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TECHNICAL MEMORANDUM Number 1

MACHINE STORAGE AREA, LAGOON AREA AND PERIMETER BANKS

Prepared for:

GM POWERTRAIN

GENERAL MOTORS
POWERTRAIN DIVISION

BAY CITY, MICHIGAN

July 1, 1994

McLaren Hart sm

ENVIRONMENTAL ENGINEERING CORPORATION

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June 30, 1994

Mr. Allan C. Brouillet
Michigan Department of Natural Resources
Saginaw Bay District Headquarters
Environmental Response Division
503 N. Euclid Avenue
Bay City, Michigan 48706

SUBJECT: SUBMITTAL OF TECHNICAL MEMORANDUM NUMBER ONE
GENERAL MOTORS CORPORATION/STATE OF MICHIGAN
BAY CITY ON-SITE CONSENT JUDGMENT,
CIVIL ACTION NO. 92-3740-CE

Dear Mr. Brouillet:

Enclosed is Technical Memorandum Number One for the General Motors Corporation (GM)/State of Michigan Bay City On-Site Consent Judgment (Civil Action No. 92-3740-CE) for GM-Powertrain Division Bay City Plant located in Bay City, Michigan. The submission of this report is pursuant to Section 13 "Reports", subsection 13.3 of the RI/FS work plan.

Please contact the undersigned if you have questions or require any clarifications on content of the report. You may reach us at (810) 358-0400.

Sincerely,

McLAREN/HART ENGINEERS MIDWEST, INC.

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TECHNICAL MEMORANDUM NUMBER 1
MACHINE STORAGE AREA, LAGOON AREA, AND PERIMETER BANKS

GENERAL MOTORS POWERTRAIN DIVISION
BAY CITY PLANT
BAY CITY, MICHIGAN

JULY 1, 1994

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TECHNICAL MEMORANDUM NUMBER 1
MACHINE STORAGE AREA, LAGOON AREA, AND PERIMETER BANKS

1.0 INTRODUCTION

Technical Memorandum Number 1 addresses the Machine Storage Area (MSA), the Lagoon Area (LA), and the Perimeter Banks (PB) study areas of the General Motors Powertrain (GMPT) Bay City Plant (Plant), 100 Fitzgerald Street, Bay City, Michigan. The location of the GMPT Plant is shown on Figure 1-1.

This Technical Memorandum has been prepared pursuant to the General Motors Corporation (GM) / State of Michigan On-Site Consent Judgment dated December 14, 1992 (Civil Action No. 92-3740-CE) and presents a tabulated summary of data and a preliminary discussion on the findings from the Remedial Investigation currently being performed at the GMPT Bay City Plant. This Technical Memorandum does not include copies of individual drilling logs, well construction details, or laboratory analytical data. These data have been previously submitted to the Michigan Department of Natural Resources (MDNR) as part of the monthly data transmittals.

All work performed as part of this investigation has been consistent with the approved work plan for the site entitled, "RI/FS Work Plan, General Motors Powertrain Division, Bay City Plant, Bay City, Michigan", dated December 1992.

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2.0 DESCRIPTION OF STUDY AREAS

Commercial and industrial activities that have historically occurred on the GMPT property include: a salt company, a lumber mill, a wooden pipe manufacturing company with creosoting operations, a bicycle manufacturing company, and automobile parts manufacturing. Chevrolet Motor Company and General Motors have occupied portions of the property since 1916. Figure 2-1 is a map showing the location of the three study areas with respect to the GMPT Plant and the Saginaw River.

The three study areas addressed by this Technical Memorandum are located in the northwestern portion of the Plant, immediately adjacent to the Saginaw River. All three of these areas are underlain by manmade fill which was placed as early as the 1860's. Historical records indicate that the property has been in continuous commercial and industrial usage since that time.

2.1 Machine Storage Area

The *Machine Storage Area* is a relatively flat area, approximately five acres in size, with a land surface elevation about 6 to 8 feet above the low water stage of the Saginaw River. The *Machine Storage Area* as originally defined by GM was bounded by water on three sides; however in 1989, a *Deep Soil Mixing Wall*[1] was installed around the entire perimeter as a subsurface vertical barrier. This wall extends to a depth of 28.5 to 67 feet below ground surface and is terminated in a thick, laterally continuous clay (Clay Till). As defined by the Consent Judgment the *Deep Soil Mixing Wall* now forms the perimeter of the *Machine Storage Area* when adjacent to the *Perimeter Banks*. The area between this subsurface barrier and the river represents a portion of the *Perimeter Banks* study area. Figure 2-1 shows the location of the *Machine Storage Area* with

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[1] The *Deep Soil Mixing Wall* was constructed using a soil-bentonite mixture to achieve a low permeability barrier. A large diameter augering machine using four, 36-inch diameter solid stem augers aligned in series was used to mix the soil. Supplemental injection grouting was locally used along the wall alignment to reduce the in-situ permeability in areas where drilling to the planned *Mixing Wall* termination depth was not possible.

Shallow groundwater extraction wells, screened at depths of 12 to 17 feet below ground surface, are placed along the interior of the *Deep Soil Mixing Wall*. These wells are operated continuously, except during the winter months at which time they are shut off. These wells are intended to reduce groundwater levels within the containment area and to maintain a constant inward groundwater flow direction. Discharge from these extraction pumps accumulates within a concrete sump within the interior of the *Machine Storage Area* and is periodically pumped for treatment at the GMPT storm and cooling wastewater treatment plant.

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respect to the *Perimeter Banks* and the Saginaw River and adjoining inlets. Prior to 1986, the *Machine Storage Area* was used for temporary storage of used automotive manufacturing equipment (machines).

From a current development point of view, the *Machine Storage Area* can be separated into two areas:

1) A northern and western portion which is unpaved and vegetated with a light growth of native grasses, small trees, and brush. A clay capped mound installed pursuant to a previous TSCA Consent Order with the USEPA and known as the "ski jump" is present in the southern portion of this area. A second soil mound is also present in this area and consists of surplus bentonite enriched soil from the placement of the *Deep Soil Mixing Wall.*

2) An eastern portion which is developed and includes two 200,000 gallon, aboveground fuel storage tanks, and a surrounding soil bermed secondary containment impoundment. A concrete paved roadway surrounds the secondary containment berm. Along the west side of the storage tanks at the roadway is an off-loading station for fuel trucks; on the east side is a brick pump house.

From a rainwater runoff point of view, the *Machine Storage Area* is isolated from the remainder of the GMPT Plant. Rainwater runoff originating in the *Machine Storage Area* is directed to an interior collection basin where it accumulates and is periodically pumped for treatment at the GMPT storm and cooling wastewater treatment plant.

2.2 Lagoon Area

The *Lagoon Area* is situated east of the *Machine Storage Area* and is surrounded in entirety by a *Deep Soil Mixing Wall.* This subsurface vertical barrier was installed at the same time as the one surrounding the *Machine Storage Area*, but they are not connected to one another. Two sides of the *Lagoon Area* are situated near the river, and the area between the river and the wall represents a portion of the *Perimeter Banks* study area. Figure 2-1 shows the location of the *Lagoon Area* with respect to the *Perimeter Banks* and the Saginaw River and adjoining inlet.

The *Lagoon Area* consists of an East and West Lagoon, both of which are lined[2]. The two lagoons are connected via piping and are used primarily for 1) storm water runoff accumulation and treatment, and 2) treatment and re-use of non-contact coolant water

[2] A letter report prepared by McLaren/Hart, dated March 31, 1994, and submitted to the MDNR presents data that indicates that leakage from the East Lagoon occurs when the water elevation in the East Lagoon is above elevation 585 feet. GMPT Plant personnel now maintain water levels below this elevation in the East Lagoon.

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from the GMPT Plant. Water conveyed to the lagoons is skimmed to remove potential surface oils, and then processed through multimedia filters and granulated activated carbon. The water is then directed to a cooling tower and re-used in the Non-Contact Cooling Water System, or discharged to the Saginaw River. The outfall to the Saginaw River is located at the north end of the West Lagoon.

The lagoons are also used for containment and treatment of groundwater that is extracted from the interior perimeter of the *Lagoon Area Deep Soil Mixing Wall*. A groundwater containment system similar to that at the *Machine Storage Area* is in operation and maintains a constant inward groundwater flow direction to the *Lagoon Area*.

2.3 Perimeter Banks

The *Perimeter Banks* is a relatively thin strip of land along the perimeter of the *Machine Storage Area* and the *Lagoon Area*, adjacent to the Saginaw River and the Inlet Slip. The *Deep Soil Mixing Wall* that is present at both of these areas defines the landward limits of the *Perimeter Banks*. Figure 2-1 shows the location of the *Perimeter Banks* with respect to the *Machine Storage Area*, the *Lagoon Area*, the Saginaw River and adjoining the inlets.

The ground surface along the *Perimeter Banks* is generally covered with sandy soil or concrete rip-rap; however, a portion of the Inlet Slip is protected with metal sheet piling. A light growth of native grasses, shrubs, and trees are present along the waters edge.

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3.0 SCOPE OF WORK

The scope of the remedial investigation conducted in the *Machine Storage Area, the Lagoon Area,* and the *Perimeter Banks* are consistent with the approved work plan for the site entitled, "RI/FS Work Plan, General Motors Powertrain Division, Bay City Plant, Bay City, Michigan", dated December 1992, as amended per an approved change in the soil boring program dated May 13, 1993.

Summary tables of all chemical compounds/metals detected for each analytical method have been prepared for each of the three areas. These summary tables are presented as Appendices A through F and contain the following:

- Appendix A Machine Storage Area Soil Analytical Data
- Appendix B Machine Storage Area Groundwater and Surface Water Analytical Data
- Appendix C Lagoon Area Soil and Shallow Lagoonal Sediment Analytical Data
- Appendix D Lagoon Area Groundwater Analytical Data
- Appendix E Perimeter Banks Soil Analytical Data
- Appendix F Perimeter Banks Groundwater and Surface Water Analytical Data

3.1 Machine Storage Area

The scope of the investigations included:

- Drilling and soil sampling of 31 soil borings and the analysis of selected samples for polychlorinated biphenyls (PCBs) and pesticides, chlorinated and aromatic volatile organic compounds, semi-volatile organic compounds, inorganic metals (25 metals), cyanide, and dioxins and furans. Soil boring locations are shown on Figure 3-1.

- Drilling, construction, and development of 10 groundwater wells. Four of these wells were completed as shallow wells, and six were completed as deep wells. Monitoring well locations are shown on Figure 3-2.

- Sampling and analysis of all newly constructed and selected existing groundwater wells on two occasions; 24 wells were sampled and analyzed during the initial sampling round, and 26 during the second sampling round. Sampling of all wells during the initial sampling round was not possible because some of the wells were dry or did not contain sufficient water for sampling. During each sampling round, selected wells were analyzed for PCBs and pesticides (filtered and unfiltered samples), chlorinated and aromatic volatile organic compounds, semi-volatile organic compounds, inorganic metals (25 metals; filtered samples), cyanide, dioxins and furans.



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- Monthly water elevation sounding of wells and staff gages.

3.2 Lagoon Area

The scope of the investigations included:

- Drilling and soil sampling of 31 soil borings and 5 shallow sediment samples. Selected samples were analyzed for PCBs and pesticides, chlorinated and aromatic volatile organic compounds, semi-volatile organic compounds, inorganic metals (25 metals), cyanide, and dioxins and furans. Soil boring locations are shown on Figure 3-3. Shallow lagoonal sediment sampling locations are shown on Figure 3-4.

- Drilling, construction, and development of 6 groundwater wells. Two of these wells were completed as shallow wells, and 4 were completed as deep wells. Monitoring well locations are shown on Figure 3-5.

- Sampling and analysis of all newly constructed and selected existing groundwater wells on two occasions; 19 wells were sampled and analyzed during the initial sampling round, and 18 during the second sampling round. Sampling of all wells during both sampling rounds (21 wells total) was not possible because some of the wells were dry or did not contain sufficient water for sampling. During each sampling round, selected wells were analyzed for PCBs and pesticides (filtered and unfiltered samples), chlorinated and aromatic volatile organic compounds, semi-volatile organic compounds, inorganic metals (25 metals; filtered samples), cyanide, dioxins and furans.

- Monthly water elevation sounding of wells and staff gages.

3.3 Perimeter Banks

The scope of the investigations included:

- Drilling and soil sampling of 38 soil borings and the analysis of selected samples for PCBs and pesticides, chlorinated and aromatic volatile organic compounds, semi-volatile organic compounds, inorganic metals (25 metals), cyanide, and dioxins and furans. Soil boring locations are shown on Figure 3-6.

- Drilling, construction, and development of 11 groundwater wells. Three of these wells were completed as shallow wells, and 8 were completed as deep wells. Monitoring well locations are shown on Figure 3-7.

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- Sampling and analysis of all newly constructed and selected existing groundwater wells on two occasions; 9 wells were sampled and analyzed during the initial sampling round, and 11 during the second sampling round. Sampling of all wells during both sampling rounds (12 wells total) was not possible because some of the wells were dry or did not contain sufficient water for sampling.. During each sampling round, selected wells were analyzed for PCBs and pesticides (filtered and unfiltered samples), chlorinated and aromatic volatile organic compounds, semi-volatile organic compounds, inorganic metals (25 metals; filtered samples), cyanide, dioxins and furans.

- Monthly water elevation sounding of wells and staff gages.

3.4 Surface Water

The scope of the investigation included the collection and analysis of 3 surface water samples from the *Machine Storage Area* and 7 samples from the *Perimeter Banks*. Surface water samples were collected at all locations, except one of the *Perimeter Banks* locations (SW304) which did not contain sufficient water for sampling. All samples were collected within 12 hours of a rainfall event from shallow depressions on the ground surface. All samples were analyzed for PCBs and pesticides, chlorinated and aromatic volatile organic compounds, semi-volatile organic compounds, inorganic metals (25 metals; filtered samples), cyanide, dioxins and furans. Surface water samples for the *Machine Storage Area* are shown on Figure 3-8; surface water samples for the *Perimeter Banks* are shown on Figure 3-9.

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4.0 DISCUSSION

The discussion section presents a summary of geologic findings from the drilling of soil borings and monitoring wells, interpretation of water elevation data from monthly water elevation sounding of the monitoring wells and staff gages, and an evaluation of the soil and groundwater analytical data. The analytical data evaluation includes the total number of samples that the analyte was detected in per medium, the detected concentration range, published background ranges (metals only), and general comments, e.g. the location, depth interval, and observed relationship with other analytes, etc.

4.1 Hydrogeologic Conditions

Site hydrogeologic conditions are separated for discussion into site geology and site hydrogeology.

4.1.1 Site Geologic Conditions

Four distinct geologic units have been identified during previous investigations, and all four of these units are present beneath the *Machine Storage Area, the Lagoon Area,* and the *Perimeter Banks*. These geologic units are as follows:

- Shallow Fill Material
- Intermediate Confining Unit
- Deep Sand Unit
- Clay Till Unit

Geologic cross-sections showing the relationship of these four units beneath the *Machine Storage Area* and surrounding *Perimeter Banks* are shown on Figures 4-1 and 4-2. Cross-sections of the *Lagoon Area* and surrounding *Perimeter Banks* are shown on Figures 4-3 and 4-4.

Shallow Fill

Shallow fill is present on the ground surface and extends to depths of 10 to 18 feet below ground surface. Fill thickness in generally greatest within the northern portions of all three areas.

Shallow fill placement has occurred since the 1860's and includes dredge spoils from the Saginaw shipping channel. The fill additionally includes construction debris generated from the razing of previously existing buildings and from former companies that occupied the property.

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The shallow fill typically consists of a fine sand and silty sand with shell debris and wood fragments. Groundwater is present within this unit, and is generally encountered within 10 feet of the ground surface.

Intermediate Confining Unit

The Intermediate Confining Unit underlies the fill and is a natural in-place, low flow regime fluvial deposit. It is typically a dark grey to green silty clay. Admixtures of sand and fine gravel are occasionally present, along with shell debris.

The Intermediate Confining Unit is laterally persistent and varies in thickness from 2 feet to 6 feet. This unit is thinnest immediately north of the railroad tracks, which generally corresponds to the edge of the Saginaw River prior to fill placement.

Deep Sand Unit

The Deep Sand Unit is a relatively clean fine sand with traces of fine gravel. It is a fluvial sand deposit and shows a progressive increase in thickness in a northerly direction, where a thickness of over 40 feet has been encountered. The Deep Sand Unit pinches out in a southerly direction and the railroad tracks define the southern extent of this deposit.

This unit is fully saturated and static water level elevations typically rise above the top of this unit.

Clay Till Unit

The Clay Till is an olive to gray highly plastic silty clay with traces of coarse sand and fine gravel. The thickness of this unit is approximately 35 feet.

No groundwater is present in Clay Till and this units forms a laterally persistent vertical barrier.

4.1.2 Site Hydrologic Conditions

Groundwater is present within the Shallow Fill and also the Deep Sand Unit. Wells that are completed within the Shallow Fill and near surface soils are identified as shallow wells, and wells completed within the Deep Sand Unit are identified as deep wells.

Shallow Wells

Groundwater contour elevation data for two dates (August 1993 and January 1994) are presented on Figures 4-5 and 4-6, respectively. The August 1993 elevation data are presented because it corresponds to the date when the initial round of groundwater

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sampling and analyses was conducted. The January 1994 data was selected because it corresponds to a period when the shallow hydraulic control pumps for the *Deep Soil Mixing Wall* were not in operation.

Review of these figures indicates the following:

- Groundwater flow direction beneath the GMPT Manufacturing Building, which is located south of the three areas of interest, is to the north, or towards the river.

- Groundwater flow direction is reversed in the northern portion of the GMPT Plant and indicates that the river and adjacent inlets recharge the Shallow Fill. Elevation data for January 1994 show a groundwater depression south of the *Lagoon Area* and east of the *Machine Storage Area*. The depression emphasizes the reversal in groundwater flow direction and indicates stagnant groundwater flow conditions within this defined area.

- The effectiveness of the *Deep Soil Mixing Wall*, around the perimeter of the *Machine Storage Area* and *Lagoon Area*, as a groundwater barrier is clearly illustrated by water elevation data for wells on both sides of this low permeability wall. Water elevations for wells located in the interior are typically lower and differences of 1 to 2 feet are frequently observed. An exception is groundwater well MSA4S which is located in the interior of the *Machine Storage Area*. The water elevation in this well is higher than any of the surrounding wells and is believed to be caused by ponding of surface runoff water in this area. Although the water level is higher, data supports the effectiveness of the barrier in containing groundwater.

Deep Wells

Review of groundwater elevation data for the deep wells indicates that essentially a flat groundwater gradient exists beneath the majority of the GMPT Plant. The differences in well elevations are generally less than 1 foot and construction of a meaningful contour map is not possible.

4.2 Distribution of Chemicals in Soil

Soil samples from the *Machine Storage Area*, the *Lagoon Area*, and the *Perimeter Banks* were analyzed for the following constituents:

- PCBs and pesticides
- Volatile Organic Compounds
- Semi-Volatile Organic Compounds
- Metals and Cyanide

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- Dioxins and Furans

The discussion presented below focuses on each of these constituent suites, and generally addresses all three areas as a whole. Where analytical data show a relationship to existing structures or features within an area, then the discussion is centered on the areas.

4.2.1 Polychlorinated Biphenyls (PCBs)

Soil samples were analyzed for 9 PCB Aroclors. Three Aroclors (1242, 1248, and 1260) were detected in soil samples from the three areas addressed by this Technical Memorandum. Aroclor 1248 is the primary PCB detected beneath all three areas and was detected in over 99 percent of the samples which had detectable PCB concentrations. Aroclor 1260 was found 3 times in soil samples from the *Machine Storage Area*, whereas Aroclor 1242 was detected in only one sample from the *Lagoon Area*.

Aroclor 1248 was detected in 157 of 294 samples collected and analyzed from the *Machine Storage Area* and surrounding *Perimeter Banks*. It was detected in 55 of 208 samples collected and analyzed from the *Lagoon Area* and surrounding *Perimeter Banks*. The laboratory detection limit was generally 0.33 ppm.

Machine Storage Area and Surrounding Perimeter Bank

Aroclor 1248 is the only PCB detected in the *Perimeter Banks* and constituted the majority of the PCBs detected in the *Machine Storage Area*. It was detected in 82 of 161 samples in the *Machine Storage Area*, and 75 of 133 samples in the surrounding *Perimeter Banks*. The laboratory detection limit was generally 0.33 ppm.

Review of data shows the presence of detectable PCB concentrations throughout this area. The vertical extent of PCBs is generally limited to the Shallow Fill and underlying Intermediate Confining Unit; however, PCBs appear to be locally present at low levels in the underlying Deep Sand, and the upper portion of the Deep Clay Till. Cross-sections of the *Machine Storage Area* with superimposed PCB analytical data are presented on Figures 4-7 and 4-8. The limits of PCBs in the subsurface above the laboratory detection limit (0.33 ppm) are shown on these figures also.

Review of the Figures 4-7 and 4-8 shows three areas where PCBs are detected below the Intermediate Confining Bed. These areas are 1) the aboveground storage tanks and fuel loading area, 2) the topographic low within the central portion of *Machine Storage Area* where rainwater runoff is directed and accumulates, prior to pumping to the GMPT storm and cooling wastewater treatment plant, and 3) adjacent to the *Deep Soil Mixing Wall*.

- Aboveground Storage Tank Area - Analytical data indicate that PCBs extend downward to the Clay Till in this area (approximately 60 feet below ground

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surface). PCB concentrations rapidly decrease with depth, and no PCB concentrations above 10 ppm are present below the Intermediate Confining Unit (approximately 25 feet below ground surface). The vertical extent of the PCBs above laboratory detection limits is not defined in this area (the deepest soil sample collected from soil boring BH113 detected PCBs (Aroclor 1248) at a concentration of 0.55 ppm).

- Topographic Low in Central Portion of *Machine Storage Area* - Analytical data indicate that PCBs extend into the Deep Sand Unit in this area (approximately 35 feet below ground surface). PCB concentrations within this sand unit vary from non-detect (<0.33 ppm) to 2.2 ppm.

- Deep Soil Mixing Wall - Analytical data indicate that placement of the *Deep Soil Mixing Wall* may have led to the localized presence of PCBs at depths greater than otherwise possible. Data from soil boring BH120 indicate the presence of PCBs at two depths in this boring; within the Surface Fill (approximately 0 to 10 feet below ground surface) and near the bottom of the boring near the Deep Sand/Clay Till contact (about 40 feet below ground surface). The soils between these two depth intervals contain no detectable PCBs. It is believed that sloughing may have occurred during the construction of the *Deep Soil Mixing Wall* and that the low PCB concentrations (0.44 ppm) detected near the bottom of BH120 are the result of the incorporation and mixing of near surface soils into the wall during the construction operation.

Lagoon Area and Surrounding Perimeter Bank

PCBs are detected in the soils that surround the East and West Lagoons and also the shallow sediments beneath the East Lagoon. The distribution of PCBs in both of these areas are discussed below.

- Lagoon Perimeter Soils (includes surrounding *Perimeter Banks*) - PCBs are detected in 37 of the 154 samples from the *Lagoon Area* and 18 of 54 samples from the surrounding *Perimeter Banks*. The vertical extent of the PCBs is generally limited to the Shallow Fill and the Intermediate Confining Unit; however, PCBs appear to be locally present at low levels in the underlying Deep Sand. Cross-sections of the *Lagoon Area* with superimposed PCB analytical data are presented on Figures 4-9 and 4-10. The limits of PCBs in the subsurface above the laboratory detection limit (0.33 ppm) are shown on these figures also.

  Review of Figures 4-9 and 4-10 shows that PCB impacted soils generally are present from the surface to about 10 feet below the ground surface. Figure 4-9 additionally shows that PCB impacted soils in the vicinity of BH216 extend to a greater depth (about 30 feet below ground surface) and penetrate the



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Intermediate Confining Unit and underlying Deep Sand. The cause for the greater PCB penetration depth is most-likely related to the elevated PCB concentrations detected at a depth of 12 to 14 feet in this boring (4,200 ppm).

PCBs are reportedly present in the Deep Sand Unit in four other borings within the *Lagoon Area* and surrounding *Perimeter Banks* (BH221, BH229, BH331, and BH332) and are discussed below:

- The PCB concentration reported for the Deep Sand sample from BH221 (36 to 40 feet) is anomalously high (390 ppm) and is considered suspect. The concentration and presence of PCBs is considered suspect because 1) the highest concentration detected in other samples from this boring is 2.4 ppm, 2) the samples collected from both above and below this sample are non-detect (<0.33 ppm), and 3) none of the soil borings located within 50 feet of this boring had a detected PCB concentration greater than 55 ppm.

- The PCB concentration reported for the Deep Sand sample from BH229 (24 to 28 feet) was 0.44 ppm. This concentration is generally consistent with other analytical data from this boring. BH229 is located in the southeastern portion of the *Lagoon Area* adjacent the *Undeveloped Area.*

- Borings BH331 and BH332 are *Perimeter Banks* borings and are located at the northwest corner of the West Lagoon, adjacent to the *Deep Soil Mixing Wall.* Sloughing of shallow PCB-bearing soils during excavation and construction of this low permeability barrier can explain the presence of PCBs within the Deep Sand at this location.

- Shallow Sediments Beneath East Lagoon

  Five shallow borings were drilled within the interior of the East Lagoon to investigate the shallow sediments below the lagoon/sediment interface (depth of investigation varies from 4 to 7 feet below the interface). PCBs (Aroclor 1248) were detected in all borings and in 14 of the 18 samples analyzed. The highest concentrations were detected in the uppermost sediments and the concentrations generally decreased with depth. An exception is soil boring SD234 in which the highest concentration was detected at 4 to 5 feet. Review of data from this boring shows it was drilled deeper than the other borings and that two downward decreasing sequences are encountered; one at the water/sediment interface and the other at 4 to 5 feet (see semi-volatile organic and metals data for further support of this observation).

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4.2.2 Volatile Organic Compounds

A total of 15 volatile organic compounds were detected (reportedly present) in the 228 soil samples analyzed from the *Machine Storage Area*, the *Lagoon Area* (includes both soil and shallow sediment samples), and the *Perimeter Banks*. Two of these compounds are frequent laboratory artifacts (acetone and methylene chloride) and are considered suspect. A discussion of the 15 volatile organic compounds detected (reported) are presented below:

The most frequently detected compounds are the following:

- Acetone - reportedly present in 60 of the 228 soil samples at concentrations that range from 0.12 ppm to 29 ppm; where reported, it is generally present in a majority of the soil samples from a boring. Acetone is reportedly present in all geologic units. The presence of this compound is considered suspect.

- Methylene Chloride - reportedly present in 17 of the 228 soil samples at concentrations that range from 0.012 ppm to 0.035 ppm; where reported, it may be present in all or multiple soil samples from a boring. Methylene chloride is reportedly present in all geologic units. The presence of this compound is considered suspect.

- 1,2-Dichloroethylene (1,2-DCE) - detected in 9 of the 228 soil samples at concentrations that range from 0.012 ppm to 220 ppm. In the *Machine Storage Area* and surrounding *Perimeter Banks*, 1,2-DCE was detected in 3 borings and was present in the Shallow Fill and underlying Intermediate Confining Unit. In the *Lagoon Area*, 1,2-DCE was detected in 1 boring (BH216) and was continuously present from the ground surface to the bottom of the boring. The Clay Till sample at the bottom of this boring had a 1,2-DCE concentration of 0.088 ppm.

- Xylenes - detected in 7 of the 228 soil samples at concentrations that range from 0.058 ppm to 3.0 ppm. It is detected in soil borings in the *Machine Storage Area* and surrounding *Perimeter Banks*, and also in the shallow lagoonal sediments in the *Lagoon Area*. Xylenes are detected in the Shallow Fill only.

- Ethylbenzene - detected in 6 of the 228 soil samples at concentrations that range from 0.011 ppm to 0.47 ppm. It is detected in soil borings in the *Machine Storage Area* and surrounding *Perimeter Banks*, and also in the shallow lagoonal sediments in the *Lagoon Area*. Ethylbenzene is detected in the Shallow Fill only.

- Trichloroethene (TCE) - detected in 5 of the 228 soil samples at concentrations that range from 0.02 ppm to 40 ppm. In the *Machine Storage Area* and

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surrounding *Perimeter Banks*, TCE was detected in 1 boring (BH317) and was present in the Shallow Fill. In the *Lagoon Area*, TCE was detected in 1 boring (BH216) and was continuously present from the Shallow Fill to the Clay Till at bottom of the boring. The Clay Till sample at the bottom of this boring had a TCE concentration of 0.041 ppm.

- Toluene - detected in 4 of the 228 soil samples at concentrations that range from 0.019 ppm to 0.3 ppm. It is detected in 4 soil borings in the *Machine Storage Area* and surrounding *Perimeter Banks* within the Shallow Fill and underlying Intermediate Confining Unit.

- 1,1,1-Trichloroethane (1,1,1-TCA)- detected in 4 of the 228 soil samples at concentrations that range from 0.014 ppm to 0.025 ppm. In the *Machine Storage Area*, 1,1,1-TCA was detected in 1 boring. In the *Lagoon Area* and surrounding *Perimeter Banks*, 1,1,1-TCA was detected in 2 soil borings and in 1 of the lagoon sediment borings. In all of these borings 1,1,1-TCA was detected in the deepest sample collected. For the soil borings this sample was collected from the Clay Till.

- Benzene - detected in 3 of the 228 soil samples at concentrations that range from 0.020 ppm to 0.059 ppm. It is detected in 3 soil borings in the *Machine Storage Area* and surrounding *Perimeter Banks* within the Shallow Fill only.

All remaining volatile organic compounds were detected in only 1 or 2 samples of the 228 samples collected and analyzed. The volatile organic compounds detected and the detected concentrations are as follows:

- 2-Butanone - detected in 2 samples in the *Machine Storage Area* and surrounding *Perimeter Banks*. The detected concentrations were 0.11 ppm and 0.62 ppm.

- Chlorobenzene - detected in 1 sample from the *Perimeter Banks* surrounding the *Machine Storage Area*. The detected concentration was 0.064 ppm.

- 2-Hexanone - detected in 1 sample from the *Perimeter Banks* surrounding the *Machine Storage Area*. The detected concentration was 1.8 ppm.

- 1,1,2-Trichloroethane (1,1,2-TCA) - detected in 1 sample from the *Perimeter Banks* surrounding the *Machine Storage Area*. The detected concentration was 0.031 ppm.

- Vinyl Chloride - detected in 1 sample from the *Perimeter Banks* surrounding the *Machine Storage Area*. The detected concentration was 0.063 ppm.

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- 1,1-Dichloroethene (1,1-DCE) - detected in 1 sample from the shallow sediment borings within the *Lagoon Area*. The detected concentration was 0.039 ppm.

4.2.3 Semi-Volatile Organic Compounds

A total of 26 semi-volatile organic compounds were detected in the 230 soil samples analyzed from the *Machine Storage Area*, the *Lagoon Area* (includes both soil and shallow sediment samples), and the *Perimeter Banks*.[3] A discussion of the 26 compounds detected are presented below:

The most frequently detected compounds are the following:

- Bis(2-Ethylhexl) Phthalate - detected in 118 of the 230 soil samples at concentrations that range from 0.025 ppm to 11 ppm. It is detected in soil borings in the *Machine Storage Area*, the *Lagoon Area* soils and shallow lagoonal sediments, and the *Perimeter Banks*. Bis(2-Ethylhexl) Phthalate is detected in the Shallow Fill, Intermediate Confining Unit, the Deep Sand Unit, and the Clay Till. Detectable concentrations are present in several of the borings in the deepest samples collected and analyzed. Bis(2-Ethylhexl) Phthalate can occur as a possible laboratory artifact.

- Pyrene - detected in 79 of the 230 soil samples at concentrations that range from 0.03 ppm to 26 ppm. Pyrene is detected in soil borings in the *Machine Storage Area*, the *Lagoon Area* soils and shallow lagoonal sediments, and the *Perimeter Banks*. It is detected in the Shallow Fill, Intermediate Confining Unit, and the Deep Sand Unit.

- Fluoranthene - detected in 78 of the 230 soil samples at concentrations that range from 0.03 ppm to 31 ppm. It is detected in soil borings in the *Machine Storage Area*, the *Lagoon Area* soils and shallow lagoonal sediments, and the *Perimeter Banks*. Fluoranthene is detected in the Shallow Fill, Intermediate Confining Unit, and the Deep Sand Unit.

- Phenanthrene - detected in 76 of the 230 soil samples at concentrations that range from 0.032 ppm to 38 ppm. Phenanthrene is detected in soil borings in the *Machine Storage Area*, the *Lagoon Area* soils and shallow lagoonal sediments, and the *Perimeter Banks*. It is detected in the Shallow Fill, Intermediate Confining Unit, and the Deep Sand Unit.

[3] Does not include 357 laboratory tentatively identified compounds, or 8 compounds which were estimated and below the laboratory method reporting limits.

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- Chrysene - detected in 63 of the 230 soil samples at concentrations that range from 0.027 ppm to 11 ppm. Chrysene is detected in soil borings in the *Machine Storage Area*, the *Lagoon Area* soils and shallow lagoonal sediments, and the *Perimeter Banks*. It is detected in the Shallow Fill, Intermediate Confining Unit, and the Deep Sand Unit.

- Benzo(A)Pyrene - detected in 59 of the 230 soil samples at concentrations that range from 0.04 ppm to 11 ppm. Benzo(A)Pyrene is detected in soil borings in the *Machine Storage Area*, the *Lagoon Area* soils and shallow lagoonal sediments, and the *Perimeter Banks*. It is detected in the Shallow Fill, Intermediate Confining Unit, and the Deep Sand Unit.

- Benzo(B)Fluoranthene - detected in 59 of the 230 soil samples at concentrations that range from 0.03 ppm to 19 ppm. It is detected in soil borings in the *Machine Storage Area*, the *Lagoon Area* soils and shallow lagoonal sediments, and the *Perimeter Banks*. Benzo(B)Fluoranthene is detected in the Shallow Fill, Intermediate Confining Unit, and the Deep Sand Unit.

- Benzo(A)Anthracene - detected in 57 of the 230 soil samples at concentrations that range from 0.03 ppm to 14 ppm. Benzo(A)Anthracene is detected in soil borings in the *Machine Storage Area*, the *Lagoon Area* soils and shallow lagoonal sediments, and the *Perimeter Banks*. Benzo(A)Anthracene is detected in the Shallow Fill, Intermediate Confining Unit, and the Deep Sand Unit.

- Anthracene - detected in 48 of the 230 soil samples at concentrations that range from 0.02 ppm to 6.9 ppm. It is detected in soil borings in the *Machine Storage Area*, the *Lagoon Area* soils and shallow lagoonal sediments, and the *Perimeter Banks*. Anthracene is detected in the Shallow Fill, Intermediate Confining Unit, and the Deep Sand Unit.

- Benzo(G, H,I)Perylene - detected in 45 of the 230 soil samples at concentrations that range from 0.03 ppm to 4.8 ppm. It is detected in soil borings in the *Machine Storage Area*, the *Lagoon Area* soils and shallow lagoonal sediments, and the *Perimeter Banks*. Benzo(G,H,I)Perylene is detected in the Shallow Fill, Intermediate Confining Unit, and the Deep Sand Unit.

- Indeno(1,2,3-CD)Pyrene - detected in 46 of the 230 soil samples at concentrations that range from 0.04 ppm to 4.7 ppm. Indeno(1,2,3-CD)Pyrene is detected in soil borings in the *Machine Storage Area*, the *Lagoon Area* soils and shallow lagoonal sediments, and the *Perimeter Banks*. It is detected in the Shallow Fill, Intermediate Confining Unit, and the Deep Sand Unit.

- Benzo(K)Fluoranthene - detected in 34 of the 230 soil samples at concentrations that range from 0.02 ppm to 3.3 ppm. Benzo(K)Fluoranthene is detected in soil



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borings in the *Machine Storage Area*, the *Lagoon Area* soils and shallow lagoonal sediments, and the *Perimeter Banks*. It is detected in the Shallow Fill, Intermediate Confining Unit, and the Deep Sand Unit.

- Naphthalene - detected in 24 of the 230 soil samples at concentrations that range from 0.05 ppm to 10 ppm. Naphthalene is detected in soil borings in the *Machine Storage Area*, the *Lagoon Area* soils and shallow lagoonal sediments, and the *Perimeter Banks*. It is detected in the Shallow Fill, Intermediate Confining Unit, and the Deep Sand Unit.

- Acenaphthene - detected in 22 of the 230 soil samples at concentrations that range from 0.02 ppm to 6.6 ppm. It is detected in soil borings in the *Machine Storage Area*, the *Lagoon Area* soils and shallow lagoonal sediments, and the *Perimeter Banks*. Acenaphthene is detected in the Shallow Fill, Intermediate Confining Unit, and the Deep Sand Unit.

- Fluorene - detected in 19 of the 230 soil samples at concentrations that range from 0.03 ppm to 6 ppm. It is detected in soil borings in the *Machine Storage Area*, the *Lagoon Area* soils and shallow lagoonal sediments, and the *Perimeter Banks*. Fluorene is detected in the Shallow Fill, Intermediate Confining Unit, and the Deep Sand Unit.

- 2-Methyl Naphthalene - detected in 15 of the 230 soil samples at concentrations that range from 0.04 ppm to 1.9 ppm. 2-Methyl Naphthalene is detected in soil borings in the *Machine Storage Area*, the *Lagoon Area* soils and shallow lagoonal sediments, and the *Perimeter Banks*. It is detected in the Shallow Fill, Intermediate Confining Unit, and the Deep Sand Unit.

- Carbazole - detected in 14 of the 230 soil samples at concentrations that range from 0.02 ppm to 4.2 ppm. It is detected in soil borings in the *Machine Storage Area* and the surrounding *Perimeter Banks*. Carbazole is detected in the Shallow Fill, Intermediate Confining Unit, and the Deep Sand Unit.

- Dibenzofuran - detected in 14 of the 230 soil samples at concentrations that range from 0.06 ppm to 4.3 ppm. It is detected in soil borings in the *Machine Storage Area* and the surrounding *Perimeter Banks* and also in the shallow sediments beneath the East Lagoon in the *Lagoon Area*. Dibenzofuran is detected in the Shallow Fill, Intermediate Confining Unit, and the Deep Sand Unit.

All remaining semi-volatile organic compounds were detected in fewer than 10 of the 230 soil samples and included the following:

- Di-N-Butyl Phthalate



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- Di-N-Octyl Phthalate
- Dibenzo(A,H)Anthracene
- Diethyl Phthalate
- 2,6-Dinitro Toluene
- 2,4-Dimethyl Phenol
- 4-Methyl Phenol
- Phenol

4.2.4 Metals and Cyanide

Soil analytical data for the three areas indicate the presence of 23 metals and cyanide. Some of these metals are naturally occurring and frequent constituents of soil and rock materials. The discussion presented below includes the number of samples the metal was detected in, the detected range, the arithmetic average of detected concentrations, and the MDNR range of published background concentrations in Michigan ("Michigan Background Soil Survey", prepared by the MDNR Waste Management Division Geotechnical Sampling and Support Unit, dated April 1991)[4]

- Aluminum - present in all samples 206 samples analyzed) at concentrations that range from 550 ppm to 13,000 ppm; the average detected concentration was 5,523 ppm. Published Michigan background concentrations range from 340 ppm to 9,950 ppm.

- Antimony - detected in 59 of 230 samples at concentrations that range from 0.5 to 6 ppm; the average detected concentration was 1.1 ppm. There are no published Michigan background concentrations for antimony Most samples with detectable antimony concentrations do not show any relationship with the

[4] The range of background soil concentrations cited are for comparative purposes only. The data are meant to provide information regarding the levels of naturally occurring metals that can be expected in various soil types within the state of Michigan. These data are not meant to be used necessarily for setting cleanup criteria. Rather, the determination of site specific background concentrations will be made as part of the RI/FS in accordance with Act 307.

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other metals analyzed. Samples with detected concentrations above 1.8 ppm (6 samples total) typically show presence of elevated concentrations of arsenic, barium, chromium, cobalt, copper, lead, mercury, nickel, silver, vanadium, and zinc, and cyanide. Concentrations above 1.8 ppm are associated with the surficial fill soils in the Machine Storage Area and the surrounding perimeter banks.

- Arsenic - present in generally all samples (229 of 230 samples) at concentrations that range from 0.4 ppm to 87 ppm; the average detected concentration was 6.2 ppm. Published Michigan background concentrations range from 0.1 ppm to 11 ppm. Possibly naturally occurring, or a false positive caused by laboratory method interference; detected concentrations generally less than 11 ppm (184 of 230 samples). Samples with arsenic concentrations of 11 ppm or greater generally contain elevated concentrations of chromium, copper, lead, nickel, and other metals. Elevated arsenic concentrations are generally limited to the surficial fill and underlying intermediate confining bed; however, one sample of the Deep Sand Unit contained arsenic at a concentration of 20 ppm (BH317(38-42)). No other metals at elevated concentrations were detected in this sample, and the arsenic concentration in this sample is considered suspect.

- Barium - present in generally all (229 of 230 samples) at concentrations that range from 4 ppm to 390 ppm; the average detected concentration was 71 ppm. Published Michigan background concentrations range from 2.3 ppm to 88 ppm. Samples with barium concentrations greater than 88 ppm (38 of 230 samples) commonly contain elevated concentrations of chromium, chopper, lead, mercury, nickel, silver, vanadium, and zinc, and cyanide. Concentrations above 88 ppm are generally associated with the shallow fill, and to a very limited extent the underlying intermediate confining unit.

- Beryllium - detected in 111 of 230 samples at concentrations that range from 0.06 to 1.8 ppm; the average detected concentration was 0.31 ppm. There are no published Michigan background concentrations for beryllium. Three samples contain beryllium at a concentration of greater than 0.5 ppm (1.8 ppm, 0.92 ppm, and 0.6 ppm), these samples also contain elevated concentrations of barium, lead, mercury, and zinc.

- Cadmium - detected in 207 of 230 samples at concentrations that range from 0.06 ppm to 32 ppm; the average detected concentration was 2 ppm. Published Michigan background concentrations range from 1.0 ppm to 1.0 ppm. For concentrations above 1 ppm, there is not a relationship with other metals; an exception are the samples in which cadmium is detected at the highest concentrations (20 and 32 ppm; BH307 at 0-0.5 feet and BH317 at 10 to 14 feet). These samples also contained elevated concentrations of barium, chromium, copper, lead, mercury, nickel, silver, vanadium, and zinc.



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- Calcium - present in generally all samples (204 of 206 samples) at concentrations that range from 1,700 ppm to 120,000 ppm; the average detected concentration was 53,904 ppm. There are no published Michigan background concentrations for calcium. Calcium is frequently present in many rocks most notably limestone.

- Chromium - present in all samples, except where sample detection limits are above analytical method reporting limits (14 of 230 samples). Detected concentrations range from 1.9 to 4,800 ppm; the average detected concentration was 67.8 ppm. Published Michigan background concentrations range from 2.5 ppm to 36 ppm. Samples with chromium concentrations above 36 ppm (22 of 215 samples) commonly contain elevated concentrations of copper, lead, nickel, zinc and other metals. Elevated chromium concentrations are present within the fill and underlying intermediate confining unit.

- Cobalt - detected in 133 of 230 samples at concentrations that range from 0.8 ppm to 45 ppm; the average detected concentration was 4.7 ppm. Published Michigan background concentrations range from 2.5 ppm to 14 ppm. Three samples detected cobalt at concentrations greater than 14 ppm (20 ppm, 22 ppm, and 45 ppm). Elevated cobalt concentrations are present in the shallow fill soils in the Machine Storage Area and along the Perimeter Banks adjacent to the Machine Storage Area.

- Copper - detected in 222 of 230 samples at concentrations that range from 1.2 ppm to 3,600 ppm; the average detected concentration was 76.3 ppm. Published Michigan background concentrations range from 1.0 ppm to 82.5 ppm. Samples with copper concentrations greater than 82.5 ppm (24 samples) commonly contain elevated concentrations of chromium, lead, nickel, zinc, and other metals. Elevated copper concentrations are present in the surficial fill and the underlying intermediate confining unit.

- Cyanide - detected in 74 of 230 samples at concentrations that range from 0.13 ppm to 220 ppm. Published Michigan background concentrations range from 0.1 ppm to 0.71 ppm. Samples with cyanide concentrations greater than 1 ppm (33 samples) commonly contain elevated concentrations of chromium, copper, zinc, and other metals. Elevated cyanide concentrations are present in the surficial fill and the underlying intermediate confining unit, except at one location where it was detected in the deep sand unit (BH310(36-40); 5.2 ppm). Cyanide at elevated concentrations is present primarily in the Machine Storage Area, surrounding Perimeter Banks, and to a more limited extent the Lagoon Area.

- Iron - detected in all samples (206 samples analyzed) at concentrations that range from 1,100 ppm to 350,000 ppm; the average detected concentration was



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14,848 ppm. Published Michigan background concentrations range from 320 ppm to 16,000 ppm. Iron is a common constituent in soil and rock materials and can naturally occur as soluble and insoluble mineral forms.

- Lead - detected in 219 of 229 samples at concentrations that range from 1.2 ppm to 420 ppm; the average detected concentration was 25.8 ppm. Published Michigan background concentrations range from 2.5 ppm to 56.2 ppm. Twenty samples detected lead at concentrations greater than 56.2 ppm. These samples generally detected elevated concentrations of chromium, copper, nickel, zinc, and other metals.

- Magnesium - detected in 203 of 206 samples at concentrations that range from 170 ppm to 43,200 ppm; the average detected concentration was 16,898 ppm. There is no published Michigan background concentrations for magnesium. Magnesium is a commonly constituent in soil and rock materials (clay and dolomitic limestone).

- Manganese - present in all samples (206 samples analyzed) at concentrations that range from 15 ppm to 6,900 ppm; the average detected concentration was 305 ppm. Published Michigan background concentrations range from 3.0 ppm to 1,100 ppm. Four samples detected manganese at concentrations greater than 1,100 ppm(1,200 ppm, 1,300 ppm, 3,600 ppm, and 6,900 ppm). These samples additionally contained elevated concentrations of chromium, copper, lead, nickel, silver, zinc, and cyanide. Elevated manganese concentrations are limited to the surficial fill. Manganese at elevated concentrations is present primarily in the Machine Storage Area and surrounding Perimeter Banks.

- Mercury - detected in 39 of 230 samples at concentrations that range from 0.04 ppm to 3.5 ppm; the average detected concentration was 0.77 ppm. Published Michigan background concentrations range from 0.05 ppm to 0.5 ppm. Samples with detectable mercury concentrations commonly contain elevated concentrations of chromium, copper, nickel, and zinc. Elevated mercury concentrations are limited to the surficial fill and underlying intermediate confining unit. Mercury at elevated concentrations is present in the Machine Storage Area, the Lagoon Area, and surrounding Perimeter Banks.

- Nickel - detected in 224 of 230 samples at concentrations that range from 1.5 ppm to 6,700 ppm; the average detected concentration was 86 ppm. Published Michigan background concentrations range from 2.5 ppm to 47 ppm. Samples with nickel concentrations above 47 ppm (23 of 225) commonly contain elevated concentrations of chromium, copper, and zinc. Elevated nickel concentrations are limited to the surficial fill and underlying intermediate confining unit. Nickel at elevated concentrations is present in the Machine Storage Area, the Lagoon Area, and surrounding Perimeter Banks.



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- Potassium - generally present in all samples at concentrations that range from 200 ppm to 3,000 ppm; non-detect in samples where the detection limit is 1,000 ppm (48 of 206 samples). Potassium is believed to be naturally occurring and there is no relationship between this metal and the other metals analyzed.

- Selenium - detected in 5 of 230 samples at concentrations that range from 0.6 ppm to 1.1 ppm; the average detected concentration was 0.85 ppm. Published Michigan background concentrations range from 0.25 ppm to 0.67 ppm.

- Silver - detected in 22 of 230 samples at concentrations that range from 0.5 ppm to 114 ppm; the average detected concentration was 8.5 ppm. There are no published Michigan background concentrations for silver.

- Sodium - detected in 133 of 206 samples analyzed at concentrations that range from 110 ppm to 3,800 ppm; the average detected concentration was 442 ppm. There are no published Michigan background concentrations for sodium. Sodium is a naturally occurring metal and can frequently occur as sodium chloride (table salt).

- Tin - detected in 23 of 24 samples at concentrations that range from 11 to 42 ppm; the average detected concentration was 24.8 ppm. There are no published Michigan background concentrations for tin. The detected tin concentrations are believed to be naturally occurring and there is no relationship between the detected concentration and the concentration of other metals.

- Vanadium - detected in 195 of 230 samples at concentrations that range from 3.7 to 96 ppm; the average detected concentration was 17.4 ppm. There are no published Michigan background concentrations for vanadium. Samples with vanadium concentrations greater than 30 ppm (15 of 230 samples) generally detected elevated concentrations of chromium, copper, lead, mercury, nickel, zinc, and other metals. Elevated vanadium concentrations are limited to the fill primarily in the Machine Storage Area and the surrounding Perimeter Banks.

- Zinc - present in generally all samples (229 of 230 samples) at concentrations that range from 0.3 ppm to 21,000 ppm; the average detected concentration was 425 ppm. Published Michigan background concentrations range from 2.5 ppm to 99 ppm. Samples with zinc concentrations above 99 ppm (55 of 230 samples) generally contain elevated concentrations of chromium, copper, nickel, and other metals. Zinc concentrations above 99 ppm are limited to the surficial fill and underlying intermediate confining bed.



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4.3 Distribution of Chemicals in Groundwater

4.3.1 Polychlorinated Biphenyls (PCBs)

Shallow Wells

During the August 1993 sampling round one PCB (Aroclor 1248) was detected in both the filtered and unfiltered samples. The detected concentrations, where present in the filtered samples, ranged from 0.2 to 0.3 ppb; these concentrations are at least one order of magnitude lower than the corresponding unfiltered samples.

During the March 1994 sampling round unfiltered samples were collected for all wells, while filtered samples were collected from the majority of the wells sampled (25 of the 28 shallow wells). PCBs (Aroclor 1248) were detected in four of the 28 filtered samples (MW102S, LMW1S, LMW7S, and MW300S) with the detected concentrations ranging from 0.3 to 0.4 ppb. Comparison of filtered and unfiltered analytical results shows that the unfiltered samples detected PCB concentrations that were similar, or one order of magnitude higher than the corresponding filtered samples. For those samples in which only unfiltered samples were analyzed, no PCB's were detected (<0.1 ppb).

Three of the four wells with detectable PCB concentrations in March 1994 are located immediately adjacent, but outward from the *Deep Soil Mixing Wall*. Two of these wells are located immediately adjacent to the Saginaw River/Inlet Slip. Groundwater elevation data show that groundwater is being recharged by the river and the inlet, and that the groundwater flow direction in these two wells is toward the GMPT Plant and away from the river.

Deep Wells

During the August 1993 sampling round PCB analyses were performed on unfiltered samples. PCBs were detected in the majority of the samples analyzed. During the March 1994 sampling round filtered and unfiltered samples were collected from the majority of the wells sampled. All samples, both filtered and unfiltered, had non-detectable PCB concentrations (<0.1 ppb), except one well (MW200D) which had an unfiltered PCB concentration of 3.2 ppb (Aroclor 1248); no filtered analyses were performed on this sample.

4.3.2 Volatile Organic Compounds

A total of 13 volatile organic compounds were detected in groundwater in the *Machine Storage Area* on one or more occasions during the two sampling rounds; 16 compounds were detected in the *Lagoon Area*; and 8 compounds were detected in the *Perimeter Banks*. Considering analytical data in total for all three areas, a combined total of 9 compounds have been verified as being present in groundwater (based on the detection



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of those compounds in one or more wells during both sampling rounds). A discussion of these 9 confirmed volatile organic compounds is presented below.

Shallow Wells

The most frequently detected volatile organic compounds and the range of detected concentrations during both of the sampling rounds are as follows:

- Xylenes - detected in 5 of 29 wells at concentrations that range from 6 ppb to 310 ppb. Xylenes are detected in wells from *Machine Storage Area* only.

- 1,2-dichloroethene (1,2-DCE) - detected in 5 of 29 wells at concentrations that range from 4 ppb to 3,100 ppb. This compound is detected in wells from *Machine Storage Area* and the *Lagoon Area.*

- Vinyl chloride - detected in 5 of 29 wells at concentrations that range from 1 ppb to 880 ppb. This compound is detected in wells from *Machine Storage Area* and the *Lagoon Area.*

- Toluene - detected in 4 of 29 wells at concentrations that range from 2 ppb to 5,300 ppb. This compound is detected in wells from *Machine Storage Area* only.

- Benzene - detected in 3 of 29 wells at concentrations that range from 2 ppb to 63 ppb. This compound is detected in wells from *Machine Storage Area* only.

- Ethylbenzene - detected in 3 of 29 wells at concentrations that range from 2 ppb to 410 ppb. This compound is detected in wells from *Machine Storage Area* only.

All remaining volatile organic compounds were detected in the *Lagoon Area* in one or two wells.

- 1,1,1-trichloroethane - detected in 1 of 29 wells. The reported concentration in August 1993 was 8 ppb; the reported concentration for March 1994 was 30 ppb.

- 1,1-dichloroethane - detected in 2 of 29 wells at concentrations that range from 68 ppb to 440 ppm.

- 1,1-dichloroethene - detected in 1 of 29 wells. The reported concentration in August 1993 was 15 ppb; the reported concentration for March 1994 was 28 ppb.

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Deep Wells

Six volatile organic compounds are confirmed present in the deep wells; all of these compounds are detected in single wells, except xylenes which is present in three wells:

- Xylenes - detected in 3 of 30 wells at concentrations which range from 2 ppb to 310 ppb. Xylenes are detected in wells from the *Machine Storage Area* and the *Lagoon Area.*

- 1,2-DCE - detected in 1 of 30 wells. The reported concentration in August 1993 was 170 ppb; the reported concentration for March 1994 was 260 ppb. This compound is detected in the *Lagoon Area.*

- Vinyl chloride - detected in 1 of 30 wells. The reported concentration in August 1993 was 320 ppb; the reported concentration for March 1994 was 280 ppb. This compound is detected in the *Lagoon Area.*

- Toluene - detected in 1 of 30 wells. The reported concentration in August 1993 was 120 ppb; the reported concentration for March 1994 was 5 ppb. This compound is detected in wells from *Machine Storage Area.*

- Ethylbenzene - detected in 1 of 30 wells. The reported concentration in August 1993 was 180 ppb; the reported concentration for March 1994 was 4 ppb. This compound is detected in *Machine Storage Area.*

- 1,1-dichloroethane - detected in 1 of 30 wells. The reported concentration in August 1993 was 42 ppb; the reported concentration for March 1994 was 160 ppb. This compound is detected in the *Lagoon Area.*

4.3.3 Semi-Volatile Organic Compounds

A total of 28 semi-volatile organic compounds were detected in groundwater in the *Machine Storage Area* on one or more occasions during the two sampling rounds; four were detected in the *Lagoon Area*; and five were detected in the *Perimeter Banks*. Considering analytical data in total for all three areas, a combined total of 17 compounds have been verified as being present in groundwater (based on the detection of those compounds in one or more wells during both sampling rounds). A discussion of these 17 confirmed semi-volatile organic compounds is presented below.

Shallow Wells

The most frequently detected semi-volatile organic compounds and the range of detected concentrations during both of the sampling rounds are as follows:



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- Bis(2-ethylhexl phthalate) - detected in 10 of 29 wells at concentrations that range from 1 ppb to 700 ppb. This compound is detected in wells from all three areas.
- 2-methylnapthalene - detected in 3 of 29 wells at concentrations that range from 3 ppb to 1,600 ppb. This compound is only detected in the *Machine Storage Area*.
- 2-4 dimethyl phenol - detected in 3 of 29 wells at concentrations that range from 8 to 360 ppb. This compound is detected in wells from *Machine Storage Area*, and the surrounding *Perimeter Banks*.

All remaining semi-volatile organic compounds were detected in the *Machine Storage Area* in one or two wells. Many of these compounds may have similar origins since they are present together in the same samples, e.g. monitoring well LMW18S had detectable concentrations of 7 compounds, LMW19S had 6 compounds, and MW102S has 5 compounds.

- 2-methyl phenol - detected in 1 of 29 wells. The reported concentration in August 1993 was 16 ppb; the reported concentration for March 1994 was 15 ppb.

- Acenaphthene - detected in 2 of 29 wells at concentrations that range from 57 ppb to 440 ppb.

- Anthracene - detected in 1 of 29 wells. The reported concentration in August 1993 was 29 ppb; the reported concentration for March 1994 was 14 ppb.

- Carbazole - detected in two wells at concentrations that range from 29 ppb to 300 ppb.

- Dibenzofuran - detected in 2 of 29 wells at concentrations that range from 46 ppb to 320 ppb.

- Diethyl phthalate - detected in 1 of 29 wells. The reported concentration in August 1993 was 3 ppb; the reported concentration for March 1994 was 5 ppb.

- Fluorene - detected in 2 of 29 wells at concentrations that range from 27 ppb to 210 ppb.

- N-nitroso-diphenylamine - detected in 1 of 29 wells. The reported concentration in August 1993 was 16 ppb; the reported concentration for March 1994 was 16 ppb.

- Naphthalene - detected in 2 of 29 wells at concentrations that range from 14 ppb to 2,600 ppb.



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- Phenanthrene - detected in 1 of 29 wells. The reported concentration in August 1993 was 230 ppb; the reported concentration for March 1994 was 110 ppb.

Deep Wells

The most frequently detected semi-volatile organic compounds are as follows:

- Bis(2-ethylhexl phthalate) - detected in 10 of 30 wells at concentrations that range from 2 ppb to 240 ppb. This compound is detected in wells from all three areas.
- 2-methylnapthalene - detected in 2 of 30 wells at concentrations that range from 5 ppb to 520 ppb. This compound is only detected in the *Machine Storage Area*.

- Naphthalene - detected in 2 of 30 wells at concentrations that range from 2 ppb to 650 ppb.

The remaining semi-volatile organic compounds were detected in the *Machine Storage Area* well LMW24D, and the surrounding *Perimeter Banks* well MW301D1.

The groundwater sample from LMW24D contained the following 10 compounds, in addition to the three compounds identified above:

- Acenaphthene - The reported concentration in August 1993 was 280 ppb; the reported concentration for March 1994 was 390 ppb.

- Anthracene - The reported concentration in August 1993 was 54 ppb; the reported concentration for March 1994 was 73 ppb.

- Benzo(A) Anthracene - The reported concentration in August 1993 was 10 ppb; the reported concentration for March 1994 was 13 ppb. This compound was not detected in shallow groundwater.

- Carbazole - The reported concentration in August 1993 was 69 ppb; the reported concentration for March 1994 was 72 ppb.

- Chrysene - The reported concentration in August 1993 was 11 ppb; the reported concentration for March 1994 was 13 ppb. This compound was not detected in shallow groundwater.

- Dibenzofuran - The reported concentration in August 1993 was 210 ppb; the reported concentration for March 1994 was 270 ppb.

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- Fluoranthene - The reported concentration in August 1993 was 56 ppb; the reported concentration for March 1994 was 110 ppb. This compound was not detected in shallow groundwater.

- Fluorene - The reported concentration in August 1993 was 190 ppb; the reported concentration for March 1994 was 260 ppb.

- Phenanthrene - The reported concentration in August 1993 was 310 ppb; the reported concentration for March 1994 was 460 ppb.

- Pyrene - The reported concentration in August 1993 was 55 ppb; the reported concentration for March 1994 was 76 ppb. This compound was not detected in shallow groundwater.

The groundwater sample from MW301D1 contained the following two compounds:

- 2-4 dimethyl phenol - The reported concentration in August 1993 was 7 ppb; the reported concentration for March 1994 was 11 ppb.

- Phenol - The reported concentration in August 1993 was 150 ppb; the reported concentration for March 1994 was 270 ppb.

4.3.4 Metals and Cyanide

Sixteen metals were detected in groundwater during one or both sampling rounds. Metals not detected included the following: beryllium, chromium, copper, mercury, selenium, silver, thallium, and tin.

Shallow Wells

Metals detected in groundwater include:

- aluminum - detected in 8 of 10 wells; concentrations detected range from 80 ppb to 330 ppb. It is possible that the aluminum concentrations may not be representative of actual groundwater conditions, but due to colloidal aluminum.

- antimony - non-detect (<5 ppb) in all samples analyzed (13 wells).

- arsenic - detected in 11 of 13 wells during both sampling rounds; detected concentrations range from 2 ppb to 18 ppb.

- barium - detected in 7 of 13 wells (detection limit 200 ppb); detected concentrations range from 200 ppb to 3,100 ppb.

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- cadmium - non-detect (<0.2 ppb) in all samples during both sampling rounds (13 wells)

- calcium - present in all wells (10 wells) at concentrations that range from 66,000 ppb to 300,000 ppb. Calcium is a common naturally occurring constituent of groundwater

- cobalt - detected in 2 of 13 samples; detected concentrations range from 10 to 16 ppb.

- cyanide - detected in 4 of 28 wells; detected concentrations range from 17 to 97 ppb during the March 1994 sampling round.

- iron - detected in all wells analyzed (10 wells); the detected range was 400 ppb to 38,000 ppb. Iron is a common naturally occurring constituent of groundwater.

- lead - non-detect (<3 ppb) in all wells (13 wells).

- magnesium - detected in all wells analyzed (10 wells); the detected range was 3,600 ppb to 62,000 ppb. Magnesium is a common naturally occurring constituent of groundwater.

- manganese - detected in 9 of 10 wells; detected concentrations range from 140 to 2,800 ppb.

- nickel - detected in 3 of 13 wells; detected concentrations range from 60 ppb to 450 ppb.

- potassium - detected in all wells analyzed (10 wells); detected concentrations ranged from 3,000 ppb to 96,000 ppb.

- sodium - detected in all wells analyzed (10 wells); detected concentrations range from 11,000 ppb to 910,000 ppb. Sodium is a common naturally occurring constituent of groundwater.

- vanadium - detected in 1 of 13 samples; the detected concentration was 15 ppb during the August 1993 sampling round and non-detect (<20 ppb) during the March 1994 sampling round.

- zinc - detected in 11 of 13 wells; detected concentrations range from 30 ppb to 80 ppb.

recycled paper

Deep Wells

Metals detected in groundwater include:

- aluminum - detected in 12 of 16 wells; concentrations detected range from 70 ppb to 180 ppb. It is possible that the aluminum concentrations may not be representative of actual groundwater conditions, but due to colloidal aluminum.

- antimony - detected in 7 of 19 wells; detected concentrations range from 6 to 10 ppb.

- arsenic - detected in all wells analyzed (19 wells); detected concentrations range from 3 ppb to 56 ppb.

- barium - detected in 15 of 19 wells; detected concentrations ranged from 200 ppb to 3,800 ppb.

- cadmium - non-detect (<0.2 ppb) in all samples during both sampling rounds (19 wells).

- calcium - present in all wells (16 wells) at concentrations that range from 66,000 ppb to 1,660,000 ppb. Calcium is a common naturally occurring constituent of groundwater.

- cobalt - non-detect (< 4 ppb) in all wells analyzed (19 wells).

- cyanide - detected in 4 of 31 wells; detected concentrations range from 6 to 49 ppb during the March 1994 sampling round.

- iron - detected in all wells analyzed (17 wells); the detected range was 200 ppb to 64,000 ppb. Iron is a common naturally occurring constituent of groundwater.

- lead - detected in 2 of 19 wells; detected concentrations range from 13 to 18 ppb.

- magnesium - detected in all wells analyzed (16 wells); the detected range was 5,700 ppb to 570,000 ppb. Magnesium is a common naturally occurring constituent of groundwater.

- manganese - detected in all wells analyzed (16 wells); detected concentrations range from 80 to 1,800 ppb.

recycled paper

- nickel - detected in 2 of 19 wells; detected concentrations range from 170 ppb to 290 ppb.

- potassium - detected in all wells analyzed (16 wells); detected concentrations ranged from 2,000 ppb to 54,000 ppb.

- sodium - detected in all wells analyzed (16 wells); detected concentrations range from 2,000 ppb to 3,200,000 ppb. Sodium is a common naturally occurring constituent of groundwater.

  vanadium - detected in 2 of 19 samples; the detected concentration in both wells was 20 ppb.

- zinc - detected in 5 of 19 wells; detected concentrations range from 20 ppb to 160 ppb.

4.4 Distribution of Chemicals in Surface Water

Ten surface water sample locations were identified; however, sufficient water for sampling and analyses were not present at all locations.

4.4.1 Polychlorinated Biphenyls (PCBs)

PCBs consisting solely of Aroclor 1248 were detected in 8 of the 9 surface water samples. The detected concentrations ranged from 1.3 to 12 ppb.

4.4.2 Volatile Organic Compounds

No volatile organic compounds were detected in any of the surface water samples, except methylene chloride. This compound was detected in one sample at a concentration of 6 ppb, and may possibly represent a laboratory artifact.

4.4.3 Semi-Volatile Organic Compounds

Semi-volatile organic compounds were detected in two of the surface water samples collected; one sample was from the *Perimeter Banks* surrounding *Machine Storage Area* (SW302), and the other from the *Perimeter Banks* surrounding the *Lagoon Area* (SW303). The three compounds detected were benzo(A)pyrene, fluoranthene, and pyrene.

The *Machine Storage Area Perimeter Banks* sample detected all three compounds at concentrations of 6 ppb, 8 ppb, and 8 ppb, respectively.

recycled paper

The *Lagoon Area Perimeter Banks* sample detected only two of the compounds (fluoranthene and pyrene) at a concentration of 1 ppb.

4.4.4 Metals and Cyanide

Metals were detected in all surface water samples. The metals detected were as follows:

- Aluminum - detected in all samples analyzed (8 total); concentrations ranged from 280 ppb to 8,400 ppb
- Antimony - detected in 2 of 8 samples; detected concentrations ranged from 2 to 3 ppb. Antimony was detected only in the *Machine Storage Area.*
- Arsenic - detected in 4 of 8 samples, 2 from the *Machine Storage Area Perimeter Banks* and 2 from the *Lagoon Area Perimeter Banks*; the detected concentrations ranged from 2 ppb to 6 ppb
- Beryllium - detected in 1 of 8 samples; the detected concentration was 2 ppb. Beryllium was detected in the *Machine Storage Area Perimeter Banks*
- Cadmium - detected in 5 of 8 samples; the detected concentrations ranged from 0.8 ppb to 6.3 ppb. Cadmium was detected only in the *Perimeter Banks*
- Calcium - detected in all samples analyzed (8 samples); the detected concentrations ranged from 18,000 ppb to 140,000 ppb
- Cobalt - detected in 2 of 8 samples from the *Perimeter Banks*; the detected concentration ranged from 5 ppb to 10 ppb
- Copper - detected in all samples analyzed (8 samples); the detected concentrations ranged from 40 ppb to 110 ppb
- Cyanide - detected in 1 sample from the *Machine Storage Area*; the detected concentration was 10 ppb
- Iron - detected in all samples analyzed (7 samples); the detected concentrations ranged from 300 ppb to 14,000 ppb
- Lead - detected in 6 of 8 samples; the detected concentrations ranged from 7 ppb to 61 ppb
- Magnesium - detected in all samples analyzed (7 samples); the detected concentrations ranged from 1,100 ppb to 36,000 ppb



recycled paper

- Manganese - detected in 5 of the 7 samples analyzed; the detected concentrations ranged from 30 ppb to 300 ppb

- Potassium - detected in all samples analyzed (7 samples); the detected concentrations ranged from 10,000 ppb to 29,000 ppb

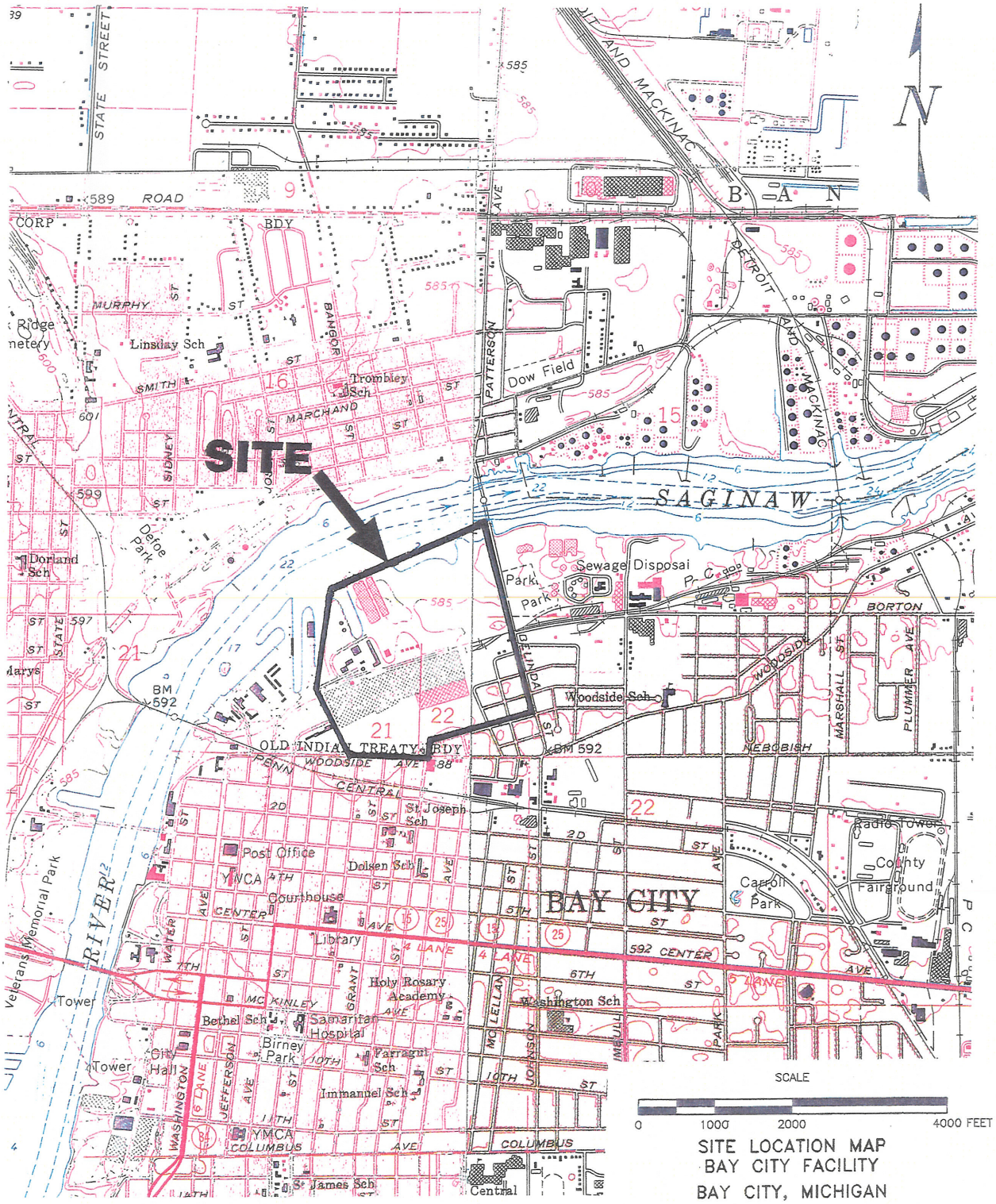
- Silver - detected in 1 of 8 samples; the detected concentration was 0.7 ppb. Silver was detected in a sample from the *Lagoon Area Perimeter Banks*

- Sodium - detected in 4 of 7 samples; the detected concentrations ranged from 2,000 ppb to 21,000 ppb

- Vanadium - detected in 2 of 8 samples; the detected concentrations were 16 ppb and 20 ppb

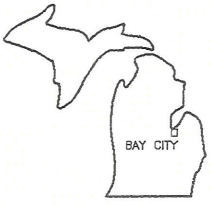
- Zinc - detected in all samples analyzed (8 samples); the detected concentrations ranged from 30 ppb to 280 ppb

recycled paper



SITE LOCATION MAP
BAY CITY FACILITY
BAY CITY, MICHIGAN

PREPARED FOR
GM POWERTRAIN DIVISION



REFERENCE:
U.S. GEOLOGICAL SURVEY, 1973
BAY CITY, MICHIGAN QUADRANGLE
BAY CITY NE, MICHIGAN QUADRANGLE
ESSEXVILLE, MICHIGAN QUADRANGLE
KAWKAWLIN, MICHIGAN QUADRANGLE

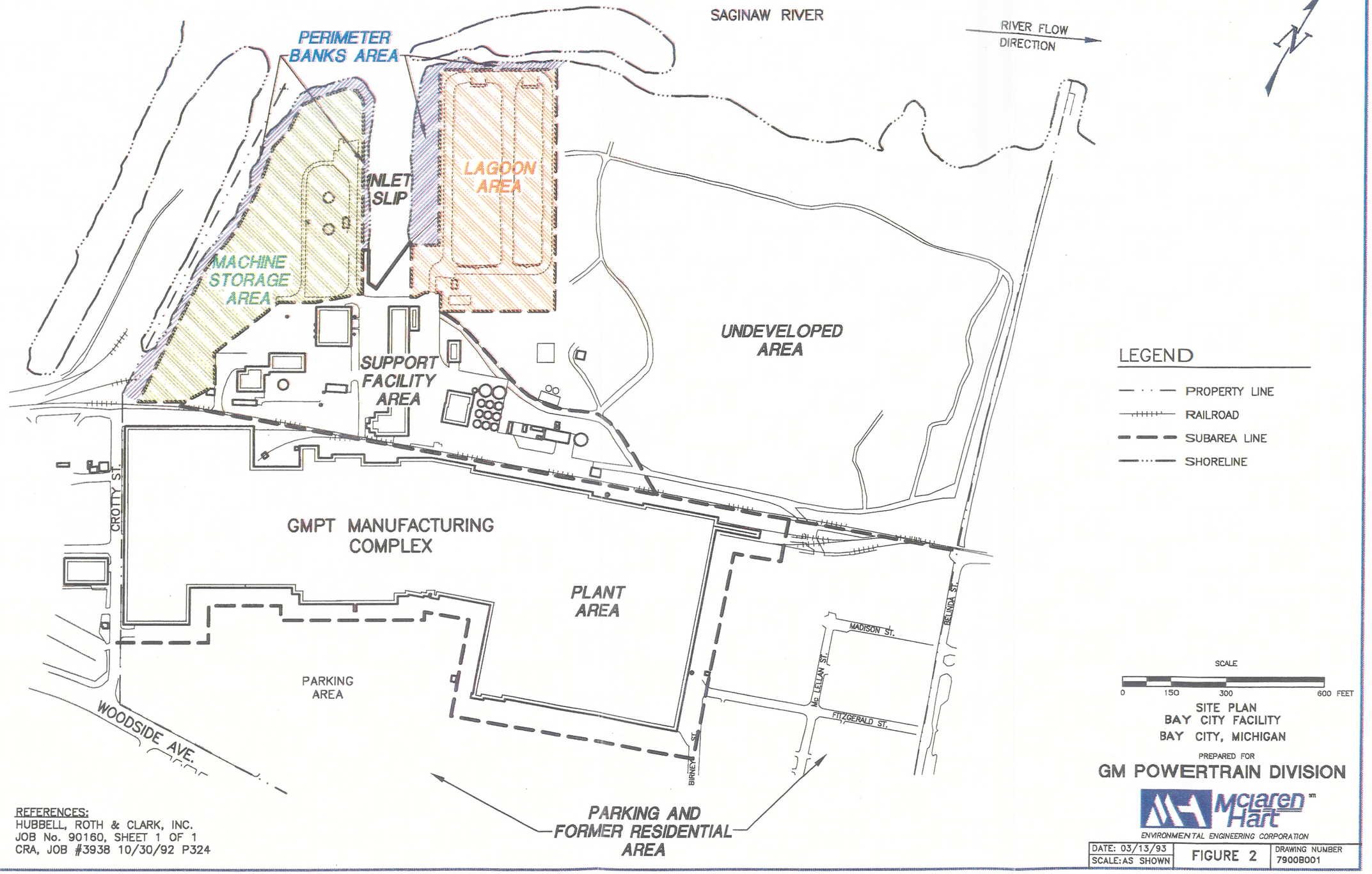
McLaren Hart sm
ENVIRONMENTAL ENGINEERING CORPORATION

DATE: 09/08/93	FIGURE 1-1	DRAWING NUMBER 7900A001
SCALE: AS SHOWN		

REVISIONS	No.	DESCR.	APPR. BY:

DRAWN BY:	BJF	CHECKED BY	BH	DRAWING NUMBER 7900A001
DATE	09/09/93	APPROVED BY	[illegible]	12/16/93 12/16/93

REVISIONS	No.	DESCR.	APPR. BY:	DRAWN BY:	JES	CHECKED BY	BM	12/16/93	DRAWING NUMBER 7900B001
				DATE	11/11/93	APPROVED BY	WHB	12/16/93	



LEGEND

- PROPERTY LINE
- RAILROAD
- SUBAREA LINE
- SHORELINE

SCALE

0 150 300 600 FEET

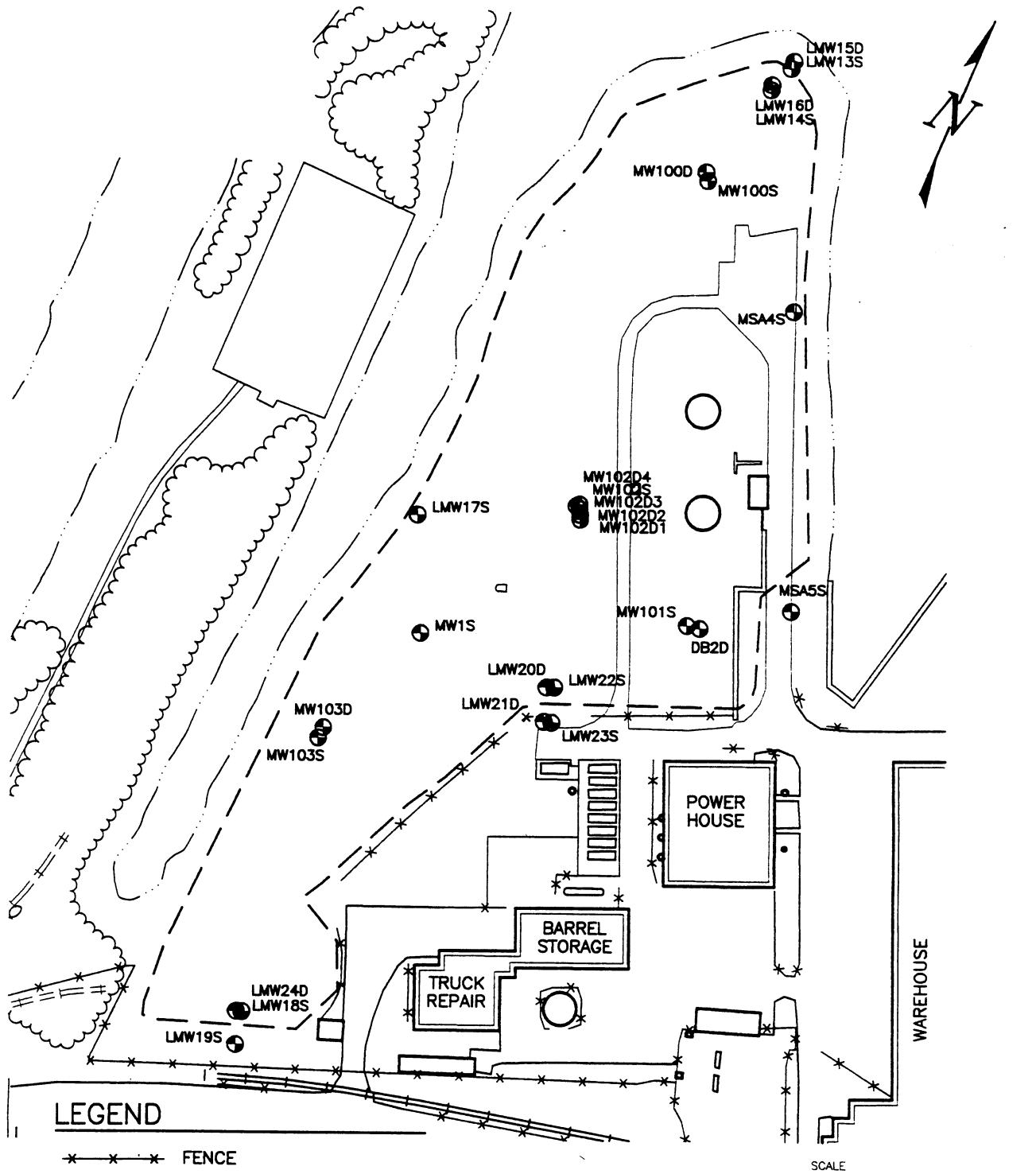
SITE PLAN
BAY CITY FACILITY
BAY CITY, MICHIGAN

PREPARED FOR
GM POWERTRAIN DIVISION

McLaren Hart sm
ENVIRONMENTAL ENGINEERING CORPORATION

REFERENCES:
HUBBELL, ROTH & CLARK, INC.
JOB No. 90160, SHEET 1 OF 1
CRA, JOB #3938 10/30/92 P324

DATE: 03/13/93	FIGURE 2	DRAWING NUMBER
SCALE: AS SHOWN		7900B001



MONITORING WELL LOCATION PLAN
MACHINE STORAGE AREA
BAY CITY FACILITY
BAY CITY, MICHIGAN

PREPARED FOR

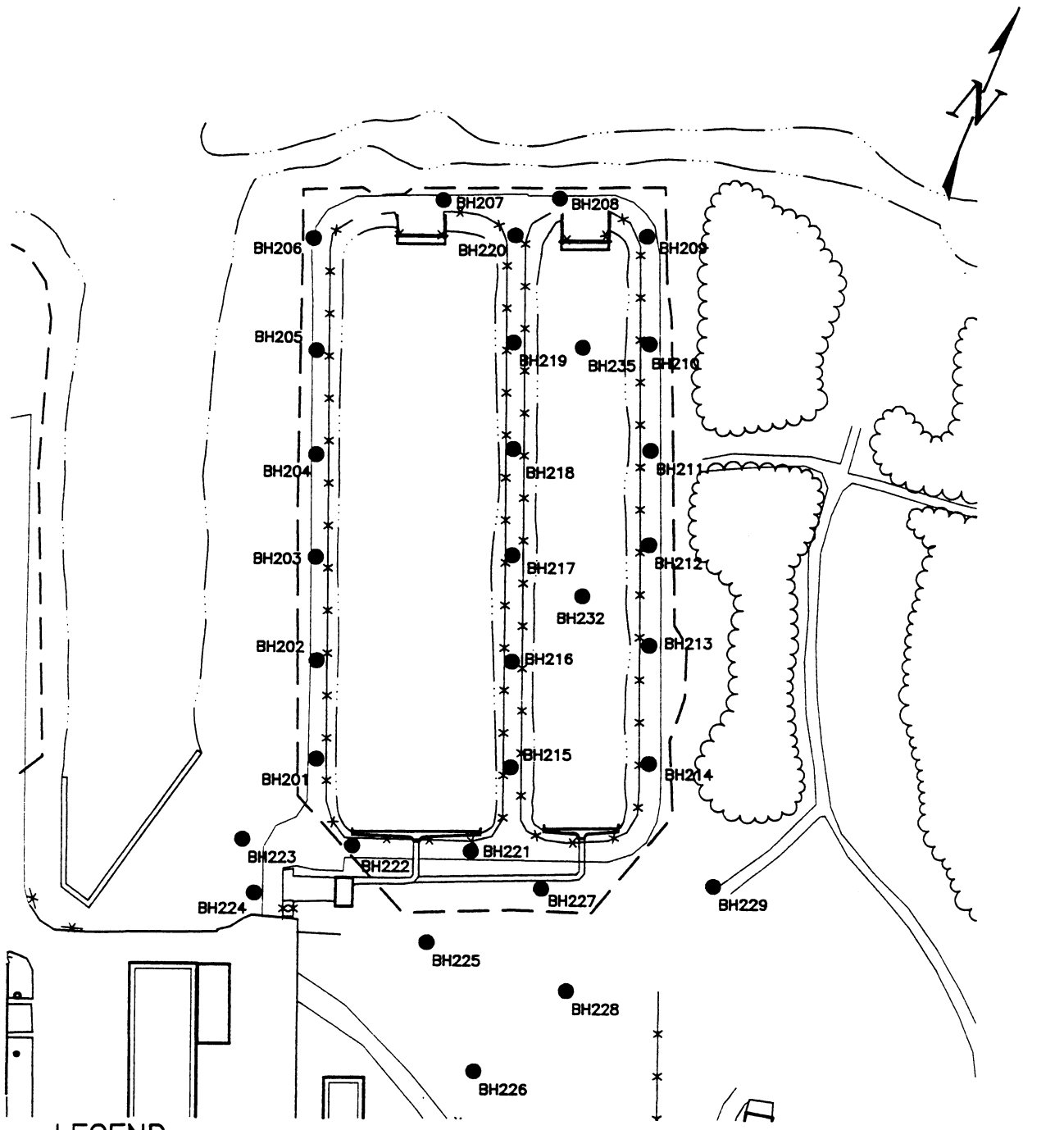
GM POWERTRAIN DIVISION

McLaren Hart sm
ENVIRONMENTAL ENGINEERING CORPORATION

REFERENCE:
HUBBEL, ROTH & CLARKE, INC.
JOB #90160, SHEET 1 OF 1
CRA, PROJECT #3938 SHEET D-1, AUGUST 1991

DATE: 04/04/94	FIGURE 3-2	DRAWING NUMBER 7900A102
SCALE: AS SHOWN		

REVISIONS	No.	DESCR. / APPR. BY:	DRAWN BY: JES	CHECKED BY: GMS	DRAWING NUMBER 7900A102
			DATE 06/02/94	APPROVED BY: ACC	6-30-94 / 6-30-94



LEGEND

- FENCE
- RAILROAD
- TREELINE
- SHORELINE
- DEEP SOIL MIXING WALL
- BH102 ● SOIL BORING LOCATION (SOIL BORING NUMBER)

SCALE

0 75 150 300 FEET

SOIL BORING LOCATION PLAN
LAGOON AREA
BAY CITY FACILITY
BAY CITY, MICHIGAN

PREPARED FOR

GM POWERTRAIN DIVISION

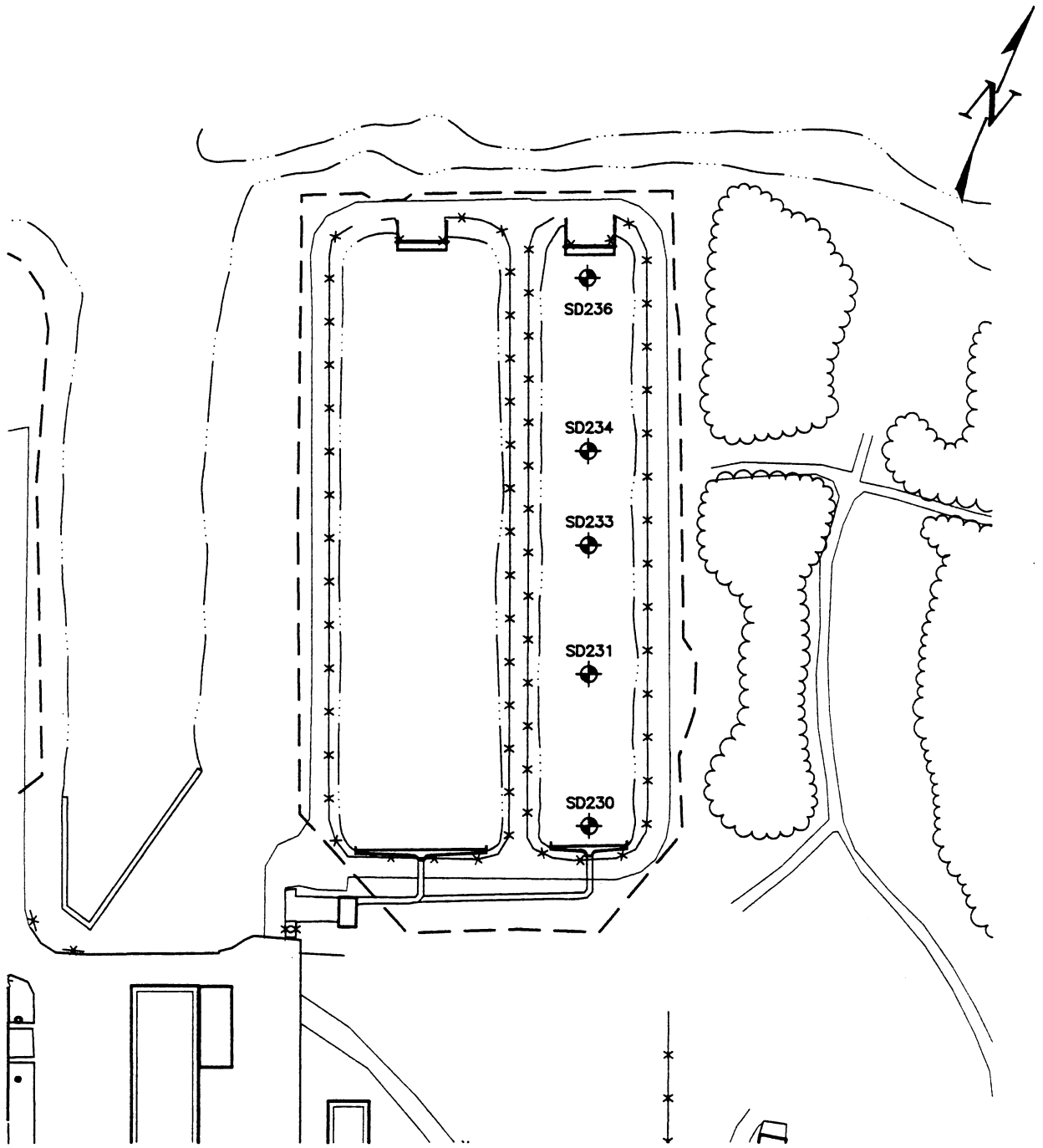
McLaren Hart sm
ENVIRONMENTAL ENGINEERING CORPORATION

REFERENCE:
HUBBEL, ROTH & CLARKE, INC.
JOB #90160, SHEET 1 OF 1
CRA, PROJECT #3938 SHEET D-1, AUGUST 1991

DATE: 04/04/94	FIGURE 3-3	DRAWING NUMBER 7900A201
SCALE: AS SHOWN		

REVISIONS	No.	DESCR.	APPR. BY:

DRAWN BY:	JES	CHECKED BY	4-30-94	DRAWING NUMBER 7900A201
DATE	06/02/94	APPROVED BY	4-30-94	



LEGEND

- FENCE
- RAILROAD
- TREELINE
- SHORELINE
- DEEP SOIL MIXING WALL
- SD230 — SEDIMENT SAMPLE LOCATION (SEDIMENT SAMPLE NUMBER)

SCALE

0 75 150 300 FEET

SEDIMENT SAMPLE LOCATION PLAN
LAGOON AREA
BAY CITY FACILITY
BAY CITY, MICHIGAN

PREPARED FOR

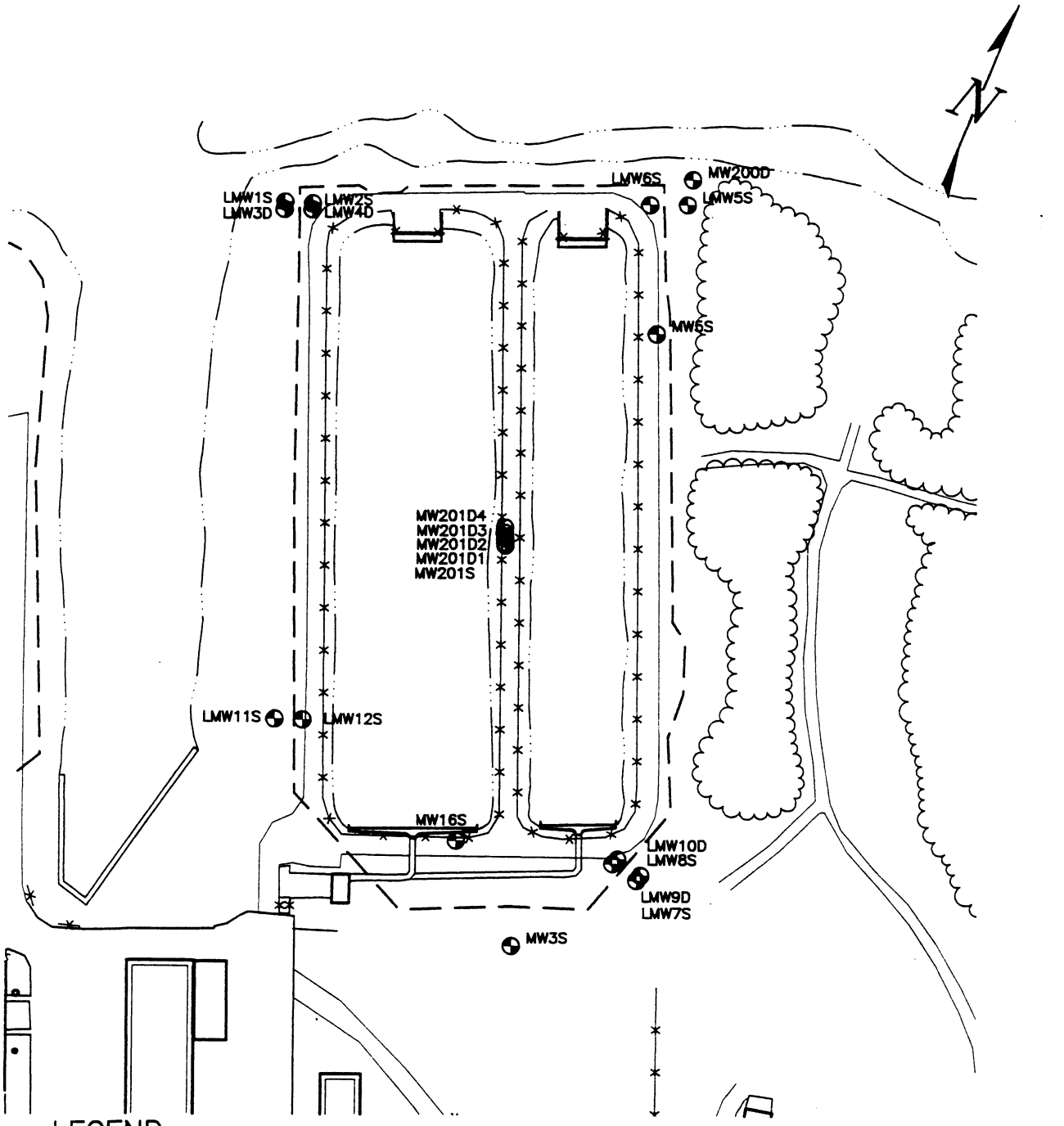
GM POWERTRAIN DIVISION

McLaren Hart sm
ENVIRONMENTAL ENGINEERING CORPORATION

REFERENCE:
HUBBEL, ROTH & CLARKE, INC.
JOB #90160, SHEET 1 OF 1
CRA, PROJECT #3938 SHEET D-1, AUGUST 1991

DATE: 04/04/94	FIGURE 3-4	DRAWING NUMBER 7900A204
SCALE: AS SHOWN		

REVISIONS	DESCR.	DRAWN BY:	JES	CHECKED BY	6-30-94	DRAWING NUMBER
No.	APPR. BY:	DATE	06/02/94	APPROVED BY	6-30-94	7900A204



LEGEND

- FENCE
- RAILROAD
- TREELINE
- SHORELINE
- DEEP SOIL MIXING WALL
- MW102S — MONITORING WELL LOCATION
  - MONITORING WELL NUMBER

SCALE

0 75 150 300 FEET

MONITORING WELL LOCATION PLAN
LAGOON AREA
BAY CITY FACILITY
BAY CITY, MICHIGAN

PREPARED FOR

GM POWERTRAIN DIVISION

McLaren Hart sm

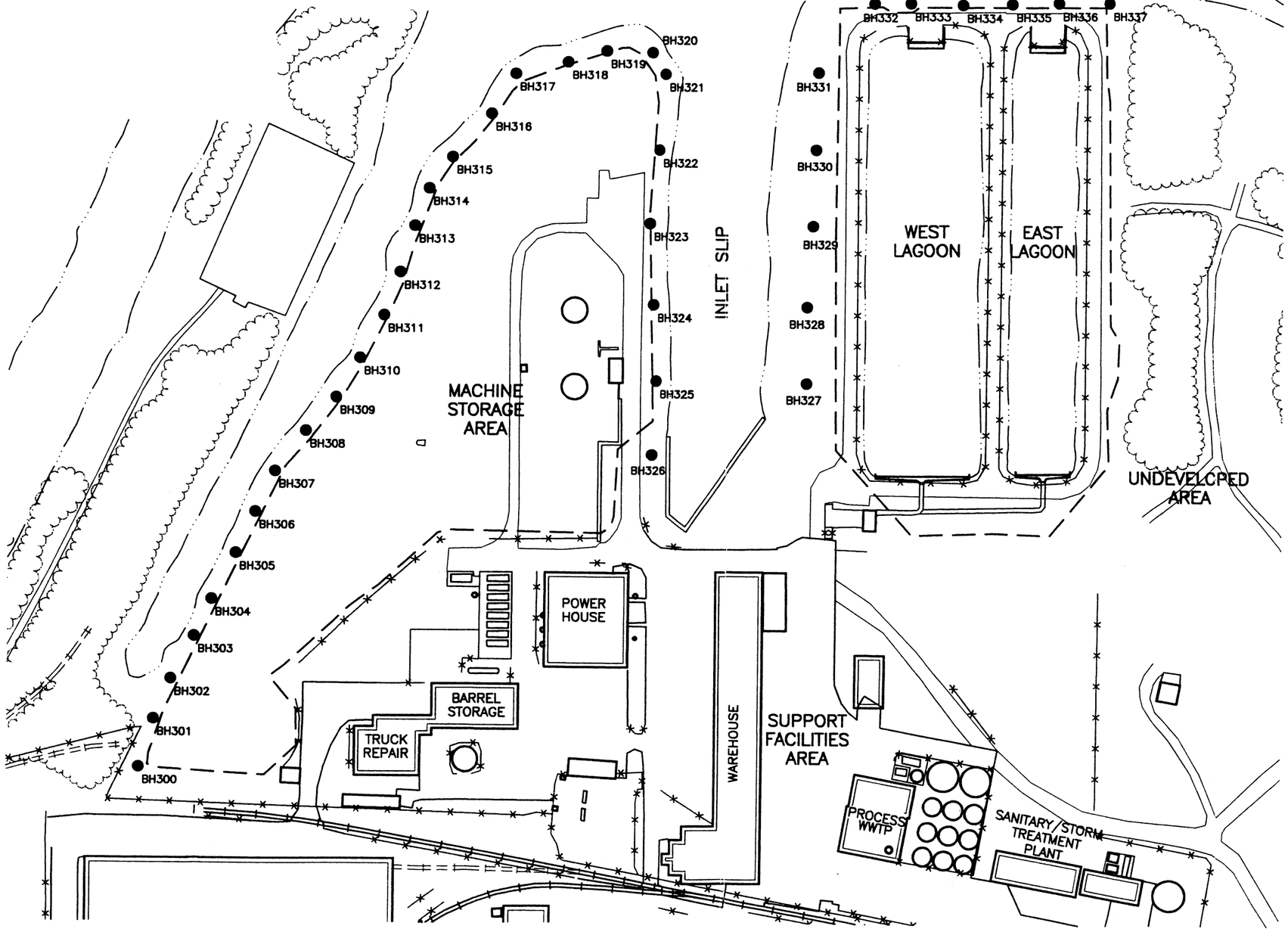
ENVIRONMENTAL ENGINEERING CORPORATION

REFERENCE:
HUBBEL, ROTH & CLARKE, INC.
JOB #90160, SHEET 1 OF 1
CRA, PROJECT #3938 SHEET D-1, AUGUST 1991

DATE: 04/04/94	FIGURE 3-5	DRAWING NUMBER 7900A202
SCALE: AS SHOWN		

REVISIONS				DRAWN BY:	JES	CHECKED BY		6-30-94	DRAWING NUMBER
No.	DESCR.	APPR. BY:		DATE	06/02/94	APPROVED BY		6-30-94	7900A202

REVISIONS						DRAWN BY: JES	CHECKED BY	6-30-94	DRAWING NUMBER 7900B301
No.	DESCR.	APPR. BY:				DATE 06/02/94	APPROVED BY	6-30-94	



LEGEND

- FENCE
- RAILROAD
- TREELINE
- SHORELINE
- DEEP SOIL MIXING WALL
- BH102 SOIL BORING LOCATION
  - SOIL BORING NUMBER

SCALE

0 75 150 300 FEET

SOIL BORING LOCATION PLAN
PERIMETER BANKS AREA
BAY CITY FACILITY
BAY CITY, MICHIGAN

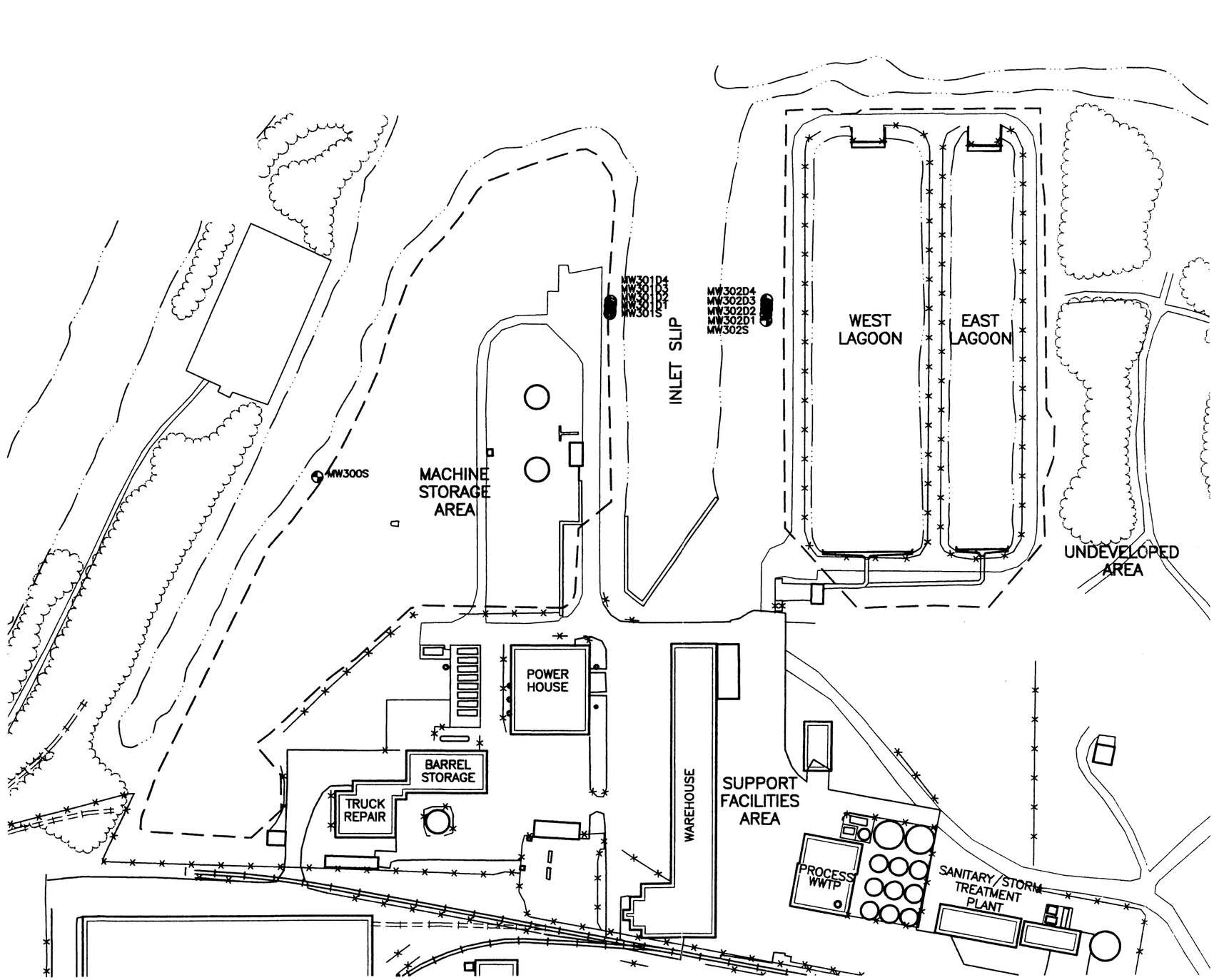
PREPARED FOR

GM POWERTRAIN DIVISION

McLaren Hart
ENVIRONMENTAL ENGINEERING CORPORATION

REFERENCE:
HUBBEL, ROTH & CLARKE, INC.
JOB #90160, SHEET 1 OF 1
CRA, PROJECT #3938 SHEET D-1, AUGUST 1991

DATE: 04/04/94	FIGURE 3-6	DRAWING NUMBER 7900B301
SCALE: AS SHOWN		



N

LEGEND

- FENCE
- RAILROAD
- TREELINE
- SHORELINE
- DEEP SOIL MIXING WALL
- MW102S — MONITORING WELL LOCATION
  - MONITORING WELL NUMBER

SCALE

0 75 150 300 FEET

MONITORING WELL LOCATION PLAN
PERIMETER BANKS AREA
BAY CITY FACILITY
BAY CITY, MICHIGAN

PREPARED FOR

GM POWERTRAIN DIVISION

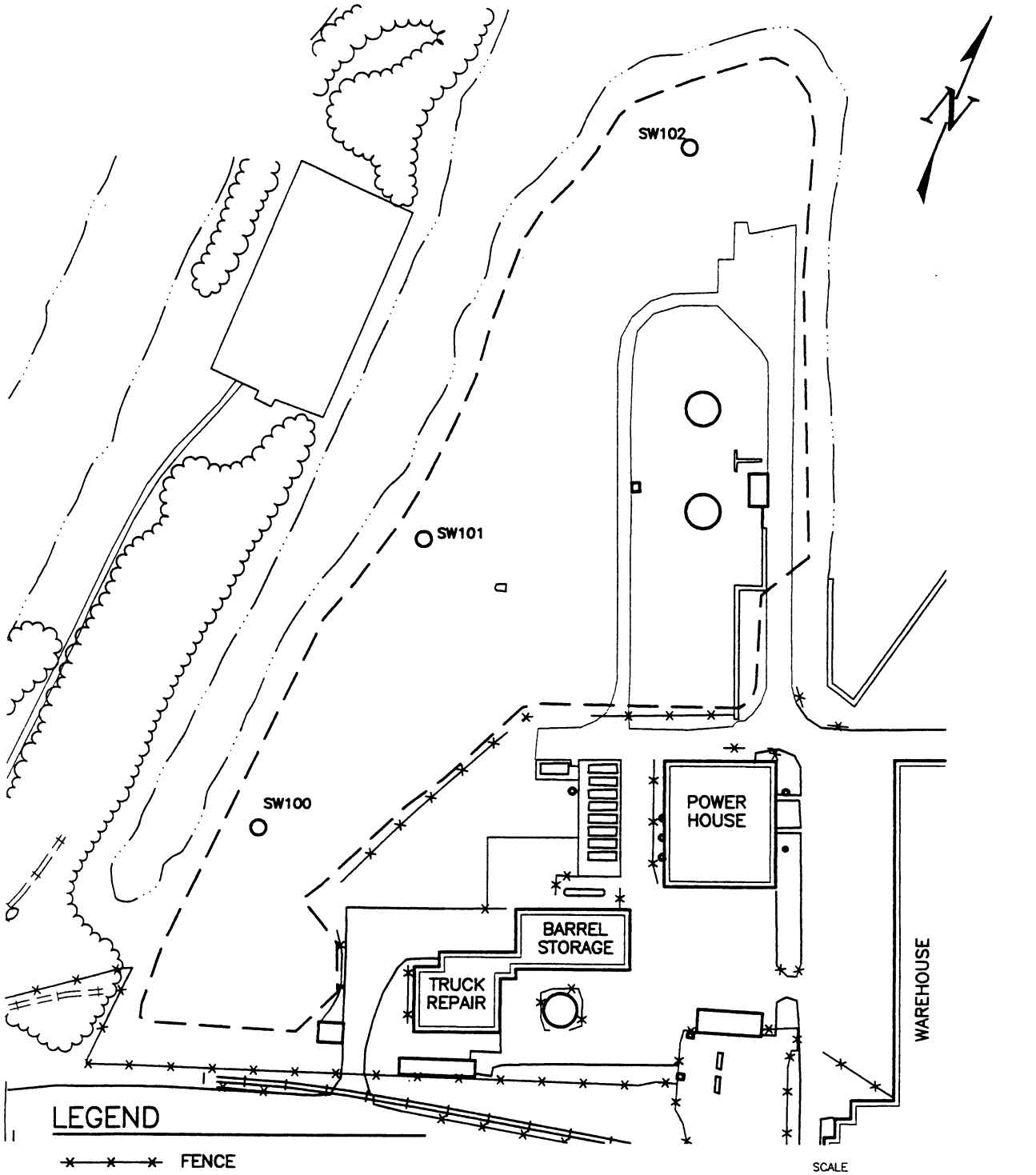
McLaren Hart
ENVIRONMENTAL ENGINEERING CORPORATION

DATE: 04/04/94	FIGURE 3-7	DRAWING NUMBER 7900B310
SCALE: AS SHOWN		

REFERENCE:
HUBBEL, ROTH & CLARKE, INC.
JOB #90160, SHEET 1 OF 1
CRA, PROJECT #3938 SHEET D-1, AUGUST 1991

REVISIONS	NO.	DESCR.	APPR. BY:

DRAWN BY:	JES
DATE	06/02/94
CHECKED BY	
APPROVED BY	
DRAWING NUMBER	7900B310



SURFACE WATER SAMPLE LOCATION PLAN
MACHINE STORAGE AREA
BAY CITY FACILITY
BAY CITY, MICHIGAN

PREPARED FOR

GM POWERTRAIN DIVISION

McLaren Hart sm
ENVIRONMENTAL ENGINEERING CORPORATION

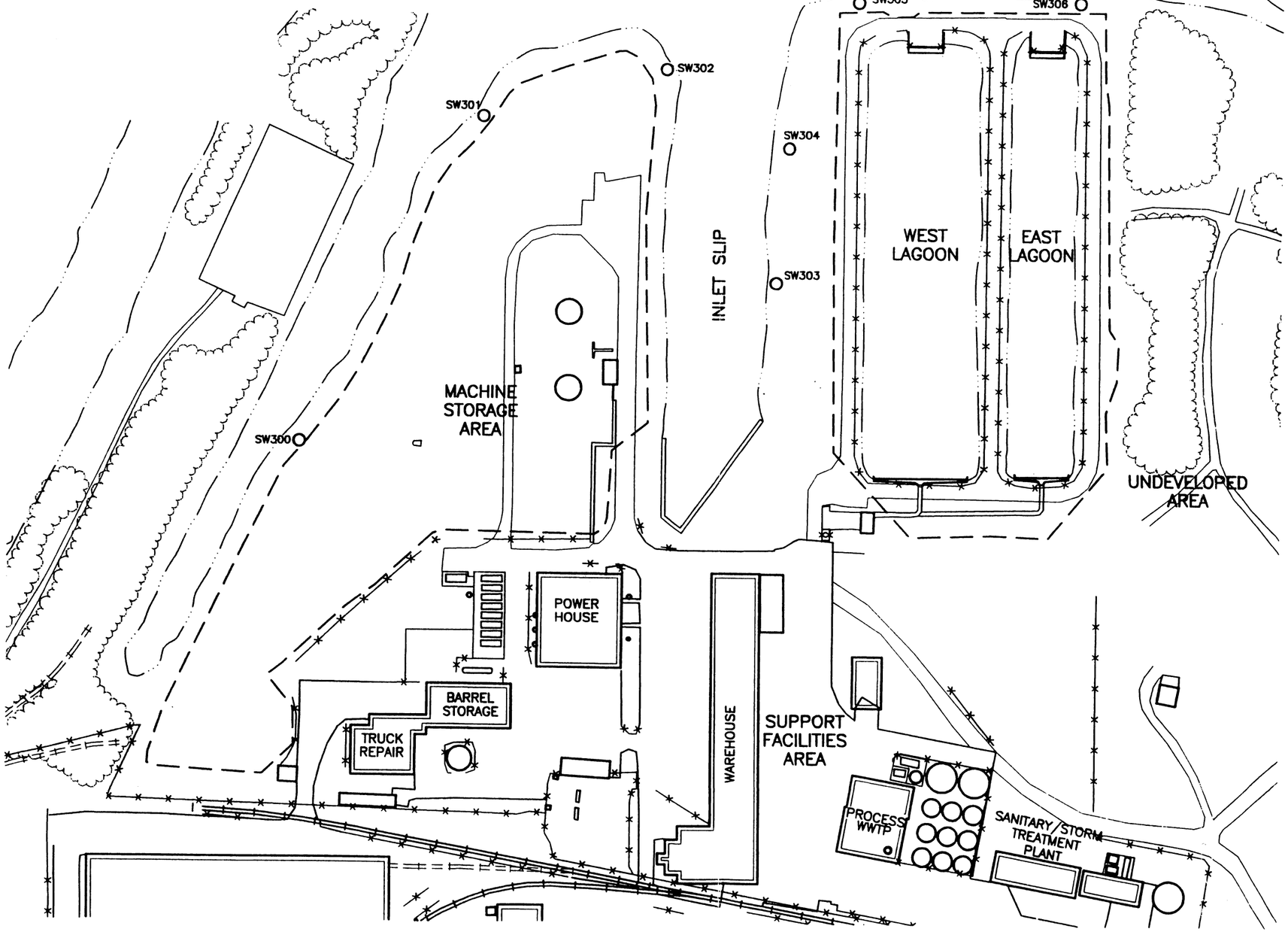
REFERENCE:
HUBBEL, ROTH & CLARKE, INC.
JOB #90160, SHEET 1 OF 1
CRA, PROJECT #3938 SHEET D-1, AUGUST 1991

DATE: 04/04/94	FIGURE 3-8	DRAWING NUMBER 7900A104
SCALE: AS SHOWN		

REVISIONS	No.	DESCR. / APPR. BY:

DRAWN BY:	JES
DATE	06/16/94
CHECKED BY	
APPROVED BY	
DRAWING NUMBER	7900A104

REVISIONS				DRAWN BY:	JES
No.	DESCR.	APPR. BY:		DATE	06/02/94
			CHECKED BY	6-30-94	DRAWING NUMBER 7900B311
			APPROVED BY	6-30-94	



LEGEND

- FENCE
- RAILROAD
- TREELINE
- SHORELINE
- DEEP SOIL MIXING WALL
- SW100 — SURFACE WATER SAMPLE LOCATION (SURFACE WATER SAMPLE NUMBER)

SCALE

0 75 150 300 FEET

SURFACE WATER SAMPLE LOCATION PLAN
PERIMETER BANKS AREA
BAY CITY FACILITY
BAY CITY, MICHIGAN

PREPARED FOR

GM POWERTRAIN DIVISION

McLaren Hart
ENVIRONMENTAL ENGINEERING CORPORATION

REFERENCE:
HUBBEL, ROTH & CLARKE, INC.
JOB #90160, SHEET 1 OF 1
CRA, PROJECT #3938 SHEET D-1, AUGUST 1991

DATE: 04/04/94	FIGURE 3-9	DRAWING NUMBER 7900B311
SCALE: AS SHOWN		

A

A'

BH121 BH120 BH119 BH118 BH117 BH116 BH115 BH114 BH113 BH112 BH111 BH320

RIVER

590
580
570
560
550
540
530
520

SHALLOW SAND/FILL

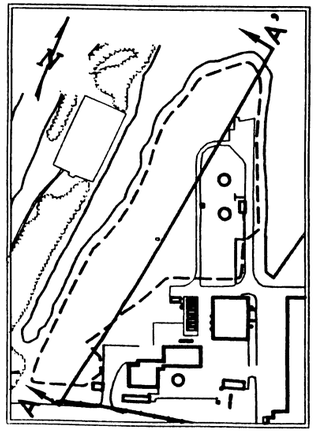
INTERMEDIATE CONFINING UNIT

DEEP SAND

DEEP CLAY TILL

FEET ABOVE MEAN SEA LEVEL

KEY PLAN



LEGEND

- DEEP SOIL MIXING WALL
- HYDRAULIC CONTROL EXTRACTION WELL
- FILL/PAVING
- CL – CLAY
- GP – GRAVEL
- GW – GRAVEL
- MH – SILT
- ML – SILT
- OL – SILT
- SP – SAND
- SW – SAND

NOTE:
NOT ALL SOIL TYPES SHOWN IN LEGEND MAY BE PRESENT IN THIS CROSS SECTION. PLEASE REFER TO SOIL BORING LOGS FOR MORE COMPLETE DESCRIPTION OF LITHOLOGY.

VERTICAL SCALE
0 5 10 25 FEET

HORIZONTAL SCALE
0 50 100 200 FEET

GEOLOGIC CROSS SECTION A–A'
MACHINE STORAGE AREA
BAY CITY FACILITY
BAY CITY, MICHIGAN

PREPARED FOR
GM POWERTRAIN DIVISION

McLaren Hart
ENVIRONMENTAL ENGINEERING CORPORATION

DATE: 06/14/94	FIGURE 4–1	DRAWING NUMBER 7900B102
SCALE: AS SHOWN		

REVISIONS			DRAWN BY:	JES
No.	DESCR.	APPR. BY:	DATE	06/15/94
			CHECKED BY	6-30-94
			APPROVED BY	4-3-94
			DRAWING NUMBER	7900B102

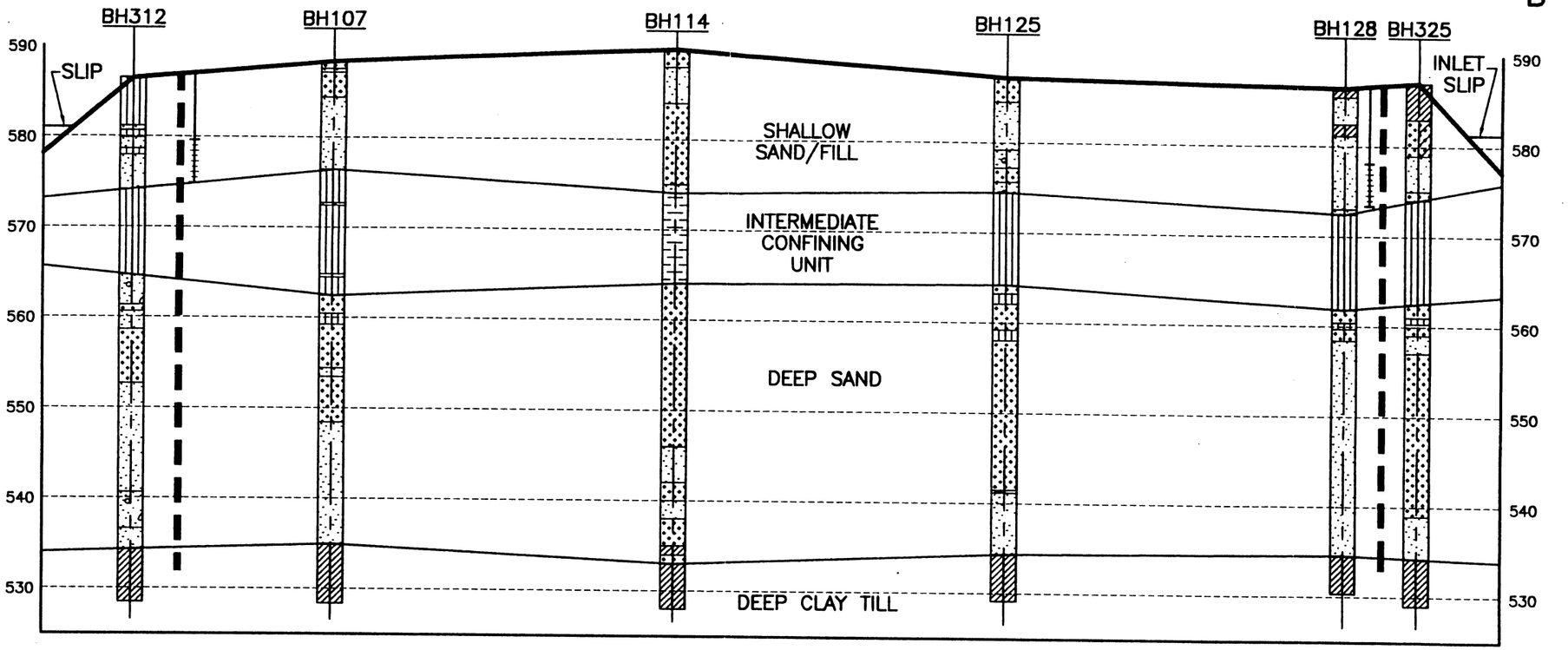
REVISIONS	DESCR.	APPR. BY:
1		

DRAWN BY: JES
DATE: 06/16/94

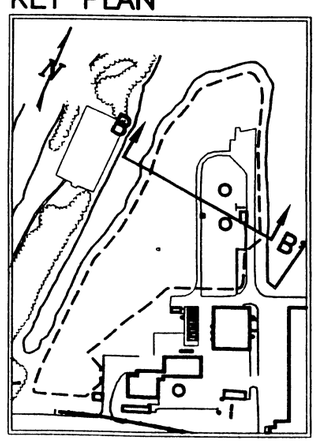
	CHECKED BY	APPROVED BY	DRAWING NUMBER
	6-30-94	6-30-94	7900B101

B

B'



KEY PLAN



LEGEND

- DEEP SOIL MIXING WALL
- HYDRAULIC CONTROL EXTRACTION WELL
- FILL/PAVING
- CL – CLAY
- GP – GRAVEL
- GW – GRAVEL
- MH – SILT
- ML – SILT
- OL – SILT
- SP – SAND
- SW – SAND

NOTE:
NOT ALL SOIL TYPES SHOWN IN LEGEND MAY BE PRESENT IN THIS CROSS SECTION. PLEASE REFER TO SOIL BORING LOGS FOR MORE COMPLETE DESCRIPTION OF LITHOLOGY.

VERTICAL SCALE
0 10 20 30 FEET

HORIZONTAL SCALE
0 20 40 80 FEET

GEOLOGIC CROSS SECTION B–B'
MACHINE STORAGE AREA
BAY CITY FACILITY
BAY CITY, MICHIGAN

PREPARED FOR
GM POWERTRAIN DIVISION

McLaren Hart
ENVIRONMENTAL ENGINEERING CORPORATION

DATE: 06/14/94	FIGURE 4–2	DRAWING NUMBER
SCALE: AS SHOWN		7900B101

C

C'

BH226 BH227 BH215 BH216 BH217 BH218 BH219 BH220 BH335

CHANNEL

SHALLOW SAND/FILL

INTERMED. CONFINING UNIT

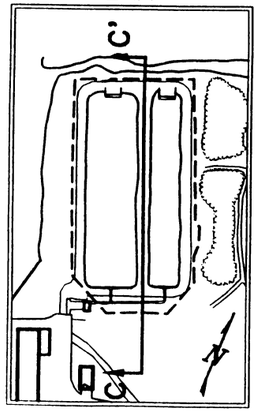
DEEP SAND

DEEP CLAY TILL

590 580 570 560 550 540 530 520 510

FEET ABOVE MEAN SEA LEVEL

KEY PLAN



LEGEND

- DEEP SOIL MIXING WALL
- HYDRAULIC CONTROL EXTRACTION WELL
- FILL/PAVING
- CL – CLAY
- GP – GRAVEL
- GW – GRAVEL
- MH – SILT
- ML – SILT
- OL – SILT
- SP – SAND
- SW – SAND

NOTE:
NOT ALL SOIL TYPES SHOWN IN LEGEND MAY BE PRESENT IN THIS CROSS SECTION. PLEASE REFER TO SOIL BORING LOGS FOR MORE COMPLETE DESCRIPTION OF LITHOLOGY.

VERTICAL SCALE
0 10 20 30 FEET

HORIZONTAL SCALE
0 50 100 200 FEET

GEOLOGIC CROSS SECTION C–C'
LAGOON AREA
BAY CITY FACILITY
BAY CITY, MICHIGAN

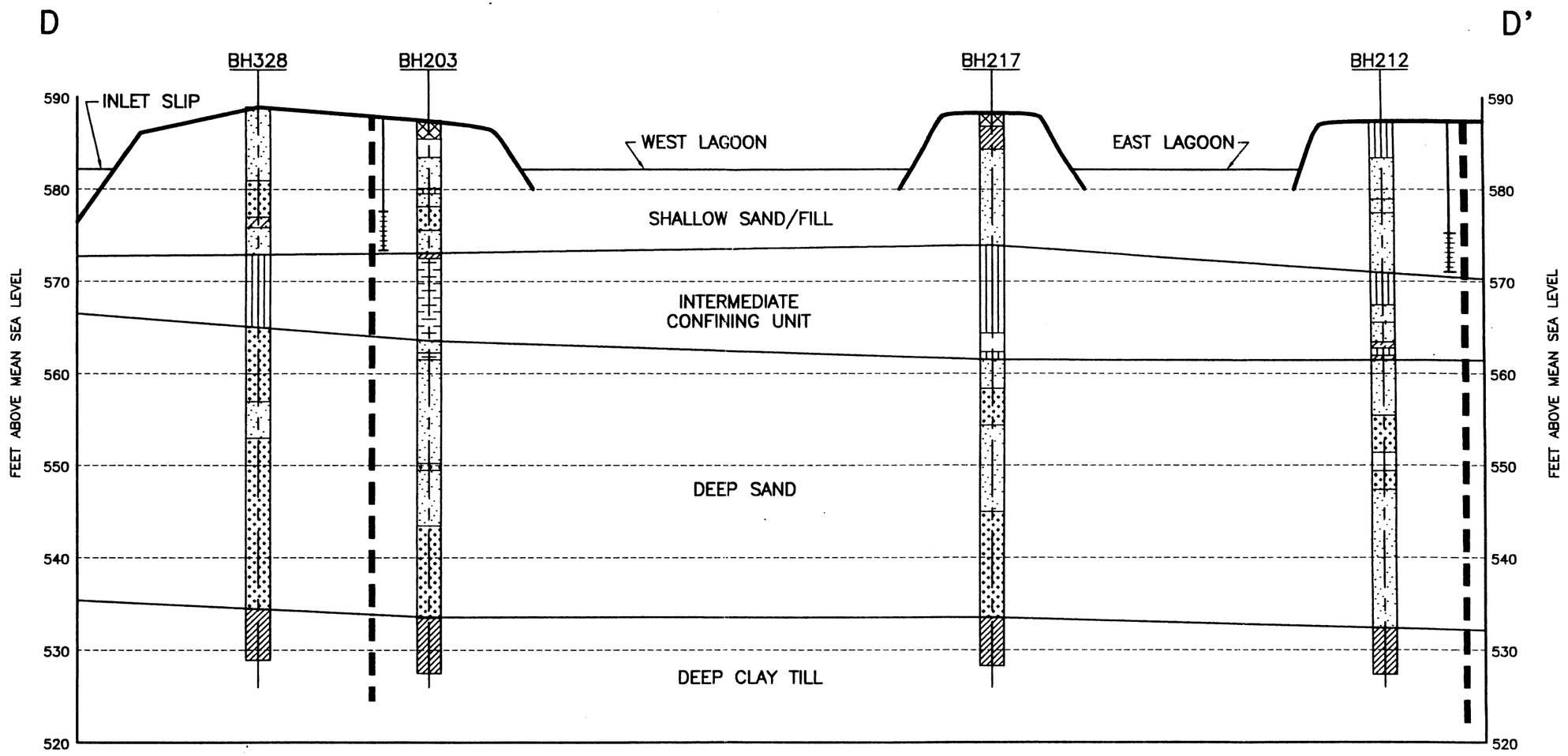
PREPARED FOR

GM POWERTRAIN DIVISION

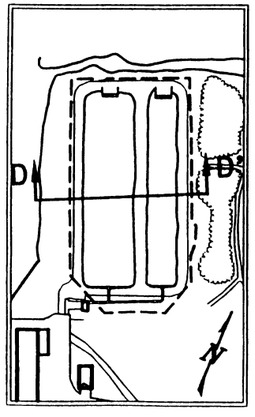
McLaren Hart
ENVIRONMENTAL ENGINEERING CORPORATION

DATE: 06/14/94 | FIGURE 4–3 | DRAWING NUMBER 7900B201
SCALE: AS SHOWN

REVISIONS			DRAWN BY:	JES	CHECKED BY		DRAWING NUMBER	7900B201
NO.	DESCR.	APPR. BY:	DATE	06/16/94	APPROVED BY			



KEY PLAN



LEGEND

- DEEP SOIL MIXING WALL
- HYDRAULIC CONTROL EXTRACTION WELL
- FILL/PAVING
- CL – CLAY
- GP – GRAVEL
- GW – GRAVEL
- MH – SILT
- ML – SILT
- OL – SILT
- SP – SAND
- SW – SAND

NOTE:
NOT ALL SOIL TYPES SHOWN IN LEGEND MAY BE PRESENT IN THIS CROSS SECTION. PLEASE REFER TO SOIL BORING LOGS FOR MORE COMPLETE DESCRIPTION OF LITHOLOGY.

VERTICAL SCALE
0 5 10 25 FEET

HORIZONTAL SCALE
0 20 40 80 FEET

GEOLOGIC CROSS SECTION D–D'
LAGOON AREA
BAY CITY FACILITY
BAY CITY, MICHIGAN

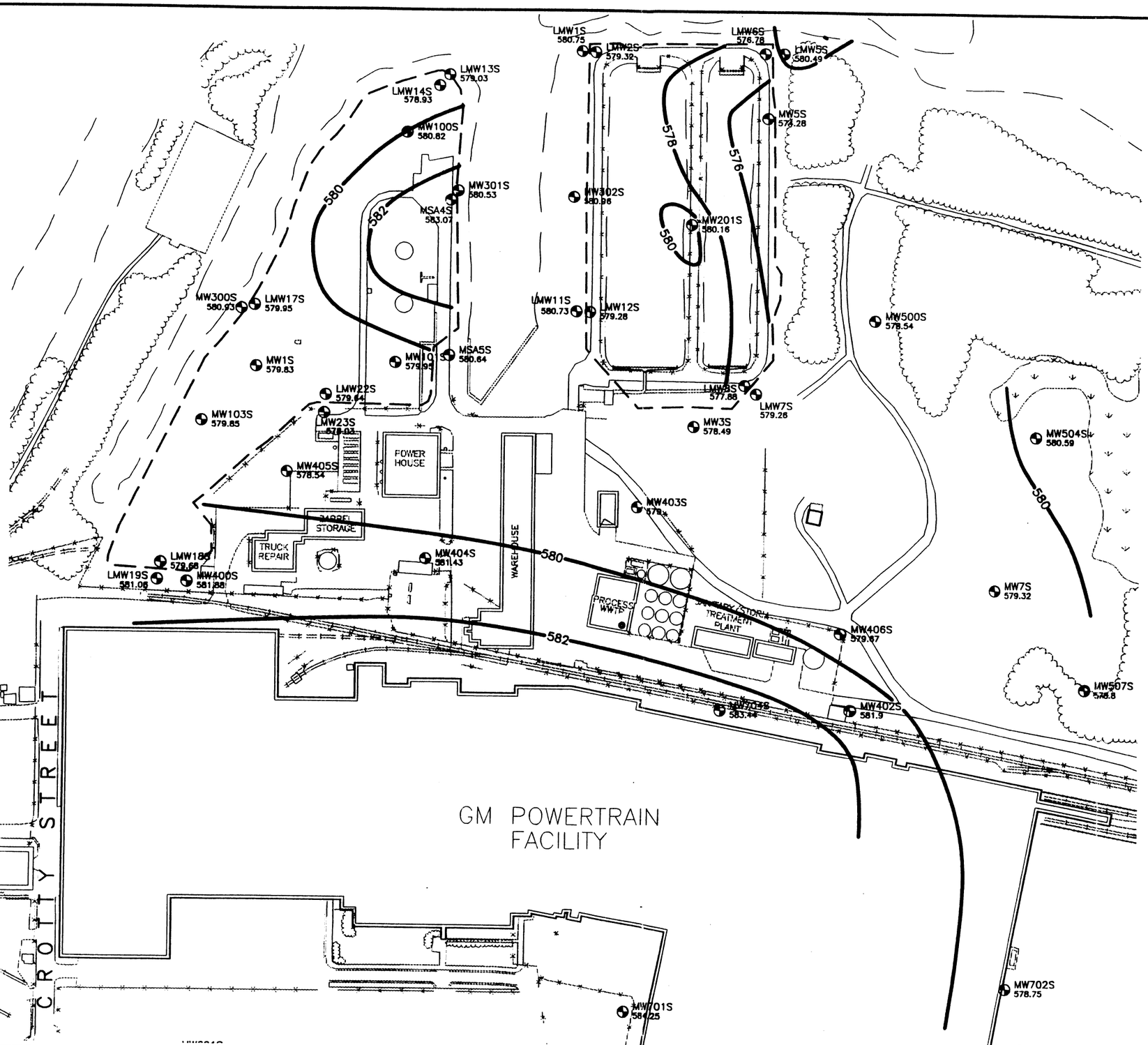
PREPARED FOR
GM POWERTRAIN DIVISION

McLaren Hart
ENVIRONMENTAL ENGINEERING CORPORATION

DATE: 06/14/94 | SCALE: AS SHOWN | FIGURE 4–4 | DRAWING NUMBER 79008202

REVISIONS			DRAWN BY:	JES	CHECKED BY	[illegible]	DRAWING NUMBER	79008202
No.	DESCR.	APPR. BY:	DATE	06/15/94	APPROVED BY	[illegible]		6-30-94 / 6-30-94

REVISIONS		DESCR.	CHECKED BY	AWB	6-30-94	DRAWING NUMBER	7900B034
No.		APPR. BY:	APPROVED BY	MEE	6-30-94		
DRAWN BY:	JES						
DATE	06/20/94						



LEGEND

- FENCE
- RAILROAD
- TREELINE
- SHORELINE
- DEEP SOIL MIXING WALL
- MW100S 580.82 — MONITORING WELL LOCATION (MONITORING WELL NUMBER; GROUNDWATER ELEVATION (ft.))
- 580 — GROUNDWATER EQUIPOTENTIAL LINE (GROUNDWATER ELEVATION (ft.))

SCALE

0 100 200 400 FEET

GROUNDWATER TABLE
SHALLOW AQUIFER AUGUST 10, 1993
BAY CITY, MICHIGAN

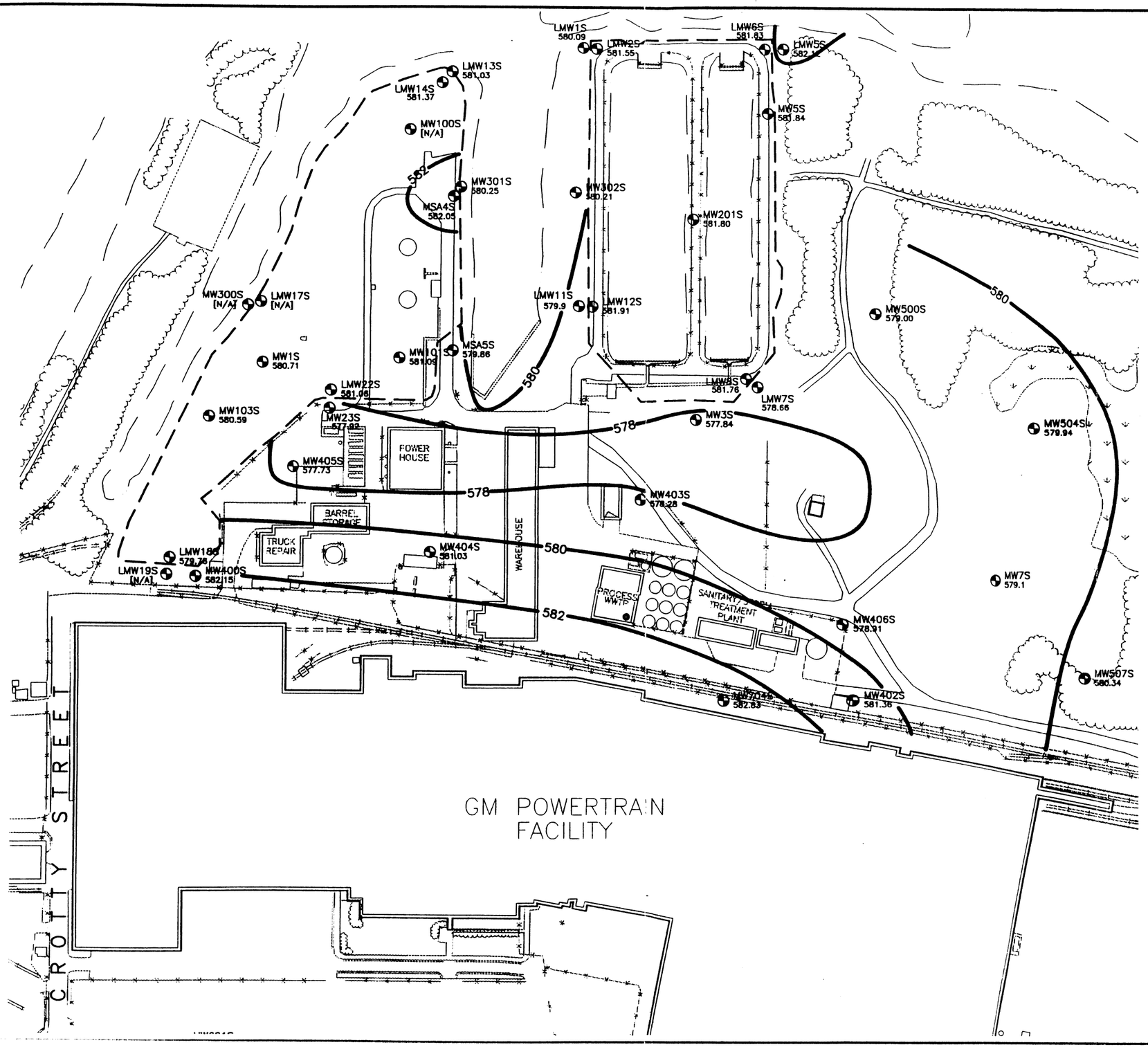
PREPARED FOR

GM POWERTRAIN DIVISION

McLaren Hart
ENVIRONMENTAL ENGINEERING CORPORATION

DATE: 09/15/93	FIGURE 4-5.	DRAWING NUMBER
SCALE: AS SHOWN		7900B034

REVISIONS	NO.	DESCR.	DRAWN BY:	JES	DRAWING NUMBER	79008043
		APPR. BY:	DATE	06/20/94		
			CHECKED BY	CHS	6-30-94	
			APPROVED BY	AEC	6-30-94	



LEGEND

- FENCE
- RAILROAD
- TREELINE
- SHORELINE
- DEEP SOIL MIXING WALL
- MW100S 580.82 — MONITORING WELL LOCATION; MONITORING WELL NUMBER; GROUNDWATER ELEVATION (ft.)
- 580 — GROUNDWATER EQUIPOTENTIAL LINE; GROUNDWATER ELEVATION (ft.)

SCALE

0 100 200 400 FEET

GROUNDWATER TABLE
SHALLOW AQUIFER JANUARY 11, 1994
BAY CITY, MICHIGAN

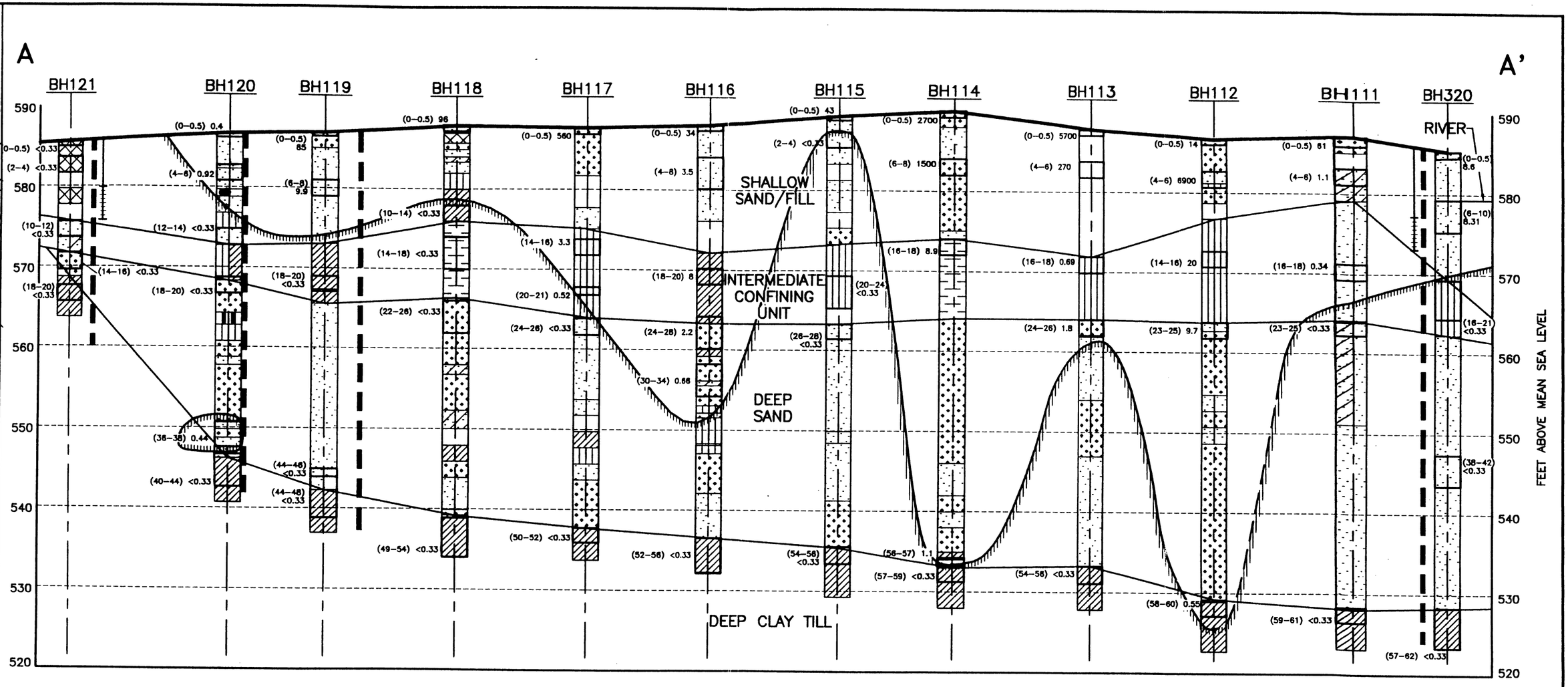
PREPARED FOR

GM POWERTRAIN DIVISION

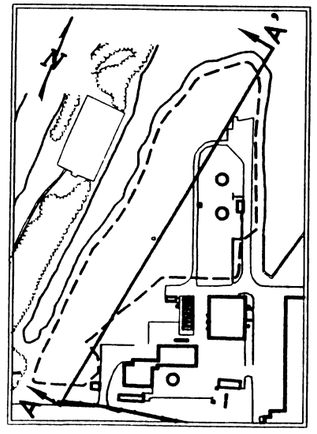
McLaren Hart
ENVIRONMENTAL ENGINEERING CORPORATION

DATE: 09/15/93	FIGURE 4-6	DRAWING NUMBER 79008043
SCALE: AS SHOWN		

REVISIONS				DRAWN BY:	JES	DRAWING NUMBER	7900B104
NO.	DESCR.	APPR. BY:		DATE	06/30/94		
				CHECKED BY			
				APPROVED BY			



KEY PLAN



LEGEND

- DEEP SOIL MIXING WALL
- HYDRAULIC CONTROL EXTRACTION WELL
- DETECT/NON–DETECT DIVISION
- SAMPLE COLLECTED
  - (54–58) <0.33
    - RESULT FOR PCBs (mg/kg)
    - DEPTH OF SAMPLE

NOTE:
NOT ALL SOIL TYPES SHOWN IN LEGEND MAY BE PRESENT IN THIS CROSS SECTION. PLEASE REFER TO SOIL BORING LOGS FOR MORE COMPLETE DESCRIPTION OF LITHOLOGY.

- FILL/PAVING
- CL – CLAY
- GP – GRAVEL
- GW – GRAVEL
- MH – SILT
- ML – SILT
- OL – SILT
- SP – SAND
- SW – SAND

VERTICAL SCALE
0 5 10 25 FEET

HORIZONTAL SCALE
0 50 100 200 FEET

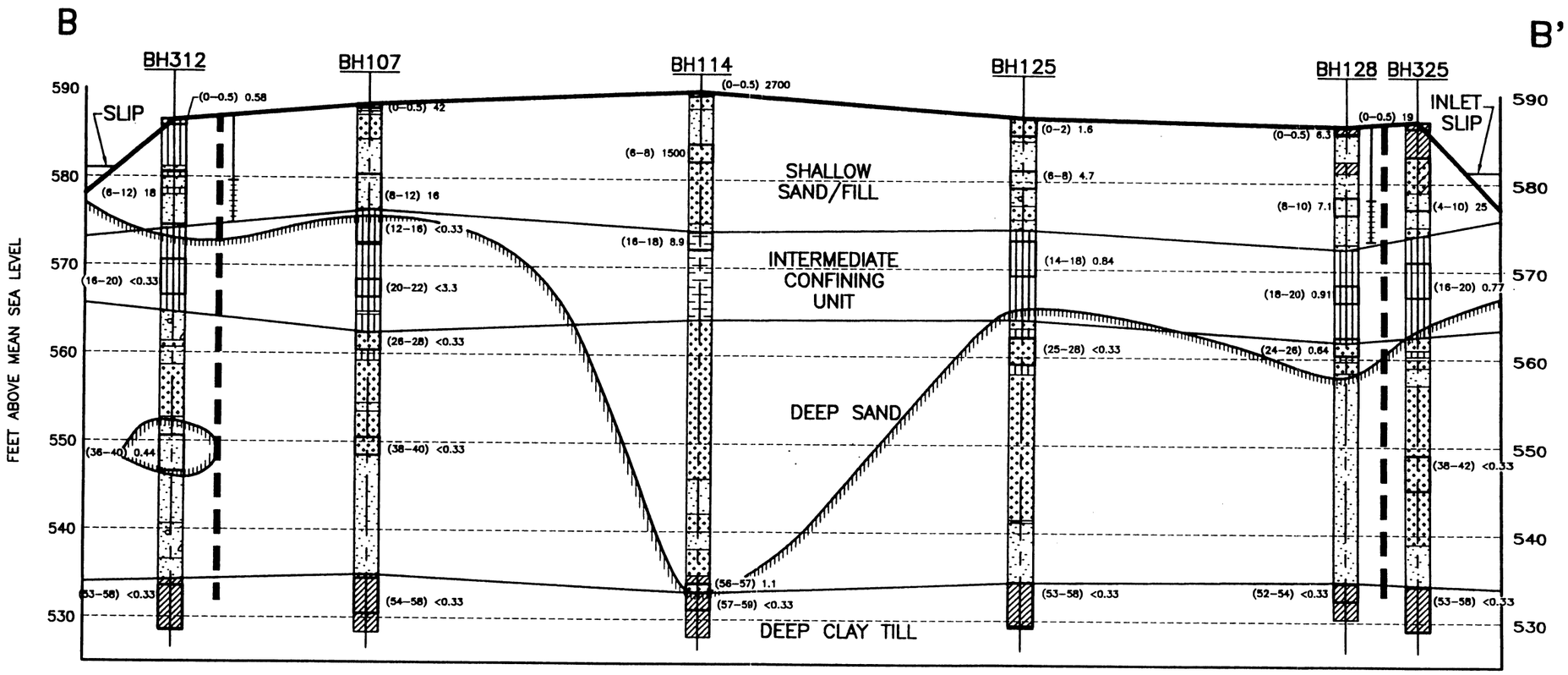
PCB RESULTS CROSS SECTION A–A'
MACHINE STORAGE AREA
BAY CITY FACILITY
BAY CITY, MICHIGAN

PREPARED FOR
GM POWERTRAIN DIVISION

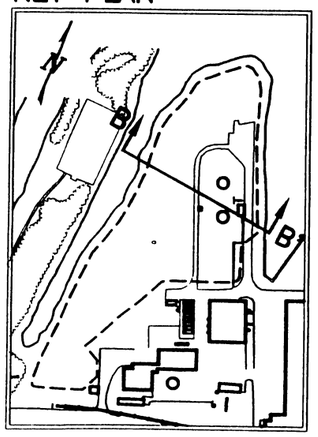
McLaren Hart
ENVIRONMENTAL ENGINEERING CORPORATION

DATE: 06/14/94	FIGURE 4–7	DRAWING NUMBER 7900B104
SCALE: AS SHOWN		

REVISIONS	NO.	DESCR.	APPR. BY:	DRAWN BY:	JES	CHECKED BY		DRAWING NUMBER	7900B103
				DATE	06/30/94	APPROVED BY			



KEY PLAN



LEGEND

- DEEP SOIL MIXING WALL
- HYDRAULIC CONTROL EXTRACTION WELL
- DETECT/NON–DETECT DIVISION
- SAMPLE COLLECTED
  - (54–58) <0.33
    - RESULT FOR PCBs (mg/kg)
    - DEPTH OF SAMPLE

NOTE:
NOT ALL SOIL TYPES SHOWN IN LEGEND MAY BE PRESENT IN THIS CROSS SECTION. PLEASE REFER TO SOIL BORING LOGS FOR MORE COMPLETE DESCRIPTION OF LITHOLOGY.

- FILL/PAVING
- CL – CLAY
- GP – GRAVEL
- GW – GRAVEL
- MH – SILT
- ML – SILT
- OL – SILT
- SP – SAND
- SW – SAND

VERTICAL SCALE
0 10 20 30 FEET

HORIZONTAL SCALE
0 20 40 80 FEET

PCB RESULTS CROSS SECTION B–B'
MACHINE STORAGE AREA
BAY CITY FACILITY
BAY CITY, MICHIGAN

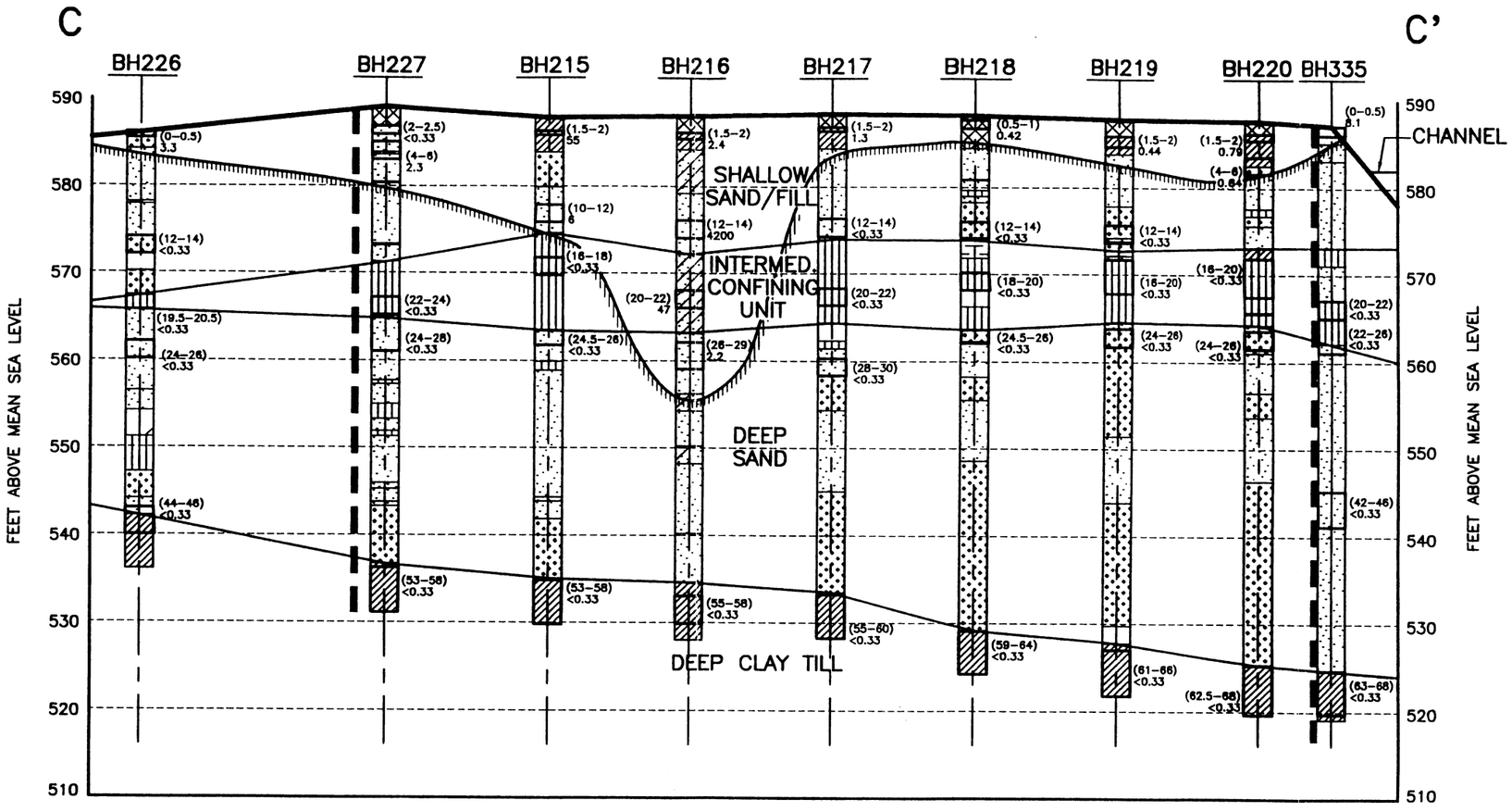
PREPARED FOR
GM POWERTRAIN DIVISION

McLaren Hart
ENVIRONMENTAL ENGINEERING CORPORATION

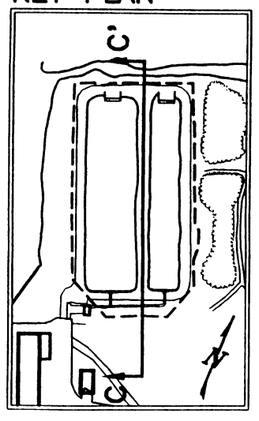
DATE: 06/14/94	FIGURE 4–8	DRAWING NUMBER 7900B103
SCALE: AS SHOWN		

C

C'



KEY PLAN



LEGEND

- DEEP SOIL MIXING WALL
- HYDRAULIC CONTROL EXTRACTION WELL
- DETECT/NON–DETECT DIVISION
- SAMPLE COLLECTED
  - (54–58) <0.33
  - RESULT FOR PCBs (mg/kg)
  - DEPTH OF SAMPLE

NOTE:
NOT ALL SOIL TYPES SHOWN IN LEGEND MAY BE PRESENT IN THIS CROSS SECTION. PLEASE REFER TO SOIL BORING LOGS FOR MORE COMPLETE DESCRIPTION OF LITHOLOGY.

- FILL/PAVING
- CL – CLAY
- GP – GRAVEL
- GW – GRAVEL
- MH – SILT
- ML – SILT
- OL – SILT
- SP – SAND
- SW – SAND

VERTICAL SCALE
0 10 20 30 FEET

HORIZONTAL SCALE
0 50 100 200 FEET

PCB RESULTS CROSS SECTION C–C'
LAGOON AREA
BAY CITY FACILITY
BAY CITY, MICHIGAN

PREPARED FOR
GM POWERTRAIN DIVISION

McLaren Hart
ENVIRONMENTAL ENGINEERING CORPORATION

DATE: 06/14/94 | SCALE: AS SHOWN | FIGURE 4–9 | DRAWING NUMBER 79008203

REVISIONS			
No.	DESCR.	APPR. BY:	

DRAWN BY: JES 06/22/94
CHECKED BY: [illegible] 6-30-94
APPROVED BY: [illegible] 6-30-94
DRAWING NUMBER 79008203

D

D'

BH328

BH203

BH217

BH212

INLET SLIP

WEST LAGOON

EAST LAGOON

SHALLOW SAND/FILL

INTERMEDIATE CONFINING UNIT

DEEP SAND

DEEP CLAY TILL

(0–0.5) 2.3

(6–8) 9.4

(1.5–2) 0.63

(1.5–2) 1.3

(0–0.5) <0.99

(12–14) <0.33

(14–16) <0.33

(18–20) <0.33

(18–22) <0.33

(20–22) <0.33

(26–28) <0.33

(26–30) <0.33

(36–40) <0.33

(55–58) <0.33

(54–60) <0.33

(55–60) <0.33

(56–58) <0.33

590

580

570

560

550

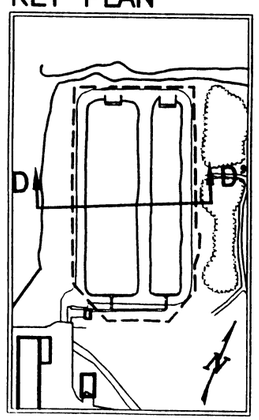
540

530

520

FEET ABOVE MEAN SEA LEVEL

KEY PLAN



LEGEND

- DEEP SOIL MIXING WALL
- HYDRAULIC CONTROL EXTRACTION WELL
- DETECT/NON–DETECT DIVISION
- SAMPLE COLLECTED
  (54–58) <0.33
  - RESULT FOR PCBs (mg/kg)
  - DEPTH OF SAMPLE

NOTE:
NOT ALL SOIL TYPES SHOWN IN LEGEND MAY BE PRESENT IN THIS CROSS SECTION. PLEASE REFER TO SOIL BORING LOGS FOR MORE COMPLETE DESCRIPTION OF LITHOLOGY.

- FILL/PAVING
- CL – CLAY
- GP – GRAVEL
- GW – GRAVEL
- MH – SILT
- ML – SILT
- OL – SILT
- SP – SAND
- SW – SAND

VERTICAL SCALE
0 5 10 25 FEET

HORIZONTAL SCALE
0 20 40 80 FEET

PCB RESLUTS CROSS SECTION D–D'
LAGOON AREA
BAY CITY FACILITY
BAY CITY, MICHIGAN

PREPARED FOR

GM POWERTRAIN DIVISION

McLaren Hart
ENVIRONMENTAL ENGINEERING CORPORATION

DATE: 06/14/94
SCALE: AS SHOWN
FIGURE 4–10
DRAWING NUMBER 79008204

REVISIONS			DRAWN BY:	JES
No.	DESCR.	APPR. BY:	DATE	06/30/94
			CHECKED BY	
			APPROVED BY	
			DRAWING NUMBER	79008204

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected PCBs - Method 8080(mg/kg)

Machine Storage Area

SAMPLE-ID	Aroclor 1248	Aroclor 1260
BH100(0-0.5)	.69	<0.33
BH100(0-0.5)	.69	<0.33
BH100(10-12)	1.2	<0.33
BH100(13-16)	<0.33	<0.33
BH100(17.5-20)	<0.33	<0.33
BH100(29-32)	<0.33	<0.33
BH101(0-0.5)	61	<1.65
BH101(12-16)	<0.33	<0.33
BH101(16-18)	<0.33	<0.33
BH101(18-22)	.93	<0.33
BH101(42-48)	<0.33	<0.33
BH102(0-0.5)	31	<0.33
BH102(12-14)	30	<3.3
BH102(16-18)	<0.33	<0.33
BH102(18-20)	1.5	<0.33
BH102(48-50)	.6	<0.33
BH103(0-1)	1.6	<0.33
BH103(6-11.5)	7.5	<0.33
BH103(11.5-13.5)	2.7	<0.33
BH103(20-22)	<0.33	<0.33
BH103(44-46)	<0.33	<0.33
BH103(48-50)	<0.33	<0.33
BH104(0-0.5)	28	<0.33
BH104(2-4)	6.6	<1.3
BH104(16-18)	.37	<0.33
BH104(42-44)	4.3	.78
BH104(52-54)	<0.33	<0.33
BH105(0-2)	170	<17
BH105(4-10)	<0.33	<0.33
BH105(18-22)	<0.33	<0.33
BH105(28-38)	<0.33	<0.33
BH105(50-54)	<0.33	<0.33
BH106(0-0.5)	96	<3.3
BH106(12-14)	53	<0.825
BH106(18-20)	6.3	<1.32
BH106(24-26)	1.5	<0.33
BH106(28-30)	<0.33	<0.33
BH106(52-56)	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected PCBs - Method 8080(mg/kg)
Machine Storage Area

SAMPLE-ID	Aroclor 1248	Aroclor 1260
BH100(0-0.5)	.69	<0.33
BH107(0-0.5)	42	<0.825
BH107(8-12)	16	8.8
BH107(12-16)	<0.33	<0.33
BH107(20-22)	<3.3	<3.3
BH107(26-28)	<0.33	<0.33
BH107(38-40)	<0.33	<0.33
BH107(54-58)	<0.33	<0.33
BH108(0-0.5)	7.3	<0.33
BH108(6-12)	670	<6.6
BH108(20-22)	.45	<0.33
BH108(24-26)	<0.33	<0.33
BH108(56-62)	<0.33	<0.33
BH109(0-0.5)	49	<3.3
BH109(6-8)	3900	<165
BH109(20-22)	110	<6.6
BH109(22-26)	10	<0.66
BH109(57-62)	<0.33	<0.33
BH110(0-0.5)	11	<3.3
BH110(4-6)	76	<6.7
BH110(20-22)	<0.33	<0.33
BH110(22-24)	1.8	<0.33
BH110(60-66)	<0.33	<0.33
BH111(0-0.5)	61	<3.3
BH111(4-6)	1.1	<0.33
BH111(16-18)	.34	<0.33
BH111(23-25)	<0.33	<0.33
BH111(59-61)	<0.33	<0.33
BH112(0-0.5)	14	<0.33
BH112(4-6)	6900	<33
BH112(14-16)	20	<0.33
BH112(23-25)	9.7	<0.33
BH112(58-60)	.55	<0.33
BH113(0-0.5)	5700	<33
BH113(6-8)	270	<3.3
BH113(16-18)	.69	<0.33
BH113(24-26)	1.8	<0.33
BH113(54-56)	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected PCBs - Method 8080(mg/kg)
Machine Storage Area

SAMPLE-ID	Aroclor 1248	Aroclor 1260
BH100(0-0.5)	.69	<0.33
BH114(0-0.5)	2700	<170
BH114(6-8)	1500	<170
BH114(16-18)	8.9	<3.3
BH114(56-57)	1.1	<0.33
BH114(57-59)	<0.33	<0.33
BH115(0-0.5)	43	<0.33
BH115(2-4)	<0.33	<0.33
BH115(20-23)	<0.33	<0.33
BH115(26-28)	<0.33	<0.33
BH115(54-56)	<0.33	<0.33
BH116(0-0.5)	34	<6.6
BH116(4-8)	3.5	<0.33
BH116(18-20)	8	<0.33
BH116(24-28)	2.2	<0.33
BH116(30-34)	.66	<0.33
BH116(52-56)	<0.33	<0.33
BH117(0-0.5)	560	<3.3
BH117(14-16)	3.3	<0.33
BH117(20-21)	.52	<0.33
BH117(24-26)	<0.33	<0.33
BH117(50-52)	<0.33	<0.33
BH118(0-0.5)	96	<0.33
BH118(10-14)	<0.33	<0.33
BH118(14-18)	<0.33	<0.33
BH118(22-26)	<0.33	<0.33
BH118(49-54)	<0.33	<0.33
BH119(0-0.5)	85	<17
BH119(6-8)	9.9	<3.3
BH119(18-20)	<0.33	<0.33
BH119(44-46)	<0.33	<0.33
BH119(44-48)	<0.33	<0.33
BH120(0-0.5)	.4	<0.33
BH120(4-6)	.92	<0.33
BH120(12-14)	<0.33	<0.33
BH120(18-20)	<0.33	<0.33
BH120(36-38)	.44	<0.33
BH120(40-44)	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected PCBs - Method 8080(mg/kg)
Machine Storage Area

SAMPLE-ID	Aroclor 1248	Aroclor 1260
BH100(0-0.5)	.69	<0.33
BH121(0-0.5)	<0.33	<0.33
BH121(2-4)	<0.33	<0.33
BH121(10-12)	<0.33	<0.33
BH121(14-16)	<0.33	<0.33
BH121(18-20)	<0.33	<0.33
BH122(0-0.5)	<0.33	<0.33
BH122(6-8)	<0.33	<0.33
BH122(16-18)	<0.33	<0.33
BH122(24-26)	<0.33	<0.33
BH122(49-52)	<0.33	<0.33
BH123(0-0.5)	64	<0.33
BH123(8-10)	<0.33	<0.33
BH123(18-24)	<0.33	<0.33
BH123(32-34)	<0.33	<0.33
BH123(51-52)	<0.33	<0.33
BH124(0-0.5)	120	<3.3
BH124(2-4)	<0.33	<0.33
BH124(16-20)	2.4	<0.33
BH124(26-30)	<0.33	<0.33
BH124(52-56)	<0.33	<0.33
BH125(0-2)	1.6	<0.33
BH125(6-8)	4.7	5.8
BH125(14-18)	.84	<0.33
BH125(25-28)	<0.33	<0.33
BH125(53-58)	<0.33	<0.33
BH126(0-0.5)	81	<33
BH126(10-12)	<0.33	<0.33
BH126(18-20)	<0.33	<0.33
BH126(22-24)	<0.33	<0.33
BH126(54-56)	<0.33	<0.33
BH127(0-0.5)	27	<0.83
BH127(4-6)	15	<0.33
BH127(14-16)	.72	<0.33
BH127(23-25)	<0.33	<0.33
BH127(54-56)	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected PCBs - Method 8080(mg/kg)
Machine Storage Area

SAMPLE-ID	Aroclor 1248	Aroclor 1260
BH100(0-0.5)	.69	<0.33
BH128(0-0.5)	6.3	<0.33
BH128(8-10)	7.1	<0.33
BH128(18-20)	.91	<0.33
BH128(24-26)	.64	<0.33
BH128(52-54)	<0.33	<0.33
BH129(0-0.5)	19	<0.33
BH129(8-12)	78	<3.3
BH129(16-22)	<0.33	<0.33
BH129(26-30)	<0.33	<0.33
BH129(49-54)	.55	<0.33
BH130(1-1.5)	29	<6.7
BH130(10-12)	9.7	<1.7
BH130(18-20)	<0.33	<0.33
BH130(26-28)	<0.33	<0.33
BH130(49-54)	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Semivolatile Organic Compounds - Method 8270(mg/kg)

Machine Storage Area

SAMPLE-NE	ACENAPHTHENE	ANTHRACENE	BENZO(A) ANTHRACENE	BENZO(A) PYRENE	BENZO(B) FLUORANTHENE	BENZO(G,H,I) PERYLENE	BENZO(K) FLUORANTHENE	BIS(2-ETHYLHEX) PHTHALATE	CARBAZOLE	CHRYSENE	2,4-DIMETHYL PHENOL	FLUORANTHENE	FLUORENE
BH104(0-0.5)	<0.33	0.24	0.88	0.74	0.81	0.56	0.81	0.37	<0.33	1.3	<0.33	1.3	<0.33
BH105(0-2)	<0.33	<0.33	0.6	0.53	0.73	0.41	<0.33	<0.33	N/A	0.59	<0.33	<0.33	<0.33
BH105(4-10)	<3.3	<3.3	5.6	<3.3	4.6	<3.3	<3.3	<3.3	N/A	<3.3	<3.3	5.8	<3.3
BH105(18-22)	<0.33	<0.33	0.55	<0.33	0.38	<0.33	<0.33	<0.33	N/A	0.76	<0.33	1.6	<0.33
BH105(28-38)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	N/A	<0.33	<0.33	<0.33	<0.33
BH105(50-54)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	N/A	<0.33	<0.33	<0.33	<0.33
BH109(0-0.5)	0.41	<0.33	2.1	1.3	2.4	0.85	<0.33	<0.33	0.73	1.2	<0.33	3.1	<0.33
BH109(6-8)	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	39	15	<9.9
BH109(20-22)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH109(22-26)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH109(57-62)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH118(0-0.5)	<0.33	0.46	0.37	0.42	0.37	0.46	0.32	0.13	<0.33	0.45	<0.33	0.74	<0.33
BH118(10-14)	<0.33	0.48	0.21	<0.33	0.14	0.13	0.12	<0.33	<0.33	0.32	<0.33	0.55	<0.33
BH118(14-18)	<0.33	0.21	<0.33	<0.33	<0.33	<0.33	<0.33	0.28	<0.33	<0.33	<0.33	0.25	<0.33
BH118(22-26)	<0.33	<0.33	<0.33	0.061	<0.33	<0.33	<0.33	0.077	<0.33	<0.33	<0.33	<0.33	<0.33
BH118(49-54)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.05	<0.33	<0.33	<0.33	<0.33	<0.33
BH121(0-0.5)	<0.33	5.4	0.28	0.26	0.2	0.18	0.22	0.13	0.59	0.42	<0.33	0.69	<0.33
BH125(0-2)	1.7	3.6	12	7.1	12	3.2	<1.6	<1.6	<1.6	8.7	<1.6	16	1.7
BH125(6-8)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BH125(14-18)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.53	<0.33
BH125(25-28)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH125(53-58)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Semivolatile Organic Compounds - Method 8270(mg/kg)

Machine Storage Area

SAMPLE-NE	INDENO(1,2,3-CD)PYRENE	2-METHYL NAPTHALENE	4-METHYL PHENOL	NAPHTHALENE	PHENANTHRENE	PHENOL	PYRENE
BH104(0-0.5)	0.57	<0.33	<0.33	<0.33	0.92	<0.33	1.5
BH105(0-2)	0.42	<0.33	<0.33	<0.33	0.72	<0.33	<0.33
BH105(4-10)	<3.3	<3.3	<3.3	<3.3	9.6	<3.3	5.6
BH105(18-22)	<0.33	1	<0.33	0.68	2	<0.33	0.57
BH105(28-38)	<0.33	<0.33	<0.33	<0.33	<0.33	5.2	<0.33
BH105(50-54)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH109(0-0.5)	1	<0.33	<0.33	0.41	2.2	<0.33	3.5
BH109(6-8)	<9.9	<9.9	66	<9.9	38	<9.9	<9.9
BH109(20-22)	<0.33	<0.33	<0.33	<0.33	0.39	<0.33	<0.33
BH109(22-26)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH109(57-62)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH118(0-0.5)	0.48	<0.33	<0.33	<0.33	0.43	<0.33	0.69
BH118(10-14)	0.15	<0.33	<0.33	<0.33	0.45	<0.33	0.51
BH118(14-18)	<0.33	<0.33	<0.33	<0.33	0.2	<0.33	0.22
BH118(22-26)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH118(49-54)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH121(0-0.5)	0.18	<0.33	<0.33	0.19	0.49	<0.33	0.58
BH125(0-2)	3.3	<1.6	<1.6	<1.6	17	<1.6	19
BH125(6-8)	<5	<5	<5	6.9	14	<5	5.7
BH125(14-18)	<0.33	<0.33	<0.33	<0.33	0.89	<0.33	0.43
BH125(25-28)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH125(53-58)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Volatile Organic Compounds - Methods 8260/8240(mg/kg)
Machine Storage Area

SAMPLE-ID	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	ACETONE	2-BUTANONE	1,2-DCE	METHYLENE CHLORIDE	1,1,1-TCA
BH104(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.01
BH105(0-2)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.01
BH105(4-10)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.01
BH105(18-22)	<0.01	<0.01	<0.01	<0.03	0.74	<0.1	<0.01	0.026	<0.01
BH105(28-38)	<0.01	<0.01	<0.01	<0.03	0.55	<0.1	<0.01	0.02	<0.01
BH105(50-54)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	0.015	<0.01
BH109(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	0.024	<0.01
BH109(6-8)	0.059	0.3	0.14	0.53	4.7	0.62	<0.05	<0.05	<0.05
BH109(20-22)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.01
BH109(22-26)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.01
BH109(57-62)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.01
BH118(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.01
BH118(10-14)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.01
BH118(14-18)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.01
BH118(22-26)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.01
BH118(49-54)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	0.017
BH121(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.01
BH125(0-2)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.01
BH125(6-8)	<0.1	N/A	0.47	3	<1	<1	0.23	0.12	<0.1
BH125(14-18)	<0.01	0.03	0.022	0.16	0.27	<0.1	0.014	<0.01	<0.01
BH125(25-28)	<0.01	<0.01	<0.01	<0.03	0.21	<0.1	<0.01	<0.01	<0.01
BH125(53-58)	<0.01	1.7	<0.01	<0.03	0.4	<0.1	<0.01	0.015	<0.01

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Metals (mg/kg)
Machine Storage Area

SAMPLE-ID	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	CYANIDE	IRON	LEAD	MAGNESIUM
BH104(0-0.5)	10,700	<0.5	7	200	0.6	2.1	98,000	66	6.5	160	11	24,500	82	15,600
BH105(0-2)	N/A	<0.5	2.8	79	<1	0.52	N/A	30	<10	52	1.1	N/A	23	N/A
BH105(4-10)	N/A	<0.5	6.5	220	<1	0.67	N/A	25	<10	110	5.5	N/A	140	N/A
BH105(18-22)	N/A	<0.5	3	110	<1	<0.05	N/A	29	<10	30	0.47	N/A	9.7	N/A
BH105(28-38)	N/A	<0.5	1.4	66	<1	<0.05	N/A	5.1	<10	8.8	<0.1	N/A	4.2	N/A
BH105(50-54)	N/A	<0.5	2.1	85	<1	0.18	N/A	11	<10	14	<0.1	N/A	4.4	N/A
BH109(0-0.5)	4,500	<0.5	7.4	170	<1	2.1	55,000	110	<10	710	13	40,000	120	7,800
BH109(6-8)	4,100	0.88	22	130	<1	2	23,000	600	20	880	6.3	180,000	120	5,200
BH109(20-22)	4,600	<0.5	15	93	<1	0.11	58,000	66	<10	110	<0.1	35,000	18	15,000
BH109(22-26)	960	<0.5	1.9	38	<1	<0.05	11,000	4.4	<10	5.6	<0.1	2,900	<2	3,400
BH109(57-62)	7,800	<0.5	3.6	75	<1	0.06	77,000	14	<10	15	<0.1	12,000	9.7	32,000
BH118(0-0.5)	5,030	<0.5	2.7	75	0.33	4.8	69,500	30	3.7	62	4.9	12,200	44	9,910
BH118(10-14)	6,980	<0.5	2.6	89	0.33	2.6	54,300	22	4.9	32	25	15,800	16	19,700
BH118(14-18)	4,880	<0.5	12	71	0.28	3.2	53,600	14	5.4	14	22	12,900	11	15,300
BH118(22-26)	1,100	<0.5	1.1	5	0.07	<0.05	3,500	<2.5	1.3	<1	0.5	1,800	<1	1,800
BH118(49-54)	8,490	<0.5	2.2	39	0.38	2.9	77,900	12	5.4	11	<0.1	11,100	6	34,000
BH121(0-0.5)	6,410	<0.5	3	33	0.27	0.57	55,800	12	3.5	13	<0.1	7,970	9	18,400
BH125(0-2)	600	<0.5	5.2	54	<1	0.86	1,700	97	<10	85	0.21	37,000	26	<1000
BH125(6-8)	1,900	4.1	45	140	<1	0.89	4,700	1400	45	720	220	350,000	250	1,200
BH125(14-18)	4,700	<0.5	8.4	140	<1	0.25	41,000	21	<10	18	0.4	14,000	9.1	15,000
BH125(25-28)	930	<0.5	1.7	27	<1	<0.05	<1000	<2.5	<10	1.2	<0.1	1,800	<1	<1000
BH125(53-58)	8,000	0.56	4.3	77	<1	0.1	78,000	15	<10	16	<0.1	14,000	11	31,000

N/A - Not Analyzed for Element

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Metals (mg/kg)
Machine Storage Area

SAMPLE-ID	MANGANESE	MERCURY	NICKEL	POTASSIUM	SILVER	SODIUM	TIN	VANADIUM	ZINC
BH104(0-0.5)	450	0.9	110	1,700	0.8	450	N/A	19	1,700
BH105(0-2)	N/A	0.29	52	N/A	<0.5	N/A	20	<10	800
BH105(4-10)	N/A	0.25	26	N/A	<0.5	N/A	29	19	390
BH105(18-22)	N/A	<0.1	23	N/A	<0.5	N/A	28	12	170
BH105(28-38)	N/A	<0.1	7.2	N/A	<0.5	N/A	22	<10	49
BH105(50-54)	N/A	<0.1	13	N/A	<0.5	N/A	36	16	48
BH109(0-0.5)	440	1.6	290	<1000	1.9	<1000	N/A	20	3,200
BH109(6-8)	1,300	0.78	1,100	<1000	2.4	<1000	N/A	40	21,000
BH109(20-22)	510	<0.1	140	<1000	<0.5	<1000	N/A	17	2,100
BH109(22-26)	49	<0.1	5.1	<1000	<0.5	<1000	N/A	<10	52
BH109(57-62)	220	<0.1	15	1,700	<0.5	<1000	N/A	22	39
BH118(0-0.5)	230	0.5	32	1,200	<0.5	250	N/A	15	760
BH118(10-14)	230	<0.1	20	1,600	<0.556	300	N/A	20	430
BH118(14-18)	270	<0.1	14	880	<0.5	990	N/A	15	110
BH118(22-26)	21	<0.1	2	160	<0.5	160	N/A	4.2	6
BH118(49-54)	230	<0.1	14	1,900	<0.5	620	N/A	21	25
BH121(0-0.5)	180	<0.1	13	1,300	<0.5	170	N/A	12	35
BH125(0-2)	310	<0.1	64	<1000	0.61	<1000	N/A	<10	740
BH125(6-8)	3,600	1.9	870	<1000	2.4	<1000	N/A	96	4,500
BH125(14-18)	280	<0.1	17	<1000	<0.5	<1000	N/A	15	210
BH125(25-28)	15	<0.1	1.8	<1000	<0.5	<1000	N/A	<10	18
BH125(53-58)	250	<0.1	16	1,500	<0.5	<1000	N/A	22	48

N/A - Not Analyzed for Element

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Dioxin/Furans - Method 161(ppt)

Machine Storage Area

SAMPLE-ID	1234678 HpCDD	1234678 HpCDF	123478 HxCDF	1234789 HpCDF	123678 HxCDD	123678 HxCDF	12378 PeCDF	123789 HxCDD	234678 HxCDF	23478 PeCDF	2378 TCDD	2378 TCDF
BH105(0-2)	<0.757	<0.292	<0.286	<0.536	<0.36	<0.222	<0.269	<0.456	<0.252	<0.295	<1.659	<0.21
BH105(4-10)	99.56	1983.0698	54.3626	<3.217	15.1972	15.6287	9.922	6.4875	19.8144	20.5323	<1.303	59.2388
BH105(18-22)	46.2612	1971.1309	15.5134	9.572	4.9223	4.5108	3.2561	1.4356	8.6302	4.1053	<1.053	6.1146
BH105(28-38)	3.9604	25.4291	<0.636	<1.116	<0.769	<0.483	<0.519	<0.969	<0.598	<0.513	1.0386	<0.428
BH105(50-54)	3.1581	<0.785	<0.886	<1.453	<1.047	<0.683	<0.77	<1.34	<0.819	<0.728	<0.837	<0.641

SAMPLE-ID	OCDD	OCDF	TOTAL HpCDD	TOTAL HpCDF	TOTAL HxCDD	TOTAL HxCDF	TOTAL PeCDD	TOTAL PeCDF	TOTAL TCDD	TOTAL TCDF
BH105(0-2)	37.0542	<1.076	1.8324	<0.386	<0.443	<0.268	<4.42	<0.282	<0.247	<0.21
BH105(4-10)	195.7651	1076.3201	202.7931	4180.1969	122.8602	1024.5025	3.1756	229.7951	5.7777	220.1577
BH105(18-22)	114.1233	1081.086	71.1539	4005.5613	29.3812	894.4212	1.2752	58.3192	<1.053	26.9004
BH105(28-38)	46.7758	12.6666	8.2918	52.3219	5.2774	11.1421	1.255	<0.516	2.429	<0.428
BH105(50-54)	46.8848	<2.459	3.1581	<1.041	5.7368	<0.836	1.9871	<0.749	1.2231	<0.641

GM Powertrain - Bay City Plant

Groundwater Analytical Results

for Detected PCBs - Method 8080(ug/l)

Machine Storage Area

SHALLOW WELLS	Aroclor 1248			
Sample Round	Aug. 93	Aug. 93(F)	Mar. 94	Mar. 94(F)
LMW13S	6.8	0.3	1.6	<0.1
LMW14S	14	N/A	<0.1	<0.1
LMW17S	1.2	N/A	<0.1	<0.1
LMW18S	<0.1	N/A	<0.1	<0.1
LMW19S	0.2	N/A	<0.1	<0.1
LMW22S	<0.1	N/A	<0.1	<0.1
LMW23S	0.2	N/A	<0.1	<0.1
MSA4S	4.4	<0.1	<0.1	<0.1
MSA5S	18	N/A	<0.1	<0.1
MW100S	N/A	N/A	<0.1	N/A
MW101S	8.1	0.2	0.7	<0.1
MW102S	12	N/A	0.4	0.4
MW103S	<0.1	N/A	<0.1	<0.1
MW1S	<0.1	N/A	<0.1	<0.1
DEEP WELLS	**Aroclor 1248**			
Sample Round	Aug. 93	Aug. 93(F)	Mar. 94	Mar. 94(F)
DB2D	<0.1	N/A	<0.1	<0.1
LMW15D	3.9	N/A	<0.1	<0.1
LMW16D	1	N/A	<0.1	<0.1
LMW20D	1.4	N/A	<0.1	<0.1
LMW21D	<0.1	N/A	<0.1	<0.1
LMW24D	0.9	N/A	<0.1	<0.1
MW100D	N/A	N/A	<0.1	N/A
MW102D1	2.1	N/A	<0.1	<0.1
MW102D2	2.4	N/A	<0.1	<0.1
MW102D3	1	N/A	<0.1	<0.1
MW102D4	0.2	N/A	<0.1	<0.1
MW103D	<0.1	N/A	<0.1	<0.1

(F) - Filtered Sample

N/A - Not Analyzed or not Sampled for Compound

GM Powertrain - Bay City Facility

Groundwater Analytical Results for Detected Semivolatile Organic Compounds

Method 8270(ug/l)

Machine Storage Area

SHALLOW WELLS	2,4-DIMETHYL PHENOL		2,6-DINITRO TOLUENE		2-METHYL NAPTHALENE		2-METHYL PHENOL		4-BROMOPHENYL PHENYL-ETHER		4-METHYL PHENOL		ACENAPHTHENE		ANTHRACENE		BENZO(A) ANTHRACENE		BENZO(A) PYRENE		BENZO(B) FLUORANTHENE	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
LMW13S	<5	<5	<5	<5	<10	<10	<10	<10	<5	<5	<10	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
LMW14S	<5	<5	<5	<5	<10	<10	<10	<10	<5	<5	<10	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
LMW17S	<5	<10	<10	<5	<10	<10	<10	<10	<5	<5	<10	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
LMW18S	360	<50	<25	<10	1600	160	<25	13	<25	740	<25	N/A	440	260	29	14	<25	<10	<25	<10	<25	<10
LMW19S	14	<5	150	<5	400	120	<13	<10	<13	<5	<13	N/A	86	57	<13	20	<13	8	<13	<5	<13	<5
LMW22S	7	8	<5	<5	3	3	<10	<10	<5	<5	<10	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
LMW23S	<5	<5	<5	<5	<10	<10	<10	<10	<5	<5	<10	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MSA4S	<5	<5	<5	<5	<10	<10	<10	<10	<5	<5	<10	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MSA5S	<5	<5	<5	<5	<10	<10	<10	<10	<5	<5	<10	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW100S	N/A	<5	N/A	<5	N/A	<10	N/A	<10	N/A	<5	N/A	<10	N/A	<5	N/A	<5	N/A	<5	N/A	<5	N/A	<5
MW101S	<5	<5	<5	<5	<10	<10	<10	<10	<5	<5	<10	N/A	<5	<5	<5	<5	3	<5	<5	<5	<5	<5
MW102S	110	170	<5	<5	<10	<10	15	16	<5	<5	43	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW103S	<6	<5	79	<5	14	<10	<10	<10	<6	<5	<10	N/A	7	<5	7	<5	12	<5	10	<5	8	<5
MW1S	<5	<5	<5	<5	3	<10	<10	<10	<5	<5	<10	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

DEEP WELLS	2,4-DIMETHYL PHENOL		2,6-DINITRO TOLUENE		2-METHYL NAPTHALENE		2-METHYL PHENOL		4-BROMOPHENYL PHENYL-ETHER		4-METHYL PHENOL		ACENAPHTHENE		ANTHRACENE		BENZO(A) ANTHRACENE		BENZO(A) PYRENE		BENZO(B) FLUORANTHENE	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
DB2D	<5	<5	<5	<5	<10	<10	<10	<10	<5	<5	<10	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
LMW15D	<5	<5	<5	<5	<10	<10	<10	<10	<5	<5	<10	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
LMW16D	<25	<5	<50	<5	<25	<10	<25	<10	<25	<5	<25	N/A	<25	<5	<25	<5	<25	<5	<25	<5	<25	<5
LMW20D	<5	<5	<5	<5	5	8	<10	<10	<5	<5	<10	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
LMW21D	<5	<5	<5	<5	<10	<10	<10	<10	<5	<5	<10	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
LMW24D	<5	<50	<10	<10	430	520	<10	<10	<5	<10	<10	N/A	280	390	54	73	10	13	<5	<10	<5	<10
MW100D	N/A	<5	N/A	<5	N/A	<10	N/A	<10	N/A	<5	N/A	<10	N/A	<5	N/A	<5	N/A	<5	N/A	<5	N/A	<5
MW102D1	<5	<5	<5	<5	<10	<10	<10	<10	<5	<5	3	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW102D2	<5	<5	<5	<5	<10	<10	<10	<10	<5	<5	<10	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW102D3	<5	<5	31	<5	<10	<10	<10	<10	<5	<5	<10	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW102D4	<5	<5	<5	<5	<10	<10	<10	<10	<5	<5	<10	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW103D	<5	<5	<5	<5	<10	<10	<10	<10	<5	<5	<10	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

N/A - Not Analyzed or not Sampled for Compound

NE - Criteria not Established

GM Powertrain - Bay City Facility

Groundwater Analytical Results for Detected Semivolatile Organic Compounds

Method 8270(ug/l)

Machine Storage Area

SHALLOW WELLS	BENZO(K) FLUORANTHENE		BIS(2-CHLORO--ETHYL)ETHER		BIS(2-ETHYLHEX) PHTHALATE		BUTYL BENZYL PHTHALATE		CARBAZOLE		CHRYSENE		DI-N-BUTYL PTHALATE		DI-N-OCTYL PHTHALATE		DIBENZOFURAN		DIETHYL PHTHALATE		DIMETHYL PHTHALATE	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
LMW13S	<5	<5	<5	<5	<5	46	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	2	<5	<5
LMW14S	<5	<5	<5	<5	<5	4	<5	<5	<10	<10	<5	<5	<5	<5	<5	2	<5	<5	<5	<5	<5	<5
LMW17S	<5	<5	<5	<5	700	100	<5	<5	<10	<10	<5	<5	<5	<5	150	<5	<5	<5	<5	<5	<5	<5
LMW18S	<25	<10	<25	<10	<25	14	<25	<10	300	220	<25	<10	<25	<10	<25	<10	320	180	<25	<10	<25	<10
LMW19S	<13	<5	<13	<5	<13	74	<13	<5	39	29	<13	<5	<13	<5	<13	<5	46	59	<13	<5	<13	<5
LMW22S	<5	<5	<5	<5	<5	4	<5	<5	<10	<10	<5	<5	<5	2	<5	<5	<5	<5	<5	26	<5	<5
LMW23S	<5	<5	<5	<5	<5	2	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MSA4S	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MSA5S	<5	<5	<5	<5	4	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW100S	N/A	<5	N/A	<5	N/A	<5	N/A	<5	N/A	N/A	N/A	<5	N/A	<5	N/A	<5	N/A	<5	N/A	<5	N/A	<5
MW101S	<5	<5	<5	<5	20	28	<5	<5	<10	2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW102S	<5	<5	120	<5	<5	<5	<5	<5	<10	<6	<5	<5	<5	5	<5	<5	<5	<10	3	5	30	<5
MW103S	8	<5	<6	<5	<6	<5	<6	<5	7	<10	14	<5	<6	<5	<6	<5	<6	<5	<6	<5	79	<5
MW1S	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

DEEP WELLS	BENZO(K) FLUORANTHENE		BIS(2-CHLORO--ETHYL)ETHER		BIS(2-ETHYLHEX) PHTHALATE		BUTYL BENZYL PHTHALATE		CARBAZOLE		CHRYSENE		DI-N-BUTYL PTHALATE		DI-N-OCTYL PHTHALATE		DIBENZOFURAN		DIETHYL PHTHALATE		DIMETHYL PHTHALATE	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
DB2D	<5	<5	<5	<5	<5	2	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
LMW15D	<5	<5	<5	<5	250	7	<5	<5	<10	<10	<5	<5	<5	1	<5	<5	<5	<5	<5	<5	<5	<5
LMW16D	<25	<5	<25	<5	1200	2	420	<5	<25	<10	<25	<5	<25	<5	1400	<5	<25	<5	<25	2	<25	<5
LMW20D	<5	<5	<5	<5	6	52	<5	<5	<10	<10	<5	<5	<5	3	<5	<5	<5	<5	<5	<5	<5	<5
LMW21D	<5	<5	<5	<5	<5	5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
LMW24D	<5	<10	<5	<10	27	72	<5	<10	69	72	11	13	<5	<10	<5	<10	210	270	<5	<10	<5	<10
MW100D	N/A	<5	N/A	<5	N/A	<5	N/A	<5	N/A	N/A	N/A	<5	N/A	<5	N/A	<5	N/A	<5	N/A	<5	N/A	<5
MW102D1	<5	<5	<5	<5	13	30	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	3	<5	<5	<5
MW102D2	<5	<5	<5	<5	17	2	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW102D3	<5	<5	<5	<5	270	7	28	<5	<10	<10	<5	<5	<5	<5	260	<5	<5	<5	<5	<5	31	<5
MW102D4	<5	<5	<5	<5	12	3	<5	<5	<10	<10	<5	<5	<5	1	<5	<5	<5	<5	<5	<5	<5	<5
MW103D	<5	<5	<5	<5	9	<5	<5	<5	<10	<10	<5	<5	9	<5	<5	<5	<5	<5	<5	<5	<5	<5

N/A - Not Analyzed or not Sampled for Compound

NE - Criteria not Established

GM Powertrain - Bay City Facility

Groundwater Analytical Results for Detected Semivolatile Organic Compounds

Method 8270(ug/l)

Machine Storage Area

SHALLOW WELLS	FLUORANTHENE		FLUORENE		N-NITROSO-DIPHENYLAMINE		NAPHTHALENE		PHENANTHRENE		PYRENE	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
LMW13S	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
LMW14S	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
LMW17S	<5	<5	<5	<5	<5	<5	15	<5	<5	3	<5	4
LMW18S	<25	11	210	120	<25	<10	<25	890	230	110	<25	<10
LMW19S	<13	36	27	93	<13	<5	2600	49	<13	64	<13	33
LMW22S	<5	<5	<5	<5	<5	<5	7	2	<5	<5	<5	<5
LMW23S	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MSA4S	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MSA5S	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW100S	N/A	<5	N/A	<5	N/A	<10	N/A	<5	N/A	<5	N/A	<5
MW101S	9	<5	<5	<5	<5	<5	<5	1	6	<5	9	<5
MW102S	<5	<5	<5	<5	16	16	14	18	<5	<5	<5	<5
MW103S	28	<5	<6	<5	<6	<5	70	<5	30	<5	27	<5
MW1S	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

DEEP WELLS	FLUORANTHENE		FLUORENE		N-NITROSO-DIPHENYLAMINE		NAPHTHALENE		PHENANTHRENE		PYRENE	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
DB2D	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
LMW15D	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
LMW16D	<25	<5	<25	<5	<25	<5	<25	<5	<25	<5	<25	<5
LMW20D	<5	<5	<5	<5	<5	<5	3	2	<5	<5	<5	<5
LMW21D	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
LMW24D	56	110	190	260	<5	<10	510	650	310	460	55	76
MW100D	N/A	<5	N/A	<5	N/A	<10	N/A	<5	N/A	<5	N/A	<5
MW102D1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW102D2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW102D3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW102D4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW103D	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

N/A - Not Analyzed or not Sampled for Compound

NE - Criteria not Established

GM Powertrain - Bay City Plant

Groundwater Analytical Results for Cyanide (ug/l)

Lagoon Area

SHALLOW WELLS	CYANIDE	
Sample Round	Aug. 93	Mar. 94
LMW1S	<5	<5
LMW2S	<5	N/A
MW3S	<5	N/A
LMW5S	<5	N/A
LMW6S	<5	N/A
LMW7S	<5	N/A
LMW8S	<5	N/A
LMW11S	<5	<5
LMW12S	<5	N/A
MW16S	<5	N/A
MW201S	<5	N/A
DEEP WELLS	**CYANIDE**	
Sample Round	Aug. 93	Mar. 94
LMW3D	<5	<5
LMW4D	<5	N/A
LMW9D	<5	N/A
LMW10D	<5	N/A
MW201D1	<5	N/A
MW201D2	<5	6
MW201D3	<5	N/A
MW201D4	<5	N/A
MW5S	N/A	<5
MW201S	N/A	<5
MW200D	N/A	<5

N/A - Not Analyzed or not Sampled for Cyanide

GM Powertrain - Bay City Facility

Groundwater Analytical Results for Detected Metals (ug/l)

Machine Storage Area

SHALLOW WELLS	ALUMINUM		ANTIMONY		ARSENIC		BARIUM		CALCIUM		COBALT		IRON		LEAD	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
LMW13S	330	N/A	<5	N/A	7	N/A	<200	N/A	30,000	N/A	<4	N/A	400	N/A	<3	N/A
MSA4S	130	<400	<5	<5	14	10	<200	<200	200,000	220,000	<4	<4	9,600	22,000	<3	<3
MSA5S	200	<300	<5	<5	<1	<1	<200	<200	84,000	92,000	<4	<4	11,000	22,000	<3	<3
MW100S	N/A	N/A	N/A	<5	N/A	<1	N/A	<200	N/A	N/A	N/A	<50	N/A	N/A	N/A	<3
MW101S	110	<300	<5	<5	3	2	400	200	140,000	66,000	<4	<20	10,000	21,000	<3	<3
MW102S	<40	<300	6	<5	2	2	700	1,000	77,000	69,000	11	10	22,000	29,000	5	<3
MW103S	230	<300	<5	<5	3	3	2,600	3,100	140,000	120,000	<4	<4	3,100	26,000	<3	<3
DEEP WELLS	**ALUMINUM**		**ANTIMONY**		**ARSENIC**		**BARIUM**		**CALCIUM**		**COBALT**		**IRON**		**LEAD**	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
MW100D	N/A	N/A	N/A	<5	N/A	5	N/A	850	N/A	N/A	N/A	<50	N/A	N/A	N/A	<3
MW102D1	120	<300	<5	<5	15	25	<200	200	130,000	200,000	<4	<4	5,300	26,000	<3	<3
MW102D2	80	<300	<5	<5	28	29	400	500	200,000	200,000	<4	<4	20,000	29,000	<3	<3
MW102D3	80	<300	<5	<5	30	37	600	700	240,000	250,000	<4	<4	19,000	26,000	<3	<3
MW102D4	<40	<300	<5	<5	46	31	1,300	1,500	540,000	560,000	<4	<4	25,000	27,000	<3	<3
MW103D	100	<400	<5	<5	29	56	400	400	280,000	280,000	<4	<4	16,000	25,000	<3	<3

SHALLOW WELLS	MAGNESIUM		MANGANESE		NICKEL		POTASSIUM		SODIUM		VANADIUM		ZINC	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
LMW13S	3,600	N/A	<20	N/A	100	N/A	49,000	N/A	73,000	N/A	<8	N/A	80	N/A
MSA4S	22,000	25,000	840	1,100	<50	<50	9,000	8,000	130,000	120,000	<8	<20	<20	<20
MSA5S	11,000	9,700	260	280	<50	<50	4,000	3,000	13,000	11,000	<8	<20	40	40
MW100S	N/A	N/A	N/A	N/A	N/A	<50	N/A	N/A	N/A	N/A	N/A	<50	N/A	<20
MW101S	46,000	25,000	1,400	240	60	<50	29,000	24,000	230,000	86,000	<8	<20	30	<20
MW102S	62,000	59,000	360	140	210	230	84,000	96,000	770,000	910,000	15	<20	80	30
MW103S	52,000	48,000	480	450	<50	450	42,000	41,000	330,000	300,000	<8	<20	60	<20
DEEP WELLS	**MAGNESIUM**		**MANGANESE**		**NICKEL**		**POTASSIUM**		**SODIUM**		**VANADIUM**		**ZINC**	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
MW100D	N/A	N/A	N/A	N/A	N/A	170	N/A	N/A	N/A	N/A	N/A	<50	N/A	<20
MW102D1	24,000	40,000	600	1,200	<50	<50	18,000	5,000	48,000	52,000	<8	<20	<20	<20
MW102D2	42,000	41,000	860	860	<50	<50	7,000	2,000	67,000	140,000	<8	<20	140	50
MW102D3	54,000	60,000	380	400	<50	<50	3,000	2,000	310,000	410,000	<8	<20	<20	<20
MW102D4	180,000	190,000	360	540	<50	<50	10,000	10,000	1,400,000	1,400,000	<8	<20	<20	<20
MW103D	81,000	85,000	300	280	<50	<50	5,000	5,000	250,000	290,000	<8	<20	30	<20

N/A - Not Analyzed or not Sampled for Element

GM Powertrain - Bay City Plant

Groundwater Analytical Results for Cyanide (ug/l)

Machine Storage Area

SHALLOW WELLS	CYANIDE		
Sample Round	Aug. 93	Oct. 93	Mar. 94
LMW13S	<5	8	<5
LMW14S	20	N/A	<5
LMW14S	N/A	N/A	<5
LMW17S	<5	<5	<5
LMW18S	<5	<5	<5
LMW19S	<5	14	<5
LMW22S	<5	100	<5
LMW23S	<5	<5	<5
MSA4S	10	<5	20
MSA5S	<5	N/A	<5
MW101S	<5	N/A	<5
MW102S	90	N/A	<5
MW103S	60	22	17
MW1S	660	N/A	97
DEEP WELLS	**CYANIDE**		
Sample Round	Aug. 93	Oct. 93	Mar. 94
DB2D	<5	<5	<5
LMW15D	<5	<5	<5
LMW16D	<5	<5	<5
LMW20D	38	120	49
LMW21D	<5	31	<5
LMW24D	<5	<5	<5
MW100D	N/A	N/A	<5
MW102D1	10	N/A	6
MW102D2	<5	N/A	<5
MW102D3	<5	<5	<5
MW102D4	<5	N/A	<5
MW103D	<5	<5	<5

N/A - Not Analyzed or not Sampled for Cyanide

GM Powertrain - Bay City Plant

Groundwater Analytical Results

for Detected Dioxin/Furans - Method 161(ppq)

Machine Storage Area

	MW100S		MW100D	
	Aug. 93	Mar. 94	Aug. 93	Mar. 94
1234678-HpCDD	183.8272	125.9588	<5.399	9.3901
1234678-HpCDF	1878.148	1198.9349	<2.361	15.5296
123478-HxCDF	51.3376	38.0509	<2.409	<0.47
1234789-HpCDF	<6.342	13.5433	<4.204	<1.472
123678-HxCDD	32.3638	21.383	<3.246	<1.639
123678-HxCDF	17.3763	13.9718	<1.988	<9.843
12378-PeCDD	<5.927	1.94	<2.911	<1.883
12378-PeCDF	<1.531	6.9758	<2.295	<1.266
234678-HxCDF	<55.869	23.3409	3.1923	3.6724
23478-PeCDF	48.357	27.9958	<2.09	<0.437
2378-TCDF	145.1247	104.5775	2.1169	5.1935
OCDD	505.2666	320.5066	14.613	98.7519
OCDF	1350.3224	758.0886	<7.441	16.5755
TOTAL HpCDD	349.1223	229.4222	<5.399	16.7444
TOTAL HpCDF	4096.5238	2551.5351	<3.076	31.8219
TOTAL HxCDD	201.4674	123.4536	<3.419	2.4596
TOTAL HxCDF	1181.1887	737.4554	3.6279	11.2702
TOTAL PeCDD	4.7907	1.94	<2.911	<1.883
TOTAL PeCDF	310.7903	223.4832	<2.188	1.2517
TOTAL TCDD	7.3768	9.0882	<2.439	1.698
TOTAL TCDF	486.7554	317.5107	2.1169	6.8055

N/A - Not Analyzed or Not Sampled for Compound

Surface Water Analytical Results for Detected PCBs - Method 8080(ppb)

Machine Storage Area

SAMPLE-ID	Aroclor 1248
SW100-01	1.3
SW101-01	12
SW102-01	1.7

Surface Water Analytical Results for Detected VOCs - Method 8260(ppb)

Machine Storage Area

SAMPLE-ID	METHYLENE CHLORIDE
SW100-01	6
SW101-01	<1
SW102-01	<1

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Facility

Surface Water Analytical Results for Detected Metals (ppb)

Machine Storage Area

SAMPLE-ID	ALUMINUM	ANTIMONY	CALCIUM	COPPER	CYANIDE
SW100-01	N/A	<1	N/A	60	10
SW101-01	950	2	92,000	40	N/A
SW102-01	280	3	140,000	40	N/A

SAMPLE-ID	IRON	LEAD	MAGNESIUM	MANGANESE	POTASSIUM
SW100-01	N/A	<3	N/A	N/A	N/A
SW101-01	1,400	9	5,000	30	14,000
SW102-01	400	<3	10,000	<20	25,000

SAMPLE-ID	SODIUM	ZINC
SW100-01	N/A	30
SW101-01	16,000	270
SW102-01	21,000	50

N/A - Not Analyzed for Element

GM Powertrain - Bay City Plant

Surface Water Analytical Results
for Detected Dioxin/Furans - Method 161(ppq)
Machine Storage Area

SAMPLE-ID	SW100-01
1234678-HpCDD	29.1659
1234678-HpCDF	154.5859
123478-HxCDF	13.0424
12378-PeCDF	9.1212
234678-HxCDF	9.4559
23478-PeCDF	19.8731
2378-TCDF	189.0619
OCDD	68.5264
OCDF	84.7141
TOTAL HpCDD	70.7619
TOTAL HpCDF	331.0565
TOTAL HxCDD	37.9615
TOTAL HxCDF	146.1897
TOTAL PeCDF	230.573
TOTAL TCDF	2166.0444

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected PCBs - Method 8080(mg/kg)

Lagoon Area

SAMPLE-ID	Aroclor 1242	Aroclor 1248
BH201(0-0.5)	<0.33	<0.33
BH201(12-14)	<0.33	4.2
BH201(20-22)	<0.33	<0.33
BH201(44-46)	<0.33	<0.33
BH201(52-54)	<0.33	<0.33
BH202(0-0.5)	<0.33	1.7
BH202(12-14)	<0.33	<0.33
BH202(18-20)	<0.33	<0.33
BH202(26-28)	<0.33	<0.33
BH202(54-56)	<0.33	<0.33
BH203(1.5-2)	<0.33	0.63
BH203(12-14)	<0.33	<0.33
BH203(20-22)	<0.33	<0.33
BH203(26-28)	<0.33	<0.33
BH203(54-60)	<0.33	<0.33
BH204(0-0.5)	<0.33	0.62
BH204(10-12)	<0.33	<0.33
BH204(20-22)	<0.33	<0.33
BH204(24-26)	<0.33	<0.33
BH204(54-60)	<0.33	<0.33
BH205(1.5-2)	<0.33	<0.33
BH205(10-12)	<0.33	<0.33
BH205(18-20)	<0.33	<0.33
BH205(40-42)	<0.33	<0.33
BH205(62-66)	<0.33	<0.33
BH206(1.5-2)	<0.33	0.43
BH206(6-8)	<0.33	0.44
BH206(20-22)	<0.33	<0.33
BH206(24-26)	<0.33	<0.33
BH206(66-68)	<0.33	<0.33
BH207(1-1.5)	<0.33	<0.33
BH207(4-6)	<0.33	<0.33
BH207(18-20)	<0.33	<0.33
BH207(25-27)	<0.33	<0.33
BH207(64-66)	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected PCBs - Method 8080(mg/kg)

Lagoon Area

SAMPLE-ID	Aroclor 1242	Aroclor 1248
BH208(0-0.5)	<0.33	<0.33
BH208(18-20)	<0.33	<0.33
BH208(20-22)	<0.33	<0.33
BH208(22-24)	<0.33	<0.33
BH208(62-66)	<0.33	<0.33
BH209(2.5-3)	<0.33	<0.33
BH209(15-17)	<0.33	2.8
BH209(21-23)	<0.33	<0.33
BH209(27-29)	<0.33	<0.33
BH209(67-69)	<0.33	<0.33
BH210(2-4)	<0.33	<0.33
BH210(10-12)	<0.33	<0.33
BH210(20-22)	<0.33	<0.33
BH210(28-30)	<0.33	<0.33
BH210(60-64)	<0.33	<0.33
BH211(2-4)	<0.33	<0.33
BH211(16-18)	<0.33	<0.33
BH211(20-22)	<0.33	<0.33
BH211(28-32)	<0.33	<0.33
BH211(60-64)	<0.33	<0.33
BH212(0-0.5)	<0.33	0.99
BH212(14-16)	<0.33	<0.33
BH212(18-22)	<0.33	<0.33
BH212(26-28)	<0.33	<0.33
BH212(56-58)	<0.33	<0.33
BH213(0-0.5)	<0.33	<0.33
BH213(10-12)	<0.33	0.5
BH213(14-18)	<0.33	<0.33
BH213(26-28)	<0.33	<0.33
BH213(54-56)	<0.33	<0.33
BH214(0-0.5)	<0.33	<0.33
BH214(6-8)	<0.33	<0.33
BH214(12-14)	<0.33	<0.33
BH214(24-26)	<0.33	<0.33
BH214(52-54)	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected PCBs - Method 8080(mg/kg)

Lagoon Area

SAMPLE-ID	Aroclor 1242	Aroclor 1248
BH215(1.5-2)	<6.7	55
BH215(10-12)	<0.67	6
BH215(16-18)	<0.33	<0.33
BH215(24.5-26)	<0.33	<0.33
BH215(53-58)	<0.33	<0.33
BH216(1.5-2)	<0.33	2.4
BH216(12-14)	<170	4200
BH216(20-22)	<0.33	47
BH216(26-29)	<0.33	2.2
BH216(55-58)	<0.33	<0.33
BH217(1.5-2)	<0.33	1.3
BH217(12-14)	<0.33	<0.33
BH217(20-22)	<0.33	<0.33
BH217(28-30)	<0.33	<0.33
BH217(55-60)	<0.33	<0.33
BH218(0.5-1)	<0.33	0.42
BH218(12-14)	<0.33	<0.33
BH218(18-20)	<0.33	<0.33
BH218(24.5-26)	<0.33	<0.33
BH218(59-64)	<0.33	<0.33
BH219(1-1.5)	<0.33	0.44
BH219(12-14)	<0.33	<0.33
BH219(16-20)	<0.33	<0.33
BH219(24-26)	<0.33	<0.33
BH219(61-66)	<0.33	<0.33
BH220(1.5-2)	<0.33	0.79
BH220(4-6)	<0.33	0.64
BH220(16-20)	<0.33	<0.33
BH220(24-26)	<0.33	<0.33
BH220(62.5-68)	<0.33	<0.33
BH221(1-1.5)	<0.33	2.4
BH221(6-8)	<0.33	0.56
BH221(18-20)	<0.33	<0.33
BH221(36-40)	<33	390
BH221(50.5-56)	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected PCBs - Method 8080(mg/kg)

Lagoon Area

SAMPLE-ID	Aroclor 1242	Aroclor 1248
BH222(1-1.5)	<3.3	24
BH222(4-6)	<0.33	0.9
BH222(18-20)	<0.33	<0.33
BH222(24-26)	<0.33	<0.33
BH222(49-54)	<0.33	<0.33
BH223(0-0.5)	<0.33	4.3
BH223(12-15)	<0.33	<0.33
BH223(15-20)	<0.33	<0.33
BH223(26-28)	<0.33	<0.33
BH223(51-54)	<0.33	<0.33
BH224(1-1.5)	<0.33	51
BH224(14-16)	7.3	<0.33
BH224(18-20)	<0.33	<0.33
BH224(24-28)	<0.33	<0.33
BH224(48-50)	<0.33	<0.33
BH225(0.5-1)	<0.33	16
BH225(12-14)	<0.33	51
BH225(18-20)	<0.33	<0.33
BH225(38-40)	<0.33	<0.33
BH225(48-54)	<0.33	<0.33
BH226(0-0.5)	<0.66	3.3
BH226(12-14)	<0.33	<0.33
BH226(19.5-20.5)	<0.33	<0.33
BH226(24-26)	<0.33	<0.33
BH226(44-46)	<0.33	<0.33
BH227(2-2.5)	<0.33	<0.33
BH227(4-6)	<0.33	2.3
BH227(22-24)	<0.33	<0.33
BH227(24-28)	<0.33	<0.33
BH227(53-58)	<0.33	<0.33
BH228(0.5-1)	<1.7	16
BH228(8-10.5)	<1.7	<1.7
BH228(11-14)	<1.7	<1.7
BH228(44-54)	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected PCBs - Method 8080(mg/kg)

Lagoon Area

SAMPLE-ID	Aroclor 1242	Aroclor 1248
BH229(1-1.5)	<1.7	10
BH229(6-10)	<0.33	2.4
BH229(18-20)	<0.33	<0.33
BH229(24-28)	<0.33	0.44
BH229(48-52)	<0.33	<0.33
BH232(0-2)	<0.33	2.4
BH232(2-4)	<0.66	3.7
BH232(6-10)	<0.33	<0.33
BH232(15.5-18)	<0.33	<0.33
BH232(45-50)	<0.33	<0.33
BH235(0-2)	<0.33	<0.33
BH235(2-4)	<0.33	<0.33
BH235(10-12)	<0.33	<0.33
BH235(12-16)	<0.33	<0.33
BH235(53-59)	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Semivolatile Organic Compounds - Method 8270(mg/kg)

Lagoon Area

SAMPLE-NE	BENZO(A) ANTHRACENE	BENZO(A) PYRENE	BENZO(B) FLUORANTHENE	BENZO(K) FLUORANTHENE	BIS(2-ETHYLHEX) PHTHALATE	CHRYSENE	2,4-DIMETHYL PHENOL	FLUORANTHENE	INDENO(1,2,3-CD)PYRENE	2-METHYL NAPTHALENE	4-METHYL PHENOL	PHENANTHRENE	PYRENE
BH206(1.5-2)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH206(6-8)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.41	<0.33
BH206(20-22)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH206(24-26)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH206(66-68)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH216(1.5-2)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH216(12-14)	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	3.4	<1.3	<1.3	1.4	4.9	<1.3	<1.3
BH216(20-22)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH216(26-29)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH216(55-58)	<0.33	<0.33	<0.33	<0.33	0.46	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH223(0-0.5)	<0.33	<0.33	<0.33	<0.33	0.15	<0.33	<0.33	0.19	<0.33	<0.33	<0.33	<0.33	0.17
BH223(12-15)	0.37	0.37	<0.33	0.29	0.36	0.44	<0.33	0.98	0.23	<0.33	<0.33	0.61	0.75
BH223(15-20)	<0.33	<0.33	<0.33	<0.33	1.7	<0.33	<0.33	0.14	<0.33	<0.33	<0.33	0.11	0.13
BH223(26-28)	<0.33	<0.33	<0.33	<0.33	0.12	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH223(51-54)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH226(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.37	<0.33	<0.33	<0.33	<0.33	<0.33
BH226(12-14)	<0.33	<0.33	<0.33	<0.33	1.7	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH228(0.5-1)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH228(8-10.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.37
BH228(11-14)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH228(44-54)	<0.33	<0.33	<0.33	<0.33	0.4	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH232(0-2)	0.75	<0.33	0.58	<0.33	1.4	0.4	<0.33	0.47	<0.33	<0.33	<0.33	0.78	0.8
BH232(2-4)	1.4	0.82	<0.33	1.1	1.9	0.8	<0.33	1.8	0.48	<0.33	<0.33	1.6	1.4
BH232(6-10)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH232(15.5-18)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH232(45-50)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH235(0-2)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH235(2-4)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH235(10-12)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH235(12-16)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH235(53-59)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Volatile Organic Compounds - Methods 8260/8240(mg/kg)

Lagoon Area

SAMPLE-ID	ACETONE	1,2-DCE	METHYLENE CHLORIDE	1,1,1-TCA	TCE
BH206(1.5-2)	<0.1	<0.01	<0.01	<0.01	<0.01
BH206(6-8)	<0.1	<0.01	<0.01	<0.01	<0.01
BH206(20-22)	<0.1	<0.01	<0.01	<0.01	<0.01
BH206(24-26)	<0.1	<0.01	<0.01	<0.01	<0.01
BH206(66-68)	<0.1	<0.01	<0.01	<0.01	<0.01
BH216(1.5-2)	<0.1	0.022	<0.01	<0.01	<0.01
BH216(12-14)	<120	220	<12	<12	14
BH216(20-22)	<25	12	<2.5	<2.5	40
BH216(26-29)	<0.1	0.022	<0.01	<0.01	0.028
BH216(55-58)	0.22	0.088	<0.01	<0.01	0.041
BH223(0-0.5)	<0.1	<0.01	<0.01	<0.01	<0.01
BH223(12-15)	<0.1	<0.01	<0.01	<0.01	<0.01
BH223(15-20)	<0.1	<0.01	<0.01	<0.01	<0.01
BH223(26-28)	<0.1	<0.01	<0.01	<0.01	<0.01
BH223(51-54)	<0.1	<0.01	<0.01	0.025	<0.01
BH226(0-0.5)	<0.1	<0.01	<0.01	<0.01	<0.01
BH226(12-14)	6.3	<0.01	<0.01	<0.01	<0.01
BH228(0.5-1)	<0.1	<0.01	<0.01	<0.01	<0.01
BH228(8-10.5)	<0.1	<0.01	<0.01	<0.01	<0.01
BH228(11-14)	<0.1	<0.01	<0.01	<0.01	<0.01
BH228(44-54)	<0.1	<0.01	<0.01	<0.01	<0.01
BH232(0-2)	0.29	<0.01	0.02	<0.01	<0.01
BH232(2-4)	0.13	<0.01	0.023	<0.01	<0.01
BH232(6-10)	0.18	<0.01	0.022	<0.01	<0.01
BH232(15.5-18)	0.44	<0.01	0.015	<0.01	<0.01
BH232(45-50)	<0.1	<0.01	0.02	<0.01	<0.01
BH235(0-2)	0.23	<0.01	<0.01	<0.01	<0.01
BH235(2-4)	<0.1	<0.01	<0.01	<0.01	<0.01
BH235(10-12)	<0.1	<0.01	<0.01	<0.01	<0.01
BH235(12-16)	<0.1	<0.01	<0.01	<0.01	<0.01
BH235(53-59)	<0.1	<0.01	<0.01	<0.01	<0.01

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Metals (mg/kg)
Lagoon Area

AMPLE-ID	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	CYANIDE	IRON	LEAD	MAGNESIUM
BH206(1.5-2)	3,900	<0.5	4	27	0.18	0.1	14,900	2.4	2.4	8.7	<0.1	5,500	8	8,600
BH206(6-8)	2,600	<0.5	2.4	76	<0.05	0.2	16,500	14	3	30	<0.1	7,800	13	5,500
BH206(20-22)	5,900	<0.5	17	54	<0.5	0.15	55,000	9.8	5.5	4.5	<0.1	12,100	3	17,500
BH206(24-26)	1,100	<0.5	0.9	8	0.3	1.9	28,400	<2.5	1.2	1.5	<0.1	2,600	<1	5,100
BH206(66-68)	9,700	1.5	1.6	51	0.36	2.8	89,000	14	4.9	12	<0.1	12,600	3	34,800
BH216(1.5-2)	N/A	0.66	3.7	78	<1	0.2	N/A	17	<10	14	<0.1	N/A	8.3	N/A
BH216(12-14)	N/A	<0.5	8.8	77	<1	0.1	N/A	11	<10	15	<0.1	N/A	33	N/A
BH216(20-22)	N/A	0.88	7	78	<1	0.25	N/A	12	<10	8.3	<0.1	N/A	4.8	N/A
BH216(26-29)	N/A	<0.5	3.2	50	<1	<0.05	N/A	4.7	<10	3.6	<0.1	N/A	N/A	N/A
BH216(55-58)	N/A	0.63	3.1	76	<1	0.09	N/A	14	<10	15	<0.1	N/A	5	N/A
BH223(0-0.5)	3,500	<0.5	3	24	0.19	8	12,300	9.3	2	11	<0.1	5,340	10	7,230
BH223(12-15)	1,300	<0.5	1.1	8	0.08	0.18	10,000	2.7	1.5	2	<0.1	2,930	4	3,550
BH223(15-20)	6,580	<0.5	5.4	59	0.3	4	70,400	8.6	5	6	<0.1	12,500	6	20,600
BH223(26-28)	2,720	<0.5	4.8	20	0.1	<0.05	7,900	3.3	1	3	<0.1	3,890	2	1,900
BH223(51-54)	9,540	<0.5	3	41	0.38	2	68,100	13	6	11	<0.1	12,400	6	29,300
BH226(0-0.5)	1,300	<0.5	3.9	54	<1	0.29	84,000	17	<10	34	<0.1	10,000	50	9,800
BH226(12-14)	550	<0.5	2.3	43	<1	0.06	11,000	2.9	<10	1.8	<0.1	2,400	3.9	2,500
BH228(0.5-1)	N/A	<0.5	2.5	92	<1	0.14	N/A	7.9	<10	12	<0.1	N/A	16	N/A
BH228(8-10.5)	N/A	<0.5	3.1	88	<1	0.29	N/A	25	<10	28	0.13	N/A	95	N/A
BH228(11-14)	N/A	<0.5	1.7	70	<1	0.09	N/A	<2.5	<10	<1	<0.1	N/A	1.6	N/A
BH228(44-54)	N/A	<0.5	3.1	100	<1	0.06	N/A	12	<10	15	<0.1	N/A	5.2	N/A
BH232(0-2)	5,600	<0.5	6.6	100	<1	0.19	77,000	4800	<10	3600	3.2	7,500	28	22,000
BH232(2-4)	5,500	<0.5	6	87	<1	0.23	60,000	1100	<10	810	0.14	12,000	16	21,000
BH232(6-10)	5,800	<0.5	7.3	90	<1	0.18	56,000	13	<10	14	9.1	14,000	3	21,000
BH232(15.5-18)	1,600	<0.5	1.6	38	<1	<0.05	<1000	4.5	<10	5.4	0.97	2,400	1.3	1,800
BH232(45-50)	4,900	<0.5	4.1	55	<1	<0.05	82,000	12	<10	11	0.33	8,800	8.1	23,000
BH235(0-2)	4,900	<0.5	6	94	<1	0.55	74,000	720	<10	970	0.22	13,000	14	25,000
BH235(2-4)	3,700	<0.5	4.1	84	<1	0.48	64,000	440	<10	400	1.1	9,500	8.7	23,000
BH235(10-12)	3,200	<0.5	8.7	79	<1	0.15	38,000	8.9	<10	7.6	0.19	9,300	3.2	15,000
BH235(12-16)	1,000	<0.5	2.5	54	<1	<0.05	15,000	3.6	<10	3.6	<0.1	2,500	1.2	4,000
BH235(53-59)	7,000	<0.5	2.1	35	0.28	2.7	77,000	9.4	4.4	9	<0.1	8,860	5	35,500

N/A - Not Analyzed for Element

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Metals (mg/kg)
Lagoon Area

SAMPLE-ID	MANGANESE	MERCURY	NICKEL	POTASSIUM	SILVER	SODIUM	TIN	VANADIUM	ZINC
BH206(1.5-2)	140	<0.02	6.2	620	<0.5	160	N/A	11	29
BH206(6-8)	160	0.08	9	530	<0.5	120	N/A	10	53
BH206(20-22)	330	<0.02	8	1,100	<0.5	<250	N/A	17	28
BH206(24-26)	62	<0.1	<5	180	<0.5	140	N/A	4.3	4
BH206(66-68)	240	<0.1	15	2,300	0.8	730	N/A	25	25
BH216(1.5-2)	N/A	<0.1	13	N/A	<0.5	N/A	29	20	51
BH216(12-14)	N/A	0.35	7.5	N/A	<0.5	N/A	16	11	70
BH216(20-22)	N/A	<0.1	9.7	N/A	<0.5	N/A	28	16	50
BH216(26-29)	N/A	<0.1	3.9	N/A	<0.5	N/A	11	<10	25
BH216(55-58)	N/A	<0.1	15	N/A	<0.5	N/A	38	20	45
BH223(0-0.5)	130	<0.1	8	730	<0.05	270	N/A	8	47
BH223(12-15)	57	<0.1	3	200	<0.05	140	N/A	4	10
BH223(15-20)	630	<0.1	12	990	<0.5	220	N/A	16	30
BH223(26-28)	66	<0.1	4	330	<0.5	120	N/A	7.3	11
BH223(51-54)	270	<0.1	15	2,000	<0.5	740	N/A	24	28
BH226(0-0.5)	120	0.11	12	<1000	0.51	<1000	N/A	<10	99
BH226(12-14)	50	<0.1	1.7	<1000	<0.5	<1000	N/A	<10	29
BH228(0.5-1)	N/A	<0.1	7	N/A	<0.5	N/A	13	<10	64
BH228(8-10.5)	N/A	0.17	28	N/A	<0.5	N/A	15	<10	110
BH228(11-14)	N/A	<0.1	1.5	N/A	<0.5	N/A	<5	<10	41
BH228(44-54)	N/A	<0.1	14	N/A	<0.5	N/A	33	16	59
BH232(0-2)	270	<0.1	6700	1,100	0.81	<1000	N/A	18	570
BH232(2-4)	250	<0.1	1500	1,100	0.64	<1000	N/A	18	210
BH232(6-10)	430	<0.1	12	<1000	<0.5	<1000	N/A	17	59
BH232(15.5-18)	48	<0.1	5.3	<1000	<0.5	<1000	N/A	<10	23
BH232(45-50)	200	<0.1	13	1,100	<0.5	<1000	N/A	16	0.33
BH235(0-2)	420	0.15	1200	<1000	<0.5	<1000	N/A	16	170
BH235(2-4)	210	<0.1	680	<1000	<0.5	<1000	N/A	13	110
BH235(10-12)	290	<0.1	9.5	<1000	<0.5	<1000	N/A	<10	50
BH235(12-16)	56	<0.1	4.4	<1000	<0.5	<1000	N/A	<10	26
BH235(53-59)	180	<0.1	12	1,600	<0.5	740	N/A	17	21

N/A - Not Analyzed for Element

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Dioxin/Furans - Method 161(ppt)

Lagoon Area

SAMPLE-ID	1234678 HpCDD	1234678 HpCDF	123478 HxCDF	1234789 HpCDF	123678 HxCDD	123678 HxCDF	12378 PeCDD	12378 PeCDF	123789 HxCDD	234678 HxCDF	23478 PeCDF	2378 TCDD	2378 TCDF
BH228(0.5-1)	23.5409	81.4918	36.5802	4.1463	<0.755	8.2627	0.8069	47.0683	1.4602	<0.845	5.8372	39.0185	141.5743
BH228(8-10.5)	158.3423	263.1297	952.3428	43.5285	18.5181	164.0357	<0.553	1749.8364	6.0776	11.8165	102.283	863.7915	2107.962
BH228(11-14)	2.4266	1.5549	4.2971	<1.093	<0.77	0.8082	<0.649	6.3489	<0.951	<0.836	<0.67	4.3682	16.5304
BH228(44-54)	2.2707	<0.514	<0.514	<0.892	<0.554	<0.384	<0.483	<0.369	<0.703	<0.588	<0.484	<0.331	<769.201

SAMPLE-ID	OCDF	TOTAL HpCDD	TOTAL HpCDF	TOTAL HxCDD	TOTAL HxCDF	TOTAL PeCDD	TOTAL PeCDF	TOTAL TCDD	TOTAL TCDF
BH228(0.5-1)	78.8758	23.5409	199.8433	22.5149	127.0272	3.0369	221.2217	3.2463	330.3139
BH228(8-10.5)	217.8658	314.7893	804.2907	151.8597	1824.3154	<0.553	4343.7596	8.1401	3996.1525
BH228(11-14)	<1.904	2.4266	1.9336	<0.927	6.8323	<0.649	18.0749	<0.534	35.7841
BH228(44-54)	<1.914	4.244	<0.663	1.5219	<0.482	<0.483	<0.349	1.5621	<2623.893

GM Powertrain - Bay City Plant

Sediment Analytical Results for Detected PCBs - Method 8080(ppb)

Lagoon Area

SAMPLE-ID	Aroclor 1248
SD230(0-0.5)	1.8
SD230(0.5-3.5)	1.7
SD230(3.5-4.5)	1.4
SD231(0-1)	20
SD231(1-2)	<0.33
SD231(2-3.5)	0.433
SD233(0-1)	6.2
SD233(1-2)	0.4
SD233(2-4)	0.62
SD234(0-1)	11
SD234(1-2)	0.94
SD234(2-4)	<0.33
SD234(4-5)	19
SD234(5-6)	0.41
SD234(6-7)	<0.33
SD236(0-1)	0.9
SD236(1-2)	0.44
SD236(2-4)	<0.33

N/A - Not Analyzed for Element

GM Powertrain - Bay City Plant

Sediment Analytical Results for Detected Semivolatile Organic Compounds - Method 8270(mg/kg)

Lagoon Area

SAMPLE-ID	2-METHYL NAPTHALENE	ACENAPH-THENE	ANTHRACENE	BENZO(A) ANTHRACENE	BENZO(A) PYRENE	BENZO(B) FLUORAN THENE	BENZO(G,H,I) PERYLENE	BENZO(K) FLUORAN THENE	BIS (2-ETHYLHEX) PHTHALATE
SD230(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.035	0.081
SD230(0.5-3.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
SD230(3.5-4.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
SD231(0-1)	4.6	5.4	20	4.8	3.8	5.1	2.9	4.5	3
SD231(1-2)	<0.33	<0.33	0.21	<0.33	<0.33	<0.33	<0.33	<0.33	0.22
SD231(2-3.5)	<0.33	<0.33	0.17	<0.33	<0.33	<0.33	<0.33	<0.33	0.15
SD233(0-1)	<1.4	<1.4	6.4	4.5	3.7	5	2.87	4.4	3.2
SD233(1-2)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.13
SD233(2-4)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.13
SD234(0-1)	<0.5	<0.5	3.8	2.8	2.5	3.6	2.2	3.3	3
SD234(1-2)	<0.33	<0.33	0.23	0.17	0.14	0.19	0.12	0.16	0.36
SD234(2-4)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.23
SD234(4-5)	<0.9	<0.9	2.5	2.2	1.9	<0.9	1.6	<0.9	3.3
SD234(5-6)	<0.33	<0.33	0.1	<0.33	<0.33	0.1	<0.33	<0.33	0.37
SD234(6-7)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
SD236(0-1)	<0.66	<0.66	1.1	1	<0.66	1.3	0.73	1.2	1.8
SD236(1-2)	<0.33	<0.33	0.36	0.15	0.15	<0.33	0.12	<0.33	0.22
SD236(2-4)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.2

SAMPLE-ID	CHRYSENE	DIBENZO-FURAN	FLUORAN-THENE	FLUORENE	INDENO (1,2,3-CD) PYRENE	NAPHTHALENE	PHENAN-THRENE	PHENOL	PYRENE
SD230(0-0.5)	0.037	<0.33	0.067	<0.33	<0.33	<0.33	<0.33	<0.33	0.058
SD230(0.5-3.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
SD230(3.5-4.5)	<0.33	<0.33	<0.33	<0.33	<0.33	0.17	<0.33	<0.33	<0.33
SD231(0-1)	5.6	4.2	16	5.5	3.4	6.5	19	<0.99	12
SD231(1-2)	<0.33	<0.33	0.18	<0.33	<0.33	0.2	0.2	<0.33	0.14
SD231(2-3.5)	<0.33	<0.33	0.16	<0.33	<0.33	<0.33	0.16	<0.33	0.12
SD233(0-1)	5.3	<1.4	11	<1.4	3.1	5	6	2.9	8.7
SD233(1-2)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
SD233(2-4)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
SD234(0-1)	3.3	<0.5	6.4	0.6	2.4	<0.5	3.6	<0.5	5.6
SD234(1-2)	0.2	<0.33	0.38	<0.33	0.13	<0.33	0.21	0.49	<0.33
SD234(2-4)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
SD234(4-5)	2.6	<0.9	4.6	<0.9	1.9	<0.9	2.3	0.64	4.4
SD234(5-6)	0.1	<0.33	0.18	<0.33	<0.33	<0.33	<0.33	<0.33	0.15
SD234(6-7)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
SD236(0-1)	1.2	<0.66	2.3	<0.66	0.8	1.5	1	<0.66	1.9
SD236(1-2)	0.27	<0.33	0.57	<0.33	<0.33	<0.33	0.34	0.71	0.45
SD236(2-4)	<0.33	<0.33	<0.33	<0.33	<0.33	0.23	<0.33	<0.33	<0.33

N/A - Not Analyzed for Element

GM Powertrain - Bay City Plant

Sediment Analytical Results

for Detected Volatile Organic Compounds - Method 8260(mg/kg)

Lagoon Area

SAMPLE-ID	1,1,1-TCA	1,1-DCE	XYLENES
SD230(0-0.5)	<0.01	<0.01	<0.03
SD230(0.5-3.5)	<0.01	<0.01	<0.03
SD230(3.5-4.5)	<0.01	<0.01	<0.03
SD231(0-1)	<0.01	<0.01	<0.03
SD231(1-2)	<0.01	<0.01	<0.03
SD231(2-3.5)	<0.01	0.039	<0.03
SD233(0-1)	<0.01	<0.01	0.087
SD233(1-2)	<0.01	<0.01	<0.03
SD233(2-4)	0.02	<0.01	<0.03
SD234(0-1)	<0.01	<0.01	0.058
SD234(1-2)	<0.01	<0.01	<0.03
SD234(2-4)	<0.01	<0.01	<0.03
SD234(4-5)	<0.01	<0.01	<0.03
SD234(5-6)	<0.01	<0.01	<0.03
SD234(6-7)	<0.01	<0.01	<0.03
SD236(0-1)	<0.01	<0.01	<0.03
SD236(1-2)	<0.01	<0.01	<0.03
SD236(2-4)	<0.01	<0.01	<0.03

N/A - Not Analyzed for Element

GM Powertrain - Bay City Plant

Sediment Analytical Results for Detected Metals (mg/kg)

Lagoon Area

SAMPLE-ID	ALUMINUM	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	CYANIDE	IRON
SD230(0-0.5)	5,180	2.2	31	0.23	3.8	68,500	280	3	190	<0.1	7,300
SD230(0.5-3.5)	7,190	3	34	0.31	5.4	98,000	18	4	39	<0.1	9,510
SD230(3.5-4.5)	1,500	1	<10	<0.5	<0.05	311,000	<25	<2	43	<0.1	2,600
SD231(0-1)	12,100	16	180	0.58	5	70,500	2,100	8.4	1,490	0.4	31,100
SD231(1-2)	8,290	2.4	41	0.86	3.1	62,100	130	4.9	43	<0.1	10,600
SD231(2-3.5)	7,250	5	42	0.33	3.1	74,600	740	4.7	550	<0.1	9,640
SD233(0-1)	14,400	26	240	0.66	5.6	101,000	9,230	11	8,550	8.8	35,400
SD233(1-2)	8,360	4	41	0.36	2.6	64,100	48	5	45	<0.1	11,000
SD233(2-4)	7,210	3	36	0.31	4	76,300	29	4.1	26	<0.1	9,390
SD234(0-1)	13,200	13	180	0.59	5.3	77,500	3,780	8.1	3,980	5.5	27,300
SD234(1-2)	7,600	3.4	40	0.32	2.5	62,600	94	4.7	150	<0.1	10,200
SD234(2-4)	8,550	3.6	40	0.35	2.3	57,500	28	4.7	25	<0.1	10,500
SD234(4-5)	30,800	45	470	1.4	14	238,500	14,200	21	14,900	93	67,700
SD234(5-6)	8,490	5	43	0.36	3	65,300	42	5.2	51	0.3	11,000
SD234(6-7)	7,040	3	37	0.31	2.4	55,400	17	4.4	16	<0.1	9,660
SD236(0-1)	16,900	30	280	0.79	1.1	16,200	14,200	14	13,800	54	35,600
SD236(1-2)	8,780	2.6	44	0.43	3.2	67,800	180	5	330	3.3	11,200
SD236(2-4)	7,590	3	40	0.34	2.9	61,400	37	4.4	36	<0.1	9,650

SAMPLE-ID	IRON	LEAD	MAGNESIUM	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SODIUM	VANADIUM	ZINC
SD230(0-0.5)	7,300	12	17,000	150	<0.1	200	1,300	<0.5	250	14	79
SD230(0.5-3.5)	9,510	5	20,800	200	<0.1	20	2,300	<0.5	470	18	23
SD230(3.5-4.5)	2,600	2	16,000	71	<0.1	<10	<500	<0.5	<500	5	12
SD231(0-1)	31,100	94	18,600	550	0.4	2310	2,000	<0.5	450	35	830
SD231(1-2)	10,600	6	22,300	200	<0.1	63	1,900	<0.5	280	22	35
SD231(2-3.5)	9,640	7	30,400	200	<0.1	750	1,700	0.7	280	19	110
SD233(0-1)	35,400	100	23,000	700	0.4	13400	2,600	<0.5	700	40	1,640
SD233(1-2)	11,000	5	25,100	210	<0.1	64	2,000	<0.5	310	21	29
SD233(2-4)	9,390	4	21,100	190	<0.1	39	1,700	<0.5	260	18	24
SD234(0-1)	27,300	69	17,600	540	0.3	6000	2,500	<0.5	490	34	890
SD234(1-2)	10,200	5	24,300	200	<0.1	170	1,700	<0.5	260	19	37
SD234(2-4)	10,500	6	23,500	200	<0.1	38	2,100	<0.5	270	22	27
SD234(4-5)	67,700	170	53,400	1,500	0.6	22200	6,000	<0.5	1,500	82	2,600
SD234(5-6)	11,000	6	25,600	210	<0.1	69	2,000	<0.5	280	21	30
SD234(6-7)	9,660	4	22,400	180	<0.1	24	1,600	<0.5	290	18	22
SD236(0-1)	35,600	84	35,800	840	<0.1	21900	3,500	<0.5	860	45	2,070
SD236(1-2)	11,200	6	24,400	240	<0.1	330	2,100	0.6	300	22	48
SD236(2-4)	9,650	4	23,800	190	<0.1	54	1,800	<1	290	19	26

N/A - Not Analyzed for Element

GM Powertrain - Bay City Plant

Groundwater Analytical Results

for Detected PCBs - Method 8080(ug/l)

Lagoon Area

SHALLOW WELLS	Aroclor 1248			
Sample Round	Aug. 93	Aug. 93(F)	Mar. 94	Mar. 94(F)
LMW11S	<0.1	N/A	<0.1	<0.1
LMW12S	<0.1	N/A	<0.1	<0.1
LMW1S	2900	N/A	0.3	0.3
LMW2S	2	N/A	<0.1	<0.1
LMW5S	1.1	N/A	<0.1	<0.1
LMW6S	7.3	<0.1	<0.1	<0.1
LMW7S	<0.1	N/A	0.4	0.4
LMW8S	0.2	N/A	<0.1	<0.1
MW16S	0.6	N/A	<0.1	<0.1
MW201S	0.3	N/A	N/A	<0.1
MW3S	1.6	N/A	<0.1	<0.1
MW5S	N/A	N/A	<0.1	N/A
DEEP WELLS	**Aroclor 1248**			
Sample Round	Aug. 93	Aug. 93(F)	Mar. 94	Mar. 94(F)
LMW10D	1	N/A	<0.1	<0.1
LMW3D	510	N/A	<0.1	<0.1
LMW4D	27	N/A	<0.1	<0.1
LMW9D	0.6	N/A	<0.1	<0.1
MW200D	N/A	N/A	3.2	N/A
MW201D1	<0.1	N/A	N/A	<0.1
MW201D2	<0.1	N/A	<0.1	<0.1
MW201D3	0.3	N/A	N/A	<0.1
MW201D4	<0.1	N/A	N/A	<0.1

(F) - Filtered Sample

N/A - Not Analyzed or not Sampled for Compound

GM Powertrain - Bay City Facility

Groundwater Analytical Results for Detected Semivolatile Organic Compounds

Method 8270(ug/l)

Lagoon Area

SHALLOW WELLS	1,3-DICHLORO-BENZENE		1,3-DICHLORO-BENZENE		BIS(2-ETHYLHEX) PHTHALATE		DI-N-OCTYL PHTHALATE	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
LMW11S	<5	<5	<5	<5	3	3	<5	<5
LMW12S	<5	<5	<5	<5	3	2	<5	<5
LMW1S	<5	<5	<5	<5	3	3	<5	<5
LMW2S	<5	<5	<5	<5	7	<5	<5	<5
LMW5S	<5	<5	<5	<5	3	1	<5	<5
LMW6S	<5	<5	<5	<5	8	<5	200	<5
LMW7S	<5	<5	<5	<5	6	<5	<5	<5
LMW8S	<5	<5	<5	<5	4	3	<5	<5
MW16S	<5	<5	<5	<5	3	2	<5	<5
MW201S	<5	<5	<5	<5	<5	<5	<5	<5
MW3S	<5	<5	<5	<5	3	4	<5	<5
MW5S	N/A	<5	N/A	<5	N/A	<5	N/A	<5
DEEP WELLS	**1,3-DICHLORO-BENZENE**		**1,3-DICHLORO-BENZENE**		**BIS(2-ETHYLHEX) PHTHALATE**		**DI-N-OCTYL PHTHALATE**	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
LMW10D	7	<5	7	<5	240	3	260	<5
LMW3D	<5	<5	<5	<5	<5	8	<5	<5
LMW4D	<5	<5	<5	<5	<5	2	<5	<5
LMW9D	<5	<5	<5	<5	<5	<5	<5	<5
MW201D1	<5	<5	<5	<5	6	<5	<5	<5
MW201D2	<5	<5	<5	<5	3	<5	<5	<5
MW201D3	<5	N/A	<5	N/A	7	N/A	<5	N/A
MW201D4	<5	N/A	<5	N/A	3	N/A	<5	N/A

N/A - Not Analyzed or not Sampled for Compound

NE - Criteria not Established

GM Powertrain - Bay City Plant

Groundwater Analytical Results for Detected Volatile Organic Compounds
Method 8240/8260(ug/l)
Lagoon Area

SHALLOW WELLS	TOLUENE		ETHYLBENZENE		XYLENES		1,1,1-TCA		1,1-DCA		1,1-DCE		1,2-DCA		1,2-DCE		ACETONE		CARBON TETRACHLORIDE		CHLORO BENZENE		CHLORO ETHANE		CHLOROFORM		METHYLENE CHLORIDE		TCE		VINYL CHLORIDE	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
LMW11S	<1	<1	<1	<1	4	<3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<50	<1	<1	8	<1	<1	<1	20	<1	<1	<1	<1	<1	<1	<1
LMW12S	<1	<1	<1	<1	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<50	<1	<1	<1	<1	<1	<1	10	<1	<1	<1	<1	<1	<1	<1
LMW1S	<1	<1	<1	<1	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<50	2	<1	<1	<1	<1	<1	21	<1	<1	<1	<1	<1	<1	<1
LMW2S	<1	<1	<1	<1	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<50	<1	<1	<1	<1	<1	<1	19	<1	<1	<1	<1	<1	<1	<1
LMW5S	<1	<1	<1	<1	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<50	<1	<1	<1	<1	<1	<1	11	<1	<1	<1	<1	<1	<1	<1
LMW6S	<1	<1	<1	<1	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<50	<1	<1	<1	<1	<1	<1	7	<1	<1	<1	<1	<1	<1	<1
LMW7S	<1	<1	2	<1	11	<3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<50	<1	<1	<1	<1	<1	<1	9	<1	<1	<1	<1	<1	<1	<1
LMW8S	<1	<1	<1	<1	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<50	<1	<1	<1	<1	<1	<1	4	<1	<1	<1	<1	<1	<1	<1
MW16S	15	<5	6	<5	9	<15	8	30	96	440	15	28	<1	<5	5	3100	<50	<250	<1	<5	<1	<5	<1	<5	8	<5	<1	<5	4	8	480	880
MW201S	<1	<1	2	<1	3	<3	<1	<1	90	68	<1	<1	<1	<1	41	24	<50	<50	3	<1	<1	<1	<1	<1	22	<1	<1	<1	<1	<1	170	31
MW3S	<1	<1	<1	<1	<3	<3	<1	<1	<1	8	<1	<1	<1	<1	<1	20	<50	<50	<1	<1	<1	<1	<1	<1	13	<1	<1	<1	<1	<1	<1	1
MW5S	N/A	<1	N/A	<1	<3	N/A	N/A	<1	N/A	16	N/A	<1	N/A	14	N/A	<1	N/A	<50	N/A	<1	N/A	<1	N/A	9	N/A	<1	N/A	2	N/A	<1	N/A	14

DEEP WELLS	TOLUENE		ETHYLBENZENE		XYLENES		1,1,1-TCA		1,1-DCA		1,1-DCE		1,2-DCA		1,2-DCE		ACETONE		CARBON TETRACHLORIDE		CHLORO BENZENE		CHLORO ETHANE		CHLOROFORM		METHYLENE CHLORIDE		TCE		VINYL CHLORIDE	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
LMW10D	<1	<1	<1	<1	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	100	<50	<1	<1	<1	<1	<1	<1	10	<1	<1	<1	<1	<1	<1	<1
LMW3D	<1	<1	<1	<1	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
LMW4D	<1	<1	<1	<1	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<50	<1	<1	<1	<1	<1	<1	15	<1	<1	<1	<1	<1	<1	<1
LMW9D	<1	<1	<1	<1	<3	<3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<50	<1	<1	<1	<1	<1	<1	7	<1	<1	<1	<1	<1	<1	<1
MW200D	N/A	<1	N/A	<1	N/A	<3	N/A	<1	N/A	<1	N/A	<1	N/A	<1	N/A	<1	N/A	<50	N/A	<1	N/A	<1	N/A	<1	N/A	<1	N/A	2	N/A	<1	N/A	<10
MW201D1	<1	N/A	<1	N/A	2	N/A	<1	N/A	29	N/A	<1	N/A	<1	N/A	47	N/A	210	N/A	6	N/A	<1	N/A	<1	N/A	34	N/A	<1	N/A	<1	N/A	130	N/A
MW201D2	<1	1	<1	2	2	2	<1	<1	42	160	<1	<1	<1	<1	170	260	98	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	320	280
MW201D3	<1	N/A	<1	N/A	<3	N/A	<1	N/A	8	N/A	<1	N/A	<1	N/A	32	N/A	300	N/A	10	N/A	<1	N/A	<1	N/A	45	N/A	<1	N/A	<1	N/A	<1	N/A
MW201D4	<1	N/A	<1	N/A	<3	N/A	<1	N/A	<1	N/A	<1	N/A	<1	N/A	5	N/A	330	N/A	9	N/A	<1	N/A	<1	N/A	44	N/A	<1	N/A	<1	N/A	<1	N/A

N/A - Not Analyzed or not Sampled for Compound

GM Powertrain - Bay City Facility

Groundwater Analytical Results for Detected Metals (ug/l)

Lagoon Area

SHALLOW WELLS	ALUMINUM		ANTIMONY		ARSENIC		BARIUM		CALCIUM		COPPER		IRON		LEAD	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
MW4S	80	<300	<5	<5	5	2	300	600	300,000	300,000	<20	<25	22,000	38,000	<3	<3
MW5S	N/A	N/A	N/A	<5	N/A	17	N/A	260	N/A	N/A	N/A	<25	N/A	N/A	N/A	<3
MW201S	130	<300	<5	<5	18	15	<200	<200	140,000	150,000	<20	<25	13,000	16,000	<3	<3
DEEP WELLS	**ALUMINUM**		**ANTIMONY**		**ARSENIC**		**BARIUM**		**CALCIUM**		**COPPER**		**IRON**		**LEAD**	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
MW200D	N/A	N/A	N/A	<5	N/A	50	N/A	3,800	N/A	N/A	N/A	35	N/A	N/A	N/A	<3
MW201D1	110	N/A	<5	N/A	16	N/A	<200	N/A	140,000	N/A	<20	N/A	7,400	N/A	<3	N/A
MW201D2	180	<300	<5	6	22	36	<200	400	220,000	260,000	<20	<25	7,900	28,000	<3	<3
MW201D3	120	N/A	<5	N/A	29	N/A	1,100	N/A	310,000	N/A	<20	N/A	14,000	N/A	13	N/A
MW201D4	<200	N/A	<5	N/A	20	N/A	3,400	N/A	1,660,000	N/A	<20	N/A	64,000	N/A	<3	N/A

SHALLOW WELLS	MAGNESIUM		MANGANESE		POTASSIUM		SODIUM		SULFIDE		TIN		VANADIUM		ZINC	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
MW4S	45,000	35,000	2,000	2,800	14,000	52,000	120,000	150,000	N/A	N/A	N/A	N/A	10	<20	<20	<20
MW5S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<200	N/A	<100	N/A	<50	N/A	<20
MW201S	32,000	35,000	1,100	1,200	6,000	7,000	51,000	56,000	N/A	N/A	N/A	N/A	<8	<20	<20	<20
DEEP WELLS	**MAGNESIUM**		**MANGANESE**		**POTASSIUM**		**SODIUM**		**SULFIDE**		**TIN**		**VANADIUM**		**ZINC**	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
MW200D	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	600	N/A	780	N/A	<50	N/A	<100
MW201D1	26,000	N/A	890	N/A	19,000	N/A	54,000	N/A	N/A	N/A	N/A	N/A	<8	N/A	<20	N/A
MW201D2	41,000	50,000	1,100	1,800	20,000	15,000	68,000	82,000	N/A	N/A	N/A	N/A	<8	<20	<20	<20
MW201D3	87,000	N/A	210	N/A	7,000	N/A	610,000	N/A	N/A	N/A	N/A	N/A	<8	N/A	120	N/A
MW201D4	570,000	N/A	1,200	N/A	54,000	N/A	3,200,000	N/A	N/A	N/A	N/A	N/A	20	N/A	160	N/A

N/A - Not Analyzed or not Sampled for Element

GM Powertrain - Bay City Plant

Groundwater Analytical Results for Cyanide (ug/l)

Lagoon Area

SHALLOW WELLS	CYANIDE	
Sample Round	Aug. 93	Mar. 94
LMW1S	<5	<5
LMW2S	<5	N/A
MW3S	<5	N/A
LMW5S	<5	N/A
LMW6S	<5	N/A
LMW7S	<5	N/A
LMW8S	<5	N/A
LMW11S	<5	<5
LMW12S	<5	N/A
MW16S	<5	N/A
MW201S	<5	N/A
DEEP WELLS	**CYANIDE**	
Sample Round	Aug. 93	Mar. 94
LMW3D	<5	<5
LMW4D	<5	N/A
LMW9D	<5	N/A
LMW10D	<5	N/A
MW201D1	<5	N/A
MW201D2	<5	6
MW201D3	<5	N/A
MW201D4	<5	N/A
MW5S	N/A	<5
MW201S	N/A	<5
MW200D	N/A	<5

N/A - Not Analyzed or not Sampled for Cyanide

GM Powertrain - Bay City Plant

Groundwater Analytical Results

for Detected Dioxin/Furans - Method 161(ppq)

Lagoon Area

	MW5S		MW200D	
	Aug. 93	Mar. 94	Aug. 93	Mar. 94
1234678-HpCDD	<7.103	<1.743	<10.427	41.3766
123478-HxCDF	13.3677	<0.995	<3.209	8.2155
123678-HxCDD	<3.99	<1.32	<4.775	9.9327
123678-HxCDF	2.525	<9.843	<2.533	1.9682
12378-PeCDF	<0.984	<1.136	<2.833	1.8798
123789-HxCDD	<4.088	<1.324	<5.091	6.4057
123789-HxCDF	<3.302	<0.981	<4.724	1.7819
23478-PeCDF	13.3469	<1.004	<2.748	3.3064
2378-TCDD	<2.236	<1.319	<2.782	4.8289
2378-TCDF	44.5527	<1.113	6.57	8.5173
OCDF	<12.506	<2.046	55.7045	<1.959
TOTAL HpCDD	<7.103	<1.743	<10.427	63.2317
TOTAL HxCDD	<4.115	<1.375	5.4046	38.4416
TOTAL PeCDF	30.0275	<1.065	<1.116	14.9861
TOTAL TCDF	73.3546	<1.113	9.7633	12.0713

N/A - Not Analyzed or Not Sampled for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected PCBs - Method 8080(mg/kg)

Perimeter Banks Area

SAMPLE-ID	Aroclor 1248
BH300(0-0.5)	2.2
BH300(12-14)	<0.33
BH300(18-20)	<0.33
BH300(28-30)	<0.33
BH301(0-0.5)	<0.33
BH301(8-12)	<0.33
BH301(16-20)	<0.33
BH301(26-30)	0.36
BH301(35-40)	<0.33
BH302(0-0.5)	1.7
BH302(6-10)	1.5
BH302(10-14)	14
BH302(30-36)	1.4
BH302(43-48)	<0.33
BH303(0-0.5)	64
BH303(6-10)	<0.66
BH303(10-12)	360
BH303(28-30)	2.9
BH303(44-46)	<0.33
BH304(0-0.5)	36
BH304(10-14)	<0.33
BH304(16-20)	0.92
BH304(30-34)	1
BH304(48-54)	<0.33
BH305(0-0.5)	200
BH305(12-14)	51
BH305(20-22)	560
BH305(30-34)	39
BH305(48-50)	<0.33
BH306(0-0.5)	87
BH306(8-14)	140
BH306(14-18)	0.72
BH306(34-38)	1
BH306(49-54)	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected PCBs - Method 8080(mg/kg)

Perimeter Banks Area

SAMPLE-ID	Aroclor 1248
BH307(0-0.5)	34
BH307(10-14)	290
BH307(18-22)	2
BH307(32-36)	<0.33
BH307(49-54)	<0.33
BH308(0-0.5)	4
BH308(10-15)	9.5
BH308(18-21)	<0.33
BH308(26-30)	<0.33
BH308(49-54)	<0.33
BH309(0-0.5)	18
BH309(10-13)	4
BH309(16-20)	1.1
BH309(38-42)	<0.33
BH309(50-54)	<0.33
BH310(0-0.5)	9.9
BH310(8-13)	15
BH310(16-20)	0.85
BH310(36-40)	13
BH310(51-56)	<0.33
BH311(0-0.5)	0.4
BH311(10-14)	150
BH311(20-23.5)	<0.33
BH311(38-42)	1.6
BH311(52-56)	<0.33
BH312(0-0.5)	0.58
BH312(6-12)	18
BH312(16-20)	<0.33
BH312(36-40)	0.44
BH312(53-58)	<0.33
BH313(0-0.5)	1.3
BH313(6-10)	950
BH313(16-20)	2.8
BH313(26-30)	4.1
BH313(54-57)	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected PCBs - Method 8080(mg/kg)

Perimeter Banks Area

SAMPLE-ID	Aroclor 1248
BH314(0-1)	350
BH314(4-8)	710
BH314(16-22)	0.53
BH314(40-44)	<0.33
BH314(55-60)	<0.33
BH315(0-0.5)	35
BH315(10-14)	18
BH315(16-20)	<0.33
BH315(48-52)	<0.33
BH315(59-64)	<0.33
BH316(0-0.5)	1.3
BH316(6-10)	48
BH316(16-20)	0.49
BH316(38-42)	<0.33
BH316(58-64)	0.39
BH317(0-0.5)	57
BH317(14-18)	<0.33
BH317(19-20.5)	<0.33
BH317(38-42)	<0.33
BH317(56-60)	<0.33
BH318(0-0.5)	1.8
BH318(6-12)	4.6
BH318(18-22)	<0.33
BH318(40-44)	<0.33
BH318(58-64)	<0.33
BH319(0-0.5)	1.7
BH319(14-18)	<0.33
BH319(20-23)	<0.33
BH319(42-44)	<0.33
BH319(59-62)	<0.33
BH320(0-0.5)	8.6
BH320(6-10)	8.31
BH320(16-21)	<0.33
BH320(38-42)	<0.33
BH320(57-60)	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected PCBs - Method 8080(mg/kg)

Perimeter Banks Area

SAMPLE-ID	Aroclor 1248
BH321(0-0.5)	27
BH321(6-10)	49
BH321(12-16)	0.34
BH321(26-30)	<0.33
BH321(58-64)	<0.33
BH322(0-0.5)	1.6
BH322(2-4)	24
BH322(16-18)	1.8
BH322(50-52)	<0.33
BH322(58-62)	<0.33
BH323(0-0.5)	2.4
BH323(12-14)	<0.33
BH323(18-20)	<0.33
BH323(40-42)	<0.33
BH323(58-62)	<0.33
BH324(0-0.5)	13
BH324(8-12)	12
BH324(14-18)	0.78
BH324(36-40)	0.64
BH324(55-60)	0.51
BH325(0-0.5)	19
BH325(4-10)	25
BH325(16-20)	0.77
BH325(38-42)	<0.33
BH325(53-58)	<0.33
BH326(0-0.5)	2.2
BH326(6-8)	13
BH326(18-20)	1.2
BH326(42-44)	0.74
BH326(48-50)	<0.33
BH327(0-0.5)	3.3
BH327(11-13)	<0.33
BH327(18-21)	<0.33
BH327(38-40)	<0.33
BH327(53-55)	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected PCBs - Method 8080(mg/kg)

Perimeter Banks Area

SAMPLE-ID	Aroclor 1248
BH328(0-0.5)	2.3
BH328(6-8)	9.4
BH328(18-20)	<0.33
BH328(36-40)	<0.33
BH328(55-58)	<0.33
BH329(0-0.5)	930
BH329(11-13)	<330
BH329(22-24)	<330
BH329(48-52)	<0.33
BH329(55-60)	<0.33
BH330(0-0.5)	3.1
BH330(4-6)	1.9
BH330(18-20)	<0.33
BH330(38-40)	<0.33
BH330(57-62)	<0.33
BH331(0-0.5)	2500
BH331(4-6)	<330
BH331(20-22)	<330
BH331(38-40)	2.4
BH331(60-62)	<330
BH332(0-0.5)	<0.33
BH332(1-4)	5.3
BH332(10-13)	120
BH332(22-24)	0.61
BH332(46-50)	0.4
BH332(68-70)	<0.33
BH333(0.5-1)	2.04
BH333(16-18)	<0.33
BH333(20-22)	0.7
BH333(40-44)	<0.33
BH333(63-68)	<0.33
BH334(0-1)	6
BH334(18-20)	<0.33
BH334(22-26)	<0.33
BH334(44-48)	<0.33
BH334(63-68)	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected PCBs - Method 8080(mg/kg)

Perimeter Banks Area

SAMPLE ID	Aroclor 1248
BH335(0-0.5)	8.1
BH335(20-22)	<0.33
BH335(22-26)	<0.33
BH335(42-46)	<0.33
BH335(63-68)	<0.33
BH336(0-0.5)	3.7
BH336(20-22)	<0.33
BH336(44-46)	<0.33
BH336(62-68)	<0.33
BH337(0-0.5)	3.4
BH337(14-18)	<0.33
BH337(20-24)	<0.33
BH337(44-46)	<0.33
BH337(62-68)	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Semivolatile Organic Compounds - Method 8270(mg/kg)

Perimeter Banks Area

SAMPLE-ID	ACENAPHTHENE	ANTHRACENE	BENZO(A) ANTHRACENE	BENZO(A) PYRENE	BENZO(B) FLUORANTHENE	BENZO(G,H,I) PERYLENE	BENZO(K) FLUORANTHENE	BIS(2-ETHYLHEX) PHTHALATE	CARBAZOLE	CHRYSENE	DI-N-BUTYL PHTHALATE	DI-N-OCTYL PHTHALATE	DIBENZO(A,H) ANTHRACENE
BH300(0-0.5)	<0.33	<0.33	0.81	0.56	1.4	0.54	<0.33	<0.33	<0.33	0.69	<0.33	<0.33	<0.33
BH300(12-14)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	1.9	<0.33	<0.33	<0.33	<0.33	<0.33
BH300(18-20)	<0.33	<0.33	<0.33	<0.33	0.39	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH300(28-30)	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66
BH301(0-0.5)	<0.33	0.15	0.12	0.14	0.12	0.11	0.12	0.17	<0.33	0.14	<0.33	<0.33	<0.33
BH301(8-12)	2	0.62	0.81	0.77	0.7	0.53	0.6	0.34	0.23	0.96	<0.33	<0.33	<0.33
BH301(16-20)	0.18	0.31	0.3	0.29	0.32	0.22	0.28	0.38	0.078	0.36	<0.33	<0.33	<0.33
BH301(26-30)	1	1.4	1.7	1.5	1.4	0.97	1.2	<0.33	0.47	1.9	<0.33	<0.33	0.26
BH301(35-40)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.099	<0.33	<0.33	<0.33	<0.33	<0.33
BH302(0-0.5)	<0.33	<0.33	<0.33	<0.33	0.44	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH302(6-10)	<0.33	<0.33	0.69	0.68	1	<0.33	0.58	<0.33	<0.33	0.79	<0.33	<0.33	<0.33
BH302(10-14)	0.84	1.2	2.4	0.96	1.6	1.6	<0.66	1	<0.66	1.4	<0.66	<0.66	<0.66
BH302(30-36)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.39	<0.33	<0.33	<0.33	<0.33	<0.33
BH302(43-48)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	1.2	<0.33	<0.33	<0.33	<0.33	<0.33
BH303(0-0.5)	<0.33	<0.33	0.39	0.36	0.38	0.39	<0.33	0.47	<0.33	0.55	<0.33	<0.33	<0.33
BH303(6-10)	<0.33	<0.33	0.66	0.61	0.65	0.55	0.4	<0.33	<0.33	0.72	<0.33	<0.33	<0.33
BH303(10-12)	0.9	1.5	1.8	1.3	1.7	1.6	1.2	<0.33	0.37	2.8	<0.33	0.63	0.94
BH303(28-30)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	1.6	<0.33	<0.33	<0.33	<0.33	<0.33
BH303(44-46)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH304(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.71	<0.33	<0.33	<0.33	<0.33	<0.33
BH304(10-14)	<0.33	0.34	1.4	1.1	2	0.94	<0.33	<0.33	<0.33	1.7	<0.33	<0.33	0.42
BH304(16-20)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH304(30-34)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH304(48-54)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH305(0-0.5)	<0.33	<0.33	<0.33	<0.33	0.44	<0.33	<0.33	0.37	<0.33	<0.33	<0.33	<0.33	<0.33
BH305(12-14)	6.6	6	14	8.5	14	3.2	<1.6	11	4.2	11	<1.6	<1.6	<1.6
BH305(20-22)	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	11	<1.6	<1.6	<1.6	<1.6	<1.6
BH305(30-34)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.95	<0.33	<0.33	<0.33	<0.33	<0.33
BH305(48-50)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH306(0-0.5)	<0.66	1.1	5.4	1	7.8	1.5	<0.66	<0.66	<0.66	5	<0.66	<0.66	0.71
BH306(8-14)	4.4	3.4	10	11	19	3.1	<1.3	<1.3	1.8	9.6	<1.3	<1.3	2.2
BH306(14-18)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH306(34-38)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH306(49-54)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH307(0-0.5)	<0.33	<0.33	0.48	0.37	0.72	<0.33	<0.33	<0.33	<0.33	0.38	<0.33	<0.33	<0.33
BH307(10-14)	<2.5	6.9	11	6	17	<2.5	<2.5	<2.5	<2.5	11	<2.5	<2.5	<2.5
BH307(18-22)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.73	<0.33	<0.33	<0.33	<0.33	<0.33
BH307(32-36)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH307(49-54)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH308(0-0.5)	<0.33	<0.33	0.59	0.34	0.74	0.34	<0.33	<0.33	<0.33	0.42	<0.33	<0.33	<0.33
BH308(10-15)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.88	<0.33	<0.33	<0.33	<0.33	<0.33
BH308(18-21)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH308(26-30)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH308(49-54)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Semivolatile Organic Compounds - Method 8270(mg/kg)

Perimeter Banks Area

SAMPLE-ID	DIBENZOFURAN	DIETHYL PHTHALATE	2,6-DINITRO TOLUENE	FLUORANTHENE	FLUORENE	INDENO(1,2,3-CD)PYRENE	2-METHYL NAPTHALENE	NAPHTHALENE	PHENANTHRENE	PYRENE
BH300(0-0.5)	<0.33	<0.33	<0.33	1.2	<0.33	0.63	<0.33	<0.33	0.76	1.1
BH300(12-14)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH300(18-20)	<0.33	<0.33	<0.33	0.69	<0.33	<0.33	<0.33	<0.33	0.6	0.51
BH300(28-30)	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66
BH301(0-0.5)	<0.33	0.15	<0.33	0.23	<0.33	<0.33	<0.33	<0.33	0.14	0.2
BH301(8-12)	1.5	<0.33	<0.33	2.3	1.7	0.6	<0.33	0.21	2.4	1.7
BH301(16-20)	0.13	<0.33	<0.33	0.83	0.19	0.25	0.13	0.43	0.81	0.64
BH301(26-30)	0.8	<0.33	<0.33	5.1	1.1	1.1	<0.33	0.3	5.4	3.7
BH301(35-40)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH302(0-0.5)	<0.33	<0.33	<0.33	0.43	<0.33	<0.33	<0.33	<0.33	<0.33	0.39
BH302(6-10)	<0.33	<0.33	<0.33	1.2	<0.33	0.46	<0.33	<0.33	0.43	1.2
BH302(10-14)	<0.66	<0.66	<0.66	5.1	0.76	2	<0.66	10	5.1	7.4
BH302(30-36)	<0.33	<0.33	<0.33	0.36	<0.33	<0.33	<0.33	0.5	0.61	<0.33
BH302(43-48)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH303(0-0.5)	<0.33	<0.33	<0.33	0.84	<0.33	0.36	<0.33	<0.33	0.82	1.1
BH303(6-10)	<0.33	<0.33	<0.33	0.85	<0.33	0.66	<0.33	<0.33	0.45	1.4
BH303(10-12)	0.72	<0.33	<0.33	2.4	1	1.8	<0.33	0.98	3.4	7.4
BH303(28-30)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH303(44-46)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH304(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.36
BH304(10-14)	<0.33	<0.33	<0.33	2	<0.33	1.1	<0.33	<0.33	1.5	3.6
BH304(16-20)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH304(30-34)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH304(48-54)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH305(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH305(12-14)	4.1	<1.6	<1.6	18	5.4	4.7	1.9	3.3	23	19
BH305(20-22)	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
BH305(30-34)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH305(48-50)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH306(0-0.5)	<0.66	<0.66	<0.66	7.8	<0.66	1.5	<0.66	<0.66	8.3	8.1
BH306(8-14)	4.3	<1.3	<1.3	19	6	3.8	1.7	3.9	19	14
BH306(14-18)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH306(34-38)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH306(49-54)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH307(0-0.5)	<0.33	<0.33	<0.33	0.75	<0.33	<0.33	<0.33	<0.33	0.73	0.8
BH307(10-14)	2.8	<2.5	<2.5	31	<2.5	<2.5	<2.5	6.1	31	26
BH307(18-22)	<0.33	<0.33	<0.33	0.45	<0.33	<0.33	<0.33	<0.33	0.58	0.41
BH307(32-36)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH307(49-54)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH308(0-0.5)	<0.33	<0.33	<0.33	0.86	<0.33	0.41	<0.33	<0.33	0.63	0.84
BH308(10-15)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH308(18-21)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH308(26-30)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH308(49-54)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Semivolatile Organic Compounds - Method 8270(mg/kg)

Perimeter Banks Area

SAMPLE-ID	ACENAPHTHENE	ANTHRACENE	BENZO(A) ANTHRACENE	BENZO(A) PYRENE	BENZO(B) FLUORANTHENE	BENZO(G,H,I) PERYLENE	BENZO(K) FLUORANTHENE	BIS(2-ETHYLHEX) PHTHALATE	CARBAZOLE	CHRYSENE	DI-N-BUTYL PHTHALATE	DI-N-OCTYL PHTHALATE	DIBENZO(A,H) ANTHRACENE
BH309(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.1	<0.33	0.1	<0.33	<0.33	<0.33
BH309(10-13)	0.24	0.64	0.68	0.56	0.67	<0.33	0.38	0.66	0.13	1.6	<0.33	<0.33	<0.33
BH309(16-20)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.12	<0.33	<0.33	<0.33	<0.33	<0.33
BH309(38-42)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH309(50-54)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH310(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.15	<0.33	<0.33	<0.33	<0.33	<0.33
BH310(8-13)	<0.33	0.19	0.4	<0.33	0.4	<0.33	0.27	0.28	<0.33	0.61	<0.33	<0.33	<0.33
BH310(16-20)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH310(36-40)	<0.33	0.28	0.25	0.19	0.27	0.11	0.27	0.18	<0.33	0.38	<0.33	<0.33	<0.33
BH310(51-56)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH311(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.044	<0.33	<0.33	<0.33	<0.33	<0.33
BH311(10-14)	0.17	1.4	0.58	0.3	0.39	0.23	0.34	0.36	0.089	1.6	<0.33	<0.33	<0.33
BH311(20-23.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.08	<0.33	<0.33	<0.33	<0.33	<0.33
BH311(38-42)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.14	<0.33	<0.33	<0.33	<0.33	<0.33
BH311(52-56)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.86	<0.33	<0.33	<0.33	<0.33	<0.33
BH312(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.65	<0.33	<0.33	<0.33	<0.33	<0.33
BH312(6-12)	0.077	0.31	0.53	0.46	0.41	0.27	0.35	1.9	0.12	0.62	<0.33	<0.33	0.054
BH312(16-20)	<0.33	<0.33	<0.33	0.12	<0.33	<0.33	<0.33	0.094	<0.33	<0.33	<0.33	<0.33	<0.33
BH312(36-40)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.26	<0.33	<0.33	<0.33	<0.33	<0.33
BH312(53-58)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.087	<0.33	<0.33	<0.33	<0.33	<0.33
BH313(0-0.5)	<0.33	<0.33	0.098	0.1	0.12	0.075	0.13	0.092	<0.33	0.13	<0.33	0.13	<0.33
BH313(6-10)	0.19	0.85	1.7	1.4	2	1.6	1.9	0.41	<0.33	3.2	<0.33	<0.33	<0.33
BH313(16-20)	<0.33	<0.33	<0.33	0.13	<0.33	<0.33	<0.33	0.16	<0.33	<0.33	<0.33	0.059	<0.33
BH313(26-30)	<0.33	0.041	0.06	<0.33	0.06	<0.33	0.054	0.18	<0.33	0.079	<0.33	<0.33	<0.33
BH313(54-57)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.063	<0.33	<0.33	<0.33	<0.33	<0.33
BH314(0-1)	0.2	0.61	1.6	1.6	3.9	0.64	3.3	0.26	0.16	2.2	0.095	0.043	0.069
BH314(4-8)	0.065	0.46	0.62	0.65	0.93	0.12	0.79	0.98	<0.33	0.96	<0.33	<0.33	<0.33
BH314(16-22)	<0.33	<0.33	<0.33	0.08	<0.33	<0.33	<0.33	0.064	<0.33	<0.33	<0.33	<0.33	<0.33
BH314(40-44)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.12	<0.33	<0.33	<0.33	<0.33	<0.33
BH314(55-60)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.036	<0.33	<0.33	<0.33	<0.33	<0.33
BH315(0-0.5)	0.063	0.14	<0.33	0.34	0.59	0.27	0.35	0.32	0.078	0.47	<0.33	0.069	<0.33
BH315(10-14)	0.05	0.091	0.12	0.097	0.21	<0.33	0.14	0.6	<0.33	0.19	<0.33	<0.33	<0.33
BH315(16-20)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.16	<0.33	<0.33	<0.33	<0.33	<0.33
BH315(48-52)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.081	<0.33	<0.33	<0.33	<0.33	<0.33
BH315(59-64)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.047	<0.33	<0.33	<0.33	<0.33	<0.33
BH316(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.075	<0.33	<0.33	<0.33	<0.33	<0.33
BH316(6-10)	0.51	0.64	1.5	1.5	1.3	1.4	1.3	<0.4	<0.4	3	<0.4	<0.4	<0.4
BH316(16-20)	<0.33	<0.33	<0.33	0.035	<0.33	<0.33	<0.33	0.022	<0.33	<0.33	<0.33	<0.33	<0.33
BH316(38-42)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.041	<0.33	<0.33	<0.33	<0.33	<0.33
BH316(58-64)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.031	<0.33	<0.33	<0.33	<0.33	<0.33
BH317(0-0.5)	0.58	1.1	1.8	0.6	3.6	1.5	2.2	0.27	0.68	2.5	<0.33	<0.33	0.4
BH317(14-18)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH317(19-20.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.064	<0.33	<0.33	<0.33	<0.33	<0.33
BH317(38-42)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.093	<0.33	<0.33	<0.33	<0.33	<0.33
BH317(56-60)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Semivolatile Organic Compounds - Method 8270(mg/kg)

Perimeter Banks Area

SAMPLE-ID	DIBENZOFURAN	DIETHYL PHTHALATE	2,6-DINITRO TOLUENE	FLUORANTHENE	FLUORENE	INDENO(1,2,3-CD)PYRENE	2-METHYL NAPTHALENE	NAPHTHALENE	PHENANTHRENE	PYRENE
BH309(0-0.5)	<0.33	<0.33	<0.33	0.18	<0.33	<0.33	<0.33	<0.33	<0.33	0.17
BH309(10-13)	0.14	<0.33	<0.33	1.9	0.5	0.37	0.51	0.22	2.6	1.9
BH309(16-20)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH309(38-42)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH309(50-54)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH310(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH310(8-13)	<0.33	<0.33	<0.33	0.8	<0.33	0.24	0.18	<0.33	0.77	0.92
BH310(16-20)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH310(36-40)	<0.33	<0.33	<0.33	0.59	0.099	0.11	0.14	<0.33	0.59	0.63
BH310(51-56)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH311(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH311(10-14)	0.11	<0.33	<0.33	1.2	0.22	0.23	0.14	0.069	1.3	1.5
BH311(20-23.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH311(38-42)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH311(52-56)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH312(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH312(6-12)	0.063	<0.33	<0.33	1.2	<0.33	<0.33	0.043	0.046	1	1
BH312(16-20)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH312(36-40)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH312(53-58)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH313(0-0.5)	<0.33	<0.33	<0.33	0.18	<0.33	0.064	<0.33	<0.33	0.14	0.21
BH313(6-10)	0.36	<0.33	<0.33	4.3	<0.33	1.6	0.082	0.14	2.8	4.4
BH313(16-20)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH313(26-30)	<0.33	<0.33	<0.33	0.14	<0.33	<0.33	<0.33	<0.33	0.13	0.14
BH313(54-57)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH314(0-1)	0.18	<0.33	<0.33	0.61	0.11	0.71	0.18	<0.33	0.56	4.1
BH314(4-8)	<0.33	<0.33	<0.33	1.2	0.23	0.11	0.097	0.085	1.2	1.4
BH314(16-22)	<0.33	0.036	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH314(40-44)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH314(55-60)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH315(0-0.5)	<0.33	<0.33	<0.33	0.72	<0.33	0.3	<0.33	<0.33	0.51	0.72
BH315(10-14)	<0.33	0.083	<0.33	0.26	<0.33	0.077	<0.33	<0.33	0.21	0.28
BH315(16-20)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.08
BH315(48-52)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH315(59-64)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH316(0-0.5)	<0.33	0.017	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH316(6-10)	<0.4	<0.4	<0.4	3.1	0.57	1	<0.4	<0.4	4.7	3
BH316(16-20)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH316(38-42)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH316(58-64)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH317(0-0.5)	0.27	<0.33	<0.33	7.2	0.52	1.8	0.12	0.15	4.8	3.9
BH317(14-18)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH317(19-20.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH317(38-42)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH317(56-60)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Semivolatile Organic Compounds - Method 8270(mg/kg)

Perimeter Banks Area

SAMPLE-ID	ACENAPHTHENE	ANTHRACENE	BENZO(A) ANTHRACENE	BENZO(A) PYRENE	BENZO(B) FLUORANTHENE	BENZO(G,H,I) PERYLENE	BENZO(K) FLUORANTHENE	BIS(2-ETHYLHEX) PHTHALATE	CARBAZOLE	CHRYSENE	DI-N-BUTYL PHTHALATE	DI-N-OCTYL PHTHALATE	DIBENZO(A,H) ANTHRACENE
BH318(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	N/A	<0.33	<0.33	<0.33	<0.33
BH318(6-12)	<0.33	1.6	1.2	0.52	1.8	<0.33	<0.33	0.4	N/A	0.7	<0.33	<0.33	<0.33
BH318(18-22)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	N/A	<0.33	<0.33	<0.33	<0.33
BH318(40-44)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	N/A	<0.33	<0.33	<0.33	<0.33
BH318(58-64)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	N/A	<0.33	<0.33	<0.33	<0.33
BH319(0-0.5)	<0.33	0.023	0.042	0.044	0.063	0.033	0.028	0.12	<0.33	0.059	<0.33	<0.33	<0.33
BH319(14-18)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.14	<0.33	<0.33	<0.33	<0.33	<0.33
BH319(20-23)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.025	<0.33	<0.33	<0.33	<0.33	<0.33
BH319(42-44)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.047	<0.33	<0.33	<0.33	<0.33	<0.33
BH319(59-62)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH320(0-0.5)	<0.33	<0.33	0.056	0.063	0.075	0.05	0.052	0.1	<0.33	0.084	<0.33	0.1	<0.33
BH320(6-10)	0.022	0.067	0.076	0.09	0.14	0.056	0.08	0.081	0.022	0.094	<0.33	<0.33	<0.33
BH320(16-21)	<0.33	<0.33	<0.33	0.043	<0.33	<0.33	<0.33	0.03	<0.33	<0.33	<0.33	<0.33	<0.33
BH320(38-42)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.12	<0.33	<0.33	<0.33	<0.33	<0.33
BH320(57-60)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.097	<0.33	<0.33	<0.33	<0.33	<0.33
BH322(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH322(2-4)	<3.3	3.9	9.8	6.9	12	4.8	<3.3	<3.3	<3.3	8.2	<3.3	<3.3	<3.3
BH322(16-18)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH322(50-52)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH322(58-62)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH324(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.027	<0.33	<0.33	<0.33
BH324(8-12)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.13	<0.33	<0.33	<0.33	<0.33	<0.33
BH324(14-18)	<0.33	<0.33	<0.33	0.042	<0.33	<0.33	<0.33	0.087	<0.33	<0.33	<0.33	<0.33	<0.33
BH324(36-40)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.051	<0.33	<0.33	<0.33	<0.33	<0.33
BH324(55-60)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.21	<0.33	<0.33	0.019	0.026	<0.33
BH326(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH326(6-8)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH326(18-20)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH326(42-44)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH326(48-50)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.046	<0.33	<0.33	<0.33	<0.33	<0.33
BH328(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH328(6-8)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH328(18-20)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH328(36-40)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.094	<0.33	<0.33	<0.33	<0.33	<0.33
BH328(55-58)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH330(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.73	<0.33	<0.33	<0.33	<0.33	<0.33
BH330(4-6)	<0.33	0.062	0.031	<0.33	0.029	<0.33	0.029	0.037	<0.33	0.033	<0.33	<0.33	<0.33
BH330(18-20)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH330(38-40)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH330(57-62)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH332(0-0.5)	<0.33	<0.33	0.027	<0.33	0.025	<0.33	0.019	0.17	<0.33	0.03	<0.33	<0.33	<0.33
BH332(1-4)	0.06	0.18	0.26	0.24	0.31	0.16	0.22	0.16	<0.33	0.34	<0.33	<0.33	0.052
BH332(10-13)	0.13	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.61	<0.33	<0.33	0.21	<0.33	<0.33
BH332(22-24)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.023	<0.33	<0.33	<0.33	<0.33	<0.33
BH332(46-50)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.1	<0.33	<0.33	0.02	<0.33	<0.33
BH332(68-70)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Semivolatile Organic Compounds - Method 8270(mg/kg)

Perimeter Banks Area

SAMPLE-ID	DIBENZOFURAN	DIETHYL PHTHALATE	2,6-DINITRO TOLUENE	FLUORANTHENE	FLUORENE	INDENO(1,2,3-CD)PYRENE	2-METHYL NAPTHALENE	NAPHTHALENE	PHENANTHRENE	PYRENE
BH318(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH318(6-12)	<0.33	<0.33	<0.33	3.2	<0.33	<0.33	<0.33	<0.33	1.7	1.8
BH318(18-22)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH318(40-44)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH318(58-64)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH319(0-0.5)	<0.33	<0.33	<0.33	0.088	<0.33	0.038	<0.33	<0.33	0.092	0.087
BH319(14-18)	<0.33	<0.33	<0.33	0.036	<0.33	<0.33	<0.33	<0.33	<0.33	0.043
BH319(20-23)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH319(42-44)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH319(59-62)	<0.33	0.035	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH320(0-0.5)	<0.33	<0.33	<0.33	0.1	<0.33	0.051	<0.33	<0.33	0.087	0.13
BH320(6-10)	<0.33	<0.33	<0.33	0.3	0.034	0.071	<0.33	<0.33	0.27	0.15
BH320(16-21)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH320(38-42)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH320(57-60)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH322(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH322(2-4)	<3.3	<3.3	<3.3	18	<3.3	3.3	<3.3	<3.3	16	16
BH322(16-18)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH322(50-52)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH322(58-62)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH324(0-0.5)	<0.33	<0.33	<0.33	0.039	<0.33	<0.33	<0.33	<0.33	0.035	0.042
BH324(8-12)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH324(14-18)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH324(36-40)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH324(55-60)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH326(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH326(6-8)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH326(18-20)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH326(42-44)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH326(48-50)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH328(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH328(6-8)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH328(18-20)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH328(36-40)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH328(55-58)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH330(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH330(4-6)	<0.33	<0.33	<0.33	0.065	<0.33	<0.33	<0.33	<0.33	0.054	0.033
BH330(18-20)	<0.33	0.74	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH330(38-40)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH330(57-62)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH332(0-0.5)	<0.33	<0.33	<0.33	0.072	<0.33	<0.33	<0.33	<0.33	0.053	0.057
BH332(1-4)	<0.33	<0.33	<0.33	0.6	0.077	0.17	<0.33	<0.33	0.74	0.57
BH332(10-13)	<0.33	<0.33	<0.33	0.12	<0.33	<0.33	<0.33	<0.33	0.13	0.11
BH332(22-24)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH332(46-50)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH332(68-70)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Semivolatile Organic Compounds - Method 8270(mg/kg)

Perimeter Banks Area

SAMPLE-ID	ACENAPHTHENE	ANTHRACENE	BENZO(A) ANTHRACENE	BENZO(A) PYRENE	BENZO(B) FLUORANTHENE	BENZO(G,H,I) PERYLENE	BENZO(K) FLUORANTHENE	BIS(2-ETHYLHEX) PHTHALATE	CARBAZOLE	CHRYSENE	DI-N-BUTYL PHTHALATE	DI-N-OCTYL PHTHALATE	DIBENZO(A,H) ANTHRACENE
BH333(0.5-1)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.21	<0.33	0.026	0.026	<0.33	<0.33
BH333(16-18)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.027	<0.33	<0.33	<0.33	<0.33	<0.33
BH333(20-22)	<0.33	<0.33	<0.33	0.049	<0.33	<0.33	<0.33	0.058	<0.33	<0.33	<0.33	<0.33	<0.33
BH333(40-44)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.027	<0.33	<0.33	<0.33	<0.33	<0.33
BH333(63-68)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH334(0-1)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	N/A	<0.33	<0.33	<0.33	<0.33
BH334(18-20)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	N/A	<0.33	<0.33	<0.33	<0.33
BH334(22-26)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	N/A	<0.33	<0.33	<0.33	<0.33
BH334(44-48)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	N/A	<0.33	<0.33	<0.33	<0.33
BH334(63-68)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	N/A	<0.33	<0.33	<0.33	<0.33
BH335(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.5	<0.33	<0.33
BH335(20-22)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH335(22-26)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH335(42-46)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.34	<0.33	<0.33	<0.33	<0.33	<0.33
BH335(63-68)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	3.7	<0.33	<0.33	<0.33	<0.33	<0.33
BH336(0-0.5)	<0.33	<0.33	<0.33	<0.33	0.41	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH336(20-22)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH336(44-46)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	1.7	<0.33	<0.33	<0.33	<0.33	<0.33
BH336(62-68)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH337(0-0.5)	<0.33	0.037	0.073	0.06	0.068	0.042	0.056	0.094	<0.33	0.086	<0.33	<0.33	<0.33
BH337(14-18)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.054	<0.33	<0.33	<0.33	<0.33	<0.33
BH337(20-24)	<0.33	0.046	0.079	0.082	0.091	0.058	0.061	0.11	<0.33	0.092	<0.33	<0.33	<0.33
BH337(44-46)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.2	<0.33	<0.33	<0.33	<0.33	<0.33
BH337(62-68)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Semivolatile Organic Compounds - Method 8270(mg/kg)

Perimeter Banks Area

SAMPLE-ID	DIBENZOFURAN	DIETHYL PHTHALATE	2,6-DINITRO TOLUENE	FLUORANTHENE	FLUORENE	INDENO(1,2,3-CD)PYRENE	2-METHYL NAPTHALENE	NAPHTHALENE	PHENANTHRENE	PYRENE
BH333(0.5-1)	<0.33	<0.33	<0.33	0.031	<0.33	<0.33	<0.33	<0.33	0.032	0.038
BH333(16-18)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH333(20-22)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH333(40-44)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH333(63-68)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH334(0-1)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH334(18-20)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH334(22-26)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH334(44-48)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH334(63-68)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH335(0-0.5)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH335(20-22)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH335(22-26)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH335(42-46)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH335(63-68)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH336(0-0.5)	<0.33	<0.33	0.47	0.62	<0.33	<0.33	<0.33	<0.33	<0.33	0.48
BH336(20-22)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH336(44-46)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH336(62-68)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH337(0-0.5)	<0.33	<0.33	<0.33	0.15	<0.33	0.043	<0.33	<0.33	0.11	0.14
BH337(14-18)	<0.33	<0.33	<0.33	0.049	<0.33	<0.33	<0.33	<0.33	0.71	0.05
BH337(20-24)	<0.33	<0.33	<0.33	0.18	<0.33	<0.33	<0.33	<0.33	0.75	0.17
BH337(44-46)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
BH337(62-68)	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Volatile Organic Compounds - Methods 8260/8240(mg/kg)

Perimeter Banks Area

SAMPLE-ID	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	ACETONE	2-BUTANONE	CHLORO-BENZENE	1,2-DCE	2-HEXANONE	METHYLENE CHLORIDE	1,1,1-TCA	1,1,2-TCA	TCE	VINYL CHLORIDE
BH300(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH300(12-14)	<0.01	<0.01	<0.01	<0.03	21	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH300(18-20)	<0.01	<0.01	0.011	<0.03	7.4	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH300(28-30)	<0.01	<0.01	<0.01	<0.03	8	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH301(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH301(8-12)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH301(16-20)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH301(26-30)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH301(35-40)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH302(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH302(6-10)	<0.01	<0.01	<0.01	<0.03	0.46	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH302(10-14)	<0.01	<0.01	<0.01	<0.03	29	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH302(30-36)	<0.01	<0.01	<0.01	<0.03	11	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH302(43-48)	<0.01	<0.01	<0.01	<0.03	0.15	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH303(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH303(6-10)	<0.01	<0.01	<0.01	<0.03	0.65	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH303(10-12)	<0.01	0.019	<0.01	<0.03	2.5	0.11	<0.01	0.012	<0.1	0.035	<0.01	<0.01	<0.01	<0.01
BH303(28-30)	<0.01	<0.01	<0.01	<0.03	0.69	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH303(44-46)	<0.01	<0.01	<0.01	<0.03	0.33	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH304(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH304(10-14)	<0.01	<0.01	<0.01	<0.03	24	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH304(16-20)	<0.01	<0.01	<0.01	<0.03	0.18	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH304(30-34)	<0.01	<0.01	<0.01	<0.03	0.55	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH304(48-54)	<0.01	<0.01	<0.01	<0.03	0.31	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH305(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH305(12-14)	<0.01	<0.01	<0.01	<0.03	0.82	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH305(20-22)	<0.01	<0.01	<0.01	<0.03	0.22	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH305(30-34)	<0.01	<0.01	<0.01	<0.03	0.44	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH305(48-50)	<0.01	<0.01	<0.01	<0.03	18	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH306(0-0.5)	<0.01	<0.01	<0.01	<0.03	0.38	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH306(8-14)	<0.01	<0.01	<0.01	<0.03	63	<0.1	<0.01	<0.01	<0.1	0.021	<0.01	<0.01	<0.01	<0.01
BH306(14-18)	<0.01	<0.01	<0.01	<0.03	3.3	<0.1	<0.01	<0.01	<0.1	0.024	<0.01	<0.01	<0.01	<0.01
BH306(34-38)	<0.01	<0.01	<0.01	<0.03	1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH306(49-54)	<0.01	<0.01	<0.01	<0.03	0.33	<0.1	<0.01	<0.01	<0.1	0.011	<0.01	<0.01	<0.01	<0.01
BH307(0-0.5)	<0.01	<0.01	<0.01	<0.03	0.12	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH307(18-22)	<0.01	<0.01	<0.01	<0.03	0.47	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH307(32-36)	N/A	<0.01	<0.01	<0.03	25	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH307(49-54)	<0.01	<0.01	<0.01	<0.03	0.8	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH308(0-0.5)	<0.01	<0.01	<0.01	<0.03	1.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH308(10-15)	<0.01	<0.01	<0.01	<0.03	0.2	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH308(18-21)	<0.01	<0.01	<0.01	<0.03	0.64	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH308(26-30)	<0.01	<0.01	<0.01	<0.03	0.29	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH308(49-54)	<0.01	<0.01	<0.01	<0.03	0.83	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH309(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH309(10-13)	0.028	<0.01	0.17	1.23	<0.1	<0.1	0.064	0.68	<0.1	<0.01	<0.01	0.31	<0.01	0.063
BH309(16-20)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH309(38-42)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH309(50-54)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Volatile Organic Compounds - Methods 8260/8240(mg/kg)

Perimeter Banks Area

SAMPLE-ID	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	ACETONE	2-BUTANONE	CHLORO-BENZENE	1,2-DCE	2-HEXANONE	METHYLENE CHLORIDE	1,1,1-TCA	1,1,2-TCA	TCE	VINYL CHLORIDE
BH310(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH310(8-13)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	1.8	<0.01	<0.01	<0.01	<0.01	<0.01
BH310(16-20)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH310(36-40)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH310(51-56)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH311(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH311(10-14)	0.02	0.033	0.04	0.092	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH311(20-23.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH311(38-42)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH311(52-56)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH312(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH312(6-12)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH312(16-20)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH312(36-40)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH312(53-58)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH313(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<100	<0.01	<0.01	<0.01	<0.01	<0.01
BH313(6-10)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH313(16-20)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH313(26-30)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH313(54-57)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH314(0-1)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH314(4-8)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH314(16-22)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH314(40-44)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH314(55-60)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH315(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH315(10-14)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH315(16-20)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH315(48-52)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH315(59-64)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH316(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH316(6-10)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH316(16-20)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH316(38-42)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH316(58-64)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH317(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	0.02	<0.01
BH317(14-18)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH317(19-20.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH317(38-42)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH317(56-60)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH318(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH318(6-12)	<0.01	<0.01	<0.01	<0.03	2.4	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH318(18-22)	<0.01	<0.01	<0.01	<0.03	0.54	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH318(40-44)	<0.01	<0.01	<0.01	<0.03	0.23	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH318(58-64)	<0.01	<0.01	<0.01	<0.03	0.23	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Volatile Organic Compounds - Methods 8260/8240(mg/kg)

Perimeter Banks Area

MPLE-ID	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	ACETONE	2-BUTANONE	CHLORO-BENZENE	1,2-DCE	2-HEXANONE	METHYLENE CHLORIDE	1,1,1-TCA	1,1,2-TCA	TCE	VINYL CHLORIDE
BH319(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH319(14-18)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH319(20-23)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH319(42-44)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH319(59-62)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH320(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH320(6-10)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH320(16-21)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH320(38-42)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH320(57-60)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH322(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	0.013	<0.01	<0.01	<0.01	<0.01
BH322(2-4)	<0.1	<0.1	<0.1	<0.03	4.7	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1
BH322(16-18)	<0.01	<0.01	<0.01	<0.03	0.28	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH324(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH324(8-12)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH324(14-18)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH324(36-40)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH324(55-60)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH326(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH326(6-8)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH326(18-20)	<0.01	<0.01	<0.01	<0.02	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BH326(42-44)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
)26(48-50)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
28(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH328(6-8)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH328(18-20)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH328(36-40)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH328(55-58)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH330(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH330(4-6)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH330(18-20)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH330(38-40)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH330(57-62)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH332(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH332(1-4)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH332(10-13)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH332(22-24)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH332(46-50)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH332(68-70)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH333(0.5-1)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH333(16-18)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH333(20-22)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH333(40-44)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH333(63-68)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Volatile Organic Compounds - Methods 8260/8240(mg/kg)

Perimeter Banks Area

SAMPLE-ID	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	ACETONE	2-BUTANONE	CHLORO-BENZENE	1,2-DCE	2-HEXANONE	METHYLENE CHLORIDE	1,1,1-TCA	1,1,2-TCA	TCE	VINYL CHLORIDE
BH334(0-1)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH334(18-20)	<0.01	<0.01	<0.01	<0.03	8.6	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH334(22-26)	<0.01	<0.01	<0.01	<0.03	0.44	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH334(44-48)	<0.01	<0.01	<0.01	<0.03	2.4	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH334(63-68)	<0.01	<0.01	<0.01	<0.03	0.12	<0.1	<0.01	<0.01	<0.1	0.016	<0.01	<0.01	<0.01	<0.01
BH335(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH335(20-22)	<0.01	<0.01	<0.01	<0.03	0.39	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH335(22-26)	<0.01	<0.01	<0.01	<0.03	0.97	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH335(42-46)	<0.01	<0.01	<0.01	<0.03	0.15	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH335(63-68)	<0.01	<0.01	<0.01	<0.03	0.55	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH336(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH336(20-22)	<0.01	<0.01	<0.01	<0.03	<0.5	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH336(22-24)	<0.01	<0.01	<0.01	<0.03	0.68	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH336(44-46)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH336(62-68)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH337(0-0.5)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH337(14-18)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH337(20-24)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH337(44-46)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
BH337(62-68)	<0.01	<0.01	<0.01	<0.03	<0.1	<0.1	<0.01	<0.01	<0.1	<0.01	0.014	<0.01	<0.01	<0.01

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Metals (mg/kg)
Perimeter Banks Area

AMPLE-ID	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	CYANIDE	IRON	LEAD	MAGNESIUM
BH300(0-0.5)	6,000	0.69	2.7	78	<1	<0.25	55,000	12	<10	18	<0.1	10,000	34	22,000
BH300(0-0.5)	6,000	0.69	2.7	78	<1	<0.25	55,000	12	<10	18	<0.1	10,000	34	22,000
BH300(12-14)	8,500	<0.5	3.1	110	<1	<0.25	85,000	15	<10	10	<0.1	16,000	11	28,000
BH300(18-20)	6,500	<0.5	2.2	96	<1	0.09	75,000	12	<10	9.7	<0.1	10,000	6	22,000
BH300(28-30)	5,600	0.57	15	86	<1	0.11	16,000	8.2	<10	6.7	<0.1	7,400	7.4	3,600
BH301(0-0.5)	8,680	<0.5	3.1	52	0.37	3.5	63,600	13	4	15	<0.1	9,510	18	21,500
BH301(8-12)	9,530	<0.5	3.1	76	0.39	5	92,400	13	5	10	<0.1	13,600	8	25,900
BH301(16-20)	6,200	<0.5	3.2	37	0.27	2.4	47,000	8.5	4	7	<0.1	7,990	5	14,300
BH301(26-30)	6,970	<0.5	5.1	54	0.31	3.5	64,300	9.3	4.7	8	<0.1	11,200	6	16,800
BH301(35-40)	9,650	<0.5	2.4	49	0.4	3.1	69,100	13	6	13	<0.1	13,000	8	28,400
BH302(0-0.5)	5,700	<0.5	2.7	87	<1	0.37	52,000	13	<10	18	1.1	8,400	23	18,000
BH302(6-10)	6,400	<0.5	3.4	150	<1	0.35	24,000	17	<10	18	2.6	11,000	28	8,200
BH302(10-14)	7,300	<0.5	4.7	85	<1	0.52	120,000	13	<10	14	<0.1	13,000	16	27,000
BH302(30-36)	1,900	<0.5	0.81	48	<1	<0.05	9,900	5.8	<10	5.4	<0.1	3,200	6	5,300
BH302(43-48)	8,100	0.67	3.3	87	<1	0.07	72,000	15	<10	15	<0.1	14,000	6.2	29,000
BH303(0-0.5)	4,900	<0.5	6.6	110	<1	0.57	79,000	15	<10	29	19	11,000	15	21,000
BH303(6-10)	4,100	<0.5	3.4	180	<1	0.56	60,000	14	<10	73	<0.1	16,000	28	18,000
BH303(10-12)	7,000	0.63	6	270	1.8	9.3	41,000	110	<10	220	2	15,000	260	14,000
BH303(28-30)	1,100	<0.5	0.92	37	<1	0.06	2,400	<2.5	<10	4.4	<0.1	1,600	3.3	<1000
BH303(44-46)	5,600	0.64	3.9	69	<1	0.3	72,000	11	<10	14	<0.1	10,000	7.1	29,000
BH304(0-0.5)	6,000	0.75	2.7	77	<1	0.33	75,000	18	<10	25	2.3	9,300	11	29,000
BH304(10-14)	4,000	0.51	5.1	180	<1	0.5	22,000	12	<10	41	0.13	8,000	130	6,200
BH304(16-20)	7,400	<0.5	7.7	95	<1	0.53	102,000	18	<10	12	<0.1	14,000	11	26,000
3H304(30-34)	3,800	<0.5	1	52	<1	0.08	22,400	6.9	<10	7.8	0.63	7,000	7.4	17,000
H304(48-54)	6,100	<0.5	4.9	72	<1	0.35	69,000	12	<10	14	<0.1	11,000	9.7	31,000
BH305(0-0.5)	3,500	0.75	4.3	67	<1	0.98	36,000	18	<10	33	1.6	8,500	22	9,300
BH305(12-14)	5,300	0.78	9.1	170	<1	0.77	63,000	20	<10	45	0.4	20,000	240	16,000
BH305(20-22)	4,900	<0.5	5.3	120	<1	2.1	53,000	69	<10	92	0.85	20,000	69	14,000
BH305(30-34)	1,600	<0.5	0.75	37	<1	<0.05	22,500	3.6	<10	7.8	0.22	3,100	2.6	3,100
BH305(48-50)	8,400	<0.5	5.3	67	<1	0.42	85,200	15	<10	15	<0.1	13,000	5.7	29,000
BH306(0-0.5)	7,900	2.2	17	260	<1	0.91	59,800	190	<10	140	110	61,000	89	21,000
BH306(8-14)	2,500	0.78	5.1	58	<1	1.5	25,100	7.9	<10	11	29	7,400	8	7,600
BH306(14-18)	7,000	<0.5	5.3	94	<1	0.15	95,800	12	<10	11	0.66	14,000	5.7	24,000
BH306(34-38)	5,300	0.68	5.9	62	<1	0.79	59,400	28	<10	23	2.3	17,000	11	26,000
BH306(49-54)	7,800	0.99	3.1	73	<1	0.32	79,700	14	<10	15	<0.1	12,000	6.5	30,000
BH307(0-0.5)	5,990	0.6	3.1	111	<1	0.27	57,000	24	<10	42	<0.1	11,700	34	14,800
BH307(10-14)	10,200	<0.5	21	308	<1	32	45,600	191	<10	235	123	32,700	221	14,600
BH307(18-22)	4,900	0.78	6.1	155	<1	0.24	78,300	15	<10	53	6.4	12,300	24	19,000
BH307(32-36)	6,300	<0.5	3.1	72	<1	0.12	66,900	11	<10	13	0.29	12,100	8.1	29,700
BH307(49-54)	6,840	<0.5	3.6	78	<1	0.1	93,100	14	<10	15	<0.1	11,600	6.8	32,500
BH308(0-0.5)	4,760	<0.5	5	82	<1	0.58	116,000	14	<10	78	2	10,800	32	30,900
BH308(10-15)	1,330	1.4	1.4	44	<1	0.18	36,900	8.3	<10	17	<0.1	4,170	10	4,710
BH308(18-21)	7,190	<0.5	6.1	127	<1	0.16	104,000	13	<10	12	<0.1	13,100	7.7	27,600
BH308(26-30)	1,550	<0.5	1.2	36	<1	<0.05	24,300	3.5	<10	6.1	<0.1	4,640	2.6	7,620
BH308(49-54)	6,630	<0.5	9.7	75	<1	0.09	95,900	12	<10	15	<0.1	11,100	5.7	34,700

N/A - Not Analyzed for Element

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Metals (mg/kg)
Perimeter Banks Area

SAMPLE-ID	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	TIN	VANADIUM	ZINC
BH300(0-0.5)	200	<0.1	12	1,100	<0.5	<0.5	<1000	N/A	16	58
BH300(0-0.5)	200	<0.1	12	1,100	<0.5	<0.5	<1000	N/A	16	58
BH300(12-14)	590	<0.1	13	1,100	<0.5	<0.5	<1000	N/A	20	58
BH300(18-20)	310	<0.1	11	<1000	<0.5	<0.5	<1000	N/A	16	49
BH300(28-30)	75	<0.1	5.8	<1000	0.6	<0.5	1,200	N/A	16	43
BH301(0-0.5)	180	<0.1	13	2,000	<0.5	<0.5	250	N/A	19	64
BH301(8-12)	450	<0.1	16	1,500	<0.5	<0.5	300	N/A	21	44
BH301(16-20)	220	<0.1	10	1,200	<0.5	<0.5	480	N/A	15	28
BH301(26-30)	430	<0.1	13	1,200	<0.5	<0.5	3,800	N/A	18	27
BH301(35-40)	240	<0.1	18	1,600	<0.5	<0.5	560	N/A	23	36
BH302(0-0.5)	170	<0.1	14	1,400	<0.5	<0.5	<1000	N/A	15	110
BH302(6-10)	170	0.18	16	1,100	<0.5	<0.5	<1000	N/A	17	100
BH302(10-14)	690	<0.1	19	1,300	<0.5	<0.5	1,700	N/A	19	56
BH302(30-36)	58	<0.1	5.1	<1000	<0.5	<0.5	<1000	N/A	<10	43
BH302(43-48)	250	<0.1	16	1,700	<0.5	<0.5	<1000	N/A	23	48
BH303(0-0.5)	500	0.48	23	<1000	<0.5	0.67	<1000	N/A	13	150
BH303(6-10)	330	<0.1	21	<1000	<0.5	<0.5	<1000	N/A	14	79
BH303(10-12)	217	3.5	48	<1000	<0.5	13	<1000	N/A	23	550
BH303(28-30)	34	<0.1	2.4	<1000	<0.5	<0.5	<1000	N/A	<10	21
BH303(44-46)	230	<0.1	13	<1000	<0.5	<0.5	<1000	N/A	16	40
BH304(0-0.5)	170	<0.1	20	1,400	<0.5	<0.5	<1000	N/A	15	180
BH304(10-14)	160	0.49	12	<1000	<0.5	0.52	<1000	N/A	12	190
BH304(16-20)	530	<0.1	14	1,100	<0.5	<0.5	<1000	N/A	19	53
BH304(30-34)	180	<0.1	8.5	<1000	<0.5	<0.5	<1000	N/A	13	37
BH304(48-54)	210	<0.1	15	1,100	<0.5	<0.5	<1000	N/A	19	44
BH305(0-0.5)	180	0.27	28	<1000	<0.5	<0.5	<1000	N/A	<10	380
BH305(12-14)	320	<0.1	18	<1000	<0.5	0.54	<1000	N/A	19	190
BH305(20-22)	310	0.21	43	<1000	<0.5	1.2	<1000	N/A	17	410
BH305(30-34)	58	<0.1	4	<1000	<0.5	<0.5	<1000	N/A	<10	25
BH305(48-50)	240	<0.1	15	1,800	<0.5	<0.5	<1000	N/A	22	40
BH306(0-0.5)	1,200	1.6	160	1,300	1.1	4.9	<1000	N/A	33	2,000
BH306(8-14)	86	0.29	8.8	<1000	<0.5	<0.5	<1000	N/A	<10	69
BH306(14-18)	600	<0.1	16	1,100	<0.5	<0.5	<1000	N/A	17	51
BH306(34-38)	360	<0.1	23	<1000	<0.5	<0.5	<1000	N/A	17	110
BH306(49-54)	240	<0.1	15	1,600	<0.5	<0.5	<1000	N/A	21	40
BH307(0-0.5)	189	0.19	33	<1000	<0.5	1	<1000	N/A	21	555
BH307(10-14)	386	2.1	74	1,950	0.86	19	<1000	N/A	34	612
BH307(18-22)	523	<0.1	18	<1000	<0.5	<0.5	<1000	N/A	13	85
BH307(32-36)	478	<0.1	13	<1000	<0.5	<0.5	<1000	N/A	19	57
BH307(49-54)	233	<0.1	15	1,310	<0.5	<0.5	<1000	N/A	20	45
BH308(0-0.5)	259	0.33	20	<1000	<0.5	<0.5	<1000	N/A	15	1,110
BH308(10-15)	90	<0.1	10	<1000	<0.5	<0.5	<1000	N/A	<10	147
BH308(18-21)	711	<0.1	13	1,120	<0.5	<0.5	<1000	N/A	18	63
BH308(26-30)	108	<0.1	4.4	<1000	<0.5	<0.5	<1000	N/A	<10	24
BH308(49-54)	240	<0.1	14	1,290	<0.5	<0.5	<1000	N/A	18	40

N/A - Not Analyzed for Element

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Metals (mg/kg)
Perimeter Banks Area

SAMPLE-ID	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	CYANIDE	IRON	LEAD	MAGNESIUM
BH300(0-0.5)	6,000	0.69	2.7	78	<1	<0.25	55,000	12	<10	18	<0.1	10,000	34	22,000
BH309(0-0.5)	9,750	<0.5	4	54	0.41	3.4	68,100	15	4.5	21	0.3	10,100	11	21,900
BH309(10-13)	4,230	<0.5	10	64	0.3	2	27,000	12	4	15	0.2	8,270	38	8,860
BH309(16-20)	9,750	<0.5	14	86	0.42	4.7	82,500	13	5.7	12	<0.1	14,400	21	22,500
BH309(38-42)	2,200	<0.5	1.6	11	0.1	1.3	23,300	3	1.5	5	<0.1	3,500	21	6,900
BH309(50-54)	10,800	<0.5	1.1	59	0.42	3.2	78,900	14	6	12	<0.1	12,900	6.1	31,600
BH310(0-0.5)	10,400	<0.5	2.9	55	0.4	3.3	69,500	14	5.1	12	<0.1	9,940	5	25,400
BH310(8-13)	4,470	<0.5	11	50	0.27	2.7	23,000	19	4.3	57	24	15,700	27	10,200
BH310(16-20)	7,730	<0.5	8.6	65	0.36	3.9	74,700	11	6	9	3.6	15,800	6	20,800
BH310(36-40)	2,230	<0.5	2	25	0.14	0.16	17,000	8.2	1.4	7	5.2	3,980	7	5,090
BH310(51-56)	12,400	<0.5	9	71	0.49	2.8	74,300	15	6.1	14	<0.1	13,400	4	32,800
BH311(0-0.5)	11,300	0.8	2.2	57	0.43	2.6	73,500	14	5.3	12	1	10,500	5	28,200
BH311(10-14)	5,940	<0.5	10	38	0.24	1.3	39,000	9.2	5.3	8	<0.1	10,600	6	16,400
BH311(20-23.5)	9,960	0.8	16	79	0.41	4.7	85,000	12	5.7	8	<0.1	15,100	5	23,600
BH311(38-42)	1,100	<0.5	0.8	6	0.06	0.7	14,000	1.9	0.9	<1	<0.1	1,700	<1	3,690
BH311(52-56)	10,600	0.9	3.8	49	0.42	3	71,700	13	5.6	11	<0.1	12,100	6	28,000
BH312(0-0.5)	10,800	<0.5	7	55	0.42	4	83,900	14	5.1	12	<0.1	10,200	3	26,500
BH312(6-12)	9,400	<0.5	19	200	0.92	0.91	20,000	26	5.1	83	7.6	14,800	180	7,700
BH312(16-20)	6,370	<0.5	20	43	0.28	<2	53,100	7.9	4.9	5	<0.1	12,300	4	18,700
BH312(36-40)	1,100	<0.5	0.7	6	<0.05	1	17,000	<2.5	0.9	<1	<0.1	1,900	<1	3,400
BH312(53-58)	8,220	<0.5	1.5	44	0.31	3.1	80,900	11	3.8	8	<0.1	8,080	4	30,200
BH313(0-0.5)	7,500	1	7	46	0.3	2.5	48,000	15	3.3	20	0.2	8,360	12	11,800
BH313(6-10)	4,790	1.9	17	270	0.25	4.1	32,000	250	7.8	420	5.9	54,300	110	9,120
BH313(16-20)	7,850	1.2	27	55	0.34	3.1	62,200	10	5.8	7	<0.1	13,400	5	19,100
BH313(26-30)	2,200	<0.5	3	15	0.12	1.3	21,000	3.3	1.5	3	1.3	3,210	3	4,540
BH313(54-57)	9,660	0.8	4.1	60	0.42	3.2	78,400	13	5.6	12	<0.1	12,200	5	31,200
BH314(0-1)	6,500	2.1	16	130	0.27	5	43,000	230	10	610	6.4	93,700	110	6,470
BH314(4-8)	7,400	1.9	9	390	<0.5	6.6	38,000	170	10	890	104	56,100	350	11,000
BH314(16-22)	7,690	0.8	21	53	0.31	0.2	53,500	9.4	5.1	6	<0.1	12,400	4	17,000
BH314(40-44)	1,400	<0.5	1.6	6	<0.05	2.4	39,000	<2.5	1.5	2	<0.1	2,870	2	6,900
BH314(55-60)	7,200	1.2	1.9	51	0.28	3.1	78,700	8.8	3.4	8	<0.1	7,340	4	30,100
BH315(0-0.5)	8,210	<0.5	7	64	0.34	6.7	90,100	43	3.6	36	0.6	16,500	24	8,550
BH315(10-14)	6,870	<0.5	11	75	0.33	2.2	31,000	23	4.4	44	0.4	12,500	62	10,700
BH315(16-20)	4,950	<0.5	14	38	0.22	0.18	41,000	6.4	4.3	4	<0.1	9,630	3	15,900
BH315(48-52)	1,600	<0.5	1.6	8	0.08	1.8	35,000	<2.5	1.5	<1	<0.1	3,140	2	7,280
BH315(59-64)	10,600	<0.5	9	57	0.39	3.4	84,200	14	5.5	12	<0.1	11,600	5	35,200
BH316(0-0.5)	11,100	<0.5	7	61	0.42	3.2	76,100	19	5.4	15	<0.1	1,100	4	29,100
BH316(6-10)	10,100	<0.5	9	68	0.42	3.3	68,000	24	6	52	0.3	19,200	16	25,000
BH316(16-20)	5,040	<0.5	14	41	0.22	1.5	36,000	6.7	4.1	5	<0.1	9,250	3	14,700
BH316(38-42)	1,200	<0.5	1	6	0.06	2.2	37,000	<2.5	1.2	2	<0.1	2,980	<1	7,100
BH316(58-64)	9,440	<0.5	7	50	0.36	3	74,100	12	5.2	11	<0.1	11,300	4	29,600
BH317(0-0.5)	13,000	1.9	9.4	250	0.32	20	68,900	160	22	750	1.4	95,200	420	13,500
BH317(14-18)	2,600	<0.5	23	22	0.12	1.2	23,000	3.7	3.5	3	<0.1	4,830	2.2	8,260
BH317(19-20.5)	4,750	<0.5	0.8	49	0.21	3.2	60,200	6	3.4	4	<0.1	8,620	4.3	17,200
BH317(38-42)	1,800	0.7	20	8	0.1	3	53,400	<2.5	2	3	<0.1	5,750	3.6	12,800
BH317(56-60)	9,710	0.8	0.4	53	0.4	3	90,000	13	5.4	12	<0.1	14,900	4	30,400

N/A - Not Analyzed for Element

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Metals (mg/kg)
Perimeter Banks Area

SAMPLE-ID	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	TIN	VANADIUM	ZINC
BH300(0-0.5)	200	<0.1	12	1,100	<0.5	<0.5	<1000	N/A	16	58
BH309(0-0.5)	190	<0.1	20	2,500	<0.5	<0.5	300	N/A	20	130
BH309(10-13)	140	2	10	770	<0.5	<0.5	570	N/A	13	130
BH309(16-20)	540	<0.1	14	1,800	<0.5	<0.5	470	N/A	22	52
BH309(38-42)	6,900	<0.1	5	450	<0.5	<0.5	330	N/A	6.8	9
BH309(50-54)	250	<0.1	15	2,600	<0.5	<0.5	730	N/A	26	29
BH310(0-0.5)	190	<0.1	14	2,800	<0.5	<0.5	310	N/A	22	42
BH310(8-13)	220	0.9	25	890	<0.5	<0.5	280	N/A	16	200
BH310(16-20)	440	<0.1	14	1,400	<0.5	<0.5	670	N/A	20	61
BH310(36-40)	75	<0.1	7	420	<0.5	<0.5	500	N/A	5.7	74
BH310(51-56)	260	<0.1	18	3,400	<0.5	<0.5	810	N/A	29	31
BH311(0-0.5)	200	<0.1	15	3,000	<0.5	<0.5	320	N/A	24	26
BH311(10-14)	290	<0.1	14	1,100	<0.5	<0.5	510	N/A	16	110
BH311(20-23.5)	630	<0.1	15	1,700	<0.5	<0.5	430	N/A	22	35
BH311(38-42)	33	<0.1	<1	280	<0.5	<0.5	280	N/A	3.9	8
BH311(52-56)	240	<0.1	16	2,500	<0.5	<0.5	770	N/A	25	32
BH312(0-0.5)	190	<0.1	16	2,800	<0.5	<0.5	320	N/A	22	29
BH312(6-12)	230	0.7	28	1,700	<0.5	<0.5	270	N/A	25	510
BH312(16-20)	340	<0.1	11	1,100	<0.5	<0.5	380	N/A	16	29
BH312(36-40)	39	<0.1	<1	190	<0.5	<0.5	200	N/A	3.7	6
BH312(53-58)	170	<0.1	10	2,200	<0.5	<0.5	570	N/A	18	17
BH313(0-0.5)	130	<0.1	37	1,800	<0.5	<0.5	270	N/A	15	190
BH313(6-10)	520	0.6	250	1,000	<0.5	<0.5	450	N/A	32	2,130
BH313(16-20)	370	<0.1	12	1,400	<0.5	<0.5	340	N/A	19	35
BH313(26-30)	61	<0.1	4	310	<0.5	<0.5	210	N/A	6.2	18
BH313(54-57)	250	<0.1	14	2,200	<0.5	<0.5	720	N/A	23	29
BH314(0-1)	680	0.8	300	810	<0.5	7	190	N/A	39	5,610
BH314(4-8)	660	2.5	190	1,300	<0.5	114	920	N/A	41	4,000
BH314(16-22)	320	<0.1	10	1,500	<0.5	<0.5	320	N/A	18	33
BH314(40-44)	95	<0.1	4	270	<0.5	<0.5	170	N/A	5.1	9
BH314(55-60)	170	<0.1	9	2,000	<0.5	<0.5	600	N/A	16	16
BH315(0-0.5)	230	<1	46	2,000	<0.5	<0.5	270	N/A	15	370
BH315(10-14)	240	0.3	25	1,300	<0.5	<0.5	360	N/A	18	230
BH315(16-20)	280	<0.1	8	750	<0.5	<0.5	280	N/A	13	26
BH315(48-52)	110	<0.1	4	250	<0.5	<0.5	360	N/A	5.5	11
BH315(59-64)	240	<0.1	17	2,900	<0.5	<0.5	550	N/A	24	26
BH316(0-0.5)	210	<0.1	15	3,000	<0.5	<0.5	340	N/A	23	42
BH316(6-10)	220	<0.1	44	2,500	<0.5	<0.5	330	N/A	25	1
BH316(16-20)	250	<0.1	8	810	<0.5	<0.5	230	N/A	13	32
BH316(38-42)	88	<0.1	3	200	<0.5	<0.5	190	N/A	5.8	6
BH316(58-64)	220	<0.1	14	2,400	<10	<0.5	650	N/A	22	26
BH317(0-0.5)	720	0.3	1200	1,600	<0.5	3.4	630	N/A	48	15,000
BH317(14-18)	97	<0.1	5	420	<0.5	<0.5	210	N/A	6.8	20
BH317(19-20.5)	300	<0.1	8	760	<0.5	<0.5	220	N/A	12	19
BH317(38-42)	160	<0.1	5	240	<0.5	<0.5	220	N/A	8.3	17
BH317(56-60)	240	<0.1	15	2,400	<0.5	<0.5	540	N/A	23	28

N/A - Not Analyzed for Element

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Metals (mg/kg)
Perimeter Banks Area

AMPLE-ID	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	CYANIDE	IRON	LEAD	MAGNESIUM
BH300(0-0.5)	6,000	0.69	2.7	78	<1	<0.25	55,000	12	<10	18	<0.1	10,000	34	22,000
BH318(0-0.5)	N/A	<0.5	1.8	78	<1	0.1	N/A	14	<10	21	<0.1	N/A	8.1	N/A
BH318(6-12)	N/A	1	3.9	224	<1	1.8	N/A	139	<10	545	0.8	N/A	229	N/A
BH318(18-22)	N/A	<0.5	8.9	68	<1	<0.05	N/A	5.5	<10	5.6	<0.1	N/A	3.5	N/A
BH318(40-44)	N/A	0.6	0.85	29	<1	<0.05	N/A	2.9	<10	3.9	<0.1	N/A	2.6	N/A
BH318(58-64)	N/A	0.73	3.6	75	<1	0.07	N/A	13	<10	15	<0.1	N/A	6.1	N/A
BH319(0-0.5)	9,000	<0.5	7	55	0.4	0.1	85,200	13	4.7	15	0.2	9,500	5	29,500
BH319(14-18)	2,900	<0.5	6	20	0.13	0.12	22,000	4.3	4.1	2	<0.1	5,410	2.4	8,950
BH319(20-23)	7,030	<0.5	17	69	0.32	0.2	52,900	8.8	5.1	5	<0.1	12,000	5	19,300
BH319(42-44)	1,500	<0.5	1	6	0.08	3	46,000	3	1.4	3	<0.1	3,340	2	8,430
BH319(59-62)	9,040	1.1	2.4	48	0.35	3.1	89,000	12	5	12	<0.1	12,700	7	32,400
BH320(0-0.5)	6,000	0.7	7	69	0.26	5.4	50,800	38	4	58	0.4	10,500	58	11,400
BH320(6-10)	4,400	<0.5	5	46	0.16	2.7	23,000	22	4.5	98	<0.1	8,010	42	7,930
BH320(16-21)	7,170	<0.5	15	64	0.31	2.1	46,000	9.4	5.4	6	<0.1	13,100	5	18,400
BH320(38-42)	1,500	<0.5	3	7	0.07	1.4	26,000	4.2	1.1	6	<0.1	2,700	2	5,000
BH320(57-60)	8,740	1.4	3	46	0.36	2.7	88,400	12	5.4	11	<0.1	14,600	4	30,400
BH322(0-0.5)	6,740	<0.5	3	80	<1	0.32	87,300	16	<10	18	<0.1	9,550	8	25,400
BH322(2-4)	2,410	<0.5	0.81	217	<1	0.65	8,200	7.9	<10	26	<0.1	3,340	23	1,670
BH322(16-18)	2,540	<0.5	7	68	<1	0.24	30,000	6.6	<10	7.3	<0.1	7,110	3.4	11,400
BH322(50-52)	906	<0.5	2.4	25	<1	<0.05	66,000	<2.5	<10	5.1	<0.1	3,690	2.3	16,000
BH322(58-62)	6,070	<0.5	4.3	66	<1	0.09	83,400	14	<10	16	<0.1	12,900	6.1	30,900
BH324(0-0.5)	8,150	<0.5	3	54	0.4	0.3	71,000	18	4.5	22	0.31	10,900	10	22,700
BH324(8-12)	2,500	<0.5	2.8	49	<0.1	0.83	18,900	31	3.1	100	1.3	11,900	32	6,440
BH324(14-18)	5,800	<0.5	3.2	48	0.2	1.8	41,000	8.2	5	6	<0.1	12,500	10	16,800
BH324(36-40)	990	<0.5	0.4	5	<0.1	<0.05	10,000	2	1	<1	<0.1	1,800	<1	3,600
BH324(55-60)	5,800	<0.5	3.4	33	0.3	2.1	53,400	9.1	3.8	9	<0.1	8,630	4.7	23,800
BH326(0-0.5)	3,700	<0.5	1.6	23	<0.1	0.6	7,400	7.9	1.5	15	0.3	4,300	14	1,900
BH326(6-8)	3,720	<0.5	1	33	<0.1	1.4	16,400.0	31	1.9	37	<0.1	9,800	5	2,300
BH326(18-20)	7,540	1.2	2	66	0.3	4.3	95,600	11	4.9	9	<0.1	14,900	4	23,900
BH326(42-44)	7,200	<0.5	1.4	35	0.3	1.4	42,800	8.6	4.4	9	<0.1	9,750	2	21,400
BH326(48-50)	10,400	<0.5	3.4	52	0.3	4.3	85,000	14	6.1	11	<0.1	15,000	6	32,600
BH328(0-0.5)	5,000	1.4	5.4	37	0.24	9	14,400	14	2.2	19	<0.1	8,010	13	170
BH328(6-8)	2,700	0.9	13	52	<0.05	1.9	22,800	330	7.2	210	<0.1	79,200	52	6,400
BH328(18-20)	5,960	0.8	5.9	42	0.24	2.6	49,800	7.5	4.7	6	<0.1	11,600	5	18,800
BH328(36-40)	1,950	<0.5	1.7	14	<0.1	2.4	35,900	3.8	1.5	4	<0.1	3,800	2	6,700
BH328(55-58)	9,900	<0.5	4.5	48	0.3	2.8	85,800	13	6	11	<0.1	14,300	5	32,600
BH330(0-0.5)	4,830	0.6	2.7	35	0.4	4.7	77,600	14	3.1	19	<0.1	8,200	14	8,300
BH330(4-6)	5,400	6	87.5	47	0.2	3.8	75,000	21	3	26	<0.1	9,000	23	11,000
BH330(18-20)	6,000	<0.5	7.8	45	0.2	2	48,000	8	4.9	5	<0.1	13,100	4	19,000
BH330(38-40)	1,330	<0.5	0.6	8	<0.1	1.5	25,400	<2.5	1.2	<1	<0.1	2,370	<1	4,760
BH330(57-62)	1,030	0.6	2.8	60	0.4	2.8	88,000	14	5.8	11	<0.1	15,400	6	33,300
BH332(0-0.5)	7,500	<0.5	5.5	49	0.3	5.2	78,300	15	2.9	16	<0.1	8,600	19	9,200
BH332(1-4)	4,000	0.6	2.6	39	0.2	3.6	59,000	14	2.6	26	<0.1	6,590	21	11,200
BH332(10-13)	3,680	<0.5	5.6	49	0.2	1.9	27,000	27	2.6	27	<0.1	7,400	28	8,470
BH332(22-24)	7,460	<0.5	9.3	76	0.3	0.28	55,000	9.8	5.4	7	<0.1	14,200	10	21,100
BH332(46-50)	1,100	<0.5	0.8	6	<0.1	1.2	20,000	2.8	0.9	2	<0.1	2,500	3	3,500
BH332(68-70)	7,470	<0.5	2.9	48	0.3	3	102,000	9.8	4.7	9	<0.1	11,700	6	43,200

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Metals (mg/kg)
Perimeter Banks Area

SAMPLE-ID	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	TIN	VANADIUM	ZINC
BH300(0-0.5)	200	<0.1	12	1,100	<0.5	<0.5	<1000	N/A	16	58
BH318(0-0.5)	N/A	<0.1	14	N/A	<0.5	<0.5	N/A	35	15	86
BH318(6-12)	N/A	2.1	163	N/A	<0.5	1.1	N/A	26	31	3,100
BH318(18-22)	N/A	<0.1	5.5	N/A	<0.5	<0.5	N/A	31	<10	37
BH318(40-44)	N/A	<0.1	3.1	N/A	<0.5	<0.5	N/A	14	<10	25
BH318(58-64)	N/A	<0.1	15	N/A	<0.5	<0.5	N/A	42	18	40
BH319(0-0.5)	190	<0.1	15	2,400	<0.5	<0.5	310	N/A	20	95
BH319(14-18)	110	<0.1	8	520	<0.5	<0.5	330	N/A	8.2	19
BH319(20-23)	320	<0.1	10	1,200	<0.5	<0.5	410	N/A	17	32
BH319(42-44)	120	<0.1	3	250	<0.5	<0.5	250	N/A	6.7	11
BH319(59-62)	220	<0.1	13	2,200	<0.5	<0.5	600	N/A	21	28
BH320(0-0.5)	200	<0.1	67	1,200	<0.5	<0.5	340	N/A	14	540
BH320(6-10)	110	<0.1	110	620	<0.5	<0.5	220	N/A	10	1,080
BH320(16-21)	380	<0.1	11	1,100	<0.5	<0.5	340	N/A	17	38
BH320(38-42)	72	<0.1	4	180	<0.5	<0.5	280	N/A	4.8	26
BH320(57-60)	230	<0.1	15	2,000	<0.5	<0.5	600	N/A	21	28
BH322(0-0.5)	196	<0.1	18	1,580	<0.5	<0.5	<1000	N/A	17	80
BH322(2-4)	38	<0.1	36	<1000	<0.5	<0.5	<1000	N/A	<10	338
BH322(16-18)	149	<0.1	6.8	<1000	<0.5	<0.5	<1000	N/A	<10	41
BH322(50-52)	193	<0.1	2.7	<1000	<0.5	<0.5	<1000	N/A	<10	19
BH322(58-62)	28	<0.1	15	1,570	<0.5	<0.5	<1000	N/A	21	44
BH324(0-0.5)	190	<0.1	25	2,200	<0.5	<0.5	250	N/A	19	230
BH324(8-12)	330	0.4	75	420	<0.5	<0.5	260	N/A	10	3,940
BH324(14-18)	370	<0.1	12	800	<0.5	<0.5	390	N/A	16	61
BH324(36-40)	41	<0.1	3	300	<0.5	<0.5	220	N/A	5.3	6
BH324(55-60)	190	<0.1	11	1,220	<0.5	<0.5	580	N/A	14	38
BH326(0-0.5)	60	<0.1	30	490	<0.2	<0.5	110	N/A	9	170
BH326(6-8)	120	<0.1	41	330	<0.5	<0.5	120	N/A	9.8	1,500
BH326(18-20)	580	<0.1	14	1,350	<0.5	<0.5	300	N/A	21	83
BH326(42-44)	510	<0.1	19	1,500	<0.5	<0.5	320	N/A	20	77
BH326(48-50)	250	<0.1	18	2,400	<0.5	<1	670	N/A	26	62
BH328(0-0.5)	170	<0.1	11	1,300	<0.2	<0.5	240	N/A	11	56
BH328(6-8)	640	0.2	150	820	<0.2	11	410	N/A	34	130
BH328(18-20)	330	<0.1	10	950	<0.5	<0.5	350	N/A	18	30
BH328(36-40)	120	<0.1	4	330	<0.5	<0.5	360	N/A	6.2	12
BH328(55-58)	260	<0.1	12	2,300	<0.5	<0.5	800	N/A	25	29
BH330(0-0.5)	140	0.04	13	1,500	<0.5	<0.5	390	N/A	11	53
BH330(4-6)	170	<0.1	16	1,700	<0.5	<0.5	490	N/A	13	59
BH330(18-20)	320	<0.1	9	930	<0.5	<0.5	260	N/A	16	29
BH330(38-40)	65	<0.1	<5	210	<0.5	<0.5	240	N/A	4.8	7
BH330(57-62)	240	<0.1	17	2,600	<0.5	<0.5	810	N/A	26	28
BH332(0-0.5)	170	<0.1	7	1,800	<0.5	<0.5	250	N/A	14	56
BH332(1-4)	130	0.2	21	1,100	<0.5	<0.5	220	N/A	11	64
BH332(10-13)	160	<0.1	17	580	<0.5	<0.5	190	N/A	10	70
BH332(22-24)	400	<0.1	13	1,100	<0.5	<0.5	280	N/A	19	37
BH332(46-50)	52	<0.1	4	160	<0.5	<0.5	288	N/A	4.3	6
BH332(68-70)	200	<0.1	13	1,800	<0.5	<0.5	720	N/A	20	22

N/A - Not Analyzed for Element

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Metals (mg/kg)
Perimeter Banks Area

AMPLE-ID	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	CYANIDE	IRON	LEAD	MAGNESIUM
BH300(0-0.5)	6,000	0.69	2.7	78	<1	<0.25	55,000	12	<10	18	<0.1	10,000	34	22,000
BH333(0.5-1)	5,200	1	6	37	0.23	4.5	67,400	9.7	2.1	12	<0.1	5,620	10	7,450
BH333(16-18)	2,940	<0.5	2.8	21	0.16	1.6	22,000	4.2	3.4	5	<0.1	5,440	2	8,100
BH333(20-22)	6,430	<0.5	19	53	0.27	0.51	44,000	8.6	5.6	7	<0.1	12,100	6	18,300
BH333(40-44)	1,100	<0.5	0.8	6	0.07	1.4	24,800	<2.5	0.8	2	<0.1	2,300	2	4,800
BH333(63-68)	10,400	1	3.6	54	0.42	3.6	88,000	14	5.8	13	<0.1	15,400	4	32,600
BH334(0-1)	N/A	<0.5	4	70	<1	0.22	N/A	11	<10	18	<0.1	N/A	14	N/A
BH334(18-20)	N/A	<0.5	3.8	67	<1	0.14	N/A	4.7	<10	4.2	0.18	N/A	3.4	N/A
BH334(22-26)	N/A	<0.5	7.8	89	<1	0.15	N/A	5.6	<10	6.9	<0.1	N/A	3.2	N/A
BH334(44-48)	N/A	<0.5	1.6	42	<1	0.08	N/A	2.7	<10	3.5	<0.1	N/A	2.3	N/A
BH334(63-68)	N/A	<0.5	3.7	82	<1	0.08	N/A	13	<10	14	<0.1	N/A	5.6	N/A
BH335(0-0.5)	6,100	0.67	4.6	73	<1	0.16	85,500	13	<10	15	0.19	6,700	16	8,000
BH335(20-22)	4,900	0.73	10	72	<1	0.15	41,000	9.6	<10	8.7	0.95	12,000	5.6	17,000
BH335(22-26)	2,200	0.6	6.6	49	<1	0.09	34,300	6.7	<10	5.6	4	5,900	4.3	9,200
BH335(42-46)	1,000	<0.5	1.4	33	<1	<0.05	35,500	3.4	<10	3.5	<0.1	2,800	2.8	6,700
BH335(63-68)	6,700	0.75	4.7	75	<1	0.43	78,000	13	<10	14	<0.1	10,000	5.6	32,000
BH336(0-0.5)	3,400	1.4	3.9	82	<1	0.14	106,000	11	<10	15	<0.1	5,800	29	8,900
BH336(20-22)	2,800	<0.5	12	66	<1	0.1	26,000	6.2	<10	5	<0.1	7,700	5	11,000
BH336(44-46)	730	<0.5	1.6	49	<1	<0.05	18,000	3	<10	2.6	<0.1	2,100	2.1	4,300
BH336(62-68)	7,800	0.92	3.9	85	<1	0.67	76,000	15	<10	15	<0.1	14,000	7	28,000
BH337(0-0.5)	4,600	<0.5	4	30	0.23	4.2	64,600	11	3	14	<0.1	6,020	18	9,490
BH337(14-18)	5,890	<0.5	6	43	0.29	1.6	26,000	8.2	4	10	<0.1	8,020	18	9,960
BH337(20-24)	5,400	<0.5	13	44	0.24	3.2	65,000	7	5	5	<0.1	11,500	5	21,400
H337(44-46)	1,000	<0.5	0.9	4	<0.05	2.8	41,000	<2.5	1	<1	<0.1	2,400	<1	5,050
H337(62-68)	10,300	<0.5	4.5	72	0.44	3.2	75,000	13	6	11	<0.1	13,800	6	28,300

N/A - Not Analyzed for Element

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Metals (mg/kg)
Perimeter Banks Area

SAMPLE-ID	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	TIN	VANADIUM	ZINC
BH300(0-0.5)	200	<0.1	12	1,100	<0.5	<0.5	<1000	N/A	16	58
BH333(0.5-1)	120	<0.1	8	1,600	<0.5	<0.5	210	N/A	8.9	52
BH333(16-18)	130	<0.1	6	480	<0.5	<0.5	220	N/A	8	24
BH333(20-22)	340	<0.1	11	980	<0.5	<0.5	190	N/A	17	33
BH333(40-44)	58	<0.1	2	160	<0.5	<0.5	190	N/A	4.1	8
BH333(63-68)	250	<0.1	16	2,500	<0.5	<0.5	820	N/A	24	30
BH334(0-1)	N/A	<0.1	8.5	N/A	<0.5	<0.5	N/A	16	<10	59
BH334(18-20)	N/A	<0.1	4.7	N/A	<0.5	7.7	N/A	13	<10	44
BH334(22-26)	N/A	<0.1	5.8	N/A	<0.5	<0.5	N/A	22	<10	42
BH334(44-48)	N/A	<0.1	2.4	N/A	<0.5	<0.5	N/A	14	<10	25
BH334(63-68)	N/A	<0.1	14	N/A	<0.5	<0.5	N/A	40	20	52
BH335(0-0.5)	150	<0.1	8.9	<1000	<0.5	<0.5	<1000	N/A	11	56
BH335(20-22)	350	<0.1	9.6	<1000	<0.5	<0.5	<1000	N/A	15	42
BH335(22-26)	144	<0.1	4.8	<1000	<0.5	<0.5	<1000	N/A	<10	32
BH335(42-46)	70	<0.1	3	<1000	<0.5	<0.5	<1000	N/A	<10	<1
BH335(63-68)	220	<0.1	13	1,400	<0.5	<0.5	<1000	N/A	18	41
BH336(0-0.5)	140	<0.1	9.2	<1000	<0.5	<0.5	<1000	N/A	<10	79
BH336(20-22)	210	<0.1	5.6	<1000	<0.5	<0.5	<1000	N/A	<10	39
BH336(44-46)	78	<0.1	2.2	<1000	<0.5	<0.5	<1000	N/A	<10	24
BH336(62-68)	280	<0.1	16	1,500	<0.5	<0.5	1,100	N/A	22	49
BH337(0-0.5)	140	<0.1	9	1,200	<0.5	<0.5	200	N/A	11	47
BH337(14-18)	160	<0.1	10	900	<0.5	<0.5	220	N/A	14	46
BH337(20-24)	370	<0.1	10	810	<0.5	<0.5	300	N/A	14	28
BH337(44-46)	85	<0.1	2	190	<0.5	<0.5	280	N/A	4.1	5
BH337(62-68)	260	<0.1	15	2,600	<0.5	<0.5	1,200	N/A	26	32

N/A - Not Analyzed for Element

GM Powertrain - Bay City Plant

Soil Analytical Results for Detected Dioxin/Furans - Method 161(ppt)

Perimeter Banks Area

SAMPLE-ID	1234678 HpCDD	1234678 HpCDF	123478 HxCDD	123478 HxCDF	1234789 HpCDF	123678 HxCDD	123678 HxCDF	12378 PeCDD	12378 PeCDF	123789 HxCDD	123789 HxCDF	234678 HxCDF	23478 PeCDF	2378 TCDD	2378 TCDF
BH318(0-0.5)	12.958	38.811	0.446	4.123	0.892	1.893	1.217	0.466	0.819	1.182	0.17	2.05	2.896	0.238	8.908
BH318(6-12)	469.819	1846.974	10.144	186.649	44.509	60.689	58.524	<1.113	59.577	45.005	10.639	93.922	87.726	4.596	278.838
BH318(18-22)	<24.27	16.816	<.775	1.34	<.578	<1.55	<.76	<.275	<.21	<1.54	<.93	0.521	0.513	<.498	1.611
BH318(40-44)	4.852	8.764	<.4	1.604	<.435	0.454	0.433	0.103	0.335	<1.54	<.93	1.026	0.797	<.19	2.337
BH318(58-64)	2.533	0.982	<.213	<.71	<.225	0.133	<.76	<.163	<.11	<1.54	<.93	0.304	0.078	0.129	<1.13
BH334(0-1)	52.06	116.111	<.803	41.601	<.733	4.088	8.797	<.608	59.065	2.207	0.752	6.283	39.793	<.415	124.735
BH334(18-20)	<.713	26.174	<.593	9.213	0.908	<.363	1.924	<.495	10.34	<.488	<.383	1.819	<.328	<.39	22.429
BH334(44-48)	2.58	1.831	<.055	3.242	<.065	<.038	0.61	<.048	4.932	<.048	<.035	<.028	3.526	<.035	11.264

SAMPLE-ID	OCDD	OCDF	TOTAL HpCDD	TOTAL HpCDF	TOTAL HxCDD	TOTAL HxCDF	TOTAL PeCDD	TOTAL PeCDF	TOTAL TCDD	TOTAL TCDF
BH318(0-0.5)	73.538	24.087	27.277	108.576	17.272	56.71	5.228	36.975	5.292	34.696
BH318(6-12)	1904.341	1424.027	1063.159	4412.446	610.874	3233.971	98.621	2284.542	138.768	1707.385
BH318(18-22)	62.957	13.141	4.904	44.2	2.131	14.57	<.54	5.635	1.695	11.209
BH318(40-44)	46.862	5.855	9.657	20.65	2.827	12.811	0.103	8.384	<.19	8.019
BH318(58-64)	38.675	0.955	5.106	2.537	1.965	0.973	2.168	0.391	3.424	0.515
BH334(0-1)	412.133	82.341	184.765	348.849	38.602	263.351	1.938	296.779	2.307	315.632
BH334(18-20)	172.581	19.734	37.212	68.991	5.219	46.224	<.495	38.973	<.39	52.833
BH334(44-48)	43.488	2.056	5.579	5.08	<.048	9.112	<.048	16.396	<.035	23.404

GM Powertrain - Bay City Plant

Groundwater Analytical Results

for Detected PCBs - Method 8080(ug/l)

Perimeter Banks Area

SHALLOW WELLS	Aroclor 1248		
Sample Round	Aug. 93	Mar. 94	Mar. 94(F)
MW300S	0.8	4.6	0.3
MW301S	N/A	<0.1	N/A
MW302S	0.4	<0.1	<0.1
DEEP WELLS	**Aroclor 1248**		
Sample Round	Aug. 93	Mar. 94	Mar. 94(F)
MW301D1	0.2	<0.1	<0.1
MW301D2	N/A	<0.1	N/A
MW301D3	<0.1	<0.1	<0.1
MW301D4	<0.1	<0.1	<0.1
MW302D1	<0.1	<0.1	<0.1
MW302D2	<0.1	<0.1	<0.1
MW302D3	0.2	<0.1	<0.1
MW302D4	0.3	<0.1	<0.1

(F) - Filtered Sample

N/A - Not Analyzed or not Sampled for Compound

GM Powertrain - Bay City Facility

Groundwater Analytical Results for Detected Semivolatile Organic Compounds

Method 8270(ug/l)

Perimeter Banks Area

SHALLOW WELLS	2,4-DIMETHYL PHENOL		4-CHLORO-3-METHYLPHENOL		4-METHYL PHENOL		BIS(2-ETHYLHEX) PHTHALATE		PHENOL	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
MW300S	<5	<5	<5	<5	<10	N/A	6	6	<5	<5
MW301S	N/A	<5	N/A	<5	N/A	<10	N/A	<5	N/A	<5
MW302S	<5	<5	90	<5	<10	N/A	<5	<5	<5	<5
DEEP WELLS	**2,4-DIMETHYL PHENOL**		**4-CHLORO-3-METHYLPHENOL**		**4-METHYL PHENOL**		**BIS(2-ETHYLHEX) PHTHALATE**		**PHENOL**	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
MW301D1	7	11	<5	<5	51	N/A	<5	33	150	270
MW301D2	N/A	<5	N/A	<5	N/A	<10	N/A	<5	N/A	<5
MW301D3	<5	<5	<5	<5	<10	N/A	<5	5	<5	<5
MW301D4	<5	<5	<5	<5	<10	N/A	3	4	<5	<5
MW302D1	<5	<5	<5	<5	<10	N/A	<5	<5	<5	<5
MW302D2	<5	<5	<5	<5	<10	N/A	1	<5	<5	<5
MW302D3	<5	<5	<5	<5	<10	N/A	<5	<5	<5	<5
MW302D4	<5	<5	<5	<5	<10	N/A	<5	16	<5	<5

N/A - Not Analyzed or not Sampled for Compound

NE - Criteria not Established

GM Powertrain - Bay City Plant

Groundwater Analytical Results for Cyanide (ug/l)

Perimeter Banks Area

SHALLOW WELLS	CYANIDE		
Sample Round	Aug. 93	Oct. 93	Mar. 94
MW300S	18	19	19
MW301S	N/A	N/A	8
MW302S	<5	N/A	<5
DEEP WELLS	**CYANIDE**		
Sample Round	Aug. 93	Oct. 93	Mar. 94
MW301D1	8	N/A	10
MW301D2	N/A	N/A	<5
MW301D3	<5	N/A	<5
MW301D4	<5	N/A	<5
MW302D1	<5	N/A	<5
MW302D2	<5	N/A	<5
MW302D3	7	N/A	<5
MW302D4	<5	N/A	<5

N/A - Not Analyzed or not Sampled for Cyanide

GM Powertrain - Bay City Plant

Groundwater Analytical Results

for Detected Dioxin/Furans - Method 161(ppq)

Perimeter Banks Area

	MW301S		MW301D2	
	Aug. 93	Mar.94	Aug. 93	Mar.94
1234678-HpCDD	<12.557	95.0231	<2.235	6.0252
1234678-HpCDF	15.8514	421.1425	3.2549	3.5363
123478-HxCDF	<3.527	27.2884	<1.544	2.2195
1234789-HpCDF	<10.358	9.1116	<1.82	<2.352
123678-HxCDD	<4.73	12.1561	<1.66	2.907
12378-PeCDF	<2.746	7.29	<47.277	<2.037
123789-HxCDD	<5.052	4.0122	<55.852	<0.963
123789-HxCDF	<5.449	<0.699	<1.529	1.3251
234678-HxCDF	3.9498	12.6773	3.2718	4.287
23478-PeCDF	<2.633	26.3441	<69.988	1.8726
2378-TCDD	<2.434	<1.873	<1.747	1.7542
2378-TCDF	10.3836	90.6754	<1.15	<0.757
OCDD	<268.23	380.6959	15.3108	13.6701
OCDF	<28.754	274.0554	4.6859	8.0482
TOTAL HpCDD	<12.557	217.3742	<2.235	8.819
TOTAL HpCDF	22.8752	904.1686	3.9321	6.026
TOTAL HxCDD	<5.086	81.7759	<56.226	2.9843
TOTAL HxCDF	8.9001	293.2117	3.5672	9.6342
TOTAL PeCDF	<1.076	174.4316	<100.946	2.0177
TOTAL TCDF	15.4999	262.0553	<1.15	<0.757

N/A - Not Analyzed or Not Sampled for Compound

GM Powertrain - Bay City Facility

Surface Water Analytical Results for Detected PCBs - Method 8080(ppb)

Perimeter Banks Area

SAMPLE-ID	Aroclor 1248
SW300-01	<.1
SW301-01	2.7
SW302-01	4.9
SW303-01	3.2
SW305-01	4.5
SW306-01	1.5

Surface Water Analytical Results for Detected Semivolatiles - Method 8270(ppb)

Perimeter Banks Area

SAMPLE-ID	BENZO(A) PYRENE	FLUORAN-THENE	PYRENE
SW300-01	<5	<5	<5
SW301-01	<5	<5	<5
SW302-01	6	8	8
SW303-01	<5	1	1
SW305-01	<5	<5	<5
SW306-01	<5	<5	<5

N/A - Not Analyzed for Compound

GM Powertrain - Bay City Facility

Surface Water Analytical Results for Detected Metals (ppb)

Perimeter Banks Area

SAMPLE-ID	ALUMINUM	ARSENIC	BERYLLIUM	CADMIUM	CALCIUM	COBALT
SW300-01	8,400	4	2	1.2	110,000	10
SW301-01	1,300	2	<1	0.8	25,000	<4
SW302-01	330	<1	<1	0.9	18,000	<4
SW303-01	800	2	<1	1.3	23,000	<4
SW306-01	4,800	6	<1	6.3	63,000	5

SAMPLE-ID	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	POTASSIUM
SW300-01	110	14,000	25	36,000	300	29,000
SW301-01	60	1,600	13	4,000	60	11,000
SW302-01	70	300	7	1,100	<20	10,000
SW303-01	100	1,300	21	3,200	90	17,000
SW306-01	80	8,400	61	16,000	220	26,000

SAMPLE-ID	SILVER	SODIUM	VANADIUM	ZINC
SW300-01	<.5	2,000	20	280
SW301-01	<.5	3,000	<8	220
SW302-01	<.5	<1000	<8	170
SW303-01	0.7	<1000	<8	190
SW306-01	<.5	<1000	16	140

N/A - Not Analyzed for Element

GM Powertrain - Bay City Facility

Groundwater Analytical Results for Detected Metals (ug/l)

Perimeter Banks Area

SHALLOW WELLS	ALUMINUM		ANTIMONY		ARSENIC		BARIUM		CADMIUM		CALCIUM		COBALT		IRON	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
MW300S	90	<300	<5	<5	3	3	300	300	<0.2	0	220,000	220,000	16	<20	900	9,200
MW301S	N/A	N/A	N/A	<5	N/A	2	N/A	<200	N/A	<0.2	N/A	N/A	N/A	<50	N/A	N/A
MW302S	<40	<300	<5	<5	6	4	<200	<200	<0.2	<0.2	150,000	170,000	<4	<4	19,000	16,000
DEEP WELLS	**ALUMINUM**		**ANTIMONY**		**ARSENIC**		**BARIUM**		**CADMIUM**		**CALCIUM**		**COBALT**		**IRON**	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
MW301D1	150	<300	<5	<5	12	9	<200	<200	<0.2	<0.2	12,000	18,000	<4	<4	200	100
MW301D2	N/A	N/A	N/A	<5	N/A	3	N/A	430	N/A	<0.2	N/A	N/A	N/A	<50	N/A	N/A
MW301D3	170	<300	<5	6	19	22	300	500	<0.2	<0.2	87,000	120,000	<4	<4	<100	4,800
MW301D4	70	<300	<5	<5	10	9	600	800	<0.2	<0.2	320,000	330,000	<4	<4	1,000	4,600
MW302D1	120	<300	<5	<5	13	8	300	300	<0.2	<0.2	150,000	130,000	<4	<4	10,000	9,300
MW302D2	<40	<300	<5	<5	18	15	<200	200	<0.2	<0.2	68,000	110,000	<4	<4	800	2,500
MW302D3	<40	<300	<5	<5	7	43	<200	500	<0.2	<0.2	66,000	170,000	<4	<4	300	20,000
MW302D4	100	<300	<5	10	<1	15	840	1,300	2	<0.2	260,000	430,000	<4	<4	200	21,000

SHALLOW WELLS	LEAD		MAGNESIUM		MANGANESE		NICKEL		POTASSIUM		SODIUM		VANADIUM		ZINC	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
MW300S	<3	<3	48,000	53,000	1,600	1,400	<50	<50	24,000	31,000	540,000	470,000	<8	<20	<20	<20
MW301S	N/A	<3	N/A	N/A	N/A	N/A	N/A	<50	N/A	N/A	N/A	N/A	N/A	<50	N/A	<20
MW302S	<3	<3	34,000	39,000	820	960	<20	<50	5,000	5,000	43,000	45,000	<8	<20	<20	<20
DEEP WELLS	**LEAD**		**MAGNESIUM**		**MANGANESE**		**NICKEL**		**POTASSIUM**		**SODIUM**		**VANADIUM**		**ZINC**	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
MW301D1	<3	<3	5,700	6,500	<20	<20	<50	<50	85,000	73,000	230,000	230,000	20	<20	<20	<20
MW301D2	N/A	<3	N/A	N/A	N/A	N/A	N/A	<50	N/A	N/A	N/A	N/A	N/A	<50	N/A	<20
MW301D3	<3	<3	18,000	42,000	80	260	<50	<50	27,000	36,000	420,000	460,000	<8	<20	<20	<20
MW301D4	<3	<3	87,000	98,000	260	520	<50	<50	22,000	10,000	1,300,000	1,400,000	<8	<20	<20	30
MW302D1	<3	<3	36,000	31,000	820	730	<50	<50	4,000	14,000	32,000	43,000	<8	<20	<20	<20
MW302D2	<3	<3	18,000	30,000	130	240	<50	<50	3,000	3,000	76,000	80,000	<8	<20	<20	<20
MW302D3	<3	<3	15,000	40,000	90	330	<50	<50	24,000	4,000	120,000	160,000	<8	<20	<20	<20
MW302D4	18	<3	81,000	130,000	330	380	290	<50	6,000	6,000	860,000	1,600,000	<8	<20	80	20

N/A - Not Analyzed or not Sampled for Element

GM Powertrain - Bay City Facility

Groundwater Analytical Results for Detected Metals (ug/l)

Perimeter Banks Area

SHALLOW WELLS	ALUMINUM		ANTIMONY		ARSENIC		BARIUM		CADMIUM		CALCIUM		COBALT		IRON	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
MW300S	90	<300	<5	<5	3	3	300	300	<0.2	0	220,000	220,000	16	<20	900	9,200
MW301S	N/A	N/A	N/A	<5	N/A	2	N/A	<200	N/A	<0.2	N/A	N/A	N/A	<50	N/A	N/A
MW302S	<40	<300	<5	<5	6	4	<200	<200	<0.2	<0.2	150,000	170,000	<4	<4	19,000	16,000
DEEP WELLS	**ALUMINUM**		**ANTIMONY**		**ARSENIC**		**BARIUM**		**CADMIUM**		**CALCIUM**		**COBALT**		**IRON**	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
MW301D1	150	<300	<5	<5	12	9	<200	<200	<0.2	<0.2	12,000	18,000	<4	<4	200	100
MW301D2	N/A	N/A	N/A	<5	N/A	3	N/A	430	N/A	<0.2	N/A	N/A	N/A	<50	N/A	N/A
MW301D3	170	<300	<5	6	19	22	300	500	<0.2	<0.2	87,000	120,000	<4	<4	<100	4,800
MW301D4	70	<300	<5	<5	10	9	600	800	<0.2	<0.2	320,000	330,000	<4	<4	1,000	4,600
MW302D1	120	<300	<5	<5	13	8	300	300	<0.2	<0.2	150,000	130,000	<4	<4	10,000	9,300
MW302D2	<40	<300	<5	<5	18	15	<200	200	<0.2	<0.2	68,000	110,000	<4	<4	800	2,500
MW302D3	<40	<300	<5	<5	7	43	<200	500	<0.2	<0.2	66,000	170,000	<4	<4	300	20,000
MW302D4	100	<300	<5	10	<1	15	840	1,300	2	<0.2	260,000	430,000	<4	<4	200	21,000

SHALLOW WELLS	LEAD		MAGNESIUM		MANGANESE		NICKEL		POTASSIUM		SODIUM		VANADIUM		ZINC	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
MW300S	<3	<3	48,000	53,000	1,600	1,400	<50	<50	24,000	31,000	540,000	470,000	<8	<20	<20	<20
MW301S	N/A	<3	N/A	N/A	N/A	N/A	N/A	<50	N/A	N/A	N/A	N/A	N/A	<50	N/A	<20
MW302S	<3	<3	34,000	39,000	820	960	<20	<50	5,000	5,000	43,000	45,000	<8	<20	<20	<20
DEEP WELLS	**LEAD**		**MAGNESIUM**		**MANGANESE**		**NICKEL**		**POTASSIUM**		**SODIUM**		**VANADIUM**		**ZINC**	
Sample Round	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94	Aug. 93	Mar. 94
MW301D1	<3	<3	5,700	6,500	<20	<20	<50	<50	85,000	73,000	230,000	230,000	20	<20	<20	<20
MW301D2	N/A	<3	N/A	N/A	N/A	N/A	N/A	<50	N/A	N/A	N/A	N/A	N/A	<50	N/A	<20
MW301D3	<3	<3	18,000	42,000	80	260	<50	<50	27,000	36,000	420,000	460,000	<8	<20	<20	<20
MW301D4	<3	<3	87,000	98,000	260	520	<50	<50	22,000	10,000	1,300,000	1,400,000	<8	<20	<20	30
MW302D1	<3	<3	36,000	31,000	820	730	<50	<50	4,000	14,000	32,000	43,000	<8	<20	<20	<20
MW302D2	<3	<3	18,000	30,000	130	240	<50	<50	3,000	3,000	76,000	80,000	<8	<20	<20	<20
MW302D3	<3	<3	15,000	40,000	90	330	<50	<50	24,000	4,000	120,000	160,000	<8	<20	<20	<20
MW302D4	18	<3	81,000	130,000	330	380	290	<50	6,000	6,000	860,000	1,600,000	<8	<20	80	20

N/A - Not Analyzed or not Sampled for Element