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| | | |

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| | | |

GENERATOR

TRANSPORTER

FACILITY

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88) O = mailed cv Michigan DNR PR 5110 Rev. 10/9

**DNR**
**MICHIGAN DEPARTMENT OF NATURAL RESOURCES**

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1969.
Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

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Form Approved. OMB No. 2050-0039 Expires 9-30-96

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. M I D 0 0 5 3 5 6 6 8 8 — Manifest Document No. 00497
2. Page 1 of 2
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP, BAY CITY PLANT ERG #171
100 FITZGERALD STREET, BAY CITY, MI 48708
4. Generator's Phone ( 517 ) 894-7333

A. State Manifest Document Number: MI 4097245
B. State Generator's ID:

5. Transporter 1 Company Name: ~~LES (TS INC)~~ H1-PO
6. US EPA ID Number: M I 0 0 0 8 1 3 4 2 9 2 / M I R 0 0 0 0 1 4 5 3 0
C. State Transporter's ID: 313-677-8822
D. Transporter's Phone: ~~810-744-3701~~

7. Transporter 2 Company Name: CSXT
8. US EPA ID Number: F L D 0 0 6 9 2 1 3 4 0
E. State Transporter's ID:
F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI. EAST, 7 MI NORTH OF EXIT 41 OFF I-80
CLIVE, UTAH
10. US EPA ID Number: U T D 9 9 1 3 0 1 7 4 8
G. State Facility's ID:
H. Facility's Phone: 801-595-3900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | | | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|---|
| a. | X | RQ, POLYCHLORINATED BIPHENYLS, 9, UN2315, III MARINE POLLUTANT | 0 0 1 | C M | 18242 | K | 0 2 6 L | N |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |

J. Additional Descriptions for Materials Listed Above GB97-0048
11 A. ~~GB92-0215.~~ CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 411177 NET WEIGHT: 40,180 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

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ON BEHALF OF GMC:

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| MICHAEL T. SWITALA | Michael T. Switala | 06 04 97 |

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| KEN DEAN | Ken Dean | 06 04 97 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| | | |

**FACILITY**

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| | | |

**GENERATOR**

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88) To be mailed by Michigan DNR Box 30028

PR 5110 Rev. 10/94

1-800-877-2422

DNR

# MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDØ053566088 Manifest Document No. 015917

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERALD ST
BAY CITY, MI 48708

A. State Manifest Document Number: MI 4102718

B. State Generator's ID:

4. Generator's Phone ( 517 ) 894-7273 / 517-894-7333

5. Transporter 1 Company Name: YOUNGS ENVIRONMENTAL

6. US EPA ID Number: MIDT068695Ø6

C. State Transporter's ID: 280-

D. Transporter's Phone: 810-789-7655

7. Transporter 2 Company Name: CSXT

8. US EPA ID Number: FLD006921340

E. State Transporter's ID:

F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801)323-6900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT | X | 001 | CM | 20194 | K T | 026L | N |
| b. 44,480 x 0.454 Kg/Lb = 20,194# | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171; PCB-SOIL; 6897-0098, CONCRETE DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE:
CONTAINER NUMBER: 419158 NET WEIGHT: 44,480 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:

GENERATOR

Printed/Typed Name: JIM JORGENSEN | Signature: Jim Jorgenson | Date: Month 06 Day 05 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: LARRY T. HOWARD | Signature: Larry T. Howard | Date: Month 06 Day 05 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: | Signature: | Date: Month Day Year

EPA Form 8700-22 (Rev. 9/88) To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/94

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Required under authority of Act 64, P.A. 1979, as amended, and Act 136, P.A. 1969.

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Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MI D 0 0 5 3 5 6 8 8 4 0 6 9 7 — Manifest Document No. — 2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERAID ST
BAY CITY, MI 48708

4. Generator's Phone ( 517) 894-7273 / 517-894-7333

A. State Manifest Document Number: MI 4102719

B. State Generator's ID:

5. Transporter 1 Company Name: Hi-Po

6. US EPA ID Number: M I D 0 0 0 1 1 3 1 2 9 2

C. State Transporter's ID:

D. Transporter's Phone: 313-677-9822

7. Transporter 2 Company Name: CSXT

8. US EPA ID Number: F L D 0 0 6 9 2 1 3 4 0

E. State Transporter's ID:

F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: U T D 9 9 1 3 0 1 7 4 8

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. | X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT 42,160 x .454 = 19141 | | CM | 19141 | K | 026L | N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171; ~~GB98-0215; PCB-SOIL;~~ GB97-0098, CONCRETE & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 411727 NET WEIGHT: 42,160 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
~~IN CASE OF EMERGENCY CONTACT:~~

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

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ON BEHALF OF GMC:

Printed/Typed Name: JIM JORGENSEN — Signature: Jim Jorgensen — Date: Month 06 Day 05 Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: KEN DEAN — Signature: Ken Dean — Date: Month 06 Day 05 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: — Signature: — Date: Month Day Year

GENERATOR

TRANSPORTER

FACILITY

CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/94

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2060-0039 Expires 9-30-96

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. / Manifest Document No.: MID005356880 00797

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERALD ST
BAY CITY, MI 48708

A. State Manifest Document Number: MI 4102717

B. State Generator's ID

4. Generator's Phone ( 517 ) 894-7273 / 517-894-7333

5. Transporter 1 Company Name: YOUNGS ENVIRONMENTAL

6. US EPA ID Number: MID106869507

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name: CSXT

8. US EPA ID Number: FLD006921340

E. State Transporter's ID

F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID

H. Facility's Phone: (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. | X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT 44,340 X 0.454 = 20,130 | | CM | 20,130 | K XX T | 026L | N XX |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
~~A. ERG#171, GB92-0015, PCB-SOIL~~ GB97-0098 CONCRETE & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 411295 NET WEIGHT: 44,340 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
~~IN CASE OF EMERGENCY CONTACT~~

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

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ON BEHALF OF GMC:

Printed/Typed Name: JIM JORGENSEN Signature: Jim Jorgensen Date: Month 06 Day 05 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: LARRY T. HOWARD Signature: Larry T. Howard Date: Month 06 Day 05 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: Signature: Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Signature: Date: Month Day Year

EPA Form 8700-22 (Rev. 9/88) To be mailed by Generator to: Michigan DNR Box 30038 PR 5110 Rev. 10/94

DNR

# MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Form Approved. OMB No. 2050-0039 Expires 9-30-96

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356888 Manifest Document No. 00897

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN BAY CITY PLANT ERG #171
100 FITZGERALD ST
BAY CITY, MI 48708

A. State Manifest Document Number: MI 410271

B. State Generator's ID:

4. Generator's Phone ( 517 ) 894-7273 / 517-894-7333

5. Transporter 1 Company Name: YOUNG'S ENVIRONMENTAL

6. US EPA ID Number: MID106869506

C. State Transporter's ID:

D. Transporter's Phone: 810-789-7155

7. Transporter 2 Company Name: CSXT

8. US EPA ID Number: FLD006921340

E. State Transporter's ID:

F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT | X | 001 | CM | 20312 | K | T026L | N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171, GB98-0315, PCB-SOIL; GB97-0098, CONCRETE & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 411255 NET WEIGHT: 44,740 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT

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ON BEHALF OF GMC:

Printed/Typed Name: MICHAEL T. SWITALA | Signature: Michael T. Switala | Date: Month 06 Day 05 Year 97

GENERATOR

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: LARRY T. HOWARD | Signature: Larry T. Howard | Date: Month 06 Day 05 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: | Date: Month Day Year

TRANSPORTER

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: | Signature: | Date: Month Day Year

FACILITY

CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/94

**DNR**
**MICHIGAN DEPARTMENT OF NATURAL RESOURCES**

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ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

1969.
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Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDOO535668 Manifest Document No. 00997
2. Page 1 of 2
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERALD ST
BAY CITY, MI 48708

A. State Manifest Document Number: MI 410712
B. State Generator's ID:

4. Generator's Phone ( 517 ) 894-7273 / 517-894-7333

5. Transporter 1 Company Name: HI-PO
6. US EPA ID Number: MID000013292
C. State Transporter's ID:
D. Transporter's Phone 313-677-8822

7. Transporter 2 Company Name: CSXT
8. US EPA ID Number: FLD006921340
E. State Transporter's ID:
F. Transporter's Phone 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083
10. US EPA ID Number: UTD991301748
G. State Facility's ID:
H. Facility's Phone (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. | X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT | 001 | CM | 19740 | K XX | D026L | N XX |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
XXXXXXXXXX GB97-0098, CONCRETE & DEBRIS
A, ERG#171, [illegible], PCB-SOIL;
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 41131 NET WEIGHT: 43,480 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:

| Printed/Typed Name | Signature | Date Month Day Year |
|---|---|---|
| MICHAEL T. SWITALA | Michael T. Switala | 05 05 97 |

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date Month Day Year |
|---|---|---|
| K DEAN | Ken Dean | 05 05 97 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date Month Day Year |
|---|---|---|
| | | |

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Date Month Day Year |
|---|---|---|
| | | |

GENERATOR
TRANSPORTER
FACILITY
CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR, Box 30038, Lansing, MI 48909-7538

PR 5110 Rev. 10/94

DNR

# MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OMB No. 2050-0039 Expires 9-3

Please print or type.

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDD985356898 Manifest Document No. 010917

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERALD ST
BAY CITY, MI 48708
4. Generator's Phone ( 517 ) 894-7273 / 517-894-7333

A. State Manifest Document Number: MI 410271 3

B. State Generator's ID:

5. Transporter 1 Company Name: HI-PO
6. US EPA ID Number: MID000131292
C. State Transporter's ID: 313-677-88
D. Transporter's Phone:

7. Transporter 2 Company Name: CSXT
8. US EPA ID Number: FLD006929430
E. State Transporter's ID:
F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083
10. US EPA ID Number: UTD991301748
G. State Facility's ID:
H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. |
|---|---|---|---|---|---|
| a. X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT 38,880 X .454 = 17,641 | 001 | CM | 17641 | K XX | 0261 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171, ~~RQ 9, UN2315, PCB-SOIL~~; GB97-0098, CONCRETE & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 411261 NET WEIGHT: 38840 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

IN CASE OF EMERGENCY CONTACT: [illegible] Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

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ON BEHALF OF GMC:

Printed/Typed Name: JIM JORGENSEN | Signature: J. Jorgensen | Date: Month 06 Day 06 Ye. 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: KEN DEAN | Signature: Ken Dean | Date: Month 06 Day 06 Ye. 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: | Date: Month Day Ye.

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: | Signature: | Date: Month Day Ye.

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038

PR 511 Rev. 1

DNR
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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1969.
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Form Approved. OMB No. 2050-0039 Expires 9-30-96

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDO05356088 Manifest Document No. 011197
2. Page 1 of 2
Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: MI 4102714

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERALD ST
BAY CITY, MI 48706

B. State Generator's ID

4. Generator's Phone ( 517) 894-7273 / 517-894-7333

C. State Transporter's ID

5. Transporter 1 Company Name: YOUNGS ENVIRONMENTAL
6. US EPA ID Number: MID106869506
D. Transporter's Phone 810-789-7155

7. Transporter 2 Company Name: CSXT
8. US EPA ID Number: FLD006921340
E. State Transporter's ID
F. Transporter's Phone 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW , GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083
10. US EPA ID Number: UTD991301748
G. State Facility's ID
H. Facility's Phone (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. |
|---|---|---|---|---|---|---|
| a. | X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII I (026L) MARINE POLLUTANT 41,440 X .454 = 18,814 | 001 | CM | 18814 | K XX | 026L |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171 PCB-SOIL; GB97-0098, CONCRETE & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 411064 NET WEIGHT: 41,440 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:

Printed/Typed Name: JIM JORGENSEN
Signature: J Jorgenson
Date: Month 06 Day 06 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: ROGER GABRIEL
Signature
Date: Month 06 Day 06 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Date: Month Day Year

GENERATOR

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038 Lansing, MI 48909-7538

PR 51 Rev. 1

DNR
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Form Approved. OMB No. 2050-0039 Expires 9-30-9

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356808 — Manifest Document No. 12917
2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERALDST
BAY CITY, MI 48708

4. Generator's Phone ( 517 ) 894-7273 / 517-894-7333

5. Transporter 1 Company Name: HI-PO
6. US EPA ID Number: MIR000013292
7. Transporter 2 Company Name: CSXT
8. US EPA ID Number: FLD069213401

9. Designated Facility Name and Site Address
USPCI - LAIDLAW , GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083
10. US EPA ID Number: UTD981301748

A. State Manifest Document Number: MI 4102715
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone:
E. State Transporter's ID:
F. Transporter's Phone: 800-327-5405
G. State Facility's ID:
H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. |
|---|---|---|---|---|---|
| a. X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT 43,000 x .454 = 19,522 | 001 | CM | 19522 | K XX* | 9261 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171, [illegible] PCB-SOIL; GB97-0098, CONCRETE & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 41086 NET WEIGHT: 43,000 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

IN CASE OF EMERGENCY CONTACT Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

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ON BEHALF OF GMC:

GENERATOR — Printed/Typed Name: JIM JORGENSEN — Signature: J. Jorgensen — Date: Month 06 Day 06 Ye 97

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: KEN DEAN — Signature: K Dean — Date: Month 06 Day 06 Ye 97
18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name: — Signature: — Date: Month Day Ye

FACILITY
19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: — Signature: — Date: Month Day Ye

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88) To be mailed by Generator to: Michigan DNR Box 30038 PR 51 Rev.

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Form Approved. OMB No. 2050-0039 Expires 9-30-96

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356688 — Manifest Document No. 01397

2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERALD ST
BAY CITY, MI 48706
4. Generator's Phone ( 517) 894-7273 / 517-894-7333

A. State Manifest Document Number: MI 4102716
B. State Generator's ID:

5. Transporter 1 Company Name: Youngs Environmental
6. US EPA ID Number: MID 980686906
C. State Transporter's ID:
D. Transporter's Phone: 1-800-496-8647

7. Transporter 2 Company Name: CSXT
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083
10. US EPA ID Number: UTD991301746
G. State Facility's ID:
H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/ |
|---|---|---|---|---|---|---|
| a. X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT 40,340 x .454 = 19300 | 001 | CM | 19300 | K | 026 | N |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171 XXXXXXXXXX PCB-SOILS GB97-0098, CONCRETE & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 410992 NET WEIGHT: 40,340 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. AND RAIL

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:

GENERATOR

Printed/Typed Name: JIM JORGENSEN — Signature: J Jorgensen — Date: Month 06 Day 06 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger Gabriel — Signature: Roger Gabriel — Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88) To be mailed by Generator to: Michigan DNR Box 30038 PR 5110 Rev. 10/94

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# MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Form Approved. OMB No. 2050-0039 Expires 9-30-96

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDOO5356688 — Manifest Document No. 01497

2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517 894-7273 / 517-894-7333

A. State Manifest Document Number: MI 4102721

B. State Generator's ID:

5. Transporter 1 Company Name: HI-PO

6. US EPA ID Number: MIOOOOO131292

C. State Transporter's ID:

D. Transporter's Phone: 313-677-8822

7. Transporter 2 Company Name: CSXT

8. US EPA ID Number: FLD006921340

E. State Transporter's ID: 313

F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. | X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT | 001 | CM | 19922 | K XXX | 026L | N XXX |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
XXXXXXXXXX
A. ERG#171, GB97-0098, CONCRETE & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 41012 NET WEIGHT: 43,880 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. AND RAIL

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ON BEHALF OF GMC:

Printed/Typed Name: MICHAEL T. SWITALA — Signature: Michael T. Switala — Date: Month 06 Day 06 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: R DEAN — Signature: R. Dean — Date: Month 06 Day 06 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: — Signature: — Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88) To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/94

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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1969.

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Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDO053566008 Manifest Document No. 01597

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERALD ST
BAY CITY, MI 48708

A. State Manifest Document Number MI 4102722

B. State Generator's ID

4. Generator's Phone ( 517 ) 894-7273 / 517-894-7333

5. Transporter 1 Company Name: YOUNG'S ENVIRONMENTAL

6. US EPA ID Number: MID106869506

C. State Transporter's ID

D. Transporter's Phone 810-784-7155

7. Transporter 2 Company Name: CSXT

8. US EPA ID Number: FLD006921340

E. State Transporter's ID

F. Transporter's Phone 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW , GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID

H. Facility's Phone (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. | X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT | 001 | CM | 18750 | K | 026L | N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171, ~~NON-HAZ~~ PCB-SOIL; GB97-0098, CONCRETE & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 410995 NET WEIGHT: 41,300 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
~~IN CASE OF EMERGENCY CONTACT:~~

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. AND RAIL

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:

Printed/Typed Name: MICHAEL T. SWITALA | Signature: Michael T. Switala | Date: Month Day Year 06 10 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Roger Gabriel | Signature: Roger Gabriel | Date: Month Day Year 06 10 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date: Month Day Year

GENERATOR

TRANSPORTER

FACILITY

CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038 Lansing, MI 48909-7538

PR 5110 Rev. 10/94

DNR

# MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDOO535668 — Manifest Document No. 01697

2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: MI 4102723

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERALD ST
BAY CITY, MI 48708

B. State Generator's ID

4. Generator's Phone ( 517 ) 894-7273 / 517-894-7333

5. Transporter 1 Company Name: Hi-PO

6. US EPA ID Number: MIOOOOI31292

C. State Transporter's ID

D. Transporter's Phone: 313-677-9822

7. Transporter 2 Company Name: CSXT

8. US EPA ID Number: FLD006921340

E. State Transporter's ID

F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW , GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID

H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|
| a. X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT 39,580 x .454 = 17,969 | 001 | CM | 17969 | K XX | D026L | N XX |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171; [illegible] PCB-SOIL; GB97-0098, CONCRETE & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 411300 NET WEIGHT: 39580 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:

Printed/Typed Name: T. JORGENSEN — Signature: T Jorgensen — Date: Month 06 Day 19 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: K DEAN — Signature: K Dean — Date: Month 06 Day 19 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-0900 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/94

DNR

**MICHIGAN DEPARTMENT OF NATURAL RESOURCES**

**DO NOT WRITE IN THIS SPACE**

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1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDD053566888 — Manifest Document No. 01797

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERAID ST
BAY CITY, MI 48708

A. State Manifest Document Number: MI 4102724

B. State Generator's ID:

4. Generator's Phone ( 517 ) 894-7273 / 517-894-7333

5. Transporter 1 Company Name: YOUNGS ENVIR.

6. US EPA ID Number: MID106869506

C. State Transporter's ID:

D. Transporter's Phone:

7. Transporter 2 Company Name: CSXT

8. US EPA ID Number: FLD006921340

E. State Transporter's ID:

F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|
| a. X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT 41,720 x .454=18,881 | 001 | CM | 18881 | K | D026L | N |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171, PCB-SOIL, GB97-0098, CONCRETE & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 41123 NET WEIGHT: 41,720 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. AND RAIL

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:

Printed/Typed Name: J. JORGENSEN — Signature: J. Jorgenson — Date: Month 06 Day 09 Year 97

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger Gabriel — Signature: Roger Gabriel — Date: Month 06 Day 09 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

**FACILITY**

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: — Signature: — Date: Month Day Year

**GENERATOR**

CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/94

DNR

# MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

Please print or type.

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. M I D 0 0 5 3 5 5 6 8 8 — Manifest Document No. 018977

2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERALD ST
BAY CITY, MI 48708

A. State Manifest Document Number: MI 4102725

B. State Generator's ID:

4. Generator's Phone ( 517 ) 894-7273 / 517-894-7333

5. Transporter 1 Company Name: YOUNGS ENVIRONMENTAL

6. US EPA ID Number: M I D 1 0 6 8 6 9 5 0 6

C. State Transporter's ID:

D. Transporter's Phone: 810-789-7155

7. Transporter 2 Company Name: CSXT

8. US EPA ID Number: F L D 0 0 6 9 2 1 3 4 0

E. State Transporter's ID:

F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW , GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: U T D 9 9 1 3 0 1 7 4 8

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|
| a. X HM RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT 45860 X.454= 20,810 | 001 | CM | 20810 | K XX | 261 | N XX |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
XXXXXXXXXX GB97-0098, CONCRETE & DEBRIS
A, ERG#171, PCB-SOIL;
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 411745 NET WEIGHT: 45,860 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:

Printed/Typed Name: JIM JORGENSEN — Signature: J. Jorgensen — Date: Month 06 Day 09 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Roger Gabriel — Signature: Roger Gabriel — Date: Month 06 Day 09 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN DNR CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/94

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDOO5356880 — Manifest Document No. 07997 — 2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERALD ST
BAY CITY, MI 48708

A. State Manifest Document Number: MI 4102726

B. State Generator's ID:

4. Generator's Phone ( 517 ) 894-7273 / 517-894-7333

5. Transporter 1 Company Name: HI-PO — 6. US EPA ID Number: MI0000131292 — C. State Transporter's ID: — D. Transporter's Phone: 313-677-8822

7. Transporter 2 Company Name: CSXT — 8. US EPA ID Number: FLD006921340 — E. State Transporter's ID: — F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW , GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748 — G. State Facility's ID: — H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|
| a. X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT 42120 X .454 = 19122 | 001 | M | 19122 | K | D026 | N |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171; XXXXXXXXXX PCB-SOIL; GB97-0098, CONCRETE & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 411140 NET WEIGHT: 42120 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. AND RAIL

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| JIM JORGENSEN | J. Jorgensen | 06 09 97 |

## TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| K DEAN | K Dean | 06 09 97 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| | | |

## FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| | | |

EPA Form 8700-22 (Rev. 9/88) To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/94

ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

DNR

# MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

Please print or type.

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MTD005356888 — Manifest Document No. 02097 — 2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517 ) 894-7273 / 517-894-7333

5. Transporter 1 Company Name: YOUNG'S ENVIRONMENTAL — 6. US EPA ID Number: MID106869506

7. Transporter 2 Company Name: CSXT — 8. US EPA ID Number: FLD006921340

9. Designated Facility Name and Site Address
USPCI - LAIDLAW , GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301788

A. State Manifest Document Number: MI 410727
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 810-789-7155
E. State Transporter's ID:
F. Transporter's Phone: 800-327-5405
G. State Facility's ID:
H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|
| a. X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT | 001 | CM | 21120 | K XX | 026L | N XX |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. XXXXXXXXX GB97-0098, CONCRETE & DEBRIS
ERG#171 PCB-SOIL;
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 41165 NET WEIGHT: 46,520 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:

Printed/Typed Name: MICHAEL T. SWITALA — Signature: Michael T. Switala — Date: Month 06 Day 09 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Ross Gabriel — Signature: Ross A Gabriel — Date: Month 06 Day 09 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: — Signature: — Date: Month Day Year

GENERATOR

ALERTING SYSTEM. IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POL CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/94

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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1979, as amended and Act 136, P.A. 1969.

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Form Approved. OMB No. 2050-0039 Expires 9-30-96

Please print or type.

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDO05356600 Manifest Document No. 02197

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number MI 4102728

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERALD ST
BAY CITY, MI 48708

B. State Generator's ID

4. Generator's Phone ( 517 ) 894-7273 / 517-894-7333

5. Transporter 1 Company Name
HI-PO

6. US EPA ID Number
MI0000131292

C. State Transporter's ID 313-677-8822

D. Transporter's Phone

7. Transporter 2 Company Name
CSXT

8. US EPA ID Number
FLD069213407

E. State Transporter's ID

F. Transporter's Phone 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84003

10. US EPA ID Number
UTD991301748

G. State Facility's ID

H. Facility's Phone (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. | X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT | 001 | CM | 19127 | K | 026L | N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above

A. ERG#171; PCB-SOIL; GB97-0098, CONCRETE & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-5-97
CONTAINER NUMBER: 411019 NET WEIGHT: 42130 LBS

K. Handling Codes for Wastes Listed Above

a/ /
b/ /
c/ /
d/ /

IN CASE OF EMERGENCY CONTACT Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:

Printed/Typed Name: J. JORGENSEN | Signature: J. Jorgensen | Date: Month 06 Day 10 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DEAN | Signature: R. Dean | Date: Month 06 Day 10 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date: Month Day Year

GENERATOR

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/9

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDO053566608 Manifest Document No. 02297

2. Page 1 of 3

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERALD ST
BAY CITY, MI 48708

A. State Manifest Document Number: MI 4102729

B. State Generator's ID:

4. Generator's Phone ( 517 894-7273 / 517-894-7333

5. Transporter 1 Company Name: YOUNGS ENVIRONMENTAL

6. US EPA ID Number: MIDI068695O6

C. State Transporter's ID:

D. Transporter's Phone: 810-789-7155

7. Transporter 2 Company Name: CSXT

8. US EPA ID Number: FLD006921340

E. State Transporter's ID:

F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301746

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|
| a. X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT | 001 | CM | 18914 | K XX | 026L | N XX |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171, ~~GB97-0225~~, PCB-SOIL; GB97-0098, CONCRETE & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 411135 NET WEIGHT: 41660 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:

Printed/Typed Name: J. JORGENSEN Signature: J Jorgensen Date: Month 06 Day 10 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: LARRY TITOWARD Signature: Larry Titoward Date: Month 06 Day 10 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: Signature: Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Signature: Date: Month Day Year

GENERATOR

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/94

DNR

# MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356688 Manifest Document No. 02397

2. Page 1 of 3 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT
100 FITZGERALD ST
BAY CITY, MI 48706

4. Generator's Phone ( 517 ) 894-7273 / 517-894-7333

A. State Manifest Document Number: MI 4102730

B. State Generator's ID:

5. Transporter 1 Company Name: HI-PO

6. US EPA ID Number: MI0000131792

C. State Transporter's ID:

D. Transporter's Phone: 313-677-8822

7. Transporter 2 Company Name: CSXT

8. US EPA ID Number: FLD006921340

E. State Transporter's ID:

F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD981301768

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|
| a. X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT | 001 | CM | 19476 | K XX | 026L | N XX |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
XXXXXXXXXX GB97-0098, CONCRETE & DEBRIS
A. ERG#171, PCB-SOIL;
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 411126 NET WEIGHT: 42900 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. AND RAIL

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| Jim Jorgensen | J. Jorgensen | 06 10 97 |

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| K Dean | K Dean | 06 10 97 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| | | |

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| | | |

GENERATOR / TRANSPORTER / FACILITY

CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/94

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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1979, as amended and Act 136, P.A. 1969.

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Form Approved. OMB No. 2050-0039 Expires 9-30-96

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDOO535668 Manifest Document No. 02497

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: MI 4102731

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERALD ST
BAY CITY, MI 48706

B. State Generator's ID

4. Generator's Phone ( 517 894-7273 / 517-894-7333

C. State Transporter's ID

5. Transporter 1 Company Name: YOUNGS ENVIRONMENTAL

6. US EPA ID Number: MID 068695506

D. Transporter's Phone: 810-789-7155

7. Transporter 2 Company Name: CSXT

8. US EPA ID Number: FLD069213401

E. State Transporter's ID

F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID

H. Facility's Phone: (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. |
|---|---|---|---|---|---|---|
| a. | X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT | 001 | CM | 19122 | K | 026L |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171 PCB-SOIL; GB97-0098, CONCRETE & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 41346 NET WEIGHT: 42120 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:

Printed/Typed Name: TIM JORGENSEN | Signature: T. Jorgensen | Date: Month 06 Day 10 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Lenny T. Howard | Signature: Lenny T. Howard | Date: Month 06 Day 10 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date: Month Day Year

GENERATOR

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/9

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MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDO053560800 Manifest Document No. 02597
2. Page 1 of 2
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERALD ST
BAY CITY, MI 48706
4. Generator's Phone ( 517 ) 894-7273 / 517-894-7333

A. State Manifest Document Number: MI 4102732
B. State Generator's ID:

5. Transporter 1 Company Name: HI-PO
6. US EPA ID Number: MIOOOO131292
C. State Transporter's ID:
D. Transporter's Phone: 313-677-8822

7. Transporter 2 Company Name: CSXT
8. US EPA ID Number: FLD069213401
E. State Transporter's ID:
F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW , GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083
10. US EPA ID Number: UTD991301748
G. State Facility's ID:
H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. |
|---|---|---|---|---|---|
| a. X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT | 001 | CM | 19413 | K XX | 026L |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171 XXXXXXXXXX PCB-SOIL; GB97-0098, CONCRETE & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 411273 NET WEIGHT: 42,760 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. AND RAIL

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:
Printed/Typed Name: T. JORGENSEN
Signature: T. Jorgensen
Date: Month 06 Day 10 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: K. Dean
Signature: K. DEAN
Date: Month 06 Day 10 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name:
Signature:
Date: Month Day Year

GENERATOR

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/9

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MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356888 — Manifest Document No. 02697

2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERALD ST
BAY CITY, MI 48706

A. State Manifest Document Number: MI 4102733

B. State Generator's ID:

4. Generator's Phone ( 517) 894-7273 / 517-894-7333

5. Transporter 1 Company Name: YOUNGS ENVIRONMENTAL

6. US EPA ID Number: MID106869506

C. State Transporter's ID:

D. Transporter's Phone: 810-789-7155

7. Transporter 2 Company Name: CSXT

8. US EPA ID Number: FLD006921340

E. State Transporter's ID:

F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW , GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84003

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII I (026L) MARINE POLLUTANT | X | 001 | CM | 19767 | K XXX | 026L | N XX |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171, PCB-SOIL, GB97-0098, CONCRETE & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 41145 NET WEIGHT: 43,540 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:

Printed/Typed Name: JIM JORGENSEN — Signature: J Jorgensen — Date: Month 06 Day 10 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: LANNY TILTHOUNED — Signature: Lanny Tilthoun — Date: Month 06 Day 10 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR TO THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038 Lansing, MI 48909-7538

PR 5110 Rev. 10/94

DNR

# MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-9

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356888 Manifest Document No. 02797

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERAID ST
BAY CITY, MI 48708

A. State Manifest Document Number: MI 4102734

B. State Generator's ID:

4. Generator's Phone ( 517) 894-7273 / 517-894-7333

5. Transporter 1 Company Name: HI-PO

6. US EPA ID Number: MIO000131292

C. State Transporter's ID:

D. Transporter's Phone: 313-677-8822

7. Transporter 2 Company Name: CSXT

8. US EPA ID Number: FLD069213407

E. State Transporter's ID:

F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW , GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. | X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT | 001 | CM | 19041 | K XX T | 026L | N XX H |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171; XXXXXXXXX GB97-0098, CONCRETE & DEBRIS; PCB-SOIL;
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 411056 NET WEIGHT: 41,940 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

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ON BEHALF OF GMC:

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| MICHAEL T. SWITALA | Michael T. Switala | 06 11 97 |

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| K. DEAN | K Dean | 06 11 97 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| | | |

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| | | |

GENERATOR

TRANSPORTER

FACILITY

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038 Lansing, MI 48909-7538

PR 5110 Rev. 10/9

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

Please print or type.

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356808 Manifest Document No. 02877

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517) 894-7273

A. State Manifest Document Number: MI 4102747

B. State Generator's ID:

5. Transporter 1 Company Name: HI-PO

6. US EPA ID Number: MIDOOO131292

C. State Transporter's ID:

D. Transporter's Phone: 313-677-8822

7. Transporter 2 Company Name: CSX Transportation

8. US EPA ID Number: FLD006921340

E. State Transporter's ID:

F. Transporter's Phone: (904)359-3249

9. Designated Facility Name and Site Address
USPCI - LAIDLAW
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|
| a. X RQ POLYCHLORINATED BIPHENYLS, MARINE POLLUTANT, 9, UN2315, PGII (026L) | | CM | 20439 | K | 026L | N |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171;GB97-0098;PCB CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 411116 NET WEIGHT: 45,020 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: J. JORGENSEN | Signature: J. Jorgensen | Date: Month 06 Day 13 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Ed Stiaus | Signature: Ed Stiaus | Date: Month 06 Day 13 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN PEA CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/94

DNR

# MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

Please print or type.

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDD053565BB — Manifest Document No. 02797 — 2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: MI 4102735

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT ERG #171
100 FITZGERALD ST
BAY CITY, MI 48706

B. State Generator's ID

4. Generator's Phone ( 517 ) 894-7273 / 517-894-7333

C. State Transporter's ID

5. Transporter 1 Company Name: HI-PO — 6. US EPA ID Number: MI0000131292 — D. Transporter's Phone: 313-677-8822

7. Transporter 2 Company Name: CSXT — 8. US EPA ID Number: FLD006921340 — E. State Transporter's ID — F. Transporter's Phone: 800-327-5405

9. Designated Facility Name and Site Address
USPCI - LAIDLAW , GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748 — G. State Facility's ID — H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|
| a. X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PGII (026L) MARINE POLLUTANT | 001 | CM | 19976 | K XXX | 026L | N XX |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171, PCB-SOIL; GB97-0098, CONCRETE & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5035. ERG #171
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 411331 NET WEIGHT: 44,000 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

~~IN CASE OF EMERGENCY CONTACT~~ Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway AND RAIL according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

ON BEHALF OF GMC:

Printed/Typed Name: J. JORGENSEN — Signature: J Jorgensen — Date: Month 06 Day 13 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Richard Bertke — Signature: Richard Bertke — Date: Month 06 Day 13 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: — Signature: — Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM IN MICHIGAN AT 1-800-292-4706 OR TO THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88) To be mailed by Michigan DNR Box 30038

PR 5110 Rev. 10/94

DNR

# MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

Please print or type.

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDO05356088 Manifest Document No. 03097

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: MI 4102748

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY
100 FITZGERALD ST
BAY CITY, MI 48706

B. State Generator's ID

4. Generator's Phone ( 517 ) 894-7273

5. Transporter 1 Company Name: Hi-Po

6. US EPA ID Number: MIDOOD131292

C. State Transporter's ID

D. Transporter's Phone 313-677-8822

7. Transporter 2 Company Name: CSX Transportation

8. US EPA ID Number: FLD006921340

E. State Transporter's ID

F. Transporter's Phone (904)359-3249

9. Designated Facility Name and Site Address
USPCI - LAIDLAW
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID

H. Facility's Phone (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. RQ POLYCHLORINATED BIPHENYLS, MARINE POLLUTANT, 9, UN2315, PGII (026L) | X | | CM | 18432 | K | 026L | N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. EPA#171;CE97-0090;PCB CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 411035 NET WEIGHT: 40,600 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: J. JORGENSEN | Signature: J Jorgenson | Date: Month 06 Day 13 Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Ed Stack | Signature: Ed Stack | Date: Month 06 Day 13 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date: Month Day Year

GENERATOR

TRANSPORTER

FACILITY

CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/94

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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1979, as amended and Act 136, P.A. 1969.

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Form Approved. OMB No. 2050-0039 Expires 9-30-96

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356808 Manifest Document No. 03177

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY
100 FITZGERALD ST
BAY CITY, MI 48706

4. Generator's Phone ( 517) 894-7273

A. State Manifest Document Number: MI 4102751

B. State Generator's ID:

5. Transporter 1 Company Name: HI-PO

6. US EPA ID Number: MID000131292

C. State Transporter's ID:

D. Transporter's Phone: 313-677-8822

7. Transporter 2 Company Name: CSX Transportation

8. US EPA ID Number: FLD069213401

E. State Transporter's ID:

F. Transporter's Phone: (904)359-3249

9. Designated Facility Name and Site Address
USPCI - LAIDLAW
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84003

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | HM | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. RQ POLYCHLORINATED BIPHENYLS, MARINE POLLUTANT, 9, UN2315, PGII (026L) | X | | CM | 18224 | K | 026L | N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. EPA/TSCA 97-0098; PCB CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 411298 NET WEIGHT: 40,140 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| J. JORGENSEN | J Jorgensen | 06 13 97 |

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| Richard Bertke | Richard Bertke | 06 13 97 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| | | |

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| | | |

GENERATOR

TRANSPORTER

FACILITY

ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN P. CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038 Lansing, MI 48909-7538

PR 5110 Rev. 10/94

DNR

# MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

Please print or type.

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDO05356881 Manifest Document No. 03297

2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN-BAY CITY PLANT
100 FITZGERALD ST.
BAY CITY, MI. 48708

A. State Manifest Document Number: MI 4097265

B. State Generator's ID:

4. Generator's Phone ( 517 ) 894-7273 / 894-7333

5. Transporter 1 Company Name: CSXT

6. US EPA ID Number: FLD006921340

C. State Transporter's ID:

D. Transporter's Phone (904) 359-1589

7. Transporter 2 Company Name: UNION PACIFIC RAILROAD

8. US EPA ID Number: NED001792910

E. State Transporter's ID:

F. Transporter's Phone (201) 271-4400

9. Designated Facility Name and Site Address
USPCI-LAIDLAW, GRAYBACK MOUNTAIN FACILITY
3MI E, 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801) 323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|
| a. X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PG III, (D026L) MARINE POLLUTANT | 001 | CM | EST 79904 | K | D026L | N |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG # 171, PCB-Soil, GB97-0098, CONCRETE & DEBRIS. 24 HOUR EMERGENCY CONTACT: 1-800-535-5035
OUT OF SERVICE DATE: 5-15-97
CONTAINER NO.: CSXT 704047, NET WT.: 176,000 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: J. JORGENSEN — Signature: J. Jorgenson — Date: Month 06 Day 17 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DENNIS L. BATTEE — Signature: Dennis L. Battee — Date: Month 06 Day 17 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: — Signature: — Date: Month Day Year

ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN P[illegible] CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038 Lansing, MI 48909-7538

PR 5110 Rev. 10/94

DNR

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1979, as amended and Act 136, P.A. 1969.

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Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDOO5356888 — Manifest Document No. 033917

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN- BAY CITY PLANT
100 PITZGERALD ST.
BAY CITY, MI. 48708

4. Generator's Phone ( 517 ) 894-7273/894-7333

A. State Manifest Document Number: MI 4097268

B. State Generator's ID:

5. Transporter 1 Company Name: CSXT

6. US EPA ID Number: FLD006921340

C. State Transporter's ID:

D. Transporter's Phone: (904) 359-1589

7. Transporter 2 Company Name: UNION PACIFIC RAILROAD

8. US EPA ID Number: NED001792910

E. State Transporter's ID:

F. Transporter's Phone: (201) 271-4400

9. Designated Facility Name and Site Address
USPCI-LAIDLAW, GREYBACK MOUNTAIN FACILITY
3MI E, 7MI N. EXIT 41, OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801) 323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | HM | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PG III, (D026L) MARINE POLUTANT | X | 001 | CM | EST 70824 | K | D026L | N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG #171, PCB-SOIL, GB97-0098, CONCRETE DEBRIS,
24 HOUR EMERGENCY CONTRACT NO.: 1-800-535-5035
OUT OF SERVICE DATE: 5-15-97
CONTAINER NO: CSXT 702505 NET WT.: 156,000#

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: J. JORGENSEN — Signature: J. Jorgenson — Date: Month 06 Day 17 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DENNIS L BATTLE — Signature: Dennis L Battle — Date: Month 06 Day 17 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: — Signature: — Date: Month Day Year

ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN P

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038 Lansing, MI 48909-7538

PR 5110 Rev. 10/94

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

1979, as amended and Act 136, P.A. 1969.

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Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356888 Manifest Document No. 03497

2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: MI 4097269

3. Generator's Name and Mailing Address
GM POWERTRAIN-BAY CITY PLANT
100 FITZGERALD ST.
BAY CITY, MI, 48708

B. State Generator's ID

4. Generator's Phone ( 517 ) 894-7273/894-7333

5. Transporter 1 Company Name: CSXT

6. US EPA ID Number: FLD006921340

C. State Transporter's ID

D. Transporter's Phone (904) 359-1589

7. Transporter 2 Company Name: UNION PACIFIC RAILROAD

8. US EPA ID Number: NED001792910

E. State Transporter's ID

F. Transporter's Phone (201) 271-4400

9. Designated Facility Name and Site Address
USPCI-LAIDLAW, GRAYBACK MOUNTAIN FACILITY
3MI.E, 7MI.N EXIT 41-OFF I-80

10. US EPA ID Number: WTD991301748

G. State Facility's ID

H. Facility's Phone (801) 323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. | X RQ POLYCHLORINATED BIPHENYLS, 9, UN2315 PG III, (D2GL) MARINE POLUTANT | 001 | CM | EST 26 40 | K | D026L | N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A ERG #171, PCB-SOIL, GB97-0098, CONCRETE & DEBRIS
24 HOUR EMERGENCY CONTACT NO.: 1-800-535-5035
OUT OF SERVICE DATE: 5-15-97
CONTRINER NO: CSXT 702190 NET WT.: 160,000#

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: J. JORGENSEN — Signature: J. Jorgensen — Date: Month 06 Day 17 Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials

TRANSPORTER

Printed/Typed Name: DENNIS L. BATTLE — Signature: Dennis L Battle — Date: Month 06 Day 17 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

FACILITY

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Date: Month Day Year

CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038 Lansing, MI 48909-7538

PR 5110 Rev. 10/94

DNR

# MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MI D005356880 — Manifest Document No. 03597

2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY PLANT
100 FITZGERALD ST.
BAY CITY, MI 48708

A. State Manifest Document Number: MI 4097270

B. State Generator's ID:

4. Generator's Phone ( 517 ) 894-7273 / 894-7333

5. Transporter 1 Company Name: CSXT

6. US EPA ID Number: FLD006921340

C. State Transporter's ID:

D. Transporter's Phone: (904) 359-1589

7. Transporter 2 Company Name: UNION PACIFIC RAILROAD

8. US EPA ID Number: NED001792910

E. State Transporter's ID:

F. Transporter's Phone: (201) 271-4400

9. Designated Facility Name and Site Address
USPCI - LAIDLAW, GRAY BACK MOUNTAIN FACILITY
3MI E, 7MI N EXIT 40, OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801) 323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|---|
| a. | RQ POLYCHLORINATED BIPHENYLS, 9, UN2315, PG III, (026L) MARINE POLLUTANT | X | 001 | CM | EST 7632 G | K | 026L | N |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG No: 171, PCB-Soil, GB99-0098, CONCRETE & DEBRIS. 24 HOUR EMER. CONTACT: 1-800-535-5035
OUT OF SERVICE - DATE: 5-15-97
CONTAINER NO.: CSXT 706510

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR — Printed/Typed Name: J. JORGENSEN — Signature: J. Jorgensen — Date: Month 06 Day 17 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: DENNIS L. BATTLE — Signature: Dennis L. Battle — Date: Month 06 Day 17 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. — Printed/Typed Name: — Signature: — Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/94

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

1979, as amended and Act 136, PA 1969

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, PA 1969

Form Approved. OMB No. 2050-0039 Expires 9-30-94

Please print or type

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356888 Manifest Document No. 03697

2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517 ) 894-7333

A. State Manifest Document Number: MI 3512203

B. State Generator's ID:

C. State Transporter's ID:

D. Transporter's Phone: (800)327-5405

E. State Transporter's ID:

F. Transporter's Phone: (201)271-4400

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

5. Transporter 1 Company Name: CSXT

6. US EPA ID Number: FLD006921340

7. Transporter 2 Company Name: UNION PACIFIC RAILROAD

8. US EPA ID Number: NED001792910

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt./Vol. | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. | RQ POLYCHLORINATED BIPHENYLS, MARINE POLLUTANT, 9, UN2315, PGIII (026L) | | CM | EST 80040 | K | 026L | N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ENGI171;GB97-0090;PCB CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE:
CONTAINER NUMBER: GNRR 5177 NET WEIGHT: 17630 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

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GENERATOR — Printed/Typed Name: JIM JORGENSEN — Signature: J. Jorgensen — Date: Month Day Year 06/19/97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: DENNIS L. BATTLE — Signature: Dennis L. Battle — Date: Month Day Year 06/19/97

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: — Signature: — Date: Month Day Year

ALERTING SYSTEM: IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN P[illegible] CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88) T[illegible]ned by Mi[illegible]

PR 5110 Rev. 10/92

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-94

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356808 Manifest Document No. 03797

2. Page 1 of 2

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517 ) 894-7333

A. State Manifest Document Number: MI 3512204

B. State Generator's ID:

5. Transporter 1 Company Name: CSXT

6. US EPA ID Number: FLD006921340

C. State Transporter's ID:

D. Transporter's Phone: (800)327-5405

7. Transporter 2 Company Name: UNION PACIFIC RAILROAD

8. US EPA ID Number: NED001792910

E. State Transporter's ID:

F. Transporter's Phone: (201)271-4400

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

GENERATOR

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. | RQ POLYCHLORINATED BIPHENYLS, MARINE POLLUTANT, 9, UN2315, PGIII (026L) | | CM | EST 19904 | K | 026L | N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERGI1717GB97-0098 PCB CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE:
CONTAINER NUMBER: GNRR 5030 NET WEIGHT: 176000 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: J. JORGENSEN Signature: J. Jorgensen Date: Month Day Year 06 19 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DENNIS L BATTLE Signature: Dennis L Battle Date: Month Day Year 06 19 97

18. Transporter 2 Acknowledgement or Receipt of Materials

Printed/Typed Name: Signature: Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Signature: Date: Month Day Year

ALTERNATE STATE, IN MICHIGAN AT 1-800-424-9300 OR OUT OF STATE AT 517-373-1660 AND THE RAILROAD RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

1979, as amended and Act 136, PA 1969

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, PA. 1969

Form Approved. OMB No. 2050-0039 Expires 9-30-94

Please print or type

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. M I D 0 0 5 3 5 6 6 6 8 0 — Manifest Document No. 038197

2. Page 1 of 2 — Information in the shaded areas is not required by Federal law

A. State Manifest Document Number MI 3512202

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

B. State Generator's ID

4. Generator's Phone ( 517 ) 894-7333

5. Transporter 1 Company Name
CSXT

6. US EPA ID Number
F L D 0 6 9 2 3 3 4 0

C. State Transporter's ID

D. Transporter's Phone (800) 327-5405

7. Transporter 2 Company Name
UNION PACIFIC RAILROAD

8. US EPA ID Number
E P D 0 0 1 7 9 2 9 1 0

E. State Transporter's ID

F. Transporter's Phone (201) 271-4400

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number
U T D 9 9 1 3 0 1 7 4 8

G. State Facility's ID

H. Facility's Phone (801) 323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12 Containers No | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. | RQ POLYCHLORINATED BIPHENYLS, MARINE POLLUTANT, 9, UN2315, PGIII (026L) | | CM | 79904 (EST) | K | 026 | N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A: EPA#171;GB97-0090;PCB CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE:
CONTAINER NUMBER: GNRR5188 NET WEIGHT: 176000 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

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GENERATOR

Printed/Typed Name: JIM JORGENSEN — Signature: Jim Jorgensen — Date: Month Day Year 06 19 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DENNIS L. BATTLE — Signature: Dennis L. Battle — Date: Month Day Year 06 19 97

18. Transporter 2 Acknowledgement or Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88) Designated by Michigan Law

PR 5110 Rev. 10/92

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

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Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-94

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356808 Manifest Document No. 03997

2. Page 1 of 2

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517 ) 894-7333

A. State Manifest Document Number MI 3512205

B. State Generator's ID

5. Transporter 1 Company Name: CSXT

6. US EPA ID Number: FLD006921340

C. State Transporter's ID

D. Transporter's Phone (800)327-5405

7. Transporter 2 Company Name: UNION PACIFIC RAILROAD

8. US EPA ID Number: NED001792910

E. State Transporter's ID

F. Transporter's Phone (201)271-4400

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID

H. Facility's Phone (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. | RQ POLYCHLORINATED BIPHENYLS, MARINE POLLUTANT, 9, UN2315, PGIII (026L) | | CM | 79 GK 4 | K | 026L | N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171;CERCLA/RQ CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE:
CONTAINER NUMBER: ENRR 5134 NET WEIGHT: 176 000 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

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GENERATOR

Printed/Typed Name: TIM JORGENSEN | Signature: Tim Jorgenson | Date: Month 06 Day 1 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DENNIS L. BATTCE | Signature: Dennis L Battce | Date: Month 06 Day 19 Year 97

18. Transporter 2 Acknowledgement or Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM. IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

V25.906

PLEASE TYPE OR PRINT CLEARLY USING BALL POINT PEN — PRESS HARD. PLEASE DO NOT FOLD DOCUMENT.

# READ INSTRUCTIONS ON BACK OF MANIFEST

DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties, under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: MID005356888 — Manifest Document No.: 040917
2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517 ) 894-7333

A. State Manifest Document Number: MI 4355081
B. State Generator's ID:

5. Transporter 1 Company Name: CSXT
6. US EPA ID Number: FLD006921340
C. State Transporter's ID:
D. Transporter's Phone: (800)327-5405

7. Transporter 2 Company Name: UNION PACIFIC RAILROAD
8. US EPA ID Number: NED017929100
E. State Transporter's ID:
F. Transporter's Phone: (201)271-4400

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748
G. State Facility's ID:
H. Facility's Phone: (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|---|
| a. | X | RQ HAZARDOUS WASTE,SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008) | 001 | CM | 79450 (EST.) | K | D008 | H |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. EM9171, LEAD CONTAMINATED SOIL, GM97-0352
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GNRR 5067 NET WEIGHT: 175,000 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name: J. JORGENSEN — Signature: J. Jorgensen — Date: Month 06 Day 26 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DENNIS L. BATTLE — Signature: Dennis L Battle — Date: Month 06 Day 26 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19 — Date

CENTER AT 1-800-424-8802 24 HOURS PER DAY.

V25.806

PLEASE TYPE OR PRINT CLEARLY USING BALL POINT PEN — PRESS HARD. PLEASE DO NOT FOLD DOCUMENT.

# READ INSTRUCTIONS ON BACK OF MANIFEST

DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties, under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDOO535668 Manifest Document No. 04197
2. Page 1 of 2
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

A. State Manifest Document Number MI 4355080

B. State Generator's ID

4. Generator's Phone ( 517 894-7333

5. Transporter 1 Company Name
CSXT

6. US EPA ID Number FLD006921340

C. State Transporter's ID

D. Transporter's Phone (800)327-5405

7. Transporter 2 Company Name
UNION PACIFIC RAILROAD

8. US EPA ID Number NED017929910

E. State Transporter's ID

F. Transporter's Phone (201)271-4400

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number UTD991301748

G. State Facility's ID

H. Facility's Phone (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|---|
| a. | X | RQ HAZARDOUS WASTE,SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008) | 001 | CM | EST 76726 | K | D008 | H |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ENG(171; LEAD CONTAMINATED SOIL; GM97-0352
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GNRR 5012 NET WEIGHT: 169,000 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: J. JORGENSEN | Signature: J Jorgenson | Date (Month Day Year): 06 26 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DENNIS L. BATTLE | Signature: Dennis L Battle | Date (Month Day Year): 06 26 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Date (Month Day Year):

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

PLEASE TYPE OR PRINT CLEARLY USING BALL POINT PEN — PRESS HARD. PLEASE DO NOT FOLD DOCUMENT.

# READ INSTRUCTIONS ON BACK OF MANIFEST

DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties, under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: MID005356888 Manifest Document No.: 04297
2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48706

4. Generator's Phone ( 517 894-7333

A. State Manifest Document Number: MI 4355079
B. State Generator's ID:

5. Transporter 1 Company Name: CSXT
6. US EPA ID Number: FLD069213400
C. State Transporter's ID:
D. Transporter's Phone: (800)327-5405

7. Transporter 2 Company Name: UNION PACIFIC RAILROAD
8. US EPA ID Number: NED017929100
E. State Transporter's ID:
F. Transporter's Phone: (201)271-4400

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748
G. State Facility's ID:
H. Facility's Phone: (801)323-0900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|---|
| a. | X | RQ HAZARDOUS WASTE, SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008) | 001 | CM | 78088 (EST) | K | D008 | H |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171; LEAD CONTAMINATED SOIL; GM 97-0352
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-5-97
CONTAINER NUMBER: GNRR5111 NET WEIGHT: 177,000 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name: T. JORGENSEN
Signature: T. Jorgensen
Date: Month 06 Day 26 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DENNIS L. BATTLE
Signature: Dennis L Battle
Date: Month 06 Day 26 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

V25.906

PLEASE TYPE OR PRINT CLEARLY USING BALL POINT PEN — PRESS HARD. PLEASE DO NOT FOLD DOCUMENT.

# READ INSTRUCTIONS ON BACK OF MANIFEST

DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

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Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: MIDOO5356888 — Manifest Document No.: 04397
2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

A. State Manifest Document Number: MI 4355078

B. State Generator's ID:

4. Generator's Phone ( 517 894-7333

5. Transporter 1 Company Name: CSXT

6. US EPA ID Number: FLD006921340

C. State Transporter's ID:

D. Transporter's Phone: (800)327-5405

7. Transporter 2 Company Name: UNION PACIFIC RAILROAD

8. US EPA ID Number: NED001792910

E. State Transporter's ID:

F. Transporter's Phone: (201)271-4400

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | HM | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. RQ HAZARDOUS WASTE,SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008) | X | | CM | 79450 (EST.) | K | D008 | N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ENG171; LEAD CONTAMINATED SOIL; GM97-0352
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GNRR5150 NET WEIGHT: 175,000 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: J. JORGENSEN — Signature: J. Jorgensen — Date: Month 06 Day 26 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DENNIS L BATTLE — Signature: Dennis L Battle — Date: Month 06 Day 26 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19 — Date

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

# READ INSTRUCTIONS ON BACK OF MANIFEST

DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

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Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. MID005356888 Manifest Document No. 04497

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517 894-7333

A. State Manifest Document Number: MI 4355071

B. State Generator's ID:

5. Transporter 1 Company Name: CSXT

6. US EPA ID Number: FLD006921340

C. State Transporter's ID:

D. Transporter's Phone: (800)327-5405

7. Transporter 2 Company Name: UNION PACIFIC RAILROAD

8. US EPA ID Number: NED001792910

E. State Transporter's ID:

F. Transporter's Phone: (201)271-4400

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|
| a. X RQ HAZARDOUS WASTE,SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008) | 001 | CM | 81720 (EST.) | K | D008 | H |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171; LEAD CONTAMINATED SOIL;

24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GNRR5040 NET WEIGHT: 180,000 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: J. JORGENSEN | Signature: J. Jorgensen | Date: Month 06 Day 27 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Bradley A Zulewski | Signature: Bradley A. Zulewski | Date: Month 06 Day 27 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACIL

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

READ INSTRUCTIONS ON BACK OF MANIFEST

DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356688 Manifest Document No. 84597

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517 894-7333

A. State Manifest Document Number: MI 4355072

B. State Generator's ID:

5. Transporter 1 Company Name: CSXT

6. US EPA ID Number: FLD006921340

C. State Transporter's ID:

D. Transporter's Phone: (800)327-5405

7. Transporter 2 Company Name: UNION PACIFIC RAILROAD

8. US EPA ID Number: NED001792910

E. State Transporter's ID:

F. Transporter's Phone: (201)271-4400

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|---|
| a. | X | RQ HAZARDOUS WASTE,SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008) | 001 | CM | 81,538 (EST.) | K | D008 | H |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171; LEAD CONTAMINATED SOIL;
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GNRR5028 NET WEIGHT: 179,700 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

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| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| J. JORGENSEN | J. Jorgensen | 06 27 97 |

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| Bradley A Zulenski | Bradley A. Zulenski | 06 27 97 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| | | |

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

GENERATOR

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DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

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Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **MID005356888** Manifest Document No. **04697**

2. Page 1 of **1**

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
**GM POWERTRAIN GROUP**
**100 FITZGERALD ST**
**BAY CITY, MI 48708**

4. Generator's Phone ( **517** ) **894-7333**

A. State Manifest Document Number: MI 4355073

B. State Generator's ID:

5. Transporter 1 Company Name: **CSXT**

6. US EPA ID Number: **FLD006921340**

C. State Transporter's ID:

D. Transporter's Phone: **(800)327-5405**

7. Transporter 2 Company Name: **UNION PACIFIC RAILROAD**

8. US EPA ID Number: **NED001792910**

E. State Transporter's ID:

F. Transporter's Phone: **(201)271-4400**

9. Designated Facility Name and Site Address
**USPCI, GRAYBACK MOUNTAIN FACILITY**
**3 MI E 7 MI N EXIT 41 OFF I-80**
**CLIVE, UT 84083**

10. US EPA ID Number: **UTD991301748**

G. State Facility's ID:

H. Facility's Phone: **(801)323-8900**

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|
| a. X **RQ HAZARDOUS WASTE,SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008)** | 001 | CM | 81538 (EST) | K | D008 | H |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
**A. ERG#171, LEAD CONTAMINATED SOIL;**

**24-HOUR EMERGENCY CONTACT: 1-800-535-5053**
**OUT OF SERVICE DATE:** 5-15-97
**CONTAINER NUMBER:** GNRR5199 **NET WEIGHT:** 179,700 **LBS**

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name: J. JORGENSEN — Signature: J. Jorgensen — Date: Month 06 Day 27 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: S. Rockwell — Signature: Jeff Rockwell — Date: Month 06 Day 27 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: — Signature: — Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

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Form Approved. OMB No. 2050-0039 Expires 9-30-96

Please print or type.

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDOO5356668 — Manifest Document No. 04797 — 2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517 ) 894-7333

A. State Manifest Document Number: MI 4355074
B. State Generator's ID:

5. Transporter 1 Company Name: CSXT — 6. US EPA ID Number: TNDOOOOOO1300
C. State Transporter's ID:
D. Transporter's Phone: (800)327-5405

7. Transporter 2 Company Name: UNION PACIFIC RAILROAD — 8. US EPA ID Number: NJD0217000120
E. State Transporter's ID:
F. Transporter's Phone: (201)271-4400

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD981301748
G. State Facility's ID:
H. Facility's Phone: (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. |
|---|---|---|---|---|---|---|
| a. | X RQ HAZARDOUS WASTE,SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008) | 001 | CM | 81720 (EST.) | K | D008 |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171; LEAD CONTAMINATED SOIL;
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GNRR5137 NET WEIGHT: 180,000 LBS

K. Handling Codes for Wastes Listed Above: a/ b/ c/ d/

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR — Printed/Typed Name: J. JORGENSEN — Signature: J. Jorgensen — Date: Month 06 Day 12 Year 97

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: J. Rockwell — Signature: Rockwell — Date: Month 06 Day 12 Year 97
18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY
19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: — Signature: — Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties, under Sections 324.11151 or 324.12116 MCL.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

Please print or type.

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356888 Manifest Document No. 04897

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: MI 4355075

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517 ) 894-7333

B. State Generator's ID

5. Transporter 1 Company Name
CSXT

6. US EPA ID Number: FLD006921340

C. State Transporter's ID

D. Transporter's Phone (800)327-5405

7. Transporter 2 Company Name
UNION PACIFIC RAILROAD

8. US EPA ID Number: NED017929100

E. State Transporter's ID

F. Transporter's Phone (201)271-4400

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID

H. Facility's Phone (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. |
|---|---|---|---|---|---|
| a. X RQ HAZARDOUS WASTE, SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008) | 001 | CM | EST. 81720 | K | D008 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171, LEAD CONTAMINATED SOIL;
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GNRR5159 NET WEIGHT: 180,000 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| J. JORGENSEN | J. Jorgensen | 07 07 97 |

TRANSPORTER

| 17. Transporter 1 Acknowledgement of Receipt of Materials | | |
|---|---|---|
| Printed/Typed Name: J. Rockwell | Signature: J. Rockwell | Date: 07 07 97 |
| 18. Transporter 2 Acknowledgement of Receipt of Materials | | |
| Printed/Typed Name | Signature | Date |

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| | | |

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: WASTE MANAGEMENT DIVISION, MICHIGAN DEPARTMENT OF NATURAL RESOURCES, BOX 30038

PR 5110 Rev. 5/95

DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

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Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-9

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356608 Manifest Document No. 04917

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number MI 4355076

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

B. State Generator's ID

4. Generator's Phone ( 517 894-7333

5. Transporter 1 Company Name
CSXT

6. US EPA ID Number FLD006921340

C. State Transporter's ID

D. Transporter's Phone (800)327-5405

7. Transporter 2 Company Name
UNION PACIFIC RAILROAD

8. US EPA ID Number NED017929100

E. State Transporter's ID

F. Transporter's Phone (201)271-4400

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84003

10. US EPA ID Number UTD991301748

G. State Facility's ID

H. Facility's Phone (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. RQ HAZARDOUS WASTE,SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008) | X | 001 | CM | EST. 81720 | K | D008 | H |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ENG171, LEAD CONTAMINATED SOIL;
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GNRR 5075 NET WEIGHT: 180,000 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name: J. JORGENSEN | Signature: J. Jorgensen | Date: Month 07 Day 10 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: S. Rockwell | Signature: S. Rockwell | Date: Month 07 Day 10 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: WASTE MANAGEMENT DIVISION, MICHIGAN DEPARTMENT OF NATURAL RESOURCES, BOX 30038

PR 5110 Rev. 5/95

DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
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Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

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Form Approved. OMB No. 2050-0039 Expires 9-30-96

Please print or type.

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356888 Manifest Document No. 050977
2. Page 1 of 2
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517 ) 894-7333

A. State Manifest Document Number: MI 4355077
B. State Generator's ID:

5. Transporter 1 Company Name: CSXT
6. US EPA ID Number: FLD006921340
C. State Transporter's ID:
D. Transporter's Phone: (800)327-5405

7. Transporter 2 Company Name: UNION PACIFIC RAILROAD
8. US EPA ID Number: NED017929100
E. State Transporter's ID:
F. Transporter's Phone: (201)271-4400

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84003

10. US EPA ID Number: UTD991301748
G. State Facility's ID:
H. Facility's Phone: (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. | X RQ HAZARDOUS WASTE, SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008) | 001 | CM | EST. 81720 | K | D008 | H |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171/ LEAD CONTAMINATED SOIL; GM97-0352
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GNRR 5001 NET WEIGHT: 180,000 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name: J. JORGENSEN
Signature: J. Jorgensen
Date: Month 07 Day 09 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: S. Rockwell
Signature: S. Rockwell
Date: Month 07 Day 09 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name:
Signature:
Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

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Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-9

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356908 Manifest Document No. 05197

2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517 894-7333

5. Transporter 1 Company Name
CSXT

6. US EPA ID Number
MID006021340

7. Transporter 2 Company Name
UNION PACIFIC RAILROAD

8. US EPA ID Number
NED017929910

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number
UTD991301748

A. State Manifest Document Number: MI 4355082
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: (800)327-5405
E. State Transporter's ID:
F. Transporter's Phone: (201)271-4400
G. State Facility's ID:
H. Facility's Phone: (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. | X RQ HAZARDOUS WASTE,SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008) | 001 | CM | EST. 81,720 | K | D008 | H |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171; LEAD CONTAMINATED SOIL;
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GNRR5049 NET WEIGHT: 180,000 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name: J. JORGENSEN — Signature: J. Jorgenson — Date: Month 07 Day 07 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: S. Rockwell — Signature: S. Rockwell — Date: Month 07 Day 07 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: — Signature: — Date: Month Day Year

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DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

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Form Approved OMB No. 2050-0039 Expires 9-30-96

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356690 Manifest Document No. 052917
2. Page 1 of 2
Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: MI 4355094

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

B. State Generator's ID

4. Generator's Phone ( 517 894-7333

5. Transporter 1 Company Name
CSXT

6. US EPA ID Number: FLD006921340

C. State Transporter's ID

D. Transporter's Phone (800)327-5405

7. Transporter 2 Company Name
UNION PACIFIC RAILROAD

8. US EPA ID Number: NED001792910

E. State Transporter's ID

F. Transporter's Phone (201)271-4400

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID

H. Facility's Phone (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. |
|---|---|---|---|---|---|
| a. X RQ HAZARDOUS WASTE, SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008) | 001 | CM | EST. 81720 | K | D008 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171; LEAD CONTAMINATED SOIL;
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GNRR 5117 NET WEIGHT: 180,000 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

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GENERATOR

Printed/Typed Name: J. JORGENSEN | Signature: J. Jorgensen | Date: Month 07 Day 10 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DENNIS L. BATTLE | Signature: Dennis L Battle | Date: Month 07 Day 10 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: WASTE MANAGEMENT DIVISION, MICHIGAN DEPARTMENT OF NATURAL RESOURCES, BOX 30038

PR 5 Rev

DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Form Approved. OMB No. 2050-0039 Expires 9-30-96

Please print or type.

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356888 Manifest Document No. 05397
2. Page 1 of 2
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517 894-7333

A. State Manifest Document Number: MI 4355095
B. State Generator's ID:

5. Transporter 1 Company Name: CSXT
6. US EPA ID Number: FLD006921340
C. State Transporter's ID:
D. Transporter's Phone: (800)327-5405

7. Transporter 2 Company Name: UNION PACIFIC RAILROAD
8. US EPA ID Number: NED017929910
E. State Transporter's ID:
F. Transporter's Phone: (201)271-4400

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748
G. State Facility's ID:
H. Facility's Phone: (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|---|
| a. | X | RQ HAZARDOUS WASTE, SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008) | 001 | CM | EST. 81720 | K | D008 | H |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171; LEAD CONTAMINATED SOIL;
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GNRR5D99 NET WEIGHT: 180,000 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name: T. JORGENSEN
Signature: T. Jorgenson
Date: Month 07 Day 10 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DENNIS L. BATTLE
Signature: Dennis L Battle
Date: Month 07 Day 10 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name:
Signature:
Date: Month Day Year

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DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties, under Sections 324.11151 or 324.12116 MCL.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

Please print or type

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDOO535660 Manifest Document No. 05497
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708
4. Generator's Phone ( 517 894-7333

A. State Manifest Document Number: MI 4355096
B. State Generator's ID:

5. Transporter 1 Company Name: CSXT
6. US EPA ID Number: FLD006921340
C. State Transporter's ID:
D. Transporter's Phone: (800)327-5405

7. Transporter 2 Company Name: UNION PACIFIC RAILROAD
8. US EPA ID Number: NED001792910
E. State Transporter's ID:
F. Transporter's Phone: (201)271-4400

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083
10. US EPA ID Number: UTD991301748
G. State Facility's ID:
H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. |
|---|---|---|---|---|---|
| a. X RQ HAZARDOUS WASTE, SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008) | 001 | CM | EST: 81720 | K | D008 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171; LEAD CONTAMINATED SOIL;
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GNRR5083 NET WEIGHT: 180,900 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: J. JORGENSEN | Signature: J. Jorgensen | Date: Month 07 Day 10 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DENNIS L. BATTLE | Signature: Dennis L Battle | Date: Month 07 Day 10 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: | Signature: | Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF NATURAL RESOURCES

PR 5110 Rev. 5/95

DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties, under Sections 324.11151 or 324.12116 MCL.

Form Approved. OMB No. 2050-0039 Expires 9-30-9

Please print or type.

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **MID005356888** Manifest Document No. **05597**

2. Page 1 of **1**

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: **MI 4355097**

3. Generator's Name and Mailing Address
**GM POWERTRAIN GROUP**
**100 FITZGERALD ST**
**BAY CITY, MI 48708**

4. Generator's Phone ( **517 894-7333**

B. State Generator's ID

5. Transporter 1 Company Name
**CSXT**

6. US EPA ID Number **FLD006921340**

C. State Transporter's ID

D. Transporter's Phone **(800)327-5405**

7. Transporter 2 Company Name
**UNION PACIFIC RAILROAD**

8. US EPA ID Number **NED001792910**

E. State Transporter's ID

F. Transporter's Phone **(201)271-4400**

9. Designated Facility Name and Site Address
**USPCI, GRAYBACK MOUNTAIN FACILITY**
**3 MI E 7 MI N EXIT 41 OFF I-80**
**CLIVE, UT 84083**

10. US EPA ID Number **UTD991301748**

G. State Facility's ID

H. Facility's Phone **(801)323-8900**

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | HM | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. **RQ HAZARDOUS WASTE,SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008)** | X | 001 | CM | EST. 81720 | K | D008 | H |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
**A. ERG#171; LEAD CONTAMINATED SOIL;**
**24-HOUR EMERGENCY CONTACT: 1-800-535-5053**
**OUT OF SERVICE DATE:**
**CONTAINER NUMBER: GNRR5198** **NET WEIGHT: 180,000 LBS**

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name: **J. JORGENSEN** Signature: **J. Jorgensen** Date: Month **07** Day **10** Year **97**

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: **DENNIS L BATTLE** Signature: [signature] Date: Month **07** Day **10** Year **97**

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Signature: Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88) To be mailed by Generator to WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF NATURAL RESOURCES PR 5110 Rev. 5/9

DNR
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

Please print or type.

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MTD005356888 — Manifest Document No. 05697 — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: MI 4102753

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY
100 FITZGERALD ST
BAY CITY, MI 48708

B. State Generator's ID

4. Generator's Phone ( 517 ) 894-7273

5. Transporter 1 Company Name: CSXT — 6. US EPA ID Number: FLD006921340 — C. State Transporter's ID — D. Transporter's Phone (904)359-1589

7. Transporter 2 Company Name: UPRR — US EPA ID Number: NED001792910 — E. State Transporter's ID

CSX Transportation — FLD006921340 — F. Transporter's Phone ~~(904)359-3249~~ (201)271-4400

9. Designated Facility Name and Site Address
USPCI - LAIDLAW
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748 — G. State Facility's ID — H. Facility's Phone (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/ |
|---|---|---|---|---|---|---|---|
| a. | X | RQ POLYCHLORINATED BIPHENYLS, MARINE POLLUTANT, 9, UN2315, PGII (026L) | 001 | CM | EST. 81720 | K026L | N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171;GB97-0098;PCB CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GARR 5108 NET WEIGHT: 180,000 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: J. JORGENSEN — Signature: J. Jorgensen — Date: Month 07 Day 11 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DENNIS L. BATTLE — Signature: Dennis L Battle — Date: Month 07 Day 11 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Date: Month Day Year

GENERATOR

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM. IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/94

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

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1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-9

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDD053566888 Manifest Document No. 05797

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number MI 4102754

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY
100 FITZGERALD ST
BAY CITY, MI 48708

B. State Generator's ID

4. Generator's Phone ( 517 ) 894-7273

5. Transporter 1 Company Name CSXT

6. US EPA ID Number FLD006921340

C. State Transporter's ID

D. Transporter's Phone (904)359-3249

7. Transporter 2 Company Name UPRR
~~CSX Transportation~~

8. US EPA ID Number NED001782960 ~~FLD006921340~~

E. State Transporter's ID

F. Transporter's Phone ~~(904)359-3249~~

9. Designated Facility Name and Site Address
USPCI - LAIDLAW
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number UTD991301748

G. State Facility's ID (201)271-4400

H. Facility's Phone (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. |
|---|---|---|---|---|---|---|
| a. RQ POLYCHLORINATED BIPHENYLS, MARINE POLLUTANT, 9, UN2315, PGII (026L) | X | 001 | CM | EST. 81720 | K | 026L |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171;GB97-0098;PCB CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GNRR 5167 NET WEIGHT: 180,000 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name: J. JORGENSEN | Signature: J. Jorgensen | Date: Month 07 Day 11 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DENNIS L BATTLE | Signature: Dennis L Battle | Date: Month 07 Day 11 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038 Lansing, MI 48909-7538

PR 5110 Rev. 10/9

DNR
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

Please print or type.

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356888 Manifest Document No. 05897

2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517 ) 894-7273

A. State Manifest Document Number: MI 4102755

B. State Generator's ID:

5. Transporter 1 Company Name: CSXT

6. US EPA ID Number: FLD006921340

C. State Transporter's ID:

D. Transporter's Phone: (904)359-3249

7. Transporter 2 Company Name: ~~CSX Transportation~~ UPRR

8. US EPA ID Number: ~~FLD006921340~~ NED980779210

E. State Transporter's ID:

F. Transporter's Phone: ~~(904)359-3249~~

9. Designated Facility Name and Site Address
USPCI - LAIDLAW
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID: (201)271-4400

H. Facility's Phone: (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/ |
|---|---|---|---|---|---|---|---|
| a. | X RQ POLYCHLORINATED BIPHENYLS, MARINE POLLUTANT, 9, UN2315, PGII (026L) | 001 | CM | EST. 66920 | K | D026L | N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

A. ~~ERG#171, GD97-0098, PCB~~ CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GNRR 5082 NET WEIGHT: 147,400 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
NOTE: Car contained approx. 10-12 TONS of Debris when received by GM.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name: J. JORGENSEN | Signature: J. Jorgensen | Date: Month 07 Day 16 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DENNIS L. BATTLE | Signature: Dennis L Battle | Date: Month 07 Day 16 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: | Signature: | Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88) To be mailed by Michigan DNR Rev 20038 PR 5110 Rev. 10/9

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

* Please print or type.

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356888 Manifest Document No. 05797

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number MI 4102756

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY
100 FITZGERALD ST
BAY CITY, MI 48708

B. State Generator's ID

4. Generator's Phone ( 517 ) 894-7273

5. Transporter 1 Company Name CSXT

6. US EPA ID Number FLD006921340

C. State Transporter's ID

D. Transporter's Phone (904)359-3249

7. Transporter 2 Company Name ~~CSX Transportation~~ UPRR

8. US EPA ID Number ~~FLD006921340~~ NED981910

E. State Transporter's ID

F. Transporter's Phone ~~(904)359-3249~~ (201)271-4400

9. Designated Facility Name and Site Address
USPCI - LAIDLAW
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number UTD991301748

G. State Facility's ID

H. Facility's Phone (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. |
|---|---|---|---|---|---|
| a. X RQ POLYCHLORINATED BIPHENYLS, MARINE POLLUTANT, 9, UN2315, PGII (026L) | 001 | CM | EST. 81720 | K | 026L |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above

A. ERG#171; ~~GB97-0050~~; PCB CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GNRR 5154 NET WEIGHT: 180,000 LBS

K. Handling Codes for Wastes Listed Above

a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| J. JORGENSEN | J. Jorgensen | 07 11 97 |

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| DENNIS L. BATTLE | Dennis L Battle | 07 11 97 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| | | |

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| | | |

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/9

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

Please print or type.

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356888 Manifest Document No. 060917

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: MI 4102757

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517 ) 894-7273

B. State Generator's ID

5. Transporter 1 Company Name: CSXT

6. US EPA ID Number: FLD006921340

C. State Transporter's ID (904)359-3249

D. Transporter's Phone

7. Transporter 2 Company Name: ~~CSX Transportation~~ UPRR

8. US EPA ID Number: ~~MID988797923~~ WED988797923

E. State Transporter's ID

F. Transporter's Phone ~~(904)359-3249~~ (201)271-4400

9. Designated Facility Name and Site Address
USPCI - LAIDLAW
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID

H. Facility's Phone (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|
| a. | X RQ POLYCHLORINATED BIPHENYLS, MARINE POLLUTANT, 9, UN2315, PGII (026L) | 001 | CM | EST. 81720 | K | 026L | N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
~~ERG# 171 GB97-0090~~ PCB CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GNRR5051 NET WEIGHT: 180,000 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: Tim Jorgensen — Signature: T. Jorgensen — Date: Month 07 Day 15 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Dennis L. Battle — Signature: Dennis L Battle — Date: Month 07 Day 17 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM. IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/94

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

Please print or type.

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356888 Manifest Document No. 06177

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: MI 4102758

B. State Generator's ID:

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517 ) 894-7273

5. Transporter 1 Company Name: CSXT

6. US EPA ID Number: FLD006921340

C. State Transporter's ID:

D. Transporter's Phone: (904)359-3249

7. Transporter 2 Company Name: ~~CSX Transportation~~ UPRR

8. US EPA ID Number: ~~FLD006921340~~

E. State Transporter's ID:

F. Transporter's Phone: ~~(904)359-3249~~ 201-271-4400

9. Designated Facility Name and Site Address
USPCI - LAIDLAW
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

US EPA ID Number: NED001792910

10. UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|
| a. X RQ POLYCHLORINATED BIPHENYLS, MARINE POLLUTANT, 9, UN2315, PGII (026L) | 001 | CM | EST. 81720 | K | 026L | N |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above

A. ERG#171; CERCLA/SARA; PCB CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GNRR5035 NET WEIGHT: 180,000 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information

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Printed/Typed Name: JIM JORGENSEN Signature: J. Jorgensen Date: Month 07 Day 15 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DENNIS L. BATTLE Signature: Dennis L Battle Date: Month 07 Day 15 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: Signature: Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Signature: Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

GENERATOR

EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: Michigan DNR Box 30038

PR 5110 Rev. 10/9

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

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1979, as amended and Act 136, P.A. 1969.

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Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. Manifest Document No.: MID005356888 06297

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517) 894-7273

A. State Manifest Document Number: MI 4102759

B. State Generator's ID:

5. Transporter 1 Company Name: CSXT

6. US EPA ID Number: FLD006921340

C. State Transporter's ID:

D. Transporter's Phone: (904)359-3249

7. Transporter 2 Company Name: ~~CSX Transportation~~ UPRR

8. US EPA ID Number: ~~FLD006921340~~ NED982722918

E. State Transporter's ID:

F. Transporter's Phone: (904)359-3249

9. Designated Facility Name and Site Address
USPCI - LAIDLAW
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|
| a. X RQ POLYCHLORINATED BIPHENYLS, MARINE POLLUTANT, 9, UN2315, PGII (026L) | 001 | CM | EST. 81720 | K | 026L | N |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171;GB97-0098;PCB CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: ~~180,000~~ 1 NET WEIGHT: 180,000 LBS
CSXT 108662

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

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GENERATOR

Printed/Typed Name: J. JORGENSEN | Signature: J. Jorgensen | Date (Month Day Year): 07/16/97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DAVE J. BLAIR | Signature: Dave J. Blair | Date (Month Day Year): 07/16/97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: | Date (Month Day Year):

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: | Signature: | Date (Month Day Year):

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM. IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88) To be mailed by Michigan DNR

PR 5110 Rev. 10/94

DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties, under Sections 324.11151 or 324.12116 MCL.

Please print or type

Form Approved. OMB No. 2050-0039 Expires 9-30-96

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **MID005356888** Manifest Document No. **06397**
2. Page 1 of **2** — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
**GM POWERTRAIN GROUP**
**100 FITZGERALD ST**
**BAY CITY, MI 48708**

A. State Manifest Document Number: **MI 4355099**
B. State Generator's ID:

4. Generator's Phone ( **517** ) **894-7333**

5. Transporter 1 Company Name: **CSXT**
6. US EPA ID Number: **FLD006921340**
C. State Transporter's ID:
D. Transporter's Phone: **(800)327-5405**

7. Transporter 2 Company Name: **UNION PACIFIC RAILROAD**
8. US EPA ID Number: **NED001792910**
E. State Transporter's ID:
F. Transporter's Phone: **(201)271-4400**

9. Designated Facility Name and Site Address
**USPCI, GRAYBACK MOUNTAIN FACILITY**
**3 MI E 7 MI N EXIT 41 OFF I-80**
**CLIVE, UT 84083**

10. US EPA ID Number: **UTD991301748**
G. State Facility's ID:
H. Facility's Phone: **(801)323-8900**

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/I |
|---|---|---|---|---|---|---|---|
| a. | X **RQ HAZARDOUS WASTE,SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008)** | 001 | CM | EST. 81720 | K | D008 | H |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
**A. ERG#171, LEAD CONTAMINATED SOIL;**
**24-HOUR EMERGENCY CONTACT: 1-800-535-5053**
**OUT OF SERVICE DATE: 5-15-97**
**CONTAINER NUMBER: B0356876 NET WEIGHT: 80,000 LBS**

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

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Printed/Typed Name: **JIM JORGENSEN** Signature: **J. Jorgensen** Date: Month **07** Day **15** Year **97**

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: **DENNIS L. BATTLE** Signature: **Dennis L Battle** Date: Month **07** Day **15** Year **97**

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Signature: Date: Month Day Year

GENERATOR

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EPA Form 8700-22 (Rev. 9/88)

To be mailed by Generator to: WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF NATURAL RESOURCES P.O. BOX 30241

PR 5110 Rev. 5/95

DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

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Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356609 Manifest Document No. 06497

2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517 894-7333

A. State Manifest Document Number: MI 4355098

B. State Generator's ID:

5. Transporter 1 Company Name: CSXT

6. US EPA ID Number: FLD006921340

C. State Transporter's ID:

D. Transporter's Phone: (800)327-5405

7. Transporter 2 Company Name: UNION PACIFIC RAILROAD

8. US EPA ID Number: NED001792910

E. State Transporter's ID:

F. Transporter's Phone: (201)271-4400

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|
| a. X RQ HAZARDOUS WASTE,SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008) | 001 | CM | EST. 81720 | K | D008 | H |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171, LEAD CONTAMINATED SOIL;

24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: GNRR5146 NET WEIGHT: 180,800 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information

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GENERATOR

Printed/Typed Name: JIM JORGENSEN — Signature: J. Jorgensen — Date: Month 07 Day 15 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DENNIS L. BATTLE — Signature: Dennis L Battle — Date: Month 07 Day 15 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: — Signature: — Date: Month Day Year

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DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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1979, as amended and Act 136, P.A. 1969.

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Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-94

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDO05356668 Manifest Document No. 006577

2. Page 1 of 2

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

A. State Manifest Document Number MI 3512225

B. State Generator's ID

4. Generator's Phone ( 517 ) 894-7333

5. Transporter 1 Company Name: CSXT
6. US EPA ID Number: FLD006921340
C. State Transporter's ID
D. Transporter's Phone (800)327-5405

7. Transporter 2 Company Name: UNION PACIFIC RAILROAD
8. US EPA ID Number: NED001792910
E. State Transporter's ID
F. Transporter's Phone (201)271-4400

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748
G. State Facility's ID
H. Facility's Phone (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|---|
| a. | RQ HAZARDOUS WASTE,SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008) | X | 001 | CM | EST. 72186 | K | D008 | H |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171; LEAD CONTAMINATED SOIL;

24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: C#0351336 NET WEIGHT: 159,000 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

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Printed/Typed Name: J. JORGENSEN | Signature: J. Jorgensen | Date: Month Day Year 07 16 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DALE J. BLAIR | Signature: Dale J. Blair | Date: Month Day Year 07 16 97

18. Transporter 2 Acknowledgement or Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date: Month Day Year

GENERATOR

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DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDOO5356688 — Manifest Document No. 06697

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY
100 FITZGERALD ST
BAY CITY, MI 48708

A. State Manifest Document Number: MI 4102752

B. State Generator's ID:

4. Generator's Phone ( 517 ) 894-7273

5. Transporter 1 Company Name: LES (FS INC)

6. US EPA ID Number: MIR000014530

C. State Transporter's ID:

D. Transporter's Phone: 810-784-370

7. Transporter 2 Company Name: CSX Transportation

8. US EPA ID Number: FLD006921340

E. State Transporter's ID:

F. Transporter's Phone: (904)359-3249

9. Designated Facility Name and Site Address
USPCI - LAIDLAW
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/I |
|---|---|---|---|---|---|---|
| a. X RQ POLYCHLORINATED BIPHENYLS, MARINE POLLUTANT, 9, UN2315, PGII (026L) | 4 | CM | 10282 | K | 026L | N |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171;GB97-0098;PCB CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 411270 NET WEIGHT: 22560 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name: J. JORGENSEN — Signature: J. Jorgensen — Date: Month 07 Day 23 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DAYLE F. BLAIR — Signature: Dayle F. Blair — Date: Month 07 Day 23 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: — Signature: — Date: Month Day Year

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DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MID005356888 Manifest Document No. 06797

2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN - BAY CITY
100 FITZGERALD ST
BAY CITY, MI 48708

A. State Manifest Document Number: MI 4102760

B. State Generator's ID:

4. Generator's Phone ( 517 ) 894-7273

5. Transporter 1 Company Name: LES(FSINC)

6. US EPA ID Number: MIR000014530

C. State Transporter's ID:

D. Transporter's Phone: 810-744-3701

7. Transporter 2 Company Name: CSX Transportation

8. US EPA ID Number: FLD006921340

E. State Transporter's ID:

F. Transporter's Phone: (904)359-3249

9. Designated Facility Name and Site Address
USPCI - LAIDLAW
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801)323-8900

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/I |
|---|---|---|---|---|---|---|---|
| a. X | RQ POLYCHLORINATED BIPHENYLS, MARINE POLLUTANT, 9, UN2315, PGII (026L) | | CM | 19894 | K | 026 | L N |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |

J. Additional Descriptions for Materials Listed Above
ERG#171, GB97-0098, PCB CONTAMINATED CONCRETE, SOIL, RAGS & DEBRIS
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 5-15-97
CONTAINER NUMBER: 41099 NET WEIGHT: 43820 LBS

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: J. JORGENSEN — Signature: J. Jorgensen — Date: Month 07 Day 23 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Steven Shook — Signature: Steven Shook — Date: Month 07 Day 23 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: — Signature: — Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

PR 5110 Rev. 10

DNR
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, PA 1969

Form Approved. OMB No. 2050-0039 Expires 9-30-94

Please print or type.

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDOO83566088 Manifest Document No. 106897
2. Page 1 of 2
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

A. State Manifest Document Number MI 3512239

B. State Generator's ID

4. Generator's Phone ( 517 ) 894-7333

5. Transporter 1 Company Name CSXT YOUNGS ENVIR. 6. US EPA ID Number MID106869506

C. State Transporter's ID

D. Transporter's Phone (810)789-7155

7. Transporter 2 Company Name UNION PACIFIC RAILROAD CSXT 8. US EPA ID Number MRD001729210

E. State Transporter's ID (800)327-5405 (800)327-5405

F. Transporter's Phone (800)877-7267 (281)271-4400

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number UTD991301748

G. State Facility's ID

H. Facility's Phone (801)323-8900

| | 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). | HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|---|---|
| a. | RQ HAZARDOUS WASTE, SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008) | X | 001 | CM | 17288 | K | D008 | H |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171; LEAD CONTAMINATED SOIL; GM 97-0352 MTS 8-7-97
24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 7-15-97
CONTAINER NUMBER: 411714 NET WEIGHT: 38080 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: Jim JORGENSEN | Signature: J. Jorgenson | Date: Month 07 Day 31 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Keary Gabriel | Signature: [signature] | Date: Month 07 Day 31 Year 97

18. Transporter 2 Acknowledgement or Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Date: Month Day Year

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EPA Form 8700-22 (Rev. 9/88)

PR 5110
Rev. 10/9

# MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-94

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MIDD053566888 Manifest Document No. 068997
2. Page 1 of 2 — Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
GM POWERTRAIN GROUP
100 FITZGERALD ST
BAY CITY, MI 48708

4. Generator's Phone ( 517 ) 894-7333

A. State Manifest Document Number: MI 3512247
B. State Generator's ID: MID106869506
C. State Transporter's ID: (810) 789-7155
D. Transporter's Phone: (800) 327-5405
E. State Transporter's ID: [illegible]
F. Transporter's Phone: [illegible]
G. State Facility's ID
H. Facility's Phone: (801) 523-8900

5. Transporter 1 Company Name: CSXT YOUNGS ENVIR.
6. US EPA ID Number: FLD006921340
7. Transporter 2 Company Name: ~~UNION PACIFIC RAILROAD~~ CSXT
8. US EPA ID Number: NED001792910

9. Designated Facility Name and Site Address
USPCI, GRAYBACK MOUNTAIN FACILITY
3 MI E 7 MI N EXIT 41 OFF I-80
CLIVE, UT 84083

10. US EPA ID Number: UTD991301748

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. | N/H |
|---|---|---|---|---|---|---|
| a. X RQ HAZARDOUS WASTE, SOLID, N.O.S. (LEAD), 9, NA3077, PGIII (D008) USPCI ACCEP. No.: GM97-0352 | 001 | CM | 06819 | K | D008 | H |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |

J. Additional Descriptions for Materials Listed Above
A. ERG#171; LEAD CONTAMINATED SOIL;

24-HOUR EMERGENCY CONTACT: 1-800-535-5053
OUT OF SERVICE DATE: 7-15-97
CONTAINER NUMBER: 410367 NET WEIGHT: 15,020 LBS

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| T. JORGENSEN | J. Jorgensen | 08 01 97 |

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| Roger Gabic | [signature] | 08 01 97 |

18. Transporter 2 Acknowledgement or Receipt of Materials

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| | | |

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Date (Month Day Year) |
|---|---|---|
| | | |

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EPA Form 8700-22 (Rev. 9/88) Michigan EQR PR 5110 Rev. 10/92