



## DESIGN REPORT

# OVER 50 mg/kg PCB SOIL REMOVAL EAST PLANT AREA

GM POWERTRAIN FACILITY  
105 GM DRIVE  
BEDFORD, INDIANA

U.S. EPA ID NO. IND 006036099

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AAQMP	-	Ambient Air Quality Monitoring Plan
Agreement	-	Performance Based Corrective Action Agreement
AMSL	-	above mean sea level
AOI	-	Area of Interest
bgs	-	below ground surface
CA	-	Corrective Action
CFR	-	Code of Federal Regulations
CLP	-	Community Liaison Panel
CRA	-	Conestoga-Rovers & Associates, Inc.
cy	-	cubic yards
Facility	-	GM Powertrain Facility
ft	-	feet
GM	-	General Motors Corporation
HASP	-	Health and Safety Plan
IM	-	Interim Measure
mg/kg	-	milligram per kilogram
PCB	-	Polychlorinated Biphenyl
QAPP	-	Quality Assurance Project Plan
RA	-	Removal Action
RCRA	-	Resource Conservation and Recovery Act
Report	-	Design Report, Over 50 mg/kg PCB Soil Removal, East Plant Area
RFI	-	RCRA Facility Investigation
Site	-	GM Powertrain Facility
TM	-	Technical Memorandum
TSCA	-	Toxic Substances Control Act
U.S. EPA	-	United States Environmental Protection Agency

## 1.0 INTRODUCTION

This Design Report, Over 50 mg/kg PCB Soil Removal, East Plant Area (Report) for the General Motors Corporation (GM) Powertrain Facility (Facility or Site) located in Bedford, Indiana has been prepared, as part of the East Plant Area Interim Measure (IM), by Conestoga-Rovers & Associates, Inc. (CRA), on behalf of GM, as part of the Resource Conservation and Recovery Act (RCRA) Corrective Action (CA) activities being conducted under the Performance-Based CA Agreement (Agreement) (effective March 20, 2001, and amended on October 1, 2002) between United States Environmental Protection Agency (U.S. EPA) and GM for the Facility.

The Facility location and Facility plan are presented on Figures 1.1 and 1.2, respectively.

### 1.1 GENERAL

The Facility is located at 105 GM Drive in Bedford, Lawrence County, Indiana, 47421. The Facility produces aluminum casting products, such as transmission cases, pistons, and engine blocks. Major aluminum production processes include die casting and permanent molding. The Facility has been operating as an aluminum foundry since 1942, with major facility modifications completed in 1950, 1953, 1966, 1971, 1974, 1979, and 1980.

### 1.2 PURPOSE

The purpose of the East Plant Area Source Removal Report is to present an overview of the current conditions of the East Plant Area and to provide the details related to the implementation of the Source Removal for the East Plant Area. This report summarizes the information obtained during Site investigation activities conducted by GM, including:

- a review of regional geology, hydrogeology, and hydrology;
- a review of geological, hydrogeological, and hydrological conditions at the East Plant Area; and
- summary of existing conditions and information relating to the nature and extent of PCB impacts at the East Plant Area.

### 1.3 SOURCE REMOVAL REPORT ORGANIZATION

The Report consists of the following documents:

- Text;
- Figures;
- Tables;
- Construction Drawings; and
- Appendix.

All of the above-identified documents are submitted concurrently with this Report. The approved Ambient Air Quality Monitoring Plan (AAQMP) (CRA, May 2004), Quality Assurance Project Plan (QAPP) (CRA, December 21, 2004), and Consolidated Health and Safety Plan (HASP) (CRA, November 2004) will apply to the source removal activities.

This Report is organized as follows:

#### **Section 2.0 - Summary of Corrective Action**

This section provides an outline of the East Plant Area IM.

#### **Section 3.0 - Site Information**

This section provides background information related to Site land use, geology, hydrogeology, hydrology, etc.

#### **Section 4.0 - Source Excavation and Placement of $\geq 50$ mg/kg PCB Soil in the Vault**

This section describes the material excavation rationale and the methodology of material excavation and placement within the vault.

#### **Section 5.0 - Construction Support Facilities**

This section details the support facilities required for the Source Removal work.

#### **Section 6.0 - Institutional Controls and Monitoring**

This section presents institutional controls to be implemented and monitoring to be completed during the completion of excavation activities.

#### **Section 7.0 - Project Schedule**

This section presents the project schedule.

**Section 8.0 - Community Relations**

This section presents various means of community participation and awareness.

**Section 9.0 - References**

This section presents references cited in this Report.

## 2.0 SUMMARY OF CORRECTIVE ACTION

The selected IM to be implemented for the Site consists of the following major components:

- i) installation and long-term maintenance of an on-Site Toxic Substances Control Act (TSCA) compliant vault for placement of approximately 145,000 tons [105,000 cubic yards (cy)] of designated polychlorinated biphenyl (PCB) impacted soils with PCB concentrations  $\geq 50$  milligram per kilogram (mg/kg);
- ii) transportation of the excavated  $\geq 50$  mg/kg PCB soils related to the implementation of the  $\geq 50$  mg/kg PCB soil excavation to be placed in the on-Facility vault and permanent consolidation of the material in the vault;
- iii) construction of a perimeter groundwater collection system for the East Plant Area;
- iv) installation of a source removal system in Area of Interest (AOI) 8;
- v) construction of a low permeability East Plant Area cover system. This system will include placement of  $< 50$  mg/kg PCB soil from the Removal Action (RA) to provide backfill for  $\geq 50$  mg/kg PCB excavations and as grading fill;
- vi) installation, operation and maintenance of a water treatment system for treatment of potentially contaminated waters generated during construction and filling of the vault, perimeter groundwater collection system and existing systems. The waters generated from the vault will include:
  - a) water from decontamination of equipment and other materials;
  - b) precipitation contacting waste materials at the vault;
  - c) water removed from the leachate collection and/or leak detection systems; and
  - d) water generated from the underdrain system;
- vii) implementation of access/deed restrictions; and
- viii) implementation of operation and maintenance and monitoring programs.

This report provides a summary of existing conditions and information relating to the nature and extent of PCB levels in soils in the East Plant Area and provides details related to the implementation of the Source Removal.



### 3.0 SITE INFORMATION

#### 3.1 SITE LOCATION AND DESCRIPTION

The Facility lies on approximately 152.5 acres of land on either side of GM Drive and extends north along Bailey Scales Road. The East Plant Area represents a portion of the Facility and is located to the east of GM Drive and west of Bailey Scales Road (see Figure 1.2).

Currently, the Facility is bordered by residential and undeveloped areas to the north; to the south by the Canadian and Pacific Railway, and IMCO (a Kaiser aluminum recycling facility), to the east by residential and undeveloped areas; and to the west by the railway, industrial and residential properties and a cemetery. The Facility property boundaries, buildings, and support facilities are presented on Figures 1.1 and 1.2.

The Facility is currently zoned and utilized for industrial purposes. The reasonably foreseeable future land use is industrial.

The proposed vault will be constructed in the East Plant Area, east of GM Drive, west of the Stormwater Lagoon, and between the Zipp Trucking parking lot and Salary Parking Lot. The proposed vault design volume is approximately 105,000 cy. This will accommodate the prescribed quantity of PCB contaminated material requiring excavation (105,000 cy). The maximum capacity of the vault using the proposed footprint and maximum 4:1 side slopes is approximately 125,000 cy. Over 50 mg/kg PCB soil is distributed throughout various areas and elevations in the East Plant Area.

#### 3.2 GEOLOGIC/HYDROGEOLOGIC/HYDROLOGIC CONDITIONS

##### 3.2.1 REGIONAL PHYSIOGRAPHY AND TOPOGRAPHY

The State of Indiana covers an area of approximately 36,300 square miles. The state's topography ranges from 324 to 1,257 feet (ft) above mean sea level (AMSL). The lowest point of elevation is in the southwest corner of Indiana, where the Wabash River flows into the Ohio River. The highest point is in Wayne County in east central Indiana.

### 3.2.2 REGIONAL LAND USE

Regional land use in this area is mixed, consisting of industrial, commercial, residential and agricultural. The primary crops are corn, soybeans, feed grains, and hay. Raising livestock is common throughout the area. Industrial and commercial uses are also important, especially near urban areas. Oil and gas (in the east central section) was discovered in 1889, however, this resource was depleted by 1912. There are several oil and natural gas fields located in the southwestern portion of Indiana.

### 3.2.3 REGIONAL GEOLOGY

The Facility lies within an area of Indiana that was not glaciated (driftless area) during the last glacial period on the North American continent. The maximum progression of the Illinoian Glacial advance (the furthest advance of the Laurentide Ice Sheet) lies to the west, north, and east of the immediate region surrounding the Facility (Figure 3.1). Consequently, the surficial geology of the area generally consists of a relatively thin layer of unconsolidated deposits of sand, clay, and fragments of chert produced by the weathering of limestone bedrock and wind-deposited silty material, known as loess. Thicker deposits of proglacial outwash, lake sediment, and recent colluvium occurs along the major stream valleys (Figure 3.2). The surficial deposits range in thickness from zero ft along bedrock outcrops to approximately 100 ft thick along Salt Creek and the East Fork of the White River (Gray, 1974).

The bedrock within the region is near the eastern margin of a structure known as the Illinois Basin. The bedrock formations in this area generally dip to the west at approximately 20 to 25 ft per mile. The Cincinnati Arch lies to the east of the Illinois Basin and covers much of Indiana (Figure 3.2) (Indiana Geological Survey, 2001).

Two regional structures are within the vicinity of the Facility, the Leesward Anticline and the Mt. Carmel fault (Figure 3.2). The Leesward Anticline is located to the north and east of Bedford and plunges to the south-southeast. The Mt. Carmel fault is a normal fault with the downthrown side located to the west of the fault. This fault is located to the north and east of the Facility and truncates the Leesward Anticline on its western side. The Mt. Carmel fault generally acts as a hinge line, with gentler dips to the west of the fault and slightly steeper dips to the east (Melhorn and Smith, 1959).

Bedrock within the immediate vicinity of the Facility (Figure 3.3) consists of the lower beds of the Middle Mississippian St. Louis Limestone (the oldest formation within the Blue River Group) and is only approximately 25 ft thick in the immediate vicinity of the

Facility (Melhorn and Smith, 1959). Immediately underlying the St. Louis Limestone, and outcropping to the east of the Facility, are the Salem Limestone and the Harrodsburg Limestone formations, respectively. These two Mississippian formations make up most of the Sanders Group. The Salem Limestone formation is approximately 70 to 80 ft thick, where fully preserved, and the Harrodsburg Limestone formation is approximately 80 to 90 ft thick in the area (Melhorn and Smith, 1959). Figure 3.4 presents a generalized stratigraphic column for Paleozoic formations in Indiana.

The Borden Group, which underlies the Sanders Group and outcrops further to the east, consists of approximately 500 to 800 ft of siltstone and shale, interbedded with some sandstone and minor limestone. The New Providence Shale formation makes up the bottom of the Borden Group, and is approximately 200 ft thick.

The Sanders and Blue River Groups have been described to consist mostly of carbonates, with minor amounts of chert, shale, siltstone, anhydrite, gypsum, and calcareous sandstone. A thin bed of brown dolomitic limestone commonly marks the bottom of the St. Louis Limestone. The Salem Limestone, which is more massively bedded limestone, is also known as the Indiana Limestone, the Bedford Limestone, or the Oolitic Limestone and is quarried as fine building stone. However, some horizons may contain geodes, joints and solution fractures, which render the formation less suitable for quarrying (Fenelon and Bobay, 1994).

Numerous joints and fractures are present in these formations with master sets trending east-west within the St. Louis Limestone, with minor sets 90 degrees to the master sets (Powell, 1976 and 2001). Karst topography is present near the top of the St. Louis Limestone. Numerous sinkholes can be observed on the USGS topographic quadrangles approximately 5 to 10 miles to the west of the Facility. Several caverns have been mapped in Lawrence County, including one of the largest mapped caverns in the United States, the Blue Springs Cavern, located approximately five miles southwest of the City of Bedford. Other mapped caverns in the area include the Shiloh Cave, the No Sweat Cave, the Dog Hill Cave, the Donnehue Cave, and the Salt Creek Cave. Other unmapped caverns within close proximity to the Facility include: Mouse Hole Cave, located one mile east-northeast; Eighteenth Street Cave, located one and one-half miles to the south-southeast; and Armstrong Caves I and II, located one and one-half miles to the west-southwest (Etzel, 1982).

The near surface regional geology is characterized by karst topography. Several geomorphic features, such as sinkholes, are present near Bedford. This is especially prominent along the western portion of Lawrence County, with much less surface expression through the mid and eastern portions of the county. The City of Bedford lies

within the physiographic province known as the Mitchell Plain, or Plateau (karst plain). The Mitchell Plain extends from near Bloomington south to the Ohio River within the State of Indiana.

### **3.2.4 REGIONAL HYDROGEOLOGY**

Groundwater resources are found in Lawrence County along the valleys of the major rivers or streams and within the thick Mississippian carbonate aquifer system (within the western portion of Lawrence County) and the Silurian-Devonian carbonate bedrock aquifer (within the eastern portion of Lawrence County).

There are two basic types of aquifers: unconfined and confined. Unconfined aquifers in Lawrence County generally occur along the Salt Creek and the East Fork of the White River within the proglacial outwash deposits, glaciolacustrine deposits, and recent alluvium. The tops of unconsolidated aquifers are often exposed to the surface or have a very thin covering of non-aquifer material, generally comprised of silt and clay (Fenelon and Bobay, 1994).

Groundwater flow within the confined (carbonate) aquifers takes place along the joints, fractures, and bedding planes that eventually may become enlarged by solution to cave passages or karst features. Recharge to a karst system occurs through surface openings that vary in scale from narrow, solutionally widened joints to large sinkholes. Discharge typically occurs through springs, which are solutionally widened joints or bedding planes, but may be enlarged, to sizable cave openings. Most groundwater within this aquifer system discharges to surficial water bodies, to underground water bodies, and to springs (Etzel, 1982).

### **3.2.5 REGIONAL HYDROLOGY**

Most of the rivers in the East Fork White River Basin drain to the southwest. According to USGS Water Resources Division, the current stream flow recorded at the East Fork White River gauging station, located 7.8 miles southeast of Bedford in Lawrence County, is 4,210 cubic ft per second (cfs).

Major tributaries to the East Fork White River include the Muscatatuck River, Salt Creek, Driftwood River, Flatrock River, and the Big Blue River. Drainages in the East Fork White River Basin include the Lost River, Sugar Creek, Graham Creek, Clifty Creek, Big Creek, Indian Creek, White Creek, Brandywine Creek, and the Little Blur River.

Rivers in the eastern half of the East Fork White River Basin have a subparallel drainage. Those rivers include the Sugar Creek, Big Blue River, Little Blue River, Flatrock River, Clifty Creek, Sand Creek, Vernon Forth, Graham Creek, and the East Fork White River from Medora to Jonesville (see Figure 3.5 for the Lower East Fork White River Drainage Map).

Drainage of the Mitchell Plain in central Lawrence County (west of the Facility), northeast Orange County, and Monroe County is different from the rest of the East Fork White River Basin. In the streams that flow across the Mitchell Plain, surface water may be intercepted by swallow holes and diverted underground into the groundwater system or subterranean channels.

### **3.3 EAST PLANT AREA SETTING**

The East Plant Area is located on the portion of the Facility to the east of GM Drive and west of Bailey Scales Road. It is bordered to the west by GM Drive and the main plant operations, to the north and west by residential properties Parcels 401 through 406, to the east by residential properties Parcels 203, 204, 3, 207, 412, 413, 414, 415, 416, 214, and 15, to the northeast by Bailey Scales Road, and to the north by Parcels 217 and 21.

#### **3.3.1 EAST PLANT AREA GEOLOGY**

The natural soil in the immediate vicinity of the Facility is known as Crider. Crider soil is a fine-grained, silt loam to silty clay loam. Crider soil develops on 20 inches to 45 inches of silty loess over clayey material derived from limestone (USDA, 1985).

The overburden materials at the East Plant Area consist of fill materials, clay, and silt. The thickness of the overburden materials varies considerably across the East Plant Area. Overburden in the East Plant Area is generally thickest in AOIs 4, 5, 6, and 7, (Figure 3.6) where foundry sand placement and other filling activities are known to have occurred historically.

The overburden within the East Plant Area is underlain by the St. Louis and Salem Limestone Formations. The St. Louis Limestone Formation has been identified to be highly weathered and fractured near surface. Fracture density appears to decrease with depth. The highly weathered and fractured St. Louis Limestone is underlain by the Salem Limestone (also known as the Indiana, Bedford, or Oolitic Limestone) which is the

limestone formation utilized by local quarries for fine building stone. The Salem Limestone is also somewhat weathered and fractured at the erosional rock surface but is generally more massive and less weathered and fractured than the St. Louis Limestone. The Salem Limestone becomes more massive with depth.

Additional information on the East Plant Area geology has been previously presented in the Soil Technical Memorandum (TM) (CRA, April 2004) and RCRA Facility Investigation (RFI) Work Plan (CRA, October 2001).

### **3.3.2 EAST PLANT AREA HYDROGEOLOGY**

The Conceptual Site Model for fill/overburden and shallow bedrock groundwater flow is presented on Figure 3.7. This Conceptual Site Model describes the shallow groundwater flow (i.e., unconfined water table) through the unconsolidated overburden and upper fractured/weathered bedrock at the Facility. Recharge to the aquifer occurs through the overburden materials and directly into bedrock, where exposed. Discharge of the shallow bedrock groundwater occurs through springs and seeps in topographically low areas (e.g., creeks and ditches). The results of groundwater sampling across the Facility and the results of the dye trace testing completed in September 2004 support the Conceptual Site Model of the shallow groundwater flow at the Facility. Available bedrock topographic information is presented on Figure 3.8. The location of St. Louis and Salem Limestone outcropping into the ravines (or contacts) surrounding the East Plant Area are presented on Figure 3.9. Water table contours are presented on Figure 3.10. The water table generally occurs at depths of 5 to 15 ft below ground surface (bgs) depending upon location.

### **3.3.3 EAST PLANT AREA HYDROLOGY**

The Facility is situated on a topographic ridge, such that the Facility is drained by surface runoff primarily to the east and northeast in small valleys, which are tributaries of Bailey's Branch of Pleasant Run Creek. According to Facility personnel, surface water runoff from the Facility to the west of the Facility is minimal. The ridge top is approximately 150 ft to 185 ft higher than the valley bottom, located approximately one-half mile northeast of the Facility.

Stormwater from the manufacturing portions (e.g., improved surfaces) of the Facility is currently collected in the Stormwater Lagoon (this water is used as makeup water for plant operations). Stormwater from non-operational portions of the Facility

(i.e., property located north and east of the Stormwater Lagoon) drains directly to several unnamed ditches and eventually to Bailey's Branch of Pleasant Run Creek.

#### 4.0 SOURCE EXCAVATION AND PLACEMENT OF PRESCRIBED ≥50 MG/KG PCB SOIL

##### 4.1 LIMITS OF PRESCRIBED ≥50 MG/KG PCB SOIL REMOVAL

In order to remove PCB mass from the environment as part of the East Plant Area IM, impacted fill material or impacted overburden soil within the East Plant Area, which contains ≥50 mg/kg PCBs at any depth and, which is practical to remove, will be excavated and placed in the vault. Delineation of the ≥50 mg/kg PCB soil is based on the investigations completed during the various phases of the RFI as well as data obtained during the implementation of the Removal action for the Area North of AOI 4. This data was presented in an April 18, 2005 letter to Mr. Peter Ramanauskas. U.S. EPA subsequently requested additional delineation be completed. The additional investigative locations are identified on Figure 4.1. The data utilized in the delineation is also presented in Table 4.1.

The data obtained through the completion of the investigations in the East Plant area, including the additional delineation, was divided into 5-foot intervals for the purpose of defining the limits of material removal. Elevation intervals ranged from 615 - 620 ft AMSL through 720 - 725 ft AMSL. For each of these intervals, the limit of ≥50 mg/kg PCB soil was determined. This information is presented on Drawings C-05 through C-32. For each interval, the limit of <50 mg/kg PCB soil which requires removal to reach ≥50 mg/kg PCB soil at lower elevation intervals, was also determined and is identified on the same drawings. The previously defined limits of ≥50 mg/kg PCB soil [presented in the Interim Measures Evaluation Report - East Plant Area (CRA, April 13, 2005) (East Plant Area IM Report)], were also revised to reflect the limits of material removed as part of RA activities. Figure 4.2 presents a plan view of the final definition of the prescribed excavation limits and identifies the basis for that delineation, described in the East Plant Area IM Report. Figure 4.3 presents these areas which will be excavated as part of this prescribed ≥50 mg/kg PCB soil excavation.

##### 4.2 MATERIAL HANDLING

In general, the following procedures will be utilized for each 5-foot elevation interval during the excavation of ≥50 mg/kg PCB soil:

- Environmental controls (silt fencing, surface water diversions, and air monitoring) will be put in place prior to any intrusive activities. Air monitoring activities will be completed in accordance with the air monitoring procedures identified in the



approved Ambient Air Quality Monitoring Plan (AAQMP). The monitoring requirements are summarized in Table 4.2 and the air monitoring locations are presented on Figure 4.4;

- Overlying soil/fill prescribed as <50 mg/kg PCB soil will be removed, and placed and compacted as backfill in a previously excavated area or within the footprint of the cover system;
- The top of the  $\geq 50$  mg/kg PCB soil will be surveyed;
- Prescribed areas of  $\geq 50$  mg/kg PCB soil (Figure 4.3) will be excavated with vertical to near-vertical (as close to vertical possible) sidewalls. Excavated material will be placed and compacted in the vault;
- The excavation will be surveyed to ensure the limits of removal have been as close to vertical as possibly reached;
- Any prescribed <50 mg/kg PCB soil, which needs to be removed to access material at lower elevations, will be removed, placed and compacted in a previously excavated area or within the footprint of the cover system;
- Spray-on paper mulch will be used to provide an effective additional control for both dust and vapor phase PCBs emissions. The entire waste surface will be mulched, except for the working face during active periods. The working face will then be mulched at the conclusion of each day;
- Additional <50 mg/kg PCB soil fill from the RA will be imported and placed/compacted to bring excavated areas to grade; and
- Disturbed areas designated to receive additional grading fill and/or cover system placement, if subsequent work will not commence within 30 days.

If DNAPL is encountered during the  $\geq 50$  mg/kg PCB soil excavation, it will be placed into a tank for temporary storage. Once a sufficient volume of oil/water has been collected and characterized, the water will be transported for disposal in the wastewater treatment facility, and collected oil disposed at an approved off-Site facility.

All transport, storage, and disposal methods outlined in the Waste Management Plan (WMP) provided in the Downstream Parcels Removal Action Work Plan (CRA, 2004) will be followed for collected DNAPL. Solids/debris will be removed, as necessary, characterized, and properly disposed of in accordance with the WMP.

Should buried containers be found during excavation, containers will be handled in accordance with the standard operation procedures for drum handling provided in Appendix A. Contents inside the container will be sampled, and transported to a secure

staging area on GMPT property pending characterization and proper disposal of the waste.

#### **4.2.1 PHASING OF SOIL REMOVAL**

A portion of the prescribed  $\geq 50$  mg/kg PCB soil which is adjacent to the proposed vault will need to be excavated and temporarily staged pending completion of the vault liner. This material will be staged, as necessary, utilizing the existing staging pads on AOI 4. If additional space is required, an additional staging area will be constructed. The quantity of material required to be staged will be minimized. This material is anticipated to be staged for approximately 45-75 days. If an unanticipated delay results in staging beyond the 180-day time frame identified in the TSCA regulations, an extension will be requested. Wherever practical, prescribed  $\geq 50$  mg/kg PCB soil will be directly excavated and placed into the vault.

During the initial stages of excavation, a portion of the  $< 50$  mg/kg PCB soil will need to be temporarily staged until a sufficient amount of  $\geq 50$  mg/kg PCB soil has been removed to begin backfilling. It is estimated that approximately 10,000 cy of  $< 50$  mg/kg PCB soil will be temporarily stockpiled.

#### **4.2.2 LIMITATIONS ON SOIL REMOVAL DUE TO TECHNICAL IMPRACTICABILITY**

Portions of the prescribed  $\geq 50$  mg/kg PCB soil within or adjacent to the AOI 8 and AOI 10 areas were identified, in the East Plant Area IM Report, as impractical to remove. In the AOI 8 area, numerous underground utilities and structures, combined with the depth of the impacted material, makes excavation of soil in this area impractical. In areas adjacent to AOI 10 slope stability concerns next to the storm pond make portions of the  $\geq 50$  mg/kg PCB soil impractical to excavate. These areas are identified on Figure 4.2, and on Drawings C-03 and C-04.

#### **4.3 USE OF $< 50$ MG/KG PCB SOIL FROM THE REMOVAL ACTION**

A significant volume of backfill material will be required to be placed to backfill excavations of  $\geq 50$  mg/kg PCB soil, and to grade the East Plant Area surface to optimized cover system grades. Suitable material for use as backfill under the low permeability cover is available from the RA. The RA soils to be utilized are those soil

materials containing <50 mg/kg PCBs. During placement the backfill material will be compacted to control differential settlement of the East Plant Area cover system, once constructed.

All <50 mg/kg PCB soil will be managed to mitigate runoff, ensure any potentially contaminated runoff is collected, and to ensure dust/air emissions are controlled. The controls will include silt fences and hay bales enclosing the stockpiles as well as along drainage pathways. Stockpiles not in use will be covered. All water that contacts <50 mg/kg PCB soil will be contained and directed to collection sumps. Water will be collected from these sumps and treated prior to discharge. The quantity of water requiring treatment will be minimized by the placement of tarps during inactive grading fill placement periods to minimize contact of precipitation with the grading fill.

#### **4.4 STORMWATER CONTROL**

Stormwater controls, including check dams, diversion dikes and drainage swales to control run-on from adjacent areas, will be constructed prior to initiating significant excavation. Within the work area, any water which collects will be considered to be impacted and will be collected for treatment prior to discharge. Construction of stormwater controls prior to initiating excavation will control the potential for off-Site releases and minimize the amount of stormwater that contacts contaminated material.

The contractor will be required to control stormwater runoff in order to meet the following requirements:

- i) prevent surface water runoff from flowing from contaminated areas to clean areas;
- ii) minimize stormwater entering a work zone from adjacent areas and ponding on-Site in excavated areas through use of temporary berms/swales, proper grading, and by expediting backfilling of excavations;
- iii) ensure that IM activities do not impact stormwater runoff; and
- iv) create a low area within each excavation (sump) to collect and remove water from the excavation. Excavations will be maintained dewatered to the extent practical.

This stormwater will be transferred from the sump(s) to the wastewater treatment facility for treatment prior to discharge.

## 5.0 CONSTRUCTION SUPPORT FACILITIES

The following sections present descriptions of the construction support facilities required for the source removal and filling.

### 5.1 SITE OFFICES

Site offices will be established, as needed, for the source removal activities.

### 5.2 EMERGENCY FIRST AID FACILITIES

The Contractor will be required to supply and maintain first aid facilities at each major work area. The first aid supplies must comply with the requirements of 29 CFR 1910.141.

### 5.3 FIRE FIGHTING EQUIPMENT

The Contractor will be required to provide fire fighting equipment to ensure the safety of Site personnel. Details regarding the fire fighting equipment will be proposed by the Contractor in the Contractor's Site-specific HASP. Coordination will be established with the local Fire Department and emergency responders.

### 5.4 DECONTAMINATION FACILITIES

Prior to commencing work in an Exclusion Zone at the Site, the Contractor will be required to supply and operate a personnel hygiene/decontamination facility. The Contractor will also construct and maintain equipment decontamination pads at the Site, as required.

Wastewater from the personnel hygiene/ decontamination facility will be pumped to designated storage tanks for on-Site treatment.

### 5.5 PORTABLE SANITARY FACILITIES

Portable toilet facilities will be provided and maintained by the Contractor in an area outside the Exclusion Zone. Sanitary wastes will be removed and disposed of off Site,

on a periodic basis, in accordance with applicable laws and regulations, or will be disposed of directly to the sanitary sewer.

#### **5.6 UTILITIES**

The Contractor will be responsible for providing electrical power, potable water, telephone service, and other utilities, as required, for the construction support facilities.

#### **5.7 SITE COMMUNICATIONS**

Portable two-way radios will be available for Site communications, during vault construction and filling, and for any operations in which direct visual and verbal contact is not feasible. The Contractor will be required to provide two-way radios for use by the Engineer, the Site Safety Officer, and the security personnel, as necessary. Suitable warning signals such as horns or whistles shall be designated for emergencies and identified in the Contractor's Site-specific HASP.

#### **5.8 ACCESS ROADS**

On-Site access roads will be constructed or improved, as necessary. All imported granular materials used for the construction of access roads, which contact contaminated soils during the course of the construction, will be placed within the vault as part of the grading fill for the East Plant Area cover system.

#### **5.9 PARKING**

Sufficient space for parking for Site personnel will be established by the Contractor at suitable on-Site locations. In the event an established parking area becomes encumbered by specific Site-related operations, temporary alternate space shall be provided.

## 6.0 INSTITUTIONAL CONTROLS AND MONITORING

Security measures to restrict access into source areas for the duration of vault construction and filling activities will include Site perimeter fencing with locking gates to completely enclose the work area and the ongoing presence of plant security (present 24-hours per day).

Following the completion of excavation and vault construction and filling, the need for permanent institutional controls and deed restrictions to restrict access, land use, and development will be evaluated. Where institutional controls are no longer required, the temporary fencing will be removed.

## 7.0 PROJECT SCHEDULE

A detailed project schedule identifying the proposed phasing and duration of excavation and material placement activities will be developed and submitted by the Contractor. The overall implementation of the vault construction, prescribed  $\geq 50$  mg/kg PCB soil material excavation, filling of the vault, and backfilling with prescribed  $< 50$  mg/kg PCB soils is anticipated to require approximately 5 months to complete.

Following mobilization, the contractor will commence excavation of  $\geq 50$  mg/kg and  $< 50$  mg/kg PCB material from excavation area 2 (Drawing C-05). After removal of the initial  $\geq 50$  mg/kg PCB material for placement in the vault, the adjacent  $< 50$  mg/kg PCB material (approximately 10,000 c.y.) will be staged in an existing grading area or within a separately approved staging pad (This temporary staging of  $< 50$  mg/kg PCB materials will only be required until enough space becomes available in the  $\geq 50$  mg/kg PCB material excavations to allow  $< 50$  mg/kg PCB material removed from adjacent excavations to be placed directly as backfill). Once the prescribed  $\geq 50$  mg/kg PCB area is exposed beneath the previously excavated  $< 50$  mg/kg PCB material, the  $\geq 50$  mg/kg PCB material will be excavated and placed directly in the vault. Upon completion of removal of the  $\geq 50$  mg/kg PCB material, the staged  $< 50$  mg/kg material will be replaced and compacted in the excavation. (If the excavated  $< 50$  mg/kg PCB material is placed in an adjacent grading area (instead of the temporary staging area), other  $< 50$  mg/kg PCB material from the off-Site RA activities may be used to backfill the excavation). The excavation of material in excavation area 2 has been estimated to take 23 days. Removal of prescribed material in excavation area 1 will be completed in a similar fashion once the excavation of  $< 50$  mg/kg material in excavation area 2 is completed, although a temporary stockpile will not be required as the excavated material from excavation area 1 will be used to fill up excavation area 2. The excavation of material in excavation area 1 will take approximately 30 days. The total time for completion of the excavation areas is estimated as 40 days.

Final cap placement over the vault is weather dependent and may be completed in 2006, should suitable weather conditions not exist at the completion of filling.

## 8.0 COMMUNITY RELATIONS

Community relations activities and community participation in the review of the East Plant Area IM, including the prescribed  $\geq 50$  mg/kg PCB soil removal includes:

- project fact sheets specific to the East Plant Area IM activities, including the vault design and construction and soil removal activities;
- project web site;
- GM organized community meetings for neighbors and the general public; and
- Community Liaison Panel (CLP) involvement.

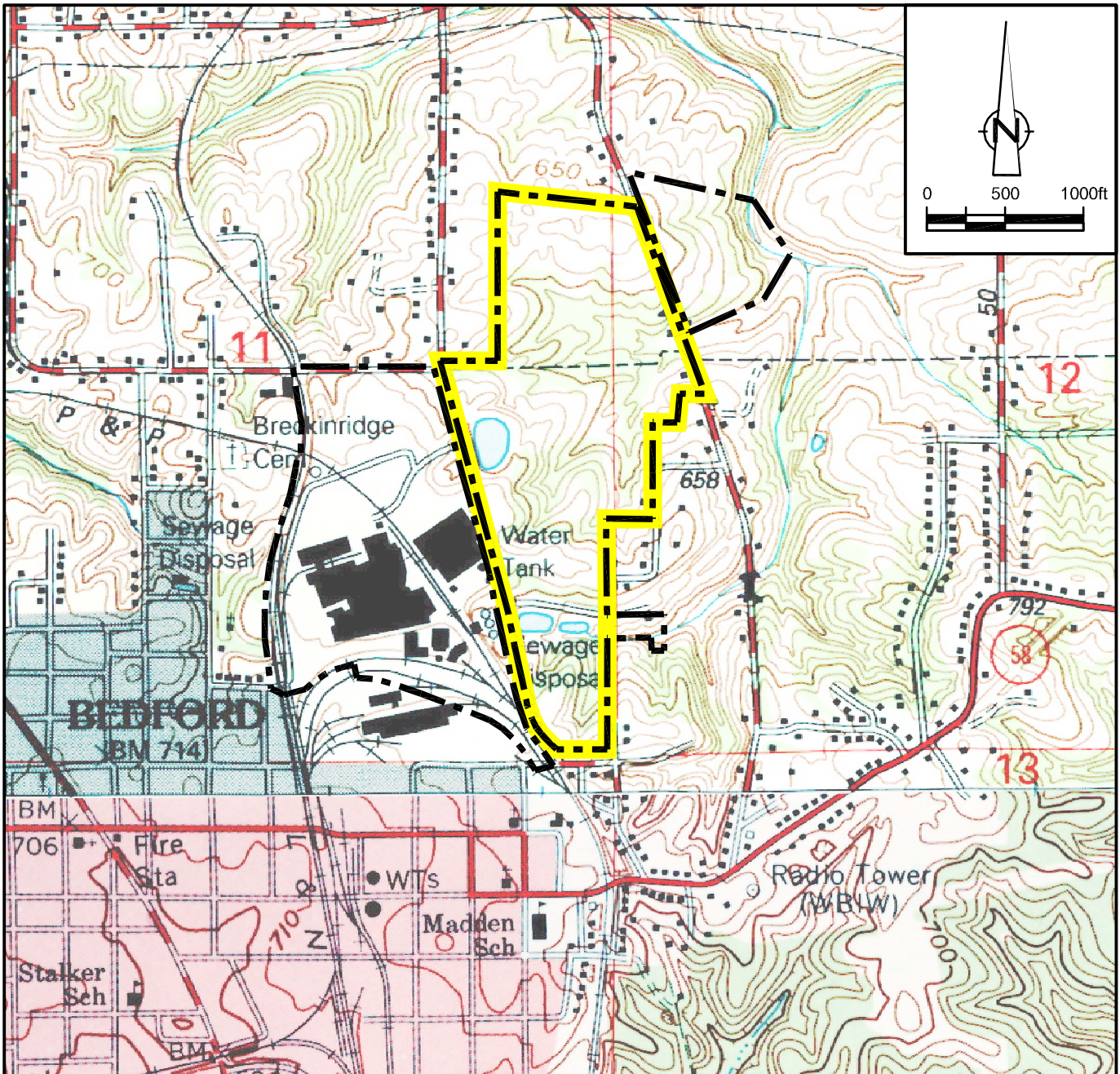


## 9.0 REFERENCES

- Conestoga-Rovers & Associates, Inc., Pre-Final (95%) Design – East Plant Area Vault (Draft for Review), June 2005.
- Conestoga-Rovers & Associates, Inc., Interim Measures Alternatives Review Report, East Plant Area, April 2005.
- Conestoga-Rovers & Associates, Inc., Ambient Air Quality Monitoring Plan (AAQMP), May 2004.
- Conestoga-Rovers & Associates, Inc., Consolidated Health and Safety Plan (HASP), November 2004.
- Conestoga-Rovers & Associates, Inc., Quality Assurance Project Plan (QAPP) Rev. 1.0, August 13, 2003.
- Conestoga-Rovers & Associates, Inc., Quality Assurance Project Plan (QAPP) Addendum No. 1 (Rev. 1.1), December 21, 2004.
- Conestoga-Rovers & Associates, Inc., Technical Memorandum, RCRA Facility Investigation (RFI), Soil; Sediment; Surface Water; Wipe Sampling (Soil TM), April 14, 2004.
- Conestoga-Rovers & Associates, Inc., RCRA Facility Investigation Work Plan (RFI Work Plan), October 29, 2001.
- Etzel, J.E., 1982, Geological History of Bedford Plant Site Area, unpublished report provided to General Motors.
- Fenelon, J.M., K.E. Bobay, et. al, 1994, Hydrogeologic Atlas of Aquifers in Indiana, U.S. Geological Survey, Water Resources Investigations Report 92-4142.
- Gray, H.H., 1974, Glacial Lake Sediments in Salt Creek Valley near Bedford, Indiana, Department of Natural Resources, Geological Survey Occasional Paper 1, Indiana Geological Survey, 2001, website (<http://www.adamite.igs.indiana.edu/index.htm>, 2001).
- Melhorn, W.N., and N.M. Smith, 1959, The Mt. Carmel Fault and Related Structural Features in South-Central Indiana, Indiana Department of Conservation, Geological Survey, Report of Progress No. 16.
- Powell, R.L., 2001, Personal Communication.
- Powell, R.L., 1976, Some Geomorphic and Hydrologic Implications of Jointing in Carbonate Strata of Mississippian Age in South-Central Indiana, Ph.D. thesis, Purdue University.
- U.S. Department of Agriculture, 1985, Soil Survey of Lawrence County, Indiana, Soil Conservation Service.

May 26, 2006

U.S. EPA, 1989d, Requirements for hazardous waste landfill design, construction and closure. EPA/625/4-89/022. U.S. Environmental Protection Agency, Washington, DC.



BASE SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLES;  
 BARTLETTSVILLE, INDIANA 1994  
 BEDFORD EAST, INDIANA 1978  
 BEDFORD WEST, INDIANA 1993  
 OOLITIC, INDIANA 1987



**LEGEND**

- FACILITY BOUNDARY
- EAST PLANT AREA

figure 1.1

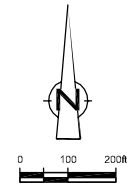
**FACILITY LOCATION  
 OVER 50 mg/kg PCB SOIL REMOVAL  
 GM POWERTRAIN BEDFORD FACILITY  
 Bedford, Indiana**







NO	Revision	Date	Initial



- LEGEND**
- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
  - APPROXIMATE GM PROPERTY BOUNDARY
  - STREAMS
  - FENCE LINE
  - RAILROAD TRACKS
  - DIRT ROADS
  - ROADS / PAVED AREAS
  - EAST PLANT AREA

**SCALE VERIFICATION**  
 THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
 BEDFORD, INDIANA**  
 OVER 50 mg/kg PCB SOIL REMOVAL  
 FACILITY PLAN



Source Reference:  
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI APRIL 2001

Project Manager: JJA	Reviewed By: D.C.	Date: MAY 2006
Scale: AS SHOWN	Project N°: 13968-00	Report N°: 162
Drawing N°: figure 1.2		

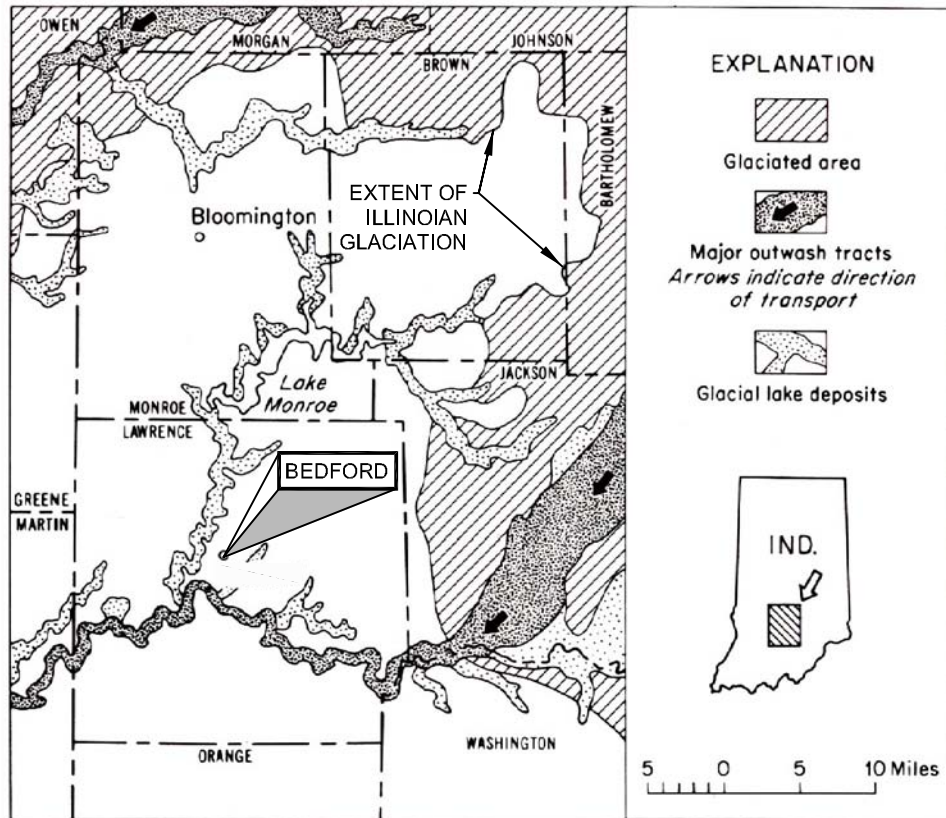


figure 3.1

GLACIAL FEATURES OF SOUTH-CENTRAL INDIANA  
 OVER 50 mg/kg PCB SOIL REMOVAL  
 GM POWERTRAIN BEDFORD FACILITY  
*Bedford, Indiana*



SOURCE: GRAY, 1974



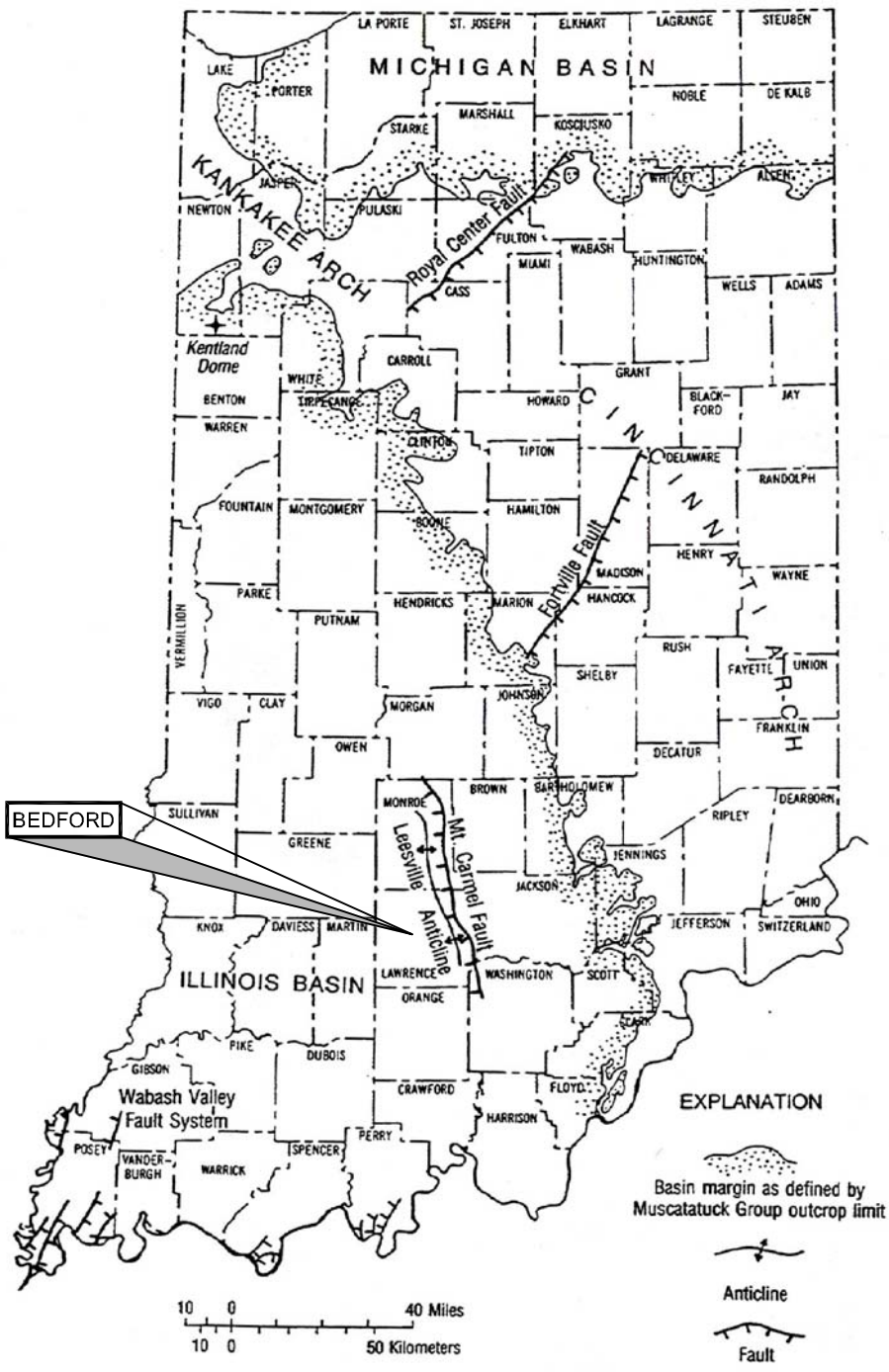


figure 3.2








**BEDROCK STRUCTURAL FEATURES OF INDIANA  
OVER 50 mg/kg PCB SOIL REMOVAL  
GM POWERTRAIN BEDFORD FACILITY  
*Bedford, Indiana***



SOURCE: RUPP, 1991

# MAP SYMBOLS

## Bedrock Geology

-  **Middle Pennsylvanian:** Sandstone, shale, limestone, coal
-  **Late Mississippian to Early Pennsylvanian:** Sandstone, shale, and limestone
-  **Middle Mississippian:** Limestone
-  **Early to Middle Mississippian:** Siltstone and shale
-  **Middle Devonian to Early Mississippian:** Black shale
-  **Silurian and Devonian:** Limestone and dolomite
-  **Late Ordovician:** Shale and limestone

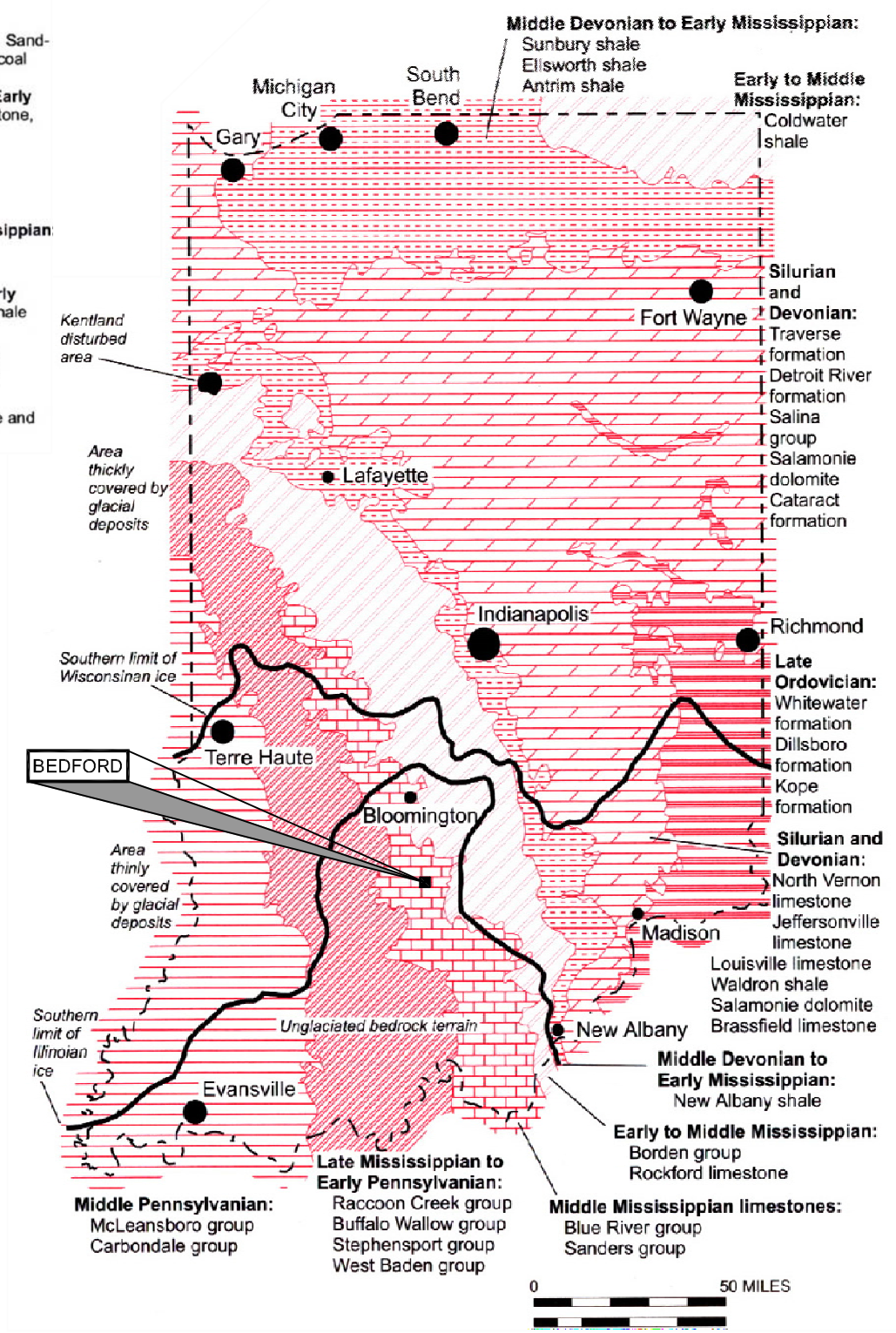


figure 3.3

## BEDROCK GEOLOGY OF INDIANA OVER 50 mg/kg PCB SOIL REMOVAL GM POWERTRAIN BEDFORD FACILITY *Bedford, Indiana*



SOURCE: CAMP AND RICHARDSON, 1999



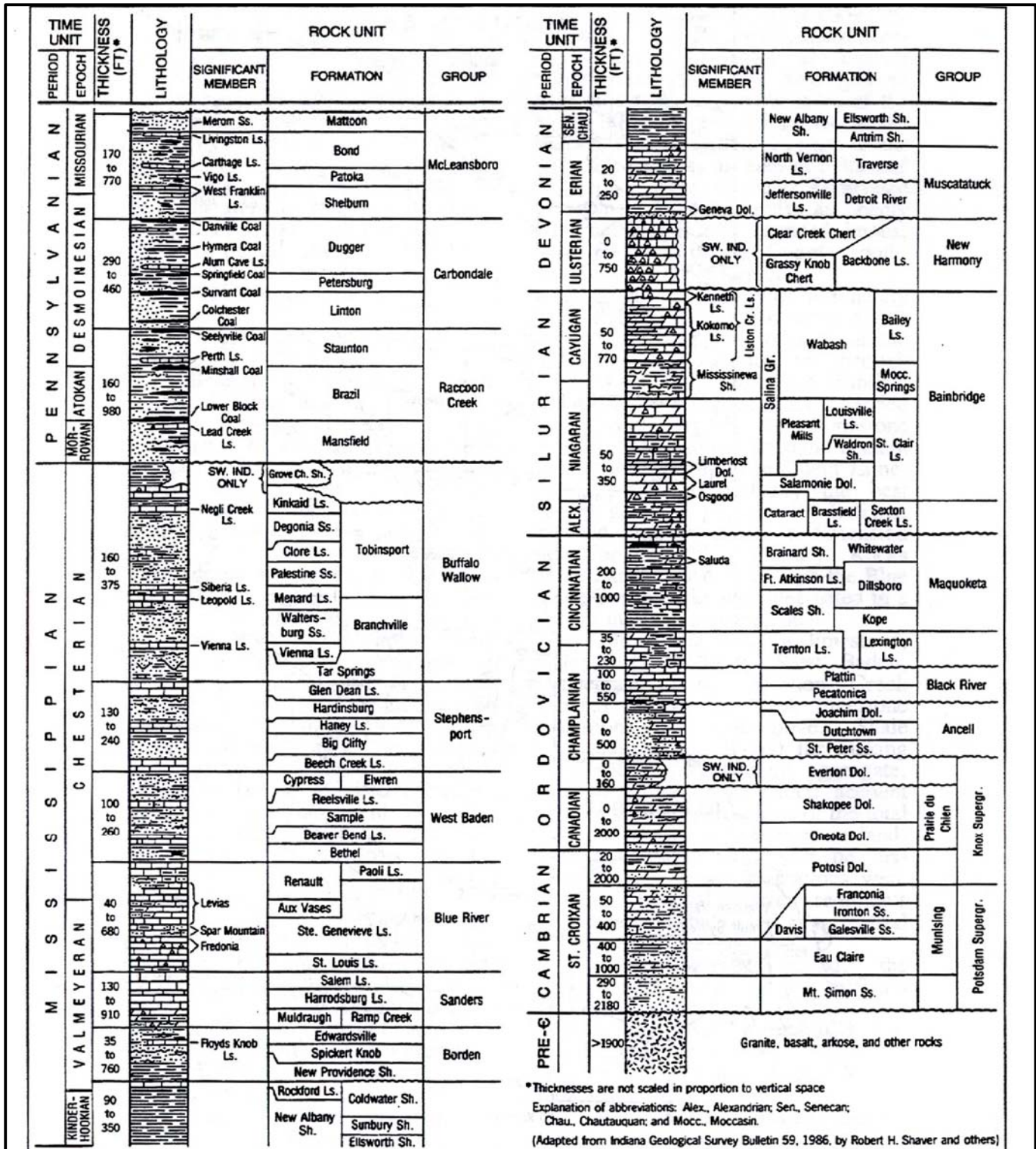


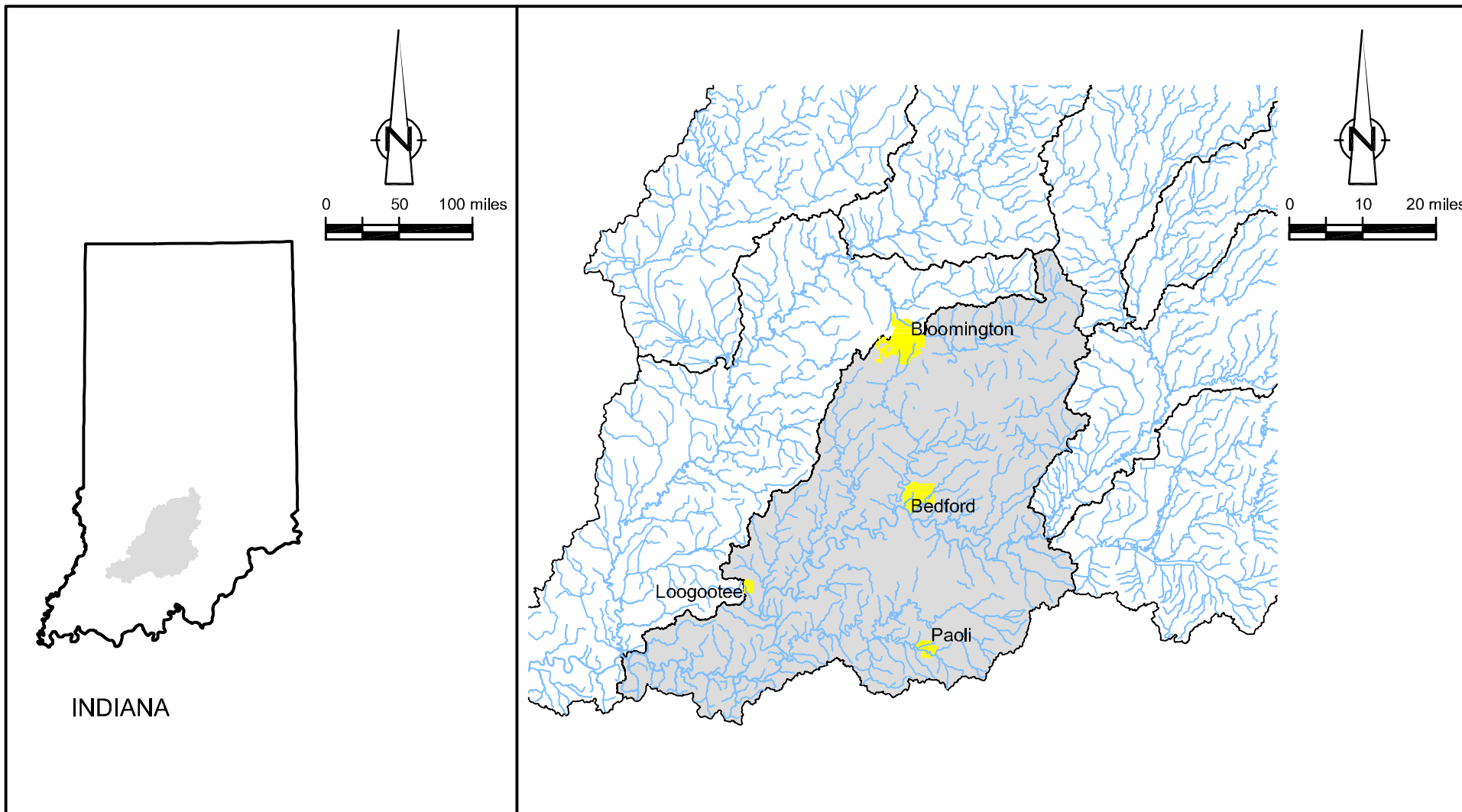
figure 3.4

GENERALIZED STRATIGRAPHIC COLUMN  
FOR PALEOZOIC ROCKS IN INDIANA  
OVER 50 mg/kg PCB SOIL REMOVAL  
GM POWERTRAIN BEDFORD FACILITY  
Bedford, Indiana



SOURCE: HILL, UNDATED





SOURCE: SOURCE: INDIANA GEOLOGICAL SURVEY, INDIANA DEPARTMENT OF TRANSPORTATION

figure 3.5

LOWER EAST FORK WHITE RIVER  
 DRAINAGE BASIN  
 OVER 50 mg/kg PCB SOIL REMOVAL  
 GM POWERTRAIN BEDFORD FACILITY  
*Bedford, Indiana*



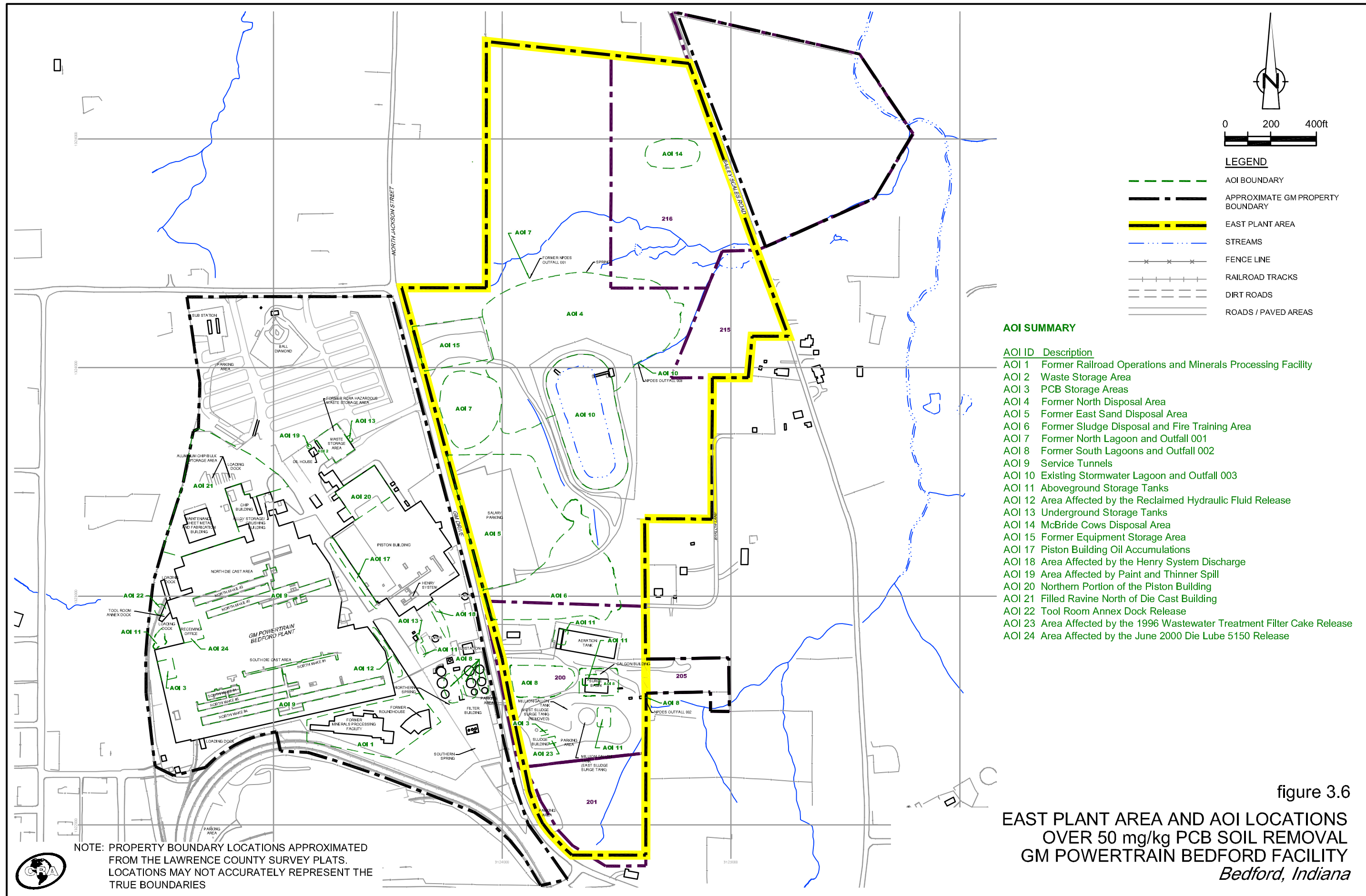
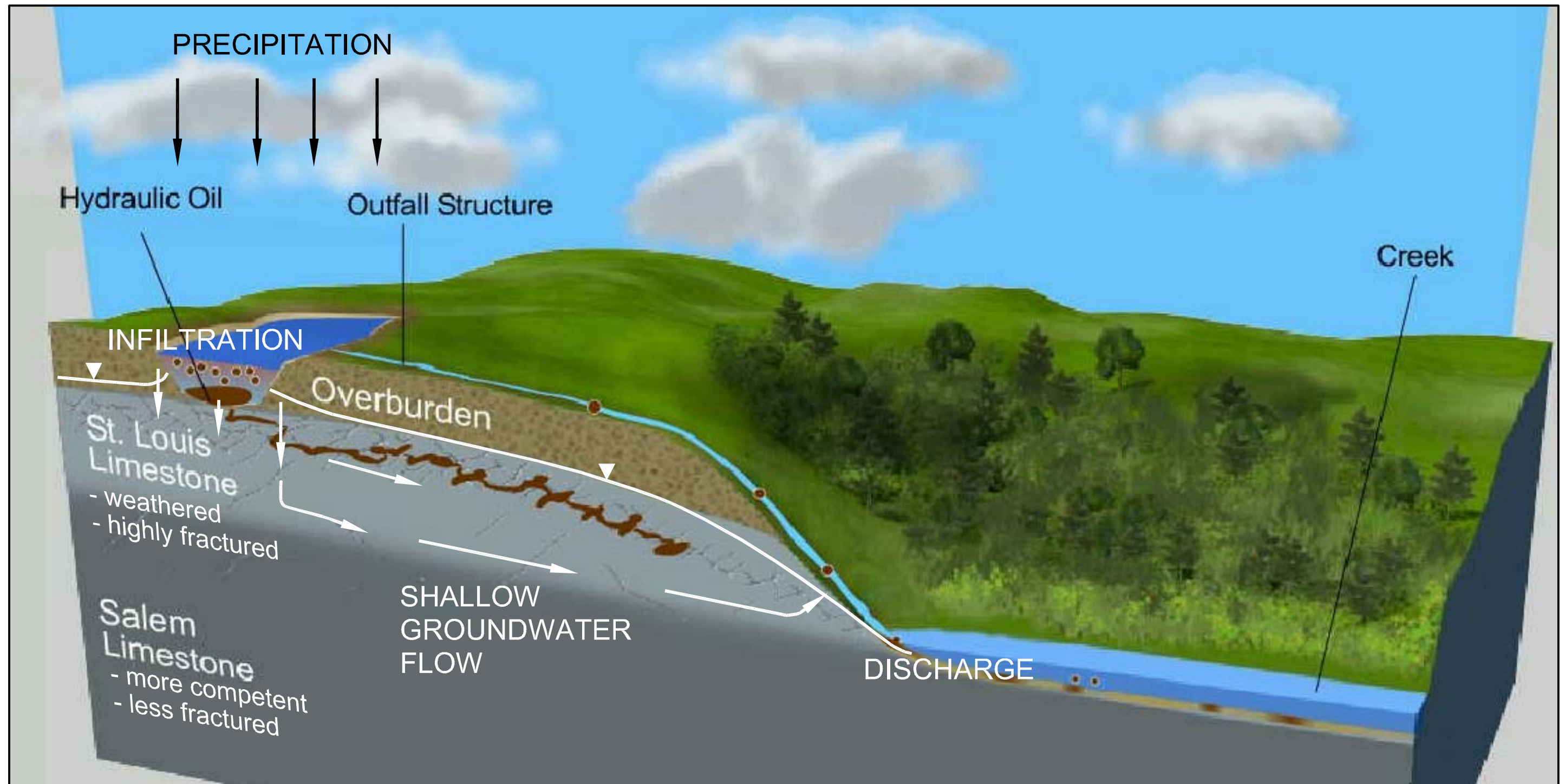


figure 3.6  
**EAST PLANT AREA AND AOI LOCATIONS  
 OVER 50 mg/kg PCB SOIL REMOVAL  
 GM POWERTRAIN BEDFORD FACILITY  
 Bedford, Indiana**





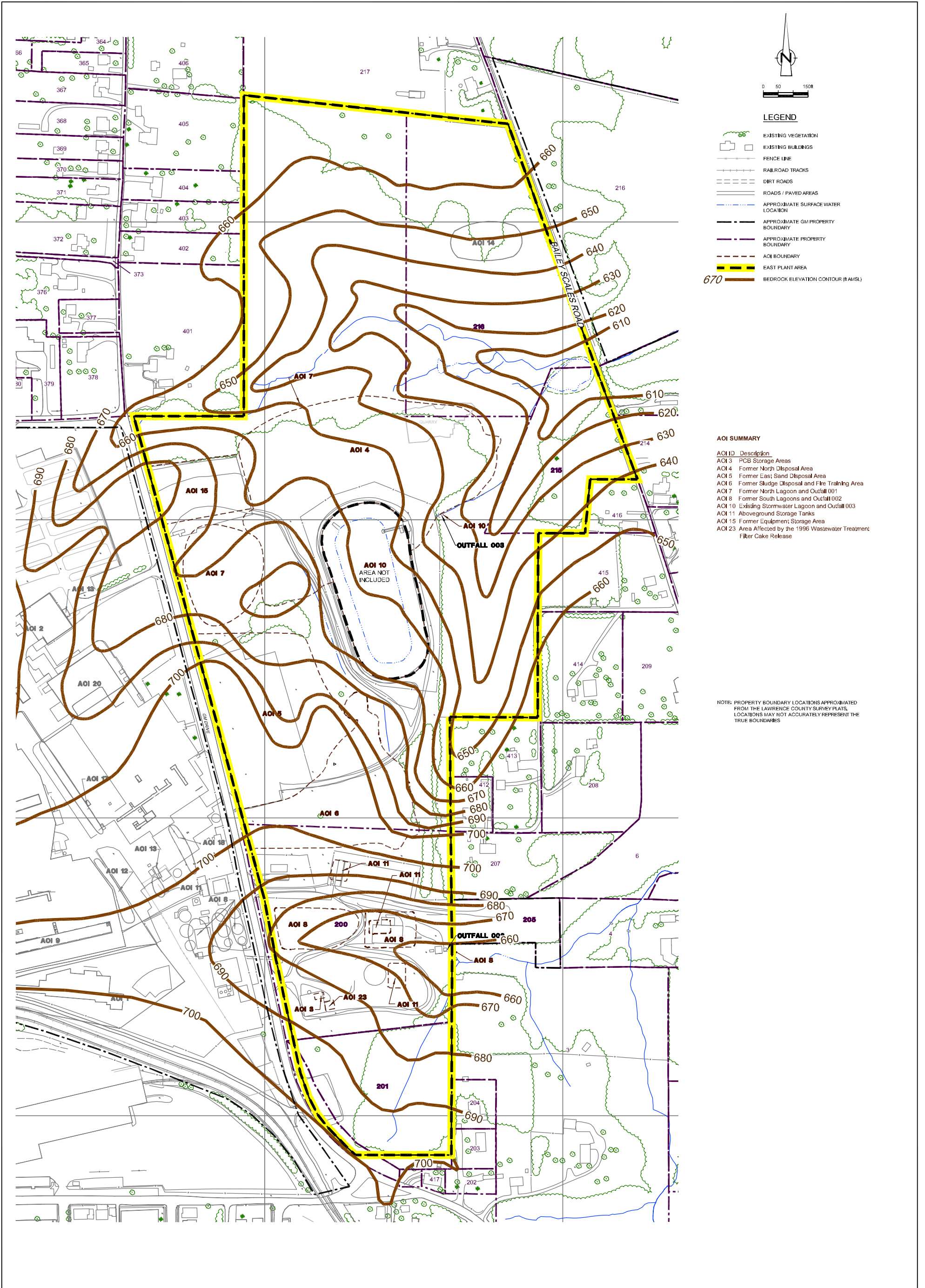
NOTE:  
REPRESENTATIVE OF HISTORICAL CONDITION.

figure 3.7

OVERBURDEN AND SHALLOW BEDROCK CONCEPTUAL SITE MODEL FOR HISTORIC MIGRATION OF OIL AND SHALLOW GROUNDWATER FLOW  
OVER 50 mg/kg PCB SOIL REMOVAL  
GM POWERTRAIN BEDFORD FACILITY  
*Bedford, Indiana*







**LEGEND**

- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- BEDROCK ELEVATION CONTOUR (BAMSL)

- AOI SUMMARY**
- AOI ID Description
  - AOI 3 PCB Storage Areas
  - AOI 4 Former North Disposal Area
  - AOI 5 Former East Sand Disposal Area
  - AOI 6 Former Sludge Disposal and Fire Training Area
  - AOI 7 Former North Lagoon and Outfall 001
  - AOI 8 Former South Lagoons and Outfall 002
  - AOI 10 Existing Stormwater Lagoon and Outfall 003
  - AOI 11 Aboveground Storage Tanks
  - AOI 15 Former Equipment Storage Area
  - AOI 23 Area Affected by the 1996 Wastewater Treatment Filter Cake Release

NOTE: PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES

N2	Revision	Date	Initial

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved \_\_\_\_\_

**GM POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

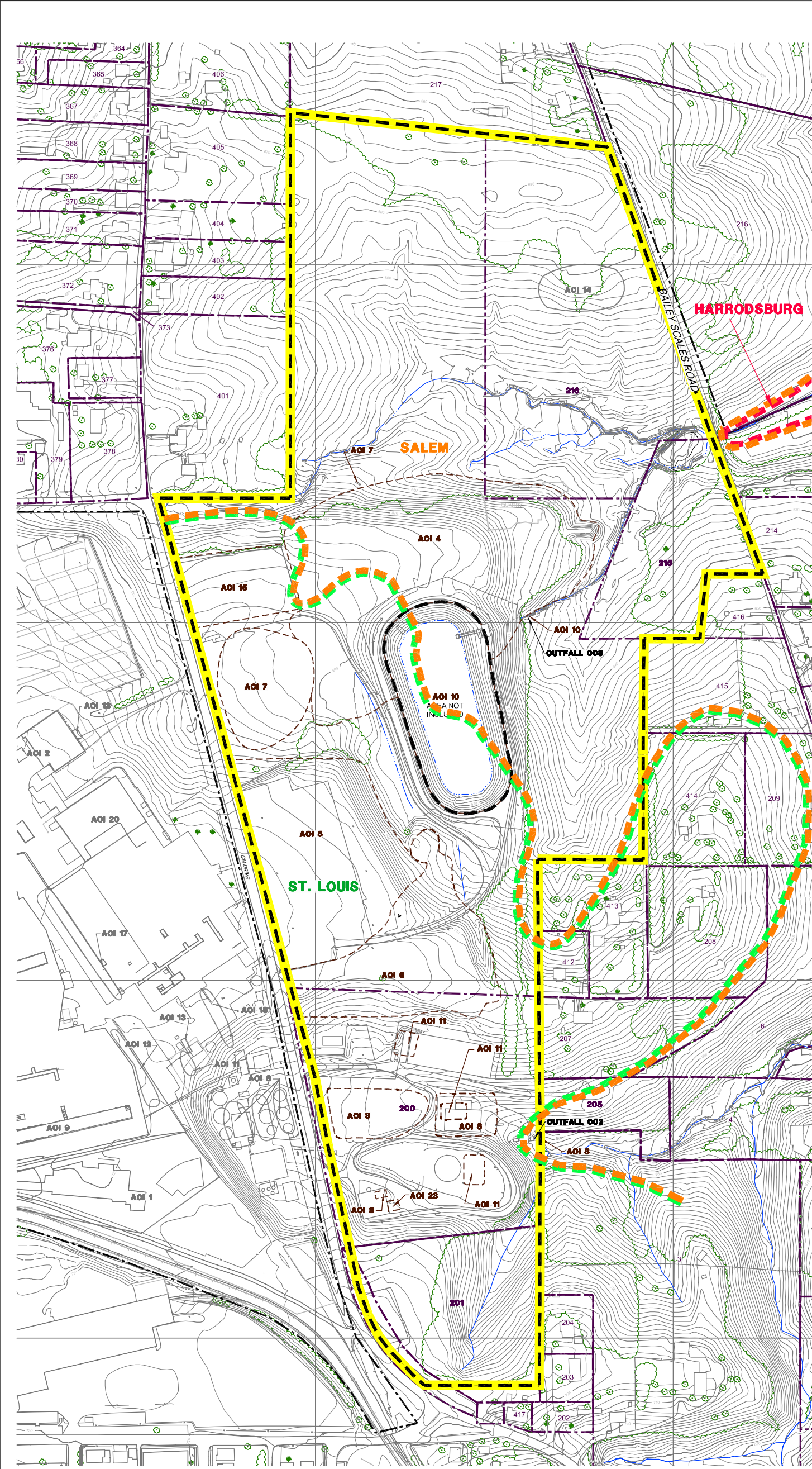
**BEDROCK TOPOGRAPHY**


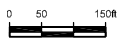
**CONESTOGA-ROVERS & ASSOCIATES**

Source References:  
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001.

















Project Manager: J.M.	Reviewed By: D.C.	Date: MAY 2006
Scale: AS SHOWN	Project N <sup>o</sup> : 13968-00	Report N <sup>o</sup> : 162
		Drawing N <sup>o</sup> : figure 3.8





**LEGEND**

-  EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
-  EXISTING VEGETATION
-  EXISTING BUILDINGS
-  FENCE LINE
-  RAILROAD TRACKS
-  DIRT ROADS
-  ROADS / PAVED AREAS
-  APPROXIMATE SURFACE WATER LOCATION
-  APPROXIMATE GM PROPERTY BOUNDARY
-  APPROXIMATE PROPERTY BOUNDARY
-  AOI BOUNDARY
-  EAST PLANT AREA
-  APPROXIMATE BEDROCK FORMATION CONTACT
-  GREEN INDICATES ST. LOUIS FORMATION
-  ORANGE INDICATES SALEM FORMATION
-  RED INDICATES HARRODSBURG FORMATION

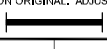
- AOI SUMMARY**
- |        |                                                                    |
|--------|--------------------------------------------------------------------|
| AOI ID | Description                                                        |
| AOI 3  | PCB Storage Areas                                                  |
| AOI 4  | Former North Disposal Area                                         |
| AOI 5  | Former East Sand Disposal Area                                     |
| AOI 6  | Former Sludge Disposal and Fire Training Area                      |
| AOI 7  | Former North Lagoon and Outfall 001                                |
| AOI 8  | Former South Lagoons and Outfall 002                               |
| AOI 10 | Existing Stormwater Lagoon and Outfall 003                         |
| AOI 11 | Aboveground Storage Tanks                                          |
| AOI 15 | Former Equipment Storage Area                                      |
| AOI 23 | Area Affected by the 1996 Wastewater Treatment Filter Cake Release |

NOTE: PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES

N2	Revision	Date	Initial

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.




Approved \_\_\_\_\_

**GM POWERTRAIN BEDFORD FACILITY**  
BEDFORD, INDIANA

**OVER 50 mg/kg PCB SOIL REMOVAL**

**APPROXIMATE BEDROCK FORMATION CONTACT LOCATIONS**



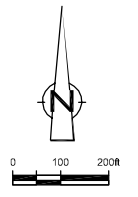
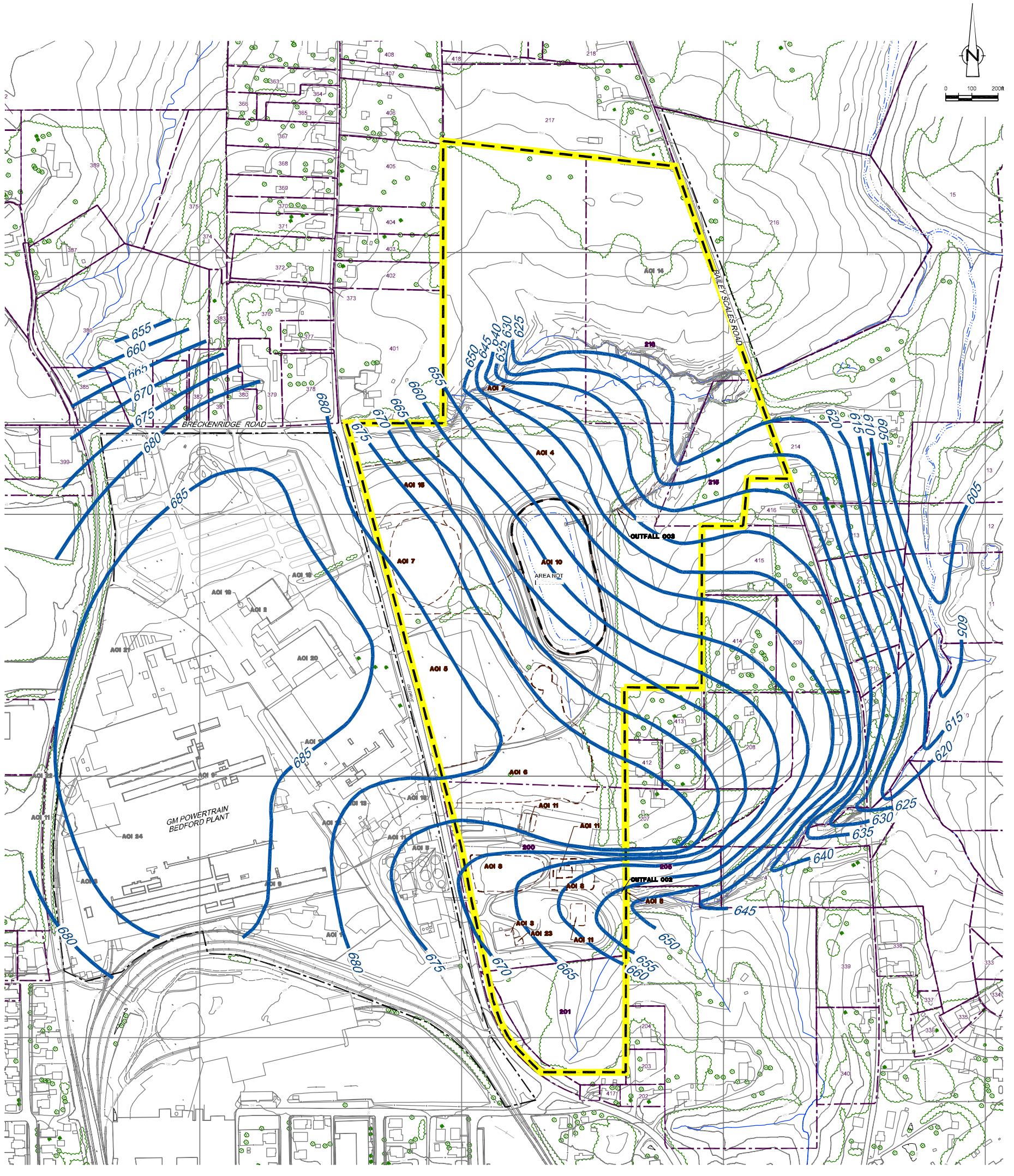
**CONESTOGA-ROVERS & ASSOCIATES**

Source References:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001.

Project Manager: J.M.	Reviewed By: D.C.	Date: MAY 2006
Scale: AS SHOWN	Project N <sup>o</sup> : 13968-00	Report N <sup>o</sup> : 162
		Drawing N <sup>o</sup> : figure 3.9

13968-00(162)GN-WA033 MAY 29/2006





**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- WATER TABLE ELEVATION CONTOUR (feet AMSL)

**AOI SUMMARY**

- | AOI ID | Description                                                        |
|--------|--------------------------------------------------------------------|
| AOI 3  | PCB Storage Areas                                                  |
| AOI 4  | Former North Disposal Area                                         |
| AOI 5  | Former East Sand Disposal Area                                     |
| AOI 6  | Former Sludge Disposal and Fire Training Area                      |
| AOI 7  | Former North Lagoon and Outfall 001                                |
| AOI 8  | Former South Lagoons and Outfall 002                               |
| AOI 10 | Existing Stormwater Lagoon and Outfall 003                         |
| AOI 11 | Aboveground Storage Tanks                                          |
| AOI 15 | Former Equipment Storage Area                                      |
| AOI 23 | Area Affected by the 1996 Wastewater Treatment Filter Cake Release |

NOTE: PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES

670  
NOVEMBER 22, 2004

N2	Revision	Date	Initial

SCALE VERIFICATION	
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.	
Approved	

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

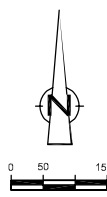
**SHALLOW GROUNDWATER TABLE  
CONTOURS AND FLOW DIRECTIONS**

**CONESTOGA-ROVERS & ASSOCIATES**

Source References:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001.

Project Manager: J.M.	Reviewed By: D.C.	Date: MAY 2006
Scale: AS SHOWN	Project N°: 13968-00	Report N°: 162 Drawing N°: figure 3.10

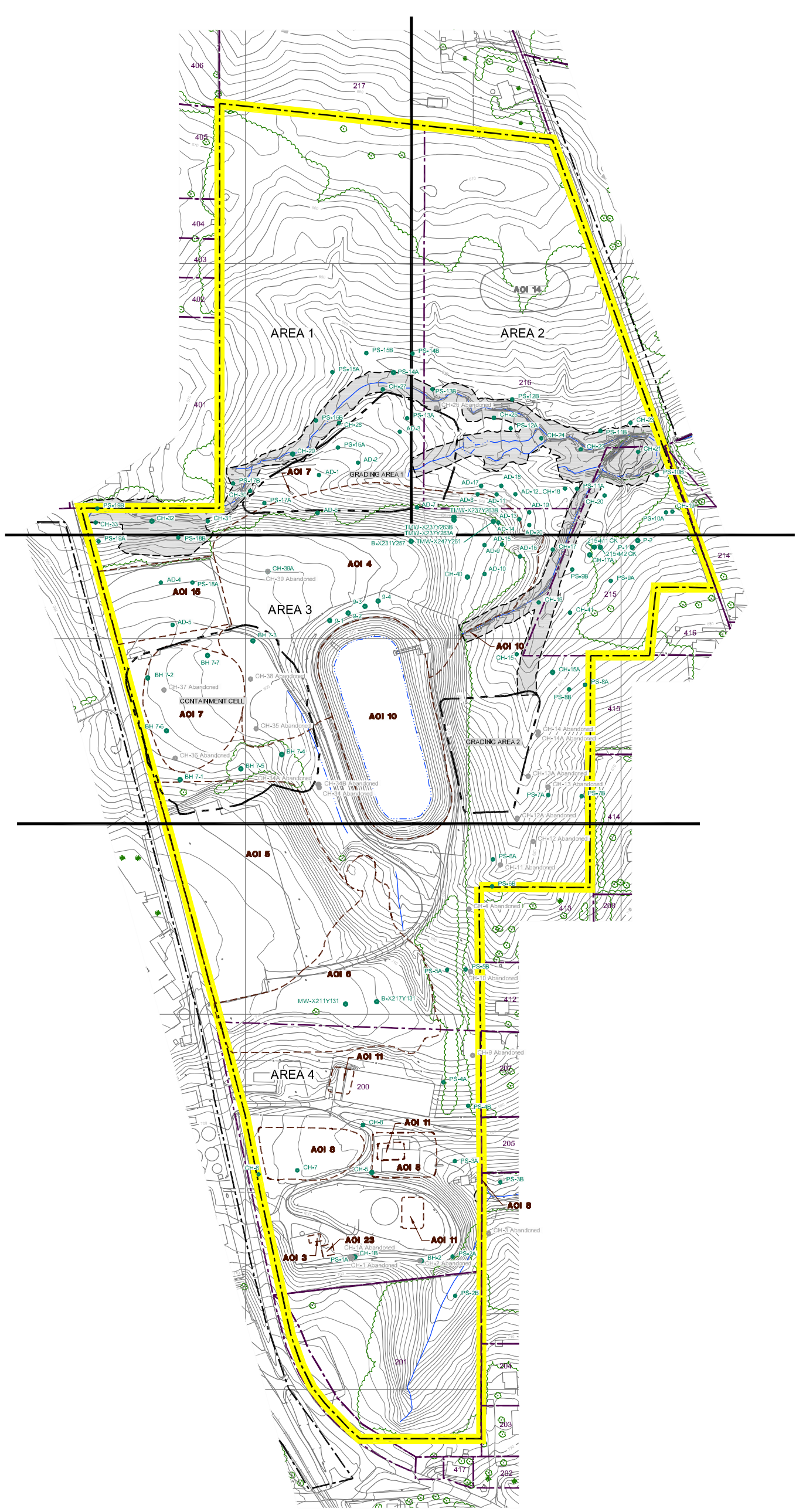




- LEGEND**
- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
  - EXISTING VEGETATION
  - EXISTING BUILDINGS
  - FENCE LINE
  - RAILROAD TRACKS
  - DIRT ROADS
  - ROADS / PAVED AREAS
  - APPROXIMATE SURFACE WATER LOCATION
  - APPROXIMATE GM PROPERTY BOUNDARY
  - APPROXIMATE PROPERTY BOUNDARY
  - AOI BOUNDARY
  - EAST PLANT AREA
  - REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
  - ABANDONED COREHOLE LOCATION
  - COREHOLE AND BOREHOLE LOCATION

- AOI SUMMARY**
- | AOI ID | Description                                                        |
|--------|--------------------------------------------------------------------|
| AOI 3  | PCB Storage Areas                                                  |
| AOI 4  | Former North Disposal Area                                         |
| AOI 5  | Former East Sand Disposal Area                                     |
| AOI 6  | Former Sludge Disposal and Fire Training Area                      |
| AOI 7  | Former North Lagoon and Outfall 001                                |
| AOI 8  | Former South Lagoons and Outfall 002                               |
| AOI 10 | Existing Stormwater Lagoon and Outfall 003                         |
| AOI 11 | Aboveground Storage Tanks                                          |
| AOI 15 | Former Equipment Storage Area                                      |
| AOI 23 | Area Affected by the 1996 Wastewater Treatment Filter Cake Release |

NOTE: PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES.



NO	Revision	Date	Initial

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved \_\_\_\_\_

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

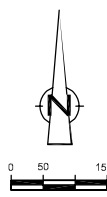
**OVER 50 mg/kg PCB SOIL REMOVAL**

**EAST PLANT AREA COREHOLE AND  
BOREHOLE LOCATIONS**

Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001.

Project Manager: J.M.	Reviewed By: J.S.	Date: MAY 2006
Scale: AS SHOWN	Project No. #: 13968-00	Report No. #: 162
		Drawing No. #: figure 4.1

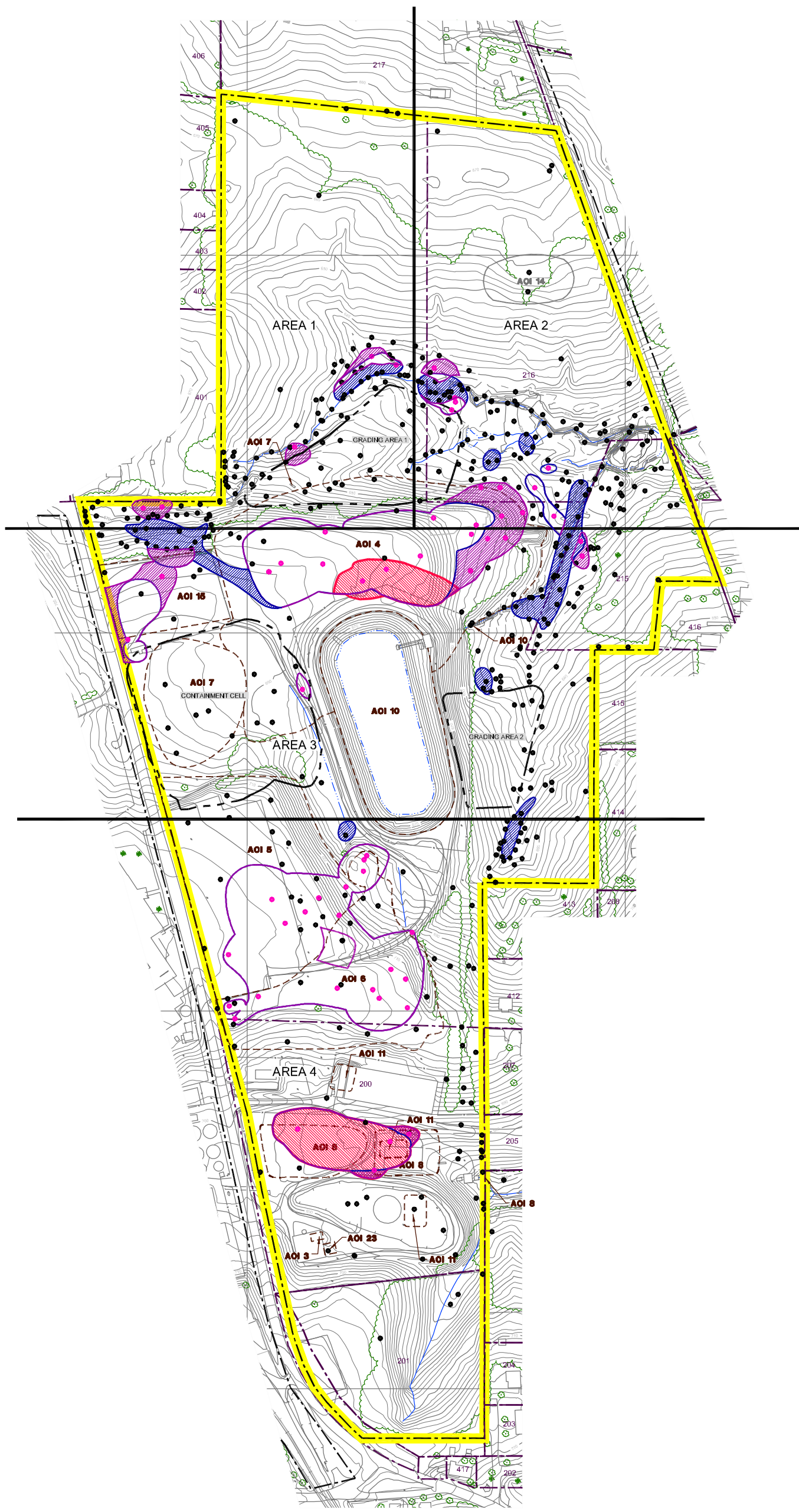




- LEGEND**
- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
  - EXISTING VEGETATION
  - EXISTING BUILDINGS
  - FENCE LINE
  - RAILROAD TRACKS
  - DIRT ROADS
  - ROADS / PAVED AREAS
  - APPROXIMATE SURFACE WATER LOCATION
  - APPROXIMATE GM PROPERTY BOUNDARY
  - APPROXIMATE PROPERTY BOUNDARY
  - AOI BOUNDARY
  - EAST PLANT AREA
  - MATERIAL WHICH IS IMPRACTICAL TO REMOVE
  - EXISTING SOIL SAMPLE LOCATION (PCBs < 50 mg/kg)
  - EXISTING SOIL SAMPLE LOCATION (PCBs ≥ 50 mg/kg)
  - INITIAL APPROXIMATE AREAS OF KNOWN PCB (≥ 50 mg/kg PCBs)
  - REVISED APPROXIMATE AREAS OF KNOWN PCB (≥ 50 mg/kg PCBs)
  - INITIAL ≥ 50 mg/kg PCBs AREA THAT HAS BEEN REMOVED
  - REVISED ≥ 50 mg/kg PCBs AREA THAT HAS BEEN ADDED

- AOI SUMMARY**
- AOI ID Description
- AOI 3 PCB Storage Areas
  - AOI 4 Former North Disposal Area
  - AOI 5 Former East Sand Disposal Area
  - AOI 6 Former Sludge Disposal and Fire Training Area
  - AOI 7 Former North Lagoon and Outfall 001
  - AOI 8 Former South Lagoons and Outfall 002
  - AOI 10 Existing Stormwater Lagoon and Outfall 003
  - AOI 11 Aboveground Storage Tanks
  - AOI 15 Former Equipment Storage Area
  - AOI 23 Area Affected by the 1996 Wastewater Treatment Filter Cake Release

NOTE: PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES.



NO	Revision	Date	Initial

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved \_\_\_\_\_

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

**REVISIONS TO THE ≥ 50 mg/kg  
PCB DELINEATION**

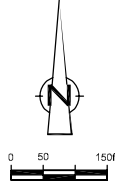
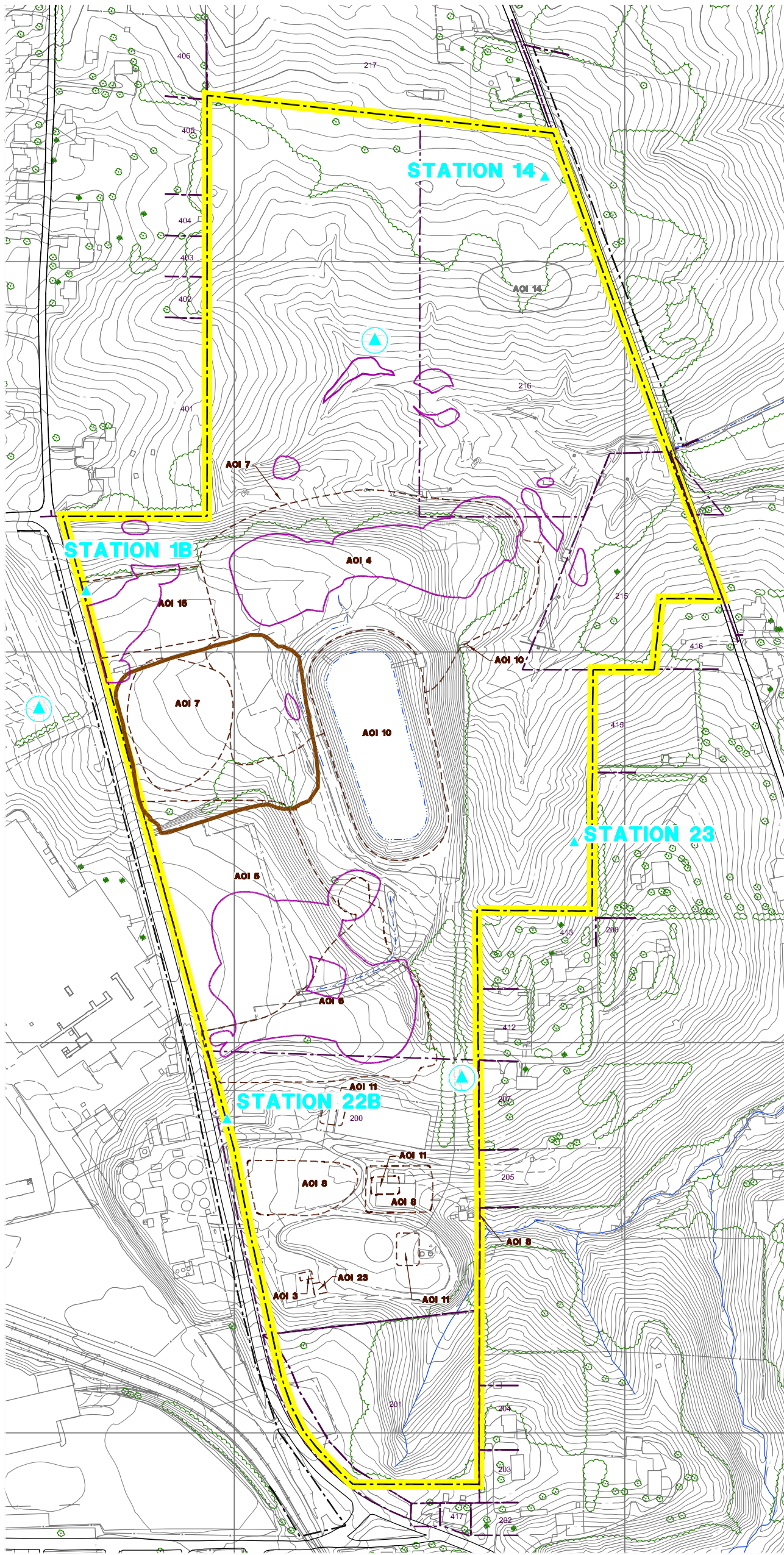
Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001.

Project Manager: J.M.	Reviewed By: J.S.	Date: MAY 2006
Scale: AS SHOWN	Project No. #: 13968-00	Report No. #: 162 Drawing No. #: figure 4.2









**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- APPROXIMATE AREAS OF  $\geq 50$  mg/kg PCBs TO BE EXCAVATED
- VAULT FOOTPRINT
- EXISTING AIR MONITORING STATION LOCATION
- PROPOSED ADDITIONAL AIR MONITORING STATION LOCATION

**AOI SUMMARY**

- AOI ID Description**
- AOI 3 PCB Storage Areas
  - AOI 4 Former North Disposal Area
  - AOI 5 Former East Sand Disposal Area
  - AOI 6 Former Sludge Disposal and Fire Training Area
  - AOI 7 Former North Lagoon and Outfall 001
  - AOI 8 Former South Lagoons and Outfall 002
  - AOI 10 Existing Stormwater Lagoon and Outfall 003
  - AOI 11 Aboveground Storage Tanks
  - AOI 15 Former Equipment Storage Area
  - AOI 23 Area Affected by the 1996 Wastewater Treatment Filter Cake Release

**NOTES:**

1. PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES
2. AIR MONITORING STATIONS WILL BE RELOCATED AS NECESSARY TO ENSURE STATIONS SURROUND THE ACTIVE WORK AREAS

NO	Revision	Date	Initial

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved \_\_\_\_\_

**GM POWERTRAIN BEDFORD FACILITY**  
BEDFORD, INDIANA

**OVER 50 mg/kg PCB SOIL REMOVAL**

**REVISED AIR MONITORING**  
**STATION LOCATIONS**

**CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001.

Project Manager: J.M.	Reviewed By: J.S.	Date: MAY 2006
Scale: AS SHOWN	Project N°: 13968-00	Report N°: 162 Drawing N°: figure 4.4

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>P003 P200(GM)</b>	<b>P003 P200(GM)</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>
<b>Sample Location:</b>	<b>003-148</b>	<b>003-148</b>	<b>604</b>	<b>605</b>	<b>608</b>	<b>609</b>	<b>612</b>
<b>Sample ID:</b>	<b>S-04-011502-LM-148</b>	<b>S-04-011502-LM-148A</b>	<b>S-00-012102-LM-604</b>	<b>S-00-012102-LM-605</b>	<b>S-00-012102-LM-608</b>	<b>S-00-012102-LM-609</b>	<b>S-00-012102-LM-612</b>
<b>Sample Date:</b>	<b>1/15/2002</b>	<b>1/15/2002</b>	<b>1/21/2002</b>	<b>1/21/2002</b>	<b>1/21/2002</b>	<b>1/21/2002</b>	<b>1/21/2002</b>
<b>Sample Depth:</b>	<b>(0-0.33) ft</b>	<b>(0-0.33) ft</b>	<b>(0-0.33) ft</b>	<b>(0-0.33) ft</b>	<b>(0-0.33) ft</b>	<b>(0-0.33) ft</b>	<b>(0-0.33) ft</b>

*Duplicate*

**Parameters                      Units**

**PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	ND (4200) U	ND (8300) U	ND (49) U	ND (430) UJ	ND (1100) U	ND (99) U	ND (53) UJ
Aroclor-1221 (PCB-1221)	µg/kg	ND (4200) U	ND (8300) U	ND (49) U	ND (430) UJ	ND (1100) U	ND (99) U	ND (53) UJ
Aroclor-1232 (PCB-1232)	µg/kg	ND (4200) U	ND (8300) U	ND (49) U	ND (430) UJ	ND (1100) U	ND (99) U	ND (53) UJ
Aroclor-1242 (PCB-1242)	µg/kg	ND (4200) U	ND (8300) U	ND (49) U	ND (430) UJ	ND (1100) U	ND (99) U	200 J
Aroclor-1248 (PCB-1248)	µg/kg	69000	150000	310	3700 J	5200	360	ND (53) UJ
Aroclor-1254 (PCB-1254)	µg/kg	ND (4200) U	ND (8300) U	ND (49) U	ND (430) UJ	ND (1100) U	ND (99) U	ND (53) UJ
Aroclor-1260 (PCB-1260)	µg/kg	ND (4200) U	7700 J	160	610 J	2100	130	110 J
<b>Total PCBs</b>	<b>µg/kg</b>	<b>69000</b>	<b>157700</b>	<b>470</b>	<b>4310</b>	<b>7300</b>	<b>490</b>	<b>310</b>

**Notes:**

- U - Not present at or above the associated value.
- J - Estimated
- R - Rejected
- UJ - Quantitation limit qualified as estimate
- µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>
<b>Sample Location:</b>	<b>612</b>	<b>615</b>	<b>616</b>	<b>616</b>	<b>619</b>	<b>619</b>	<b>620</b>
<b>Sample ID:</b>	<b>S-00-012102-LM-612A</b>	<b>S-00-012102-LM-615</b>	<b>S-00-012102-LM-616</b>	<b>S-00-012102-LM-616A</b>	<b>S-00-012102-LM-619</b>	<b>S-00-012102-LM-619A</b>	<b>S-00-012102-LM-620A</b>
<b>Sample Date:</b>	<b>1/21/2002</b>	<b>1/21/2002</b>	<b>1/21/2002</b>	<b>1/21/2002</b>	<b>1/21/2002</b>	<b>1/21/2002</b>	<b>1/21/2002</b>
<b>Sample Depth:</b>	<b>(0-0.33) ft</b>	<b>(0-0.33) ft</b>	<b>(0-0.33) ft</b>	<b>(0.33-2) ft</b>	<b>(0-0.33) ft</b>	<b>(0.33-2) ft</b>	<b>(0.33-2) ft</b>
	<b>Duplicate</b>						
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	µg/kg	ND (54) U	ND (47) UJ	ND (49) UJ	ND (44) U	ND (47) U	ND (44) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (54) U	ND (47) UJ	ND (49) UJ	ND (44) U	ND (47) U	ND (44) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (54) U	ND (47) UJ	ND (49) UJ	ND (44) U	ND (47) U	ND (44) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (54) U	ND (47) UJ	110 J	ND (44) U	ND (47) U	ND (44) U
Aroclor-1248 (PCB-1248)	µg/kg	79	ND (47) UJ	ND (49) UJ	ND (44) U	ND (47) U	ND (44) U
Aroclor-1254 (PCB-1254)	µg/kg	ND (54) U	41 J	ND (49) UJ	ND (44) U	100	ND (42) U
Aroclor-1260 (PCB-1260)	µg/kg	41 J	ND (47) UJ	41 J	14 J	ND (47) U	ND (42) U
Total PCBs	µg/kg	120	41	151	14	100	0

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>
<b>Sample Location:</b>	620	622	623	624	627	628	629
<b>Sample ID:</b>	S-00-LM620	S-00-012102-LM-622	S-00-012102-LM-623	S-00-012102-LM-624	S-00-012102-LM-627	S-00-012102-LM-628	S-00-012102-LM-629
<b>Sample Date:</b>	1/21/2002	1/21/2002	1/21/2002	1/21/2002	1/21/2002	1/21/2002	1/21/2002
<b>Sample Depth:</b>	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft

**Parameters                      Units**

**PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	ND (45) U	ND (930) U	ND (48) U	ND (51) U	ND (4400) U	ND (48) U	ND (48) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (45) U	ND (930) U	ND (48) U	ND (51) U	ND (4400) U	ND (48) U	ND (48) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (45) U	ND (930) U	ND (48) U	ND (51) U	ND (4400) U	ND (48) U	ND (48) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (45) U	ND (930) U	ND (48) U	ND (51) U	ND (4400) U	ND (48) U	ND (48) U
Aroclor-1248 (PCB-1248)	µg/kg	150	11000	29 J	34 J	38000	35 J	63
Aroclor-1254 (PCB-1254)	µg/kg	ND (45) U	ND (930) U	ND (48) U	ND (51) U	ND (4400) U	ND (48) U	ND (48) U
Aroclor-1260 (PCB-1260)	µg/kg	150	2800	32 J	29 J	9400	38 J	58
<b>Total PCBs</b>	<b>µg/kg</b>	<b>300</b>	<b>13800</b>	<b>61</b>	<b>63</b>	<b>47400</b>	<b>73</b>	<b>121</b>

**Notes:**

U - Not present at or above the as:  
J - Estimated  
R - Rejected  
UJ - Quantitation limit qualified as  
µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>P216(GM) P216_west</b>	<b>P216(GM) P216_west</b>	<b>P216(GM) P216_west</b>	<b>P216(GM) P216_west</b>	<b>P216(GM) P216_west</b>	<b>P216(GM) P216_west</b>	<b>P216(GM) P216_west</b>
<b>Sample Location:</b>	<b>632</b>	<b>633</b>	<b>634</b>	<b>634</b>	<b>635</b>	<b>635</b>	<b>638</b>
<b>Sample ID:</b>	<b>S-00-012102-LM-632</b>	<b>S-00-012102-LM-633</b>	<b>S-00-012102-LM-634</b>	<b>S-00-012102-LM-634A</b>	<b>S-00-012102-LM-635</b>	<b>S-00-012102-LM-635A</b>	<b>S-00-012102-LM-638</b>
<b>Sample Date:</b>	<b>1/21/2002</b>	<b>1/21/2002</b>	<b>1/21/2002</b>	<b>1/21/2002</b>	<b>1/21/2002</b>	<b>1/21/2002</b>	<b>1/21/2002</b>
<b>Sample Depth:</b>	<b>(0-0.33) ft</b>	<b>(0-0.33) ft</b>	<b>(0-0.33) ft</b>	<b>(0.33-2) ft</b>	<b>(0-0.33) ft</b>	<b>(0.33-2) ft</b>	<b>(0-0.33) ft</b>

<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	µg/kg	ND (4400) U	ND (46) U	ND (6200) U	ND (8900) U	ND (1900) U	ND (3800) UJ
Aroclor-1221 (PCB-1221)	µg/kg	ND (4400) U	ND (46) U	ND (6200) U	ND (8900) U	ND (1900) U	ND (3800) UJ
Aroclor-1232 (PCB-1232)	µg/kg	ND (4400) U	ND (46) U	ND (6200) U	ND (8900) U	ND (1900) U	ND (3800) UJ
Aroclor-1242 (PCB-1242)	µg/kg	ND (4400) U	ND (46) U	ND (6200) U	ND (8900) U	ND (1900) U	51 J
Aroclor-1248 (PCB-1248)	µg/kg	49000	9.7 J	120000	180000	31000	42000 J
Aroclor-1254 (PCB-1254)	µg/kg	ND (4400) U	ND (46) U	ND (6200) U	ND (8900) U	ND (1900) U	ND (3800) UJ
Aroclor-1260 (PCB-1260)	µg/kg	8700	ND (46) U	21000	43000	7100	14000 J
Total PCBs	µg/kg	57700	9.7	141000	223000	38100	56000

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>P216(GM) P216_west</b>	<b>P201(GM)</b>	<b>P003 P200(GM)</b>	<b>P003 P200(GM)</b>	<b>P216(GM) P216_west</b>	<b>P215(GM) P415 P215_area</b>	<b>P215(GM) P415 P215_area</b>	
<b>Sample Location:</b>	638	201(GM)-1089	003/200-1094	003/200-1095	1121	215-1242	215-1247	
<b>Sample ID:</b>	S-00-012102-LM-638A	S-00-022502-JW-1089	S-00-022502-GS-1094	S-00-022502-CH-1095	S-00-022502-GS-1121	S-00-030702-MD-1242	S-00-030702-MD-1247	
<b>Sample Date:</b>	1/21/2002	2/25/2002	2/25/2002	2/25/2002	2/25/2002	3/7/2002	3/7/2002	
<b>Sample Depth:</b>	(0.33-2) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	
<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	µg/kg	ND (43) U	ND (110) U	ND (44) U	ND (230) U	ND (47) U	ND (48) U	ND (46) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (43) U	ND (110) U	ND (44) U	ND (230) U	ND (47) U	ND (48) U	ND (46) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (43) U	ND (110) U	ND (44) U	ND (230) U	ND (47) U	ND (48) U	ND (46) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (43) U	ND (110) U	ND (44) U	ND (230) U	ND (47) U	ND (48) U	ND (46) U
Aroclor-1248 (PCB-1248)	µg/kg	ND (43) U	1600	16 J	960	19 J	ND (48) U	ND (46) U
Aroclor-1254 (PCB-1254)	µg/kg	ND (43) U	ND (110) U	ND (44) U	ND (230) U	ND (47) U	ND (48) U	ND (46) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (43) U	320	ND (44) U	99 J	23 J	ND (48) U	ND (46) U
Total PCBs	µg/kg	0	1920	16	1059	42	0	0

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>P215(GM) P215_area</b>	<b>P215(GM) P215_area</b>	<b>GMPT GMPT_south</b>
<b>Sample Location:</b>	1267	1267	1270	1276	215(GM)-1277	215(GM)-1277	1280
<b>Sample ID:</b>	S-00-030802-JW-1267	S-00-030802-JW-1267A	S-00-030802-JW-1270	S-00-030802-JW-1276	S-00-030802-JW-1277	S-00-030802-JW-1277A	S-00-030802-JW-1280
<b>Sample Date:</b>	3/8/2002	3/8/2002	3/8/2002	3/8/2002	3/8/2002	3/8/2002	3/8/2002
<b>Sample Depth:</b>	(0-0.33) ft	(0-0.33) ft Duplicate	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft Duplicate	(0-0.33) ft

<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	µg/kg	ND (220) U	ND (88) U	ND (83) U	ND (420) U	ND (23000) U	ND (24000) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (220) U	ND (88) U	ND (83) U	ND (420) U	ND (23000) U	ND (24000) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (220) U	ND (88) U	ND (83) U	ND (420) U	ND (23000) U	ND (24000) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (220) U	ND (88) U	ND (83) U	ND (420) U	ND (23000) UJ	ND (24000) UJ
Aroclor-1248 (PCB-1248)	µg/kg	1700	830	810	3000	92000	210000
Aroclor-1254 (PCB-1254)	µg/kg	ND (220) U	ND (88) U	ND (83) U	ND (420) U	ND (23000) U	ND (24000) U
Aroclor-1260 (PCB-1260)	µg/kg	330	230	70 J	530	11000 J	21000 J
Total PCBs	µg/kg	2030	1060	880	3530	103000	231000

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram



**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>P215(GM) P215_area</b>	<b>P215(GM) P215_area</b>	<b>P215(GM) P215_area</b>	<b>P215(GM) P215_area</b>	<b>P215(GM) P215_area</b>	<b>P215(GM) P215_area</b>	<b>P215(GM) P215_area</b>
<b>Sample Location:</b>	<b>215-1285</b>	<b>215-1285</b>	<b>215-1285</b>	<b>215-1286</b>	<b>215-1286</b>	<b>215-1289</b>	<b>215(GM)-1290</b>
<b>Sample ID:</b>	<b>S-00-031102-JW-1285</b>	<b>S-00-031102-JW-1285A</b>	<b>S-00-031102-JW-1285B</b>	<b>S-00-031102-JW-1286</b>	<b>S-00-031102-JW-1286A</b>	<b>S-00-031102-JW-1289</b>	<b>S-00-031102-JW-1290</b>
<b>Sample Date:</b>	<b>3/11/2002</b>	<b>3/11/2002</b>	<b>3/11/2002</b>	<b>3/11/2002</b>	<b>3/11/2002</b>	<b>3/11/2002</b>	<b>3/11/2002</b>
<b>Sample Depth:</b>	<b>(0-0.33) ft</b>	<b>(0-0.33) ft</b>	<b>(0.33-2) ft</b>	<b>(0-0.33) ft</b>	<b>(0.33-2) ft</b>	<b>(0-0.33) ft</b>	<b>(0-0.33) ft</b>
		<b>Duplicate</b>					
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	µg/kg	ND (230) U	ND (220) U	ND (4500) U	ND (500) U	ND (43) U	ND (90) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (230) U	ND (220) U	ND (4500) U	ND (500) U	ND (43) U	ND (90) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (230) U	ND (220) U	ND (4500) U	ND (500) U	ND (43) U	ND (90) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (230) U	ND (220) U	ND (4500) U	ND (500) U	49	ND (90) U
Aroclor-1248 (PCB-1248)	µg/kg	860	1400	5000	7000	ND (43) U	860
Aroclor-1254 (PCB-1254)	µg/kg	ND (230) U	ND (220) U	ND (4500) U	ND (500) U	ND (43) U	ND (90) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (230) U	ND (220) U	ND (4500) U	ND (500) U	ND (43) U	86 J
Total PCBs	µg/kg	860	1400	5000	7000	49	946

**Notes:**  
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 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>P215(GM) P215_area</b>	<b>P215(GM) P215_area</b>	<b>P216(GM) P216_west</b>	<b>P401 GMPT GMPT_west</b>	<b>P401 GMPT GMPT_west</b>	<b>P401 GMPT GMPT_west</b>	<b>P401 GMPT GMPT_west</b>	<b>P401 GMPT GMPT_west</b>
<b>Sample Location:</b>	215(GM)-1403	215(GM)-1403	1407	401-1505	401-1515	401-1516	401-1517	401-1517
<b>Sample ID:</b>	S-00-031102-GS-1403	S-00-031102-JW-1403A	S-00-031102-GS-1407	S-00-032602-GS-1505	S-00-032602-GS-1515	S-00-032602-GS-1516	S-00-032602-GS-1517	S-00-032602-GS-1517
<b>Sample Date:</b>	3/11/2002	3/11/2002	3/11/2002	3/26/2002	3/26/2002	3/26/2002	3/26/2002	3/26/2002
<b>Sample Depth:</b>	(0-0.33) ft	(0-0.33) ft Duplicate	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft
<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	µg/kg	ND (50) U	ND (45) U	ND (48) U	ND (48) U	ND (460) U	ND (69) U	ND (46) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (50) U	ND (45) U	ND (48) U	ND (48) U	ND (460) U	ND (69) U	ND (46) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (50) U	ND (45) U	ND (48) U	ND (48) U	ND (460) U	ND (69) U	ND (46) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (50) U	ND (45) U	ND (48) U	ND (48) U	ND (460) U	ND (69) U	ND (46) U
Aroclor-1248 (PCB-1248)	µg/kg	ND (50) U	ND (45) U	ND (48) U	ND (48) U	3000	770	130
Aroclor-1254 (PCB-1254)	µg/kg	130	110	ND (48) U	ND (48) U	ND (460) U	ND (69) U	ND (46) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (50) U	ND (45) U	ND (48) U	ND (48) U	820	180	47
Total PCBs	µg/kg	130	110	0	0	3820	950	177

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
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 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>P215(GM) P416 P215_area</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>P216(GM) P216_west</b>	<b>P216(GM) P216_west</b>
<b>Sample Location:</b>	215(GM)/416-1659	1928	1928	1929	1940	1977	1979
<b>Sample ID:</b>	S-00-041002-GS-1659	S-061002-GS-1928	S-061002-GS-1928A	S-061002-JW-1929	S-061002-JW-1940	S-072202-JW-1977	S-072202-JW-1979
<b>Sample Date:</b>	4/10/2002	6/10/2002	6/10/2002	6/10/2002	6/10/2002	7/22/2002	7/22/2002
<b>Sample Depth:</b>	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft Duplicate	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft

<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	µg/kg	ND (48) U	ND (83) U	ND (82) U	ND (4300) U	ND (500) U	R	ND (2000) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (48) U	ND (83) U	ND (82) U	ND (4300) U	ND (500) U	R	ND (2000) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (48) U	ND (83) U	ND (82) U	ND (4300) U	ND (500) U	R	ND (2000) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (48) U	ND (83) U	ND (82) U	ND (4300) U	ND (500) U	R	ND (2000) U
Aroclor-1248 (PCB-1248)	µg/kg	ND (48) U	360	420	27000	1700	R	14000
Aroclor-1254 (PCB-1254)	µg/kg	ND (48) U	ND (83) U	ND (82) U	ND (4300) U	ND (500) U	67 J	ND (2000) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (48) U	82 J	110	2800 J	270 J	R	ND (2000) U
Total PCBs	µg/kg	0	442	530	29800	1970	67	14000

**Notes:**  
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**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>P216(GM) P216_west</b>	<b>P216(GM) P216_west</b>	<b>GMPT GMPT_south</b>	<b>P216(GM) GMPT_west</b>	<b>P216(GM) GMPT_west</b>	<b>P216(GM) GMPT_west</b>	<b>P216(GM) GMPT_west</b>	
<b>Sample Location:</b>	1980	1982	1983	2070	2070	2070	2070	
<b>Sample ID:</b>	S-072202-JW-1980	S-072202-JW-1982	S-072202-JW-1983	S-073102-BT-2070	S-073102-BT-2070A	S-073102-BT-2070B	S-073102-BT-2070C	
<b>Sample Date:</b>	7/22/2002	7/22/2002	7/22/2002	7/31/2002	7/31/2002	7/31/2002	7/31/2002	
<b>Sample Depth:</b>	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0.33-1) ft	(1-1.5) ft	
					<i>Duplicate</i>			
<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	µg/kg	ND (35) U	ND (43) U	ND (4300) U	ND (82) U	ND (210) U	ND (40) U	ND (43) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (35) U	ND (43) U	ND (4300) U	ND (82) U	ND (210) U	ND (40) U	ND (43) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (35) U	ND (43) U	ND (4300) U	ND (82) U	ND (210) U	ND (40) U	ND (43) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (35) U	ND (43) U	ND (4300) U	ND (82) U	ND (210) U	ND (40) U	ND (43) U
Aroclor-1248 (PCB-1248)	µg/kg	ND (35) U	ND (43) U	35000	320	540	23 J	71
Aroclor-1254 (PCB-1254)	µg/kg	220	ND (43) U	ND (4300) U	ND (82) U	ND (210) U	ND (40) U	ND (43) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (35) U	ND (43) U	ND (4300) U	180	250	11 J	27 J
Total PCBs	µg/kg	220	0	35000	500	790	34	98

**Notes:**  
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 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>P216(GM) GMPT_west</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>
<b>Sample Location:</b>	2070	2206	2207	2208	2208	2209	2210
<b>Sample ID:</b>	S-073102-BT-2070D	S-071703-JM-2206	S-071703-JM-2207	S-071703-JM-2208	S-071703-JM-2208A	S-071703-JM-2209	S-071703-JM-2210
<b>Sample Date:</b>	7/31/2002	7/17/2003	7/17/2003	7/17/2003	7/17/2003	7/17/2003	7/17/2003
<b>Sample Depth:</b>	(1.5-2) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft Duplicate	(0-0.33) ft	(0-0.33) ft
<b>Parameters</b>		<b>Units</b>					
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	µg/kg	ND (42) U	ND (47) U	ND (220) U	ND (8900) U	ND (4400) U	ND (45) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (42) U	ND (47) U	ND (220) U	ND (8900) U	ND (4400) U	ND (45) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (42) U	ND (47) U	ND (220) U	ND (8900) U	ND (4400) U	ND (45) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (42) U	ND (47) U	ND (220) U	ND (8900) U	ND (4400) U	ND (45) U
Aroclor-1248 (PCB-1248)	µg/kg	ND (42) U	33 J	3100	47000	67000	170
Aroclor-1254 (PCB-1254)	µg/kg	ND (42) U	ND (47) U	ND (220) U	ND (8900) U	ND (4400) U	ND (45) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (42) U	ND (47) U	ND (220) U	ND (8900) U	ND (4400) U	25 J
Total PCBs	µg/kg	0	33	3100	47000	67000	195

**Notes:**  
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 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>
<b>Sample Location:</b>	2211	2212	2213	2214	2215	2215	2215
<b>Sample ID:</b>	S-071703-JM-2211	S-071703-JM-2212	S-071703-JM-2213	S-071703-JM-2214	S-072103-JM-2215	S-072103-JM-2215A	S-072103-JM-2215B
<b>Sample Date:</b>	7/17/2003	7/17/2003	7/17/2003	7/17/2003	7/21/2003	7/21/2003	7/21/2003
<b>Sample Depth:</b>	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(1-1.33) ft	(1-1.33) ft <i>Duplicate</i>
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	µg/kg	ND (44) U	ND (8700) U	ND (450) U	ND (870) U	ND (4700) U	ND (430) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (44) U	ND (8700) U	ND (450) U	ND (870) U	ND (4700) U	ND (430) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (44) U	ND (8700) U	ND (450) U	ND (870) U	ND (4700) U	ND (430) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (44) U	ND (8700) U	ND (450) U	ND (870) U	ND (4700) U	ND (430) U
Aroclor-1248 (PCB-1248)	µg/kg	190	75000	ND (450) U	2200	36000	2200
Aroclor-1254 (PCB-1254)	µg/kg	ND (44) U	ND (8700) U	ND (450) U	ND (870) U	ND (4700) U	ND (430) U
Aroclor-1260 (PCB-1260)	µg/kg	49	ND (8700) U	ND (450) U	ND (870) U	ND (4700) U	ND (430) U
Total PCBs	µg/kg	239	75000	0	2200	36000	2200

**Notes:**  
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 J - Estimated  
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 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>
<b>Sample Location:</b>	2216	2216	2217	2218	2219	2220	2221
<b>Sample ID:</b>	S-072103-JM-2216	S-072103-JM-2216A	S-071703-JM-2217	S-071703-JM-2218	S-071703-JM-2219	S-071703-JM-2220	S-072103-JM-2221
<b>Sample Date:</b>	7/21/2003	7/21/2003	7/17/2003	7/17/2003	7/17/2003	7/17/2003	7/21/2003
<b>Sample Depth:</b>	(0-0.33) ft	(1-1.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft

**Parameters                      Units**

**PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	ND (970) U	ND (44) U	ND (2200) U	ND (430) U	ND (44) U	ND (43) U	ND (47) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (970) UJ	ND (44) U	ND (2200) U	ND (430) U	ND (44) U	ND (43) U	ND (47) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (970) U	ND (44) U	ND (2200) U	ND (430) U	ND (44) U	ND (43) U	ND (47) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (970) U	ND (44) U	ND (2200) U	ND (430) U	ND (44) U	ND (43) U	ND (47) U
Aroclor-1248 (PCB-1248)	µg/kg	ND (970) U	ND (44) U	ND (2200) U	1600	100	ND (43) U	39 J
Aroclor-1254 (PCB-1254)	µg/kg	13000	260	10000	ND (430) U	ND (44) U	310	ND (47) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (970) U	ND (44) U	ND (2200) U	ND (430) U	20 J	ND (43) U	ND (47) U
Total PCBs	µg/kg	13000	260	10000	1600	120	310	39

**Notes:**

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J - Estimated  
R - Rejected  
UJ - Quantitation limit qualified as  
µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>
<b>Sample Location:</b>	<b>2221</b>	<b>2222</b>	<b>2222</b>	<b>2223</b>	<b>2226</b>	<b>2227</b>	<b>2228</b>
<b>Sample ID:</b>	<b>S-072103-JM-2221A</b>	<b>S-072103-JM-2222</b>	<b>S-072103-JM-2222A</b>	<b>S-071703-JM-2223</b>	<b>S-071703-JM-2226</b>	<b>S-071703-JM-2227</b>	<b>S-071703-JM-2228</b>
<b>Sample Date:</b>	<b>7/21/2003</b>	<b>7/21/2003</b>	<b>7/21/2003</b>	<b>7/17/2003</b>	<b>7/17/2003</b>	<b>7/17/2003</b>	<b>7/17/2003</b>
<b>Sample Depth:</b>	<b>(1-1.33) ft</b>	<b>(0-0.33) ft</b>	<b>(1-1.33) ft</b>	<b>(0-0.33) ft</b>	<b>(0-0.33) ft</b>	<b>(0-0.33) ft</b>	<b>(0-0.33) ft</b>

**Parameters                      Units**

**PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	ND (42) U	ND (48) U	ND (43) U	ND (49) U	ND (9200) U	ND (46) U	ND (410) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (42) U	ND (48) U	ND (43) U	ND (49) U	ND (9200) U	ND (46) U	ND (410) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (42) U	ND (48) U	ND (43) U	ND (49) U	ND (9200) U	ND (46) U	ND (410) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (42) U	ND (48) U	ND (43) U	ND (49) U	ND (9200) U	ND (46) U	ND (410) U
Aroclor-1248 (PCB-1248)	µg/kg	ND (42) U	110	9.2 J	29 J	ND (9200) U	59	6200
Aroclor-1254 (PCB-1254)	µg/kg	ND (42) U	ND (48) U	ND (43) U	ND (49) U	110000	ND (46) U	ND (410) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (42) U	ND (48) U	ND (43) U	ND (49) U	ND (9200) U	30 J	600
Total PCBs	µg/kg	0	110	9.2	29	110000	89	6800

**Notes:**

U - Not present at or above the as:  
J - Estimated  
R - Rejected  
UJ - Quantitation limit qualified as  
µg/kg - Micrograms per kilogram



**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT P215_area</b>
<b>Sample Location:</b>	2229	2230	2231	2232	2235	2235	2237
<b>Sample ID:</b>	S-071703-JM-2229	S-071703-JM-2230	S-071703-JM-2231	S-071703-JM-2232	S-072103-JM-2235	S-072103-JM-2235A	S-072103-JM-2237
<b>Sample Date:</b>	7/17/2003	7/17/2003	7/17/2003	7/17/2003	7/21/2003	7/21/2003	7/21/2003
<b>Sample Depth:</b>	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(1-1.33) ft	(0-0.33) ft
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	µg/kg	ND (870) U	ND (450) U	ND (850) U	ND (290) U	ND (91) U	ND (44) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (870) U	ND (450) U	ND (850) U	ND (290) U	ND (91) U	ND (44) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (870) U	ND (450) U	ND (850) U	ND (290) U	ND (91) U	ND (44) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (870) U	ND (450) U	ND (850) U	ND (290) U	ND (91) U	ND (44) U
Aroclor-1248 (PCB-1248)	µg/kg	12000	5600	8100	1000	590	28 J
Aroclor-1254 (PCB-1254)	µg/kg	ND (870) U	ND (450) U	ND (850) U	ND (290) U	ND (91) U	ND (44) U
Aroclor-1260 (PCB-1260)	µg/kg	1200	820	590 J	270 J	ND (91) U	ND (44) U
Total PCBs	µg/kg	13200	6420	8690	1270	590	28

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	
<b>Sample Location:</b>	2237	2240	2240	2243	2243	2244	2244	
<b>Sample ID:</b>	S-072103-JM-2237A	S-071803-JM-2240	S-071803-JM-2240A	S-072103-JM-2243	S-072103-JM-2243A	S-072103-JM-2244	S-072103-JM-2244A	
<b>Sample Date:</b>	7/21/2003	7/18/2003	7/18/2003	7/21/2003	7/21/2003	7/21/2003	7/21/2003	
<b>Sample Depth:</b>	(1-1.33) ft	(0-0.33) ft	(0-0.33) ft Duplicate	(0-0.33) ft	(1-1.33) ft	(0-0.33) ft	(1-1.33) ft	
<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	µg/kg	ND (44) U	ND (47) U	ND (46) U	ND (48) U	ND (42) U	ND (45) U	ND (46) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (44) U	ND (47) U	ND (46) U	ND (48) U	ND (42) U	ND (45) U	ND (46) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (44) U	ND (47) U	ND (46) U	ND (48) U	ND (42) U	ND (45) U	ND (46) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (44) U	ND (47) U	ND (46) U	ND (48) U	ND (42) U	ND (45) U	ND (46) U
Aroclor-1248 (PCB-1248)	µg/kg	ND (44) U	140	170	160	ND (42) U	150	ND (46) U
Aroclor-1254 (PCB-1254)	µg/kg	ND (44) U	ND (47) U	ND (46) U	ND (48) U	ND (42) U	ND (45) U	ND (46) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (44) U	16 J	19 J	ND (48) U	ND (42) U	ND (45) U	ND (46) U
Total PCBs	µg/kg	0	156	189	160	0	150	0

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	
<b>Sample Location:</b>	2246	2246	2246	2247	2248	2248	2249	
<b>Sample ID:</b>	S-072103-JM-2246	S-072103-JM-2246A	S-072103-JM-2246B	S-071803-JM-2247	S-072203-JM-2248	S-072203-JM-2248A	S-071803-JM-2249	
<b>Sample Date:</b>	7/21/2003	7/21/2003	7/21/2003	7/18/2003	7/22/2003	7/22/2003	7/18/2003	
<b>Sample Depth:</b>	(0-0.33) ft	(0-0.33) ft	(1-1.33) ft	(0-0.33) ft	(0-0.33) ft	(1-1.33) ft	(0-0.33) ft	
		Duplicate						
<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	µg/kg	ND (44) U	ND (46) U	ND (43) U	ND (49) U	ND (31000) U	ND (2400) U	ND (470) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (44) UJ	ND (46) UJ	ND (43) UJ	ND (49) U	ND (31000) U	ND (2400) U	ND (470) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (44) U	ND (46) U	ND (43) U	ND (49) U	ND (31000) U	ND (2400) U	ND (470) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (44) U	ND (46) U	ND (43) U	ND (49) U	ND (31000) U	ND (2400) U	ND (470) U
Aroclor-1248 (PCB-1248)	µg/kg	140	ND (46) U	ND (43) U	100	370000	16000	2900
Aroclor-1254 (PCB-1254)	µg/kg	ND (44) U	140	ND (43) U	ND (49) U	ND (31000) U	ND (2400) U	ND (470) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (44) U	ND (46) U	ND (43) U	19 J	ND (31000) U	ND (2400) U	180 J
Total PCBs	µg/kg	140	140	0	119	370000	16000	3080

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT GMPT_south</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	<b>GMPT P216_west</b>	<b>GMPT P216_west</b>	
<b>Sample Location:</b>	2250	2250	2251	2252	2253	2254	2255	
<b>Sample ID:</b>	S-071803-JM-2250	S-071803-JM-2250A	S-071803-JM-2251	S-071803-JM-2252	S-071803-JM-2254	S-071603-JM-2254	S-071603-JM-2255	
<b>Sample Date:</b>	7/18/2003	7/18/2003	7/18/2003	7/18/2003	7/18/2003	7/16/2003	7/16/2003	
<b>Sample Depth:</b>	(0-0.33) ft	(0-0.33) ft Duplicate	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	
<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	µg/kg	ND (2400) U	ND (970) U	ND (27000) U	ND (44) U	ND (48) U	ND (10000) U	ND (87) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (2400) U	ND (970) U	ND (27000) U	ND (44) U	ND (48) U	ND (10000) U	ND (87) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (2400) U	ND (970) U	ND (27000) U	ND (44) U	ND (48) U	ND (10000) U	ND (87) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (2400) U	ND (970) U	ND (27000) U	ND (44) U	ND (48) U	ND (10000) U	ND (87) U
Aroclor-1248 (PCB-1248)	µg/kg	15000	10000	240000	56	66	55000	280
Aroclor-1254 (PCB-1254)	µg/kg	ND (2400) U	ND (970) U	ND (27000) U	ND (44) U	ND (48) U	ND (10000) U	ND (87) U
Aroclor-1260 (PCB-1260)	µg/kg	800 J	900 J	19000 J	ND (44) U	ND (48) U	ND (10000) U	99
Total PCBs	µg/kg	15800	10900	259000	56	66	55000	379

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>
<b>Sample Location:</b>	2258	2259	2260	2261	2261	2262	2262
<b>Sample ID:</b>	S-071603-JM-2258	S-071603-JM-2259	S-071603-JM-2260	S-071603-JM-2261	S-071603-JM-2261A	S-072203-JM-2262	S-072203-JM-2262A
<b>Sample Date:</b>	7/16/2003	7/16/2003	7/16/2003	7/16/2003	7/16/2003	7/22/2003	7/22/2003
<b>Sample Depth:</b>	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft Duplicate	(0-0.33) ft	(1-1.33) ft
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	µg/kg	ND (47) U	ND (490) U	ND (44) U	ND (44) U	ND (44) U	ND (480) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (47) U	ND (490) U	ND (44) U	ND (44) U	ND (44) U	ND (480) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (47) U	ND (490) U	ND (44) U	ND (44) U	ND (44) U	ND (480) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (47) U	ND (490) U	ND (44) U	ND (44) U	ND (44) U	ND (480) U
Aroclor-1248 (PCB-1248)	µg/kg	100	2900	27 J	28 J	28 J	2400
Aroclor-1254 (PCB-1254)	µg/kg	ND (47) U	ND (490) U	ND (44) U	ND (44) U	ND (44) U	ND (480) U
Aroclor-1260 (PCB-1260)	µg/kg	38 J	710	14 J	17 J	19 J	ND (480) U
Total PCBs	µg/kg	138	3610	41	45	47	2400

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>GMPT P216_west</b>	<b>GMPT P216_west</b>	<b>GMPT P216_west</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>	<b>GMPT P215_area</b>
<b>Sample Location:</b>	2263	2264	2265	2269	2269	2270	2272
<b>Sample ID:</b>	S-071603-JM-2263	S-071603-JM-2264	S-071603-JM-2265	S-072203-JM-2269	S-072203-JM-2269A	S-071603-JM-2270	S-071603-JM-2272
<b>Sample Date:</b>	7/16/2003	7/16/2003	7/16/2003	7/22/2003	7/22/2003	7/16/2003	7/16/2003
<b>Sample Depth:</b>	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(1-1.33) ft	(0-0.33) ft	(0-0.33) ft
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	µg/kg	ND (27000) U	ND (100) U	ND (52) U	ND (44) U	ND (46) U	ND (44) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (27000) U	ND (100) U	ND (52) U	ND (44) U	ND (46) U	ND (44) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (27000) U	ND (100) U	ND (52) U	ND (44) U	ND (46) U	ND (44) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (27000) U	ND (100) U	ND (52) U	ND (44) U	ND (46) U	ND (44) U
Aroclor-1248 (PCB-1248)	µg/kg	140000	550	63	20 J	ND (46) U	28 J
Aroclor-1254 (PCB-1254)	µg/kg	ND (27000) U	ND (100) U	ND (52) U	ND (44) U	ND (46) U	ND (44) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (27000) U	ND (100) U	ND (52) U	ND (44) U	ND (46) U	ND (44) U
Total PCBs	µg/kg	140000	550	63	20	0	35

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>GMPT P215_area</b>	<b>GMPT P216_west</b>	<b>GMPT P216_west</b>	<b>GMPT P216_west</b>	<b>GMPT P216_west</b>	<b>GMPT P216_west</b>	<b>GMPT P216_west</b>
<b>Sample Location:</b>	2273	2290	2293	2293	2295	2296	2298
<b>Sample ID:</b>	S-071603-JM-2273	S-071403-JM-2290	S-072303-JM-2293	S-072303-JM-2293A	S-071403-JM-2295	S-071403-JM-2296	S-072303-JM-2298
<b>Sample Date:</b>	7/16/2003	7/14/2003	7/23/2003	7/23/2003	7/14/2003	7/14/2003	7/23/2003
<b>Sample Depth:</b>	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(1-1.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft

**Parameters                      Units**

**PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	ND (46) U	ND (50) U	ND (41) U	ND (42) U	ND (2100) U	ND (420) U	ND (45) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (46) U	ND (50) U	ND (41) U	ND (42) U	ND (2100) U	ND (420) U	ND (45) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (46) U	ND (50) U	ND (41) U	ND (42) U	ND (2100) U	ND (420) U	ND (45) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (46) U	ND (50) U	ND (41) U	ND (42) U	ND (2100) U	ND (420) U	ND (45) U
Aroclor-1248 (PCB-1248)	µg/kg	33 J	160	ND (41) U	14 J	8200	1800	53
Aroclor-1254 (PCB-1254)	µg/kg	ND (46) U	ND (50) U	ND (41) U	ND (42) U	ND (2100) U	ND (420) U	ND (45) U
Aroclor-1260 (PCB-1260)	µg/kg	16 J	75	21 J	6.5 J	1600 J	230 J	42 J
Total PCBs	µg/kg	49	235	21	20.5	9800	2030	95

**Notes:**

U - Not present at or above the as:  
J - Estimated  
R - Rejected  
UJ - Quantitation limit qualified as  
µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>GMPT P216_west</b>	<b>GMPT P216_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>
<b>Sample Location:</b>	2298	2305	2306	2307	2308	2309	2310
<b>Sample ID:</b>	S-072303-JM-2298A	S-071403-JM-2305	S-071603-JM-2306	S-071103-JM-2307	S-071103-JM-2308	S-071103-JM-2309	S-071103-JM-2310
<b>Sample Date:</b>	7/23/2003	7/14/2003	7/16/2003	7/11/2003	7/11/2003	7/11/2003	7/11/2003
<b>Sample Depth:</b>	(1-1.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft

**Parameters                      Units**

**PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	ND (42) U	ND (45) U	ND (46) U	ND (62) U	ND (44) U	ND (46) U	ND (280) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (42) U	ND (45) U	ND (46) U	ND (62) U	ND (44) U	ND (46) U	ND (280) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (42) U	ND (45) U	ND (46) U	ND (62) U	ND (44) U	ND (46) U	ND (280) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (42) U	ND (45) U	ND (46) U	ND (62) U	ND (44) U	ND (46) U	ND (280) U
Aroclor-1248 (PCB-1248)	µg/kg	ND (42) U	160	28 J	230 J	110 J	66	1900
Aroclor-1254 (PCB-1254)	µg/kg	ND (42) U	ND (45) U	ND (46) U	ND (62) U	ND (44) U	ND (46) U	ND (280) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (42) U	100	65	74 J	45 J	55	ND (280) U
<b>Total PCBs</b>	<b>µg/kg</b>	<b>0</b>	<b>260</b>	<b>93</b>	<b>304</b>	<b>155</b>	<b>121</b>	<b>1900</b>

**Notes:**

U - Not present at or above the as:  
J - Estimated  
R - Rejected  
UJ - Quantitation limit qualified as  
µg/kg - Micrograms per kilogram



**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT P216_west</b>	<b>GMPT P216_west</b>
<b>Sample Location:</b>	2311	2311	2312	2313	2314	2315	2315
<b>Sample ID:</b>	S-071103-JM-2311	S-071103-JM-2311A	S-071103-JM-2312	S-071103-JM-2313	S-071103-JM-2314	S-072303-JM-2315	S-072303-JM-2315A
<b>Sample Date:</b>	7/11/2003	7/11/2003	7/11/2003	7/11/2003	7/11/2003	7/23/2003	7/23/2003
<b>Sample Depth:</b>	(0-0.33) ft	(0-0.33) ft Duplicate	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft	(0-0.33) ft Duplicate
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	µg/kg	ND (88) U	ND (46) U	ND (47) U	ND (800) U	ND (200) U	ND (4000) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (88) U	ND (46) U	ND (47) U	ND (800) U	ND (200) U	ND (4000) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (88) U	ND (46) U	ND (47) U	ND (800) U	ND (200) U	ND (4000) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (88) U	ND (46) U	ND (47) U	ND (800) U	ND (200) U	ND (4000) U
Aroclor-1248 (PCB-1248)	µg/kg	390	310	23 J	5300	1600	26000
Aroclor-1254 (PCB-1254)	µg/kg	ND (88) U	ND (46) U	ND (47) U	ND (800) U	ND (200) U	ND (4000) U
Aroclor-1260 (PCB-1260)	µg/kg	86 J	70	ND (47) U	ND (800) U	6300	5300
Total PCBs	µg/kg	476	380	23	5300	1600	31300

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>GMPT P216_west</b>	<b>GMPT P216_west</b>	<b>GMPT P216_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>
<b>Sample Location:</b>	2315	2316	2316	2317	2318	2318	2319
<b>Sample ID:</b>	S-072303-JM-2315B	S-072303-JM-2316	S-072303-JM-2316A	S-071603-JM-2317	S-072303-JM-2318	S-072303-JM-2318A	S-072203-JM-2319
<b>Sample Date:</b>	7/23/2003	7/23/2003	7/23/2003	7/16/2003	7/23/2003	7/23/2003	7/22/2003
<b>Sample Depth:</b>	(1-1.33) ft	(0-0.33) ft	(1-1.33) ft	(0-0.33) ft	(0-0.33) ft	(1-1.33) ft	(0-0.33) ft

**Parameters                      Units**

**PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	ND (800) U	ND (4900) U	ND (430) U	ND (48) U	ND (4300) U	ND (420) U	ND (2000) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (800) U	ND (4900) U	ND (430) U	ND (48) U	ND (4300) U	ND (420) U	ND (2000) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (800) U	ND (4900) U	ND (430) U	ND (48) U	ND (4300) U	ND (420) U	ND (2000) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (800) U	ND (4900) U	ND (430) U	ND (48) U	ND (4300) U	ND (420) U	ND (2000) U
Aroclor-1248 (PCB-1248)	µg/kg	10000	44000	5000	ND (48) U	30000	5200	16000
Aroclor-1254 (PCB-1254)	µg/kg	ND (800) U	ND (4900) U	ND (430) U	85	ND (4300) U	ND (420) U	ND (2000) U
Aroclor-1260 (PCB-1260)	µg/kg	2000	11000	1100	ND (48) U	8200	1300	6000
Total PCBs	µg/kg	12000	55000	6100	85	38200	6500	22000

**Notes:**

U - Not present at or above the as:  
J - Estimated  
R - Rejected  
UJ - Quantitation limit qualified as  
µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>	<b>GMPT GMPT_west</b>
<b>Sample Location:</b>	2319	2321	2322	2322	2323	2324	2324
<b>Sample ID:</b>	S-072203-JM-2319A	S-071603-JM-2321	S-072203-JM-2322	S-072203-JM-2322A	S-071603-JM-2323	S-072203-JM-2324	S-072203-JM-2324A
<b>Sample Date:</b>	7/22/2003	7/16/2003	7/22/2003	7/22/2003	7/16/2003	7/22/2003	7/22/2003
<b>Sample Depth:</b>	(1-1.33) ft	(0-0.33) ft	(0-0.33) ft	(1-1.33) ft	(0-0.33) ft	(0-0.33) ft	(1-1.33) ft

**Parameters                      Units**

**PCBs**

Aroclor-1016 (PCB-1016)	µg/kg	ND (88) U	ND (52) U	ND (3900) U	ND (8800) U	ND (46) U	ND (850) U	ND (430) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (88) U	ND (52) U	ND (3900) U	ND (8800) U	ND (46) U	ND (850) U	ND (430) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (88) U	ND (52) U	ND (3900) U	ND (8800) U	ND (46) U	ND (850) U	ND (430) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (88) U	ND (52) U	ND (3900) U	ND (8800) U	ND (46) U	ND (850) U	ND (430) U
Aroclor-1248 (PCB-1248)	µg/kg	200	ND (52) U	21000	78000	43 J	7200	4200
Aroclor-1254 (PCB-1254)	µg/kg	ND (88) U	25 J	ND (3900) U	ND (8800) U	ND (46) U	ND (850) U	ND (430) U
Aroclor-1260 (PCB-1260)	µg/kg	63 J	ND (52) U	5100	20000	ND (46) U	1900	970
Total PCBs	µg/kg	263	25	26100	98000	43	9100	5170

**Notes:**

U - Not present at or above the as:  
J - Estimated  
R - Rejected  
UJ - Quantitation limit qualified as  
µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>GMPT GMPT_west</b>	<b>P003</b>	<b>P003</b>	<b>P205</b>	<b>P205</b>	<b>P205</b>	<b>P205</b>
<b>Sample Location:</b>	2325	003-4087	003-4115	205-4139	205-4150	205-4165	205-4183
<b>Sample ID:</b>	S-071603-JM-2325	S-003-101503-NZ-4087	S-003-102003-NZ-4115	S-205-011304-CH-4139	S-205-011304-CH-4150	S-205-011304-CH-4165	S-205-011304-CH-4183
<b>Sample Date:</b>	7/16/2003	10/15/2003	10/20/2003	1/13/2004	1/13/2004	1/14/2004	1/14/2004
<b>Sample Depth:</b>	(0-0.33) ft	(0-0.33) ft	(0-1.5) ft	(0-0.5) ft	(0-0.5) ft	(0-0.5) ft	(0-0.5) ft
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	µg/kg	ND (45) U	130000	ND (44) U	ND (88) U	ND (220) U	ND (860) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (45) U	ND (47000) U	ND (44) U	ND (88) U	ND (220) U	ND (860) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (45) U	ND (47000) U	ND (44) U	ND (88) U	ND (220) U	ND (860) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (45) U	ND (47000) U	ND (44) U	ND (88) U	ND (220) U	ND (860) U
Aroclor-1248 (PCB-1248)	µg/kg	ND (45) U	ND (47000) U	590	380	ND (220) U	ND (860) U
Aroclor-1254 (PCB-1254)	µg/kg	42 J	ND (47000) U	ND (44) U	ND (88) U	1000	4400
Aroclor-1260 (PCB-1260)	µg/kg	ND (45) U	ND (47000) U	ND (44) U	ND (88) U	ND (220) U	ND (860) U
Total PCBs	µg/kg	42	130000	590	380	1000	4400

**Notes:**  
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 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>P205</b>	<b>East Plant Area</b>	<b>P401</b>	<b>P217</b>	<b>P217</b>	<b>P217</b>	<b>P217</b>
<b>Sample Location:</b>	205-4183	401-5005	401-5082	B-809012-1	B-809012-1	B-809012-1	B-809012-2
<b>Sample ID:</b>	S-205-011304-CH-4184	S-401-091803-KB-5005	S-401-021704-CH-5082	S-809-040802-MG-001	S-809-040802-MG-002	S-809-040802-MG-003	S-809-040802-MG-004
<b>Sample Date:</b>	1/14/2004	9/18/2003	2/17/2004	4/8/2002	4/8/2002	4/8/2002	4/8/2002
<b>Sample Depth:</b>	(0-0.5) ft Duplicate	(0-0.33) ft	(0-0.5) ft	(0-2) ft	(6-8) ft	(16-17) ft	(0-2) ft
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	µg/kg	ND (450) U	ND (860) U	ND (9400) U	ND (41) U	ND (42) U	ND (42) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (450) U	ND (860) U	ND (9400) U	ND (41) U	ND (42) U	ND (42) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (450) U	ND (860) U	ND (9400) U	ND (41) U	ND (42) U	ND (42) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (450) U	ND (860) U	ND (9400) U	ND (41) U	ND (42) U	ND (42) U
Aroclor-1248 (PCB-1248)	µg/kg	ND (450) U	10000	ND (9400) U	ND (41) U	ND (42) U	ND (42) U
Aroclor-1254 (PCB-1254)	µg/kg	5400	ND (860) U	69000	ND (41) U	ND (42) U	ND (42) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (450) U	1400	ND (9400) U	ND (41) U	ND (42) U	ND (42) U
Total PCBs	µg/kg	5400	11400	69000	0	0	0

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>P217</b>	<b>P217</b>	<b>P217</b>	<b>P217</b>	<b>P217</b>	<b>P217 P216_west</b>	<b>P217 P216_west</b>	
<b>Sample Location:</b>	<b>B-809012-2</b>	<b>B-809012-2</b>	<b>B-809012-9</b>	<b>B-809012-9</b>	<b>B-809012-9</b>	<b>B-809012-23</b>	<b>B-809012-23</b>	
<b>Sample ID:</b>	<b>S-809-040802-MG-005</b>	<b>S-809-040802-MG-006</b>	<b>S-809-041002-MG-024</b>	<b>S-809-041002-MG-025</b>	<b>S-809-041002-MG-026</b>	<b>S-809-090602-CLM-015</b>	<b>S-809-090602-CLM-016</b>	
<b>Sample Date:</b>	<b>4/8/2002</b>	<b>4/8/2002</b>	<b>4/10/2002</b>	<b>4/10/2002</b>	<b>4/10/2002</b>	<b>9/6/2002</b>	<b>9/6/2002</b>	
<b>Sample Depth:</b>	<b>(6-8) ft</b>	<b>(10.5-11.5) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(2-3.5) ft</b>	<b>(0-2) ft</b>	<b>(6-7) ft</b>	
				<b>Duplicate</b>				
<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	µg/kg	ND (42) U	ND (42) U	ND (42) U	ND (42) U	ND (47) U	ND (40) U	ND (42) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (42) U	ND (42) U	ND (42) U	ND (42) U	ND (47) U	ND (40) U	ND (42) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (42) U	ND (42) U	ND (42) U	ND (42) U	ND (47) U	ND (40) U	ND (42) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (42) U	ND (42) U	ND (42) U	ND (42) U	ND (47) U	ND (40) U	ND (42) U
Aroclor-1248 (PCB-1248)	µg/kg	ND (42) U	ND (42) U	ND (42) U	ND (42) U	ND (47) U	ND (40) U	ND (42) U
Aroclor-1254 (PCB-1254)	µg/kg	ND (42) U	ND (42) U	ND (42) U	ND (42) U	ND (47) U	ND (40) U	ND (42) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (42) U	ND (42) U	ND (42) U	ND (42) U	ND (47) U	ND (40) U	ND (42) U
Total PCBs	µg/kg	0	0	0	0	0	0	0

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>Background GMPT_west</b>	<b>Background</b>	<b>Background</b>	<b>P201 Background</b>	<b>Background P216_west</b>	<b>Background P216_west</b>	<b>A015</b>
<b>Sample Location:</b>	<b>BK-X142Y263</b>	<b>BK-X199Y347</b>	<b>BK-X199Y347</b>	<b>BK-X212Y042</b>	<b>BK-X281Y296</b>	<b>BK-X281Y296</b>	<b>B-X148Y233</b>
<b>Sample ID:</b>	<b>S-012402-MO-004</b>	<b>S-060602-MG-225</b>	<b>S-060602-MG-226</b>	<b>S-010223-MO-002</b>	<b>S-010223-MO-001</b>	<b>S-010223-MO-005</b>	<b>S-022202-KMV-532</b>
<b>Sample Date:</b>	<b>1/24/2002</b>	<b>6/6/2002</b>	<b>6/6/2002</b>	<b>1/23/2002</b>	<b>1/23/2002</b>	<b>1/23/2002</b>	<b>2/22/2002</b>
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(2-4) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>
						<b>Duplicate</b>	
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	µg/kg	ND (44) U	ND (42) U	ND (43) U	ND (42) U	ND (42) U	ND (3700) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (44) U	ND (42) U	ND (43) U	ND (42) U	ND (42) U	ND (3700) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (44) U	ND (42) U	ND (43) U	ND (42) U	ND (42) U	ND (3700) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (44) U	ND (42) U	ND (43) U	ND (42) U	ND (42) U	ND (3700) U
Aroclor-1248 (PCB-1248)	µg/kg	ND (44) U	ND (42) U	ND (43) U	ND (42) U	ND (42) U	48000
Aroclor-1254 (PCB-1254)	µg/kg	ND (44) U	ND (42) U	ND (43) U	ND (42) U	ND (42) U	ND (3700) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (44) U	ND (42) UJ	ND (43) UJ	ND (42) U	ND (42) U	4700
Total PCBs	µg/kg	0	0	0	0	0	52700

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A015</b>	<b>A015</b>	<b>A015</b>	<b>A007</b>	<b>A007</b>	<b>A007</b>	<b>A005</b>	
<b>Sample Location:</b>	<b>B-X148Y233</b>	<b>B-X148Y233</b>	<b>B-X148Y233</b>	<b>B-X158Y207</b>	<b>B-X158Y207</b>	<b>B-X158Y207</b>	<b>B-X165Y179</b>	
<b>Sample ID:</b>	<b>S-022202-KMV-533</b>	<b>S-022202-KMV-534</b>	<b>S-022202-KMV-535</b>	<b>S-030602-MG-161</b>	<b>S-030602-MG-162</b>	<b>S-030602-MG-163</b>	<b>S-010902-MG-021</b>	
<b>Sample Date:</b>	<b>2/22/2002</b>	<b>2/22/2002</b>	<b>2/22/2002</b>	<b>3/6/2002</b>	<b>3/6/2002</b>	<b>3/6/2002</b>	<b>1/9/2002</b>	
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(12-14) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(22-24) ft</b>	<b>(0-2) ft</b>	
	<b>Duplicate</b>							
<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	µg/kg	ND (360) U	ND (43) U	ND (46) U	ND (41) U	ND (43) U	ND (41) U	ND (42) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (360) U	ND (43) U	ND (46) U	ND (41) U	ND (43) U	ND (41) U	ND (42) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (360) U	ND (43) U	ND (46) U	ND (41) U	ND (43) U	ND (41) U	ND (42) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (360) U	ND (43) U	ND (46) U	ND (41) U	ND (43) U	ND (41) U	ND (42) U
Aroclor-1248 (PCB-1248)	µg/kg	3300	7.1 J	ND (46) U	88	ND (43) U	ND (41) U	10 J
Aroclor-1254 (PCB-1254)	µg/kg	ND (360) U	ND (43) U	ND (46) U	ND (41) U	ND (43) U	ND (41) U	ND (42) U
Aroclor-1260 (PCB-1260)	µg/kg	310 J	ND (43) U	ND (46) U	ND (41) U	ND (43) UJ	ND (41) UJ	ND (42) U
Total PCBs	µg/kg	3610	7.1	0	88	0	0	10

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram



**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A005</b>	<b>A005</b>	<b>A015</b>	<b>A015</b>	<b>A015</b>	<b>A015</b>	<b>A015</b>	<b>A006</b>
<b>Sample Location:</b>	<b>B-X165Y179</b>	<b>B-X165Y179</b>	<b>B-X169Y248</b>	<b>B-X169Y248</b>	<b>B-X169Y248</b>	<b>B-X169Y248</b>	<b>B-X169Y248</b>	<b>B-X170Y134</b>
<b>Sample ID:</b>	<b>S-010902-MG-022</b>	<b>S-010902-MG-023</b>	<b>S-022102-KMV-528</b>	<b>S-022102-KMV-529</b>	<b>S-022102-KMV-530</b>	<b>S-022102-KMV-531</b>	<b>S-022102-KMV-531</b>	<b>S-060302-MG-216</b>
<b>Sample Date:</b>	<b>1/9/2002</b>	<b>1/9/2002</b>	<b>2/21/2002</b>	<b>2/21/2002</b>	<b>2/21/2002</b>	<b>2/21/2002</b>	<b>2/21/2002</b>	<b>6/3/2002</b>
<b>Sample Depth:</b>	<b>(6-8) ft</b>	<b>(16-18) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(22-24) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>
				<b>Duplicate</b>				
<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	µg/kg	ND (44) U	ND (44) U	ND (690) U	ND (710) U	ND (730) U	ND (40) U	ND (200) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (44) U	ND (44) U	ND (690) U	ND (710) U	ND (730) U	ND (40) U	ND (200) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (44) U	ND (44) U	ND (690) U	ND (710) U	ND (730) U	ND (40) U	ND (200) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (44) U	ND (44) U	ND (690) U	ND (710) U	ND (730) U	ND (40) U	ND (200) U
Aroclor-1248 (PCB-1248)	µg/kg	ND (44) U	6.4 J	4900	5100	ND (730) U	ND (40) U	1300
Aroclor-1254 (PCB-1254)	µg/kg	ND (44) U	ND (44) U	ND (690) U	ND (710) U	9100	62	ND (200) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (44) U	ND (44) U	570 J	650 J	ND (730) U	ND (40) U	170 J
Total PCBs	µg/kg	0	6.4	5470	5750	9100	62	1470

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A006</b>	<b>A006</b>	<b>A005</b>	<b>A005</b>	<b>A005</b>	<b>A007</b>	<b>A007</b>	
<b>Sample Location:</b>	<b>B-X170Y134</b>	<b>B-X170Y134</b>	<b>B-X170Y143</b>	<b>B-X170Y143</b>	<b>B-X170Y143</b>	<b>B-X170Y211</b>	<b>B-X170Y211</b>	
<b>Sample ID:</b>	<b>S-060302-MG-217</b>	<b>S-060302-MG-218</b>	<b>S-032102-MG-203</b>	<b>S-032102-MG-204</b>	<b>S-032102-MG-205</b>	<b>S-030602-MG-158</b>	<b>S-030602-MG-159</b>	
<b>Sample Date:</b>	<b>6/3/2002</b>	<b>6/3/2002</b>	<b>3/21/2002</b>	<b>3/21/2002</b>	<b>3/21/2002</b>	<b>3/6/2002</b>	<b>3/6/2002</b>	
<b>Sample Depth:</b>	<b>(4-6) ft</b>	<b>(4-6) ft</b> <b>Duplicate</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(19.5-21.5) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	
<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	µg/kg	ND (43) U	ND (48) U	ND (180) U	ND (77) U	ND (44) U	ND (39) U	ND (43) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (43) U	ND (48) U	ND (180) U	ND (77) U	ND (44) U	ND (39) U	ND (43) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (43) U	ND (48) U	ND (180) U	ND (77) U	ND (44) U	ND (39) U	ND (43) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (43) U	ND (48) U	ND (180) U	ND (77) U	93	ND (39) U	ND (43) U
Aroclor-1248 (PCB-1248)	µg/kg	ND (43) U	ND (48) U	ND (180) U	ND (77) U	ND (44) U	ND (39) U	ND (43) U
Aroclor-1254 (PCB-1254)	µg/kg	ND (43) U	ND (48) U	910	550	ND (44) U	ND (39) U	ND (43) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (43) U	ND (48) U	ND (180) U	ND (77) U	ND (44) U	ND (39) U	ND (43) U
Total PCBs	µg/kg	0	0	910	550	93	0	0

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007</b>	<b>A005</b>	<b>A005</b>	<b>A005</b>	<b>A005</b>	<b>A006 P200</b>	<b>A006 P200</b>	
<b>Sample Location:</b>	<b>B-X170Y211</b>	<b>B-X171Y157</b>	<b>B-X171Y157</b>	<b>B-X171Y157</b>	<b>B-X171Y157</b>	<b>B-X173Y125</b>	<b>B-X173Y125</b>	
<b>Sample ID:</b>	<b>S-030602-MG-160</b>	<b>S-032202-MG-206</b>	<b>S-032202-MG-207</b>	<b>S-032202-MG-208</b>	<b>S-032202-MG-209</b>	<b>S-060302-MG-219</b>	<b>S-060302-MG-220</b>	
<b>Sample Date:</b>	<b>3/6/2002</b>	<b>3/22/2002</b>	<b>3/22/2002</b>	<b>3/22/2002</b>	<b>3/22/2002</b>	<b>6/3/2002</b>	<b>6/3/2002</b>	
<b>Sample Depth:</b>	<b>(26-28) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(18-20) ft</b>	<b>(18-20) ft</b>	<b>(0-2) ft</b>	<b>(4-6) ft</b>	
					<b>Duplicate</b>			
<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	µg/kg	ND (42) U	ND (43) U	ND (41) U	ND (41) U	ND (40) U	ND (38) U	ND (42) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (42) U	ND (43) U	ND (41) U	ND (41) U	ND (40) U	ND (38) U	ND (42) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (42) U	ND (43) U	ND (41) U	ND (41) U	ND (40) U	ND (38) U	ND (42) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (42) U	ND (43) U	130	ND (41) U	ND (40) U	ND (38) U	ND (42) U
Aroclor-1248 (PCB-1248)	µg/kg	ND (42) U	ND (43) U	ND (41) U	ND (41) U	ND (40) U	220	120
Aroclor-1254 (PCB-1254)	µg/kg	ND (42) U	ND (43) U	ND (41) U	ND (41) U	ND (40) U	ND (38) U	ND (42) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (42) U	ND (43) U	ND (41) U	ND (41) U	ND (40) U	45	24J
Total PCBs	µg/kg	0	0	130	0	0	265	144

**Notes:**  
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 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A006</b>	<b>A006</b>	<b>A006</b>	<b>A006</b>	<b>A006</b>	<b>A005</b>	<b>A005</b>	
<b>Sample Location:</b>	<b>B-X173Y131</b>	<b>B-X173Y131</b>	<b>B-X173Y131</b>	<b>B-X173Y134</b>	<b>B-X173Y134</b>	<b>B-X176Y143</b>	<b>B-X176Y143</b>	
<b>Sample ID:</b>	<b>S-031402-MG-181</b>	<b>S-031402-MG-182</b>	<b>S-031402-MG-183</b>	<b>S-060302-MG-214</b>	<b>S-060302-MG-215</b>	<b>S-010902-MG-017</b>	<b>S-010902-MG-018</b>	
<b>Sample Date:</b>	<b>3/14/2002</b>	<b>3/14/2002</b>	<b>3/14/2002</b>	<b>6/3/2002</b>	<b>6/3/2002</b>	<b>1/9/2002</b>	<b>1/9/2002</b>	
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(18-20) ft</b>	<b>(2-4) ft</b>	<b>(4-6) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	
<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	µg/kg	ND (190000) U	ND (41) U	ND (43) U	ND (42) U	ND (42) U	ND (1900) U	ND (19000) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (190000) U	ND (41) U	ND (43) U	ND (42) U	ND (42) U	ND (1900) U	ND (19000) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (190000) U	ND (41) U	ND (43) U	ND (42) U	ND (42) U	ND (1900) U	ND (19000) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (190000) U	ND (41) U	ND (43) U	ND (42) U	ND (42) U	ND (1900) U	210000
Aroclor-1248 (PCB-1248)	µg/kg	1100000	24 J	39 J	590	ND (42) U	7200	ND (19000) U
Aroclor-1254 (PCB-1254)	µg/kg	ND (190000) U	ND (41) U	ND (43) U	ND (42) U	ND (42) U	ND (1900) U	ND (19000) U
Aroclor-1260 (PCB-1260)	µg/kg	260000	ND (41) U	ND (43) U	66	ND (42) U	5900	29000
Total PCBs	µg/kg	1360000	24	39	656	0	13100	239000

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A005</b>		<b>A005</b>		<b>A005</b>		<b>A005</b>	
<b>Sample Location:</b>	<b>B-X176Y143</b>		<b>B-X176Y143</b>		<b>B-X176Y179</b>		<b>B-X176Y187</b>	
<b>Sample ID:</b>	<b>S-010902-MG-019</b>		<b>S-010902-MG-020</b>		<b>S-022202-MG-128</b>		<b>S-022202-MG-130</b>	
<b>Sample Date:</b>	<b>1/9/2002</b>		<b>1/9/2002</b>		<b>2/22/2002</b>		<b>2/22/2002</b>	
<b>Sample Depth:</b>	<b>(21-23) ft</b>		<b>(21-23) ft</b>		<b>(6-8) ft</b>		<b>(24-26) ft</b>	
			<b>Duplicate</b>				<b>(0-2) ft</b>	
							<b>Duplicate</b>	

<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	µg/kg	ND (40) U	ND (42) U	ND (77) U	ND (190) U	ND (44) U	ND (83) U	ND (83) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (40) U	ND (42) U	ND (77) U	ND (190) U	ND (44) U	ND (83) U	ND (83) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (40) U	ND (42) U	ND (77) U	ND (190) U	ND (44) U	ND (83) U	ND (83) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (40) U	ND (42) U	ND (77) U	ND (190) U	ND (44) U	ND (83) U	ND (83) U
Aroclor-1248 (PCB-1248)	µg/kg	5.8 J	ND (42) U	900	ND (190) U	ND (44) U	730	580
Aroclor-1254 (PCB-1254)	µg/kg	ND (40) U	ND (42) U	ND (77) U	1400	ND (44) U	ND (83) U	ND (83) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (40) U	ND (42) U	430	ND (190) U	ND (44) UJ	66 J	32 J
Total PCBs	µg/kg	5.8	0	1330	1400	0	796	612

**Notes:**  
 U - Not present at or above the as:  
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 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A005</b>	<b>A005</b>	<b>A004</b>
<b>Sample Location:</b>	<b>B-X176Y187</b>	<b>B-X176Y187</b>	<b>B-X177Y252D</b>
<b>Sample ID:</b>	<b>S-022102-MG-124</b>	<b>S-022102-MG-125</b>	<b>S-022003-MG-240</b>
<b>Sample Date:</b>	<b>2/21/2002</b>	<b>2/21/2002</b>	<b>2/20/2003</b>
<b>Sample Depth:</b>	<b>(8-10) ft</b>	<b>(36-38) ft</b>	<b>(0-2) ft</b>

<b>Parameters</b>	<b>Units</b>			
<b>PCBs</b>				
Aroclor-1016 (PCB-1016)	µg/kg	ND (40) U	ND (44) U	ND (43) U
Aroclor-1221 (PCB-1221)	µg/kg	ND (40) U	ND (44) U	ND (43) U
Aroclor-1232 (PCB-1232)	µg/kg	ND (40) U	ND (44) U	ND (43) U
Aroclor-1242 (PCB-1242)	µg/kg	ND (40) U	ND (44) U	ND (43) U
Aroclor-1248 (PCB-1248)	µg/kg	ND (40) U	ND (44) U	ND (43) U
Aroclor-1254 (PCB-1254)	µg/kg	500	ND (44) U	ND (43) U
Aroclor-1260 (PCB-1260)	µg/kg	ND (40) U	ND (44) U	ND (43) U
Total PCBs	µg/kg	500	0	0

**Notes:**  
 U - Not present at or above the as:  
 J - Estimated  
 R - Rejected  
 UJ - Quantitation limit qualified as  
 µg/kg - Micrograms per kilogram

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A004</b>	<b>A004</b>	<b>A004</b>	<b>A004</b>	<b>A006</b>	<b>A006</b>	<b>A006</b>	<b>A006</b>	
<b>Sample Location:</b>	<b>B-X177Y252D</b>	<b>B-X177Y252D</b>	<b>B-X177Y252D</b>	<b>B-X177Y252D</b>	<b>B-X183Y133</b>	<b>B-X183Y133</b>	<b>B-X183Y133</b>	<b>B-X183Y133</b>	
<b>Sample ID:</b>	<b>S-022003-MG-241</b>	<b>S-022003-MG-242</b>	<b>S-022003-MG-243</b>	<b>S-022003-MG-244</b>	<b>S-011102-MG-039</b>	<b>S-011102-MG-040</b>	<b>S-011102-MG-041</b>	<b>S-011102-MG-042</b>	
<b>Sample Date:</b>	<b>2/20/2003</b>	<b>2/20/2003</b>	<b>2/20/2003</b>	<b>2/20/2003</b>	<b>1/11/2002</b>	<b>1/11/2002</b>	<b>1/11/2002</b>	<b>1/11/2002</b>	
<b>Sample Depth:</b>	<b>(6-8) ft</b>	<b>(6-8) ft</b>	<b>(18-20) ft</b>	<b>(24-25) ft</b>	<b>(0-2) ft</b>	<b>(3.5-4.5) ft</b>	<b>(6-8) ft</b>	<b>(6-8) ft</b>	
<b>Parameters</b>	<b>Units</b>								
<b>PCBs</b>									
Aroclor-1016 (PCB-1016)	ug/kg	ND (720) U	ND (1800) U	ND (740) U	ND (42) U	ND (39000) U	ND (43000) U	ND (42) U	ND (42) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (720) U	ND (1800) U	ND (740) U	ND (42) U	ND (39000) U	ND (43000) U	ND (42) U	ND (42) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (720) U	ND (1800) U	ND (740) U	ND (42) U	ND (39000) U	ND (43000) U	ND (42) U	ND (42) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (720) U	ND (1800) U	ND (740) U	ND (42) U	ND (39000) U	670000	ND (42) U	ND (42) U
Aroclor-1248 (PCB-1248)	ug/kg	4100	7700	3100	150	ND (39000) U	ND (43000) U	230	ND (42) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (720) U	ND (1800) U	ND (740) U	ND (42) U	ND (39000) U	ND (43000) U	ND (42) U	ND (42) U
Aroclor-1260 (PCB-1260)	ug/kg	580 J	2100	720 J	36 J	ND (39000) U	95000	33 J	ND (42) U
Total PCBs	ug/kg	4680	9800	3820	186	0	765000	263	0

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A006</b>	<b>A005</b>	<b>A005</b>	<b>A005</b>	<b>A005</b>	<b>A007</b>	<b>A007</b>	<b>A007</b>	
<b>Sample Location:</b>	<b>B-X183Y133</b>	<b>B-X185Y185</b>	<b>B-X185Y185</b>	<b>B-X185Y185</b>	<b>B-X185Y185</b>	<b>B-X185Y195</b>	<b>B-X185Y195</b>	<b>B-X185Y195</b>	
<b>Sample ID:</b>	<b>S-011102-MG-043</b>	<b>S-011002-MG-024</b>	<b>S-011002-MG-025</b>	<b>S-011002-MG-026</b>	<b>S-011002-MG-027</b>	<b>S-031502-MG-186</b>	<b>S-031502-MG-187</b>	<b>S-031502-MG-188</b>	
<b>Sample Date:</b>	<b>1/11/2002</b>	<b>1/10/2002</b>	<b>1/10/2002</b>	<b>1/10/2002</b>	<b>1/10/2002</b>	<b>3/15/2002</b>	<b>3/15/2002</b>	<b>3/15/2002</b>	
<b>Sample Depth:</b>	<b>(18-19) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(14-15) ft</b>	<b>(33.5-35.5) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(11-12.5) ft</b>	
<b>Parameters</b>	<b>Units</b>								
<b>PCBs</b>									
Aroclor-1016 (PCB-1016)	ug/kg	ND (43) U	ND (44) U	ND (380) U	ND (2000) U	ND (41) U	ND (42) U	ND (42) U	ND (48) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (43) U	ND (44) U	ND (380) U	ND (2000) U	ND (41) U	ND (42) U	ND (42) U	ND (48) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (43) U	ND (44) U	ND (380) U	ND (2000) U	ND (41) U	ND (42) U	ND (42) U	ND (48) U
Aroclor-1242 (PCB-1242)	ug/kg	26 J	ND (44) U	ND (380) U	ND (2000) U	ND (41) U	ND (42) U	ND (42) U	ND (48) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (43) U	690	2400	10000	ND (41) U	ND (42) U	ND (42) U	ND (48) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (43) U	ND (44) U	ND (380) U	ND (2000) U	ND (41) U	ND (42) U	ND (42) U	ND (48) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (43) U	ND (44) U	ND (380) U	ND (2000) U	ND (41) U	ND (42) U	ND (42) U	ND (48) U
Total PCBs	ug/kg	26	690	2400	10000	0	0	0	0



**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>A005</i>	<i>A005</i>	<i>A005</i>	<i>A005</i>	<i>A005</i>	<i>A005</i>	<i>A005</i>	<i>A005</i>	
<i>Sample Location:</i>	<i>B-X186Y159</i>	<i>B-X186Y159</i>	<i>B-X186Y159</i>	<i>B-X186Y159</i>	<i>B-X186Y159</i>	<i>B-X186Y159</i>	<i>B-X186Y180</i>	<i>B-X186Y180</i>	
<i>Sample ID:</i>	<i>S-032002-MG-195</i>	<i>S-032002-MG-196</i>	<i>S-032002-MG-197</i>	<i>S-032002-MG-198</i>	<i>S-032002-MG-199</i>	<i>S-032102-MG-200</i>	<i>S-032102-MG-201</i>	<i>S-032102-MG-202</i>	
<i>Sample Date:</i>	<i>3/20/2002</i>	<i>3/20/2002</i>	<i>3/20/2002</i>	<i>3/20/2002</i>	<i>3/20/2002</i>	<i>3/21/2002</i>	<i>3/21/2002</i>	<i>3/21/2002</i>	
<i>Sample Depth:</i>	<i>(1-3) ft</i>	<i>(1-3) ft</i>	<i>(6-8) ft</i>	<i>(18-20) ft</i>	<i>(21-23) ft</i>	<i>(0-2) ft</i>	<i>(6-8) ft</i>	<i>(20-22) ft</i>	
<i>Parameters</i>	<i>Units</i>								
<b>PCBs</b>									
Aroclor-1016 (PCB-1016)	ug/kg	ND (2000) U	ND (2000) U	ND (8000) U	ND (210000) U	ND (180000) U	ND (190000) U	ND (1100000) U	ND (41) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (2000) U	ND (2000) U	ND (8000) U	ND (210000) U	ND (180000) U	ND (190000) U	ND (1100000) U	ND (41) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (2000) U	ND (2000) U	ND (8000) U	ND (210000) U	2300000	ND (190000) U	ND (1100000) U	ND (41) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (2000) U	ND (2000) U	82000	3200000	ND (180000) U	2300000	8600000	29 J
Aroclor-1248 (PCB-1248)	ug/kg	26000	19000	ND (8000) U	ND (210000) U	ND (180000) U	ND (190000) U	ND (1100000) U	ND (41) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (2000) U	ND (2000) U	ND (8000) U	ND (210000) U	ND (180000) U	ND (190000) U	ND (1100000) U	ND (41) U
Aroclor-1260 (PCB-1260)	ug/kg	1300 J	1300 J	20000	73000 J	ND (180000) U	ND (190000) U	ND (1100000) U	ND (41) U
Total PCBs	ug/kg	27300	20300	102000	3273000	2300000	2300000	8600000	29

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A004</b>	<b>A004</b>	<b>A006 P200</b>	<b>A006 P200</b>	<b>A006 P200</b>	<b>A004</b>	<b>A004</b>	<b>A004</b>	
<b>Sample Location:</b>	<b>B-X187Y217</b>	<b>B-X187Y217</b>	<b>B-X189Y122</b>	<b>B-X189Y122</b>	<b>B-X189Y122</b>	<b>B-X192Y234</b>	<b>B-X192Y234</b>	<b>B-X192Y234</b>	
<b>Sample ID:</b>	<b>S-030602-MG-156</b>	<b>S-030602-MG-157</b>	<b>S-011502-MG-054</b>	<b>S-011502-MG-055</b>	<b>S-011502-MG-056</b>	<b>S-030502-MG-153</b>	<b>S-030502-MG-154</b>	<b>S-030502-MG-155</b>	
<b>Sample Date:</b>	<b>3/6/2002</b>	<b>3/6/2002</b>	<b>1/15/2002</b>	<b>1/15/2002</b>	<b>1/15/2002</b>	<b>3/5/2002</b>	<b>3/5/2002</b>	<b>3/5/2002</b>	
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(8-10) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(20-22) ft</b>	
<b>Parameters</b>	<b>Units</b>								
<b>PCBs</b>									
Aroclor-1016 (PCB-1016)	ug/kg	ND (41) U	ND (43) U	ND (81) U	ND (430) U	ND (220) U	ND (44) U	ND (180) U	ND (38) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (41) U	ND (43) U	ND (81) U	ND (430) U	ND (220) U	ND (44) U	ND (180) U	ND (38) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (41) U	ND (43) U	ND (81) U	ND (430) U	ND (220) U	ND (44) U	ND (180) U	ND (38) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (41) U	ND (43) U	ND (81) U	ND (430) U	530	ND (44) U	ND (180) U	ND (38) U
Aroclor-1248 (PCB-1248)	ug/kg	170	25 J	1400	2700	ND (220) U	11 J	1600	ND (38) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (41) U	ND (43) U	ND (81) U	ND (430) U	ND (220) U	ND (44) U	ND (180) U	190
Aroclor-1260 (PCB-1260)	ug/kg	27 J	ND (43) U	120	ND (430) U	ND (220) U	ND (44) U	100 J	ND (38) U
Total PCBs	ug/kg	197	25	1520	2700	530	11	1700	190

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>A008 P200</i>	<i>A008 P200</i>	<i>A008 P200</i>	<i>A008 P200</i>	<i>A005</i>	<i>A005</i>	<i>A005</i>	<i>A005</i>	
<i>Sample Location:</i>	<i>B-X193Y098</i>	<i>B-X193Y098</i>	<i>B-X193Y098</i>	<i>B-X193Y098</i>	<i>B-X193Y172</i>	<i>B-X193Y172</i>	<i>B-X193Y172</i>	<i>B-X193Y172</i>	
<i>Sample ID:</i>	<i>S-010702-MG-004</i>	<i>S-010702-MG-005</i>	<i>S-010702-MG-006</i>	<i>S-010702-MG-007</i>	<i>S-031802-MG-191</i>	<i>S-031802-MG-192</i>	<i>S-031802-MG-193</i>	<i>S-031802-MG-194</i>	
<i>Sample Date:</i>	<i>1/7/2002</i>	<i>1/7/2002</i>	<i>1/7/2002</i>	<i>1/7/2002</i>	<i>3/18/2002</i>	<i>3/18/2002</i>	<i>3/18/2002</i>	<i>3/18/2002</i>	
<i>Sample Depth:</i>	<i>(0-2) ft</i>	<i>(6-8) ft</i>	<i>(12-13) ft</i>	<i>(13-14) ft</i>	<i>(0-2) ft</i>	<i>(6-8) ft</i>	<i>(25-27) ft</i>	<i>(31-33) ft</i>	
<b>Parameters</b>	<b>Units</b>								
<b>PCBs</b>									
Aroclor-1016 (PCB-1016)	ug/kg	ND (41) U	ND (47) U	ND (85000) U	ND (170000) U	ND (44) U	ND (370) U	ND (41) U	ND (48) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (41) U	ND (47) U	ND (85000) U	ND (170000) U	ND (44) U	ND (370) U	ND (41) U	ND (48) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (41) U	ND (47) U	760000	1700000	ND (44) U	ND (370) U	ND (41) U	ND (48) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (41) U	ND (47) U	ND (85000) U	ND (170000) U	ND (44) U	2400	ND (41) U	ND (48) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (41) U	ND (47) U	ND (85000) U	ND (170000) U	140	ND (370) U	93	ND (48) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (41) U	ND (47) U	ND (85000) U	ND (170000) U	ND (44) U	ND (370) U	ND (41) U	ND (48) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (41) U	ND (47) U	ND (85000) U	ND (170000) U	ND (44) U	ND (370) U	ND (41) U	ND (48) U
Total PCBs	ug/kg	0	0	760000	1700000	140	2400	93	0

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>A005</i>	<i>A005</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	<i>A006</i>	<i>A006</i>	
<i>Sample Location:</i>	<i>B-X193Y194</i>	<i>B-X193Y194</i>	<i>B-X193Y251</i>	<i>B-X193Y251</i>	<i>B-X193Y251</i>	<i>B-X193Y251</i>	<i>B-X195Y133</i>	<i>B-X195Y133</i>	
<i>Sample ID:</i>	<i>S-022102-MG-126</i>	<i>S-022102-MG-127</i>	<i>S-030402-MG-146</i>	<i>S-030402-MG-147</i>	<i>S-030402-MG-148</i>	<i>S-030402-MG-149</i>	<i>S-031102-MG-175</i>	<i>S-031102-MG-176</i>	
<i>Sample Date:</i>	<i>2/21/2002</i>	<i>2/21/2002</i>	<i>3/4/2002</i>	<i>3/4/2002</i>	<i>3/4/2002</i>	<i>3/4/2002</i>	<i>3/11/2002</i>	<i>3/11/2002</i>	
<i>Sample Depth:</i>	<i>(0-2) ft</i>	<i>(5-7) ft</i>	<i>(0-2) ft</i>	<i>(0-2) ft</i> <i>Duplicate</i>	<i>(6-8) ft</i>	<i>(26-28) ft</i>	<i>(0-2) ft</i>	<i>(6-8) ft</i>	
<i>Parameters</i>	<i>Units</i>								
<b>PCBs</b>									
Aroclor-1016 (PCB-1016)	ug/kg	ND (43) U	ND (45) U	ND (43) U	ND (42) U	ND (3500) U	ND (19000) U	ND (40) U	ND (41) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (43) U	ND (45) U	ND (43) U	ND (42) U	ND (3500) U	ND (19000) U	ND (40) U	ND (41) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (43) U	ND (45) U	ND (43) U	ND (42) U	ND (3500) U	ND (19000) U	ND (40) U	ND (41) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (43) U	ND (45) U	ND (43) U	ND (42) U	ND (3500) U	ND (19000) U	ND (40) U	ND (41) U
Aroclor-1248 (PCB-1248)	ug/kg	15 J	ND (45) U	ND (43) U	8.1 J	69000	ND (19000) U	34 J	ND (41) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (43) U	ND (45) U	ND (43) U	ND (42) U	ND (3500) U	280000	ND (40) U	ND (41) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (43) U	ND (45) U	ND (43) U	ND (42) U	13000	ND (19000) U	ND (40) U	ND (41) U
Total PCBs	ug/kg	15	0	0	8.1	82000	280000	34	0

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A006</b>	<b>A005</b>	<b>A005</b>	<b>A005</b>	<b>A005</b>	<b>A005</b>	<b>A005</b>	<b>A005</b>	
<b>Sample Location:</b>	<b>B-X195Y133</b>	<b>SS-X195Y161</b>	<b>SS-X200Y156</b>	<b>B-X200Y161</b>	<b>B-X200Y161</b>	<b>B-X200Y161</b>	<b>B-X200Y161</b>	<b>SS-X200Y166</b>	
<b>Sample ID:</b>	<b>S-031102-MG-177</b>	<b>S-060302-MG-222</b>	<b>S-060302-MG-221</b>	<b>S-011002-MG-028</b>	<b>S-011002-MG-029</b>	<b>S-011002-MG-030</b>	<b>S-011002-MG-031</b>	<b>S-060302-MG-223</b>	
<b>Sample Date:</b>	<b>3/11/2002</b>	<b>6/3/2002</b>	<b>6/3/2002</b>	<b>1/10/2002</b>	<b>1/10/2002</b>	<b>1/10/2002</b>	<b>1/10/2002</b>	<b>6/3/2002</b>	
<b>Sample Depth:</b>	<b>(15-17) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(9-11) ft</b>	<b>(0-2) ft</b>	
<b>Parameters</b>	<b>Units</b>								
<b>PCBs</b>									
Aroclor-1016 (PCB-1016)	ug/kg	ND (43) U	ND (42) U	ND (41) U	ND (78000) U	ND (2000) U	ND (70) U	ND (20000) U	ND (40) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (43) U	ND (42) U	ND (41) U	ND (78000) U	ND (2000) U	ND (70) U	ND (20000) U	ND (40) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (43) U	ND (42) U	ND (41) U	ND (78000) U	ND (2000) U	ND (70) U	ND (20000) U	ND (40) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (43) U	ND (42) U	ND (41) U	ND (78000) U	ND (2000) U	ND (70) U	ND (20000) U	ND (40) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (43) U	60	380	1000000	10000	880	300000	ND (40) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (43) U	ND (42) U	ND (41) U	ND (78000) U	ND (2000) U	ND (70) U	ND (20000) U	ND (40) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (43) U	ND (42) U	16 J	25000 J	ND (2000) U	ND (70) U	8000 J	ND (40) U
Total PCBs	ug/kg	0	60	396	1025000	10000	880	308000	0

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A011 P200</b>	<b>A006</b>	<b>A006</b>	<b>A006</b>	<b>A006</b>	<b>A006</b>	<b>A006</b>	<b>A005</b>	
<b>Sample Location:</b>	<b>B-X204Y111C</b>	<b>B-X204Y132</b>	<b>B-X204Y132</b>	<b>B-X204Y132</b>	<b>B-X204Y149</b>	<b>B-X204Y149</b>	<b>B-X204Y149</b>	<b>SS-X205Y161</b>	
<b>Sample ID:</b>	<b>S-010802-MG-016</b>	<b>S-011102-MG-044</b>	<b>S-011102-MG-045</b>	<b>S-011102-MG-046</b>	<b>S-011002-MG-032</b>	<b>S-011002-MG-033</b>	<b>S-011002-MG-034</b>	<b>S-060302-MG-224</b>	
<b>Sample Date:</b>	<b>1/8/2002</b>	<b>1/11/2002</b>	<b>1/11/2002</b>	<b>1/11/2002</b>	<b>1/10/2002</b>	<b>1/10/2002</b>	<b>1/10/2002</b>	<b>6/3/2002</b>	
<b>Sample Depth:</b>	<b>(6.5-7.5) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(14-15.5) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(15-16) ft</b>	<b>(0-2) ft</b>	
<b>Parameters</b>	<b>Units</b>								
<b>PCBs</b>									
Aroclor-1016 (PCB-1016)	ug/kg	ND (190) U	ND (81000) U	ND (82) U	ND (41) U	ND (400) U	ND (830) U	ND (41) U	ND (41) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (190) U	ND (81000) U	ND (82) U	ND (41) U	ND (400) U	ND (830) U	ND (41) U	ND (41) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (190) U	ND (81000) U	ND (82) U	ND (41) U	ND (400) U	ND (830) U	ND (41) U	ND (41) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (190) U	1300000	490	24 J	ND (400) U	ND (830) U	ND (41) U	ND (41) U
Aroclor-1248 (PCB-1248)	ug/kg	1100	ND (81000) U	ND (82) U	ND (41) U	4300	13000	120	120
Aroclor-1254 (PCB-1254)	ug/kg	ND (190) U	ND (81000) U	ND (82) U	ND (41) U	ND (400) U	ND (830) U	ND (41) U	ND (41) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (190) U	ND (81000) U	ND (82) U	ND (41) U	460	ND (830) U	ND (41) U	ND (41) U
Total PCBs	ug/kg	1100	1300000	490	24	4760	13000	120	120

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A008 P200</b>	<b>A008 P200</b>	<b>A008 P200</b>	<b>A008 P200</b>	<b>A008 P200</b>	<b>A008 P200</b>	<b>A008 P200</b>
<b>Sample Location:</b>	<b>B-X209Y078A</b>	<b>B-X209Y078A</b>	<b>B-X209Y078A</b>	<b>B-X209Y078A</b>	<b>B-X209Y078A</b>	<b>B-X209Y078B</b>	<b>B-X209Y078B</b>
<b>Sample ID:</b>	<b>S-071602-CLM-004</b>	<b>S-071602-CLM-005</b>	<b>S-071602-CLM-006</b>	<b>S-071602-CLM-007</b>	<b>S-071602-CLM-001</b>	<b>S-071602-CLM-002</b>	<b>S-071602-CLM-003</b>
<b>Sample Date:</b>	<b>7/16/2002</b>	<b>7/16/2002</b>	<b>7/16/2002</b>	<b>7/16/2002</b>	<b>7/16/2002</b>	<b>7/16/2002</b>	<b>7/16/2002</b>
<b>Sample Depth:</b>	<b>(2-4) ft</b>	<b>(6-8) ft</b>	<b>(10-12) ft</b>	<b>(11.5-13.5) ft</b>	<b>(6-8) ft</b>	<b>(10-12) ft</b>	<b>(10.5-12.5) ft</b>
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/kg	ND (42) U	ND (36) U	ND (200) U	ND (240) U	ND (36) U	ND (44) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (42) U	ND (36) U	ND (200) U	ND (240) U	ND (36) U	ND (44) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (42) U	ND (36) U	ND (200) U	ND (240) U	ND (36) U	ND (44) U
Aroclor-1242 (PCB-1242)	ug/kg	40 J	ND (36) U	860	750	ND (36) U	ND (44) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (42) U	ND (36) U	ND (200) U	ND (240) U	ND (36) U	ND (44) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (42) U	ND (36) U	ND (200) U	ND (240) U	ND (36) U	ND (44) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (42) U	ND (36) U	ND (200) U	ND (240) U	ND (36) U	ND (44) U
Total PCBs	ug/kg	40	0	860	750	0	0

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A008 P200</b>	<b>A008 P200</b>	<b>A008 P200</b>	<b>A008 P200</b>	<b>A008 P200</b>	<b>A008 P200</b>	<b>A005</b>	
<b>Sample Location:</b>	<b>B-X209Y078B</b>	<b>B-X209Y078B</b>	<b>B-X209Y078C</b>	<b>B-X209Y078C</b>	<b>B-X209Y078C</b>	<b>B-X209Y078C</b>	<b>B-X209Y177</b>	
<b>Sample ID:</b>	<b>S-071602-CLM-008</b>	<b>S-071602-CLM-013</b>	<b>S-071602-CLM-009</b>	<b>S-071602-CLM-010</b>	<b>S-071602-CLM-011</b>	<b>S-071602-CLM-012</b>	<b>S-031402-MG-184</b>	
<b>Sample Date:</b>	<b>7/16/2002</b>	<b>7/16/2002</b>	<b>7/16/2002</b>	<b>7/16/2002</b>	<b>7/16/2002</b>	<b>7/16/2002</b>	<b>3/14/2002</b>	
<b>Sample Depth:</b>	<b>(2-4) ft</b>	<b>(10-12) ft</b>	<b>(2-4) ft</b>	<b>(6-8) ft</b>	<b>(10-12) ft</b>	<b>(10.5-12.5) ft</b>	<b>(0-2) ft</b>	
		<b>Duplicate</b>						
<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	ug/kg	ND (41) U	ND (41) U	ND (42) U	ND (35) U	ND (200) U	ND (400) U	ND (43) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (41) U	ND (41) U	ND (42) U	ND (35) U	ND (200) U	ND (400) U	ND (43) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (41) U	ND (41) U	ND (42) U	ND (35) U	ND (200) U	ND (400) U	ND (43) U
Aroclor-1242 (PCB-1242)	ug/kg	37 J	ND (41) U	ND (42) U	ND (35) U	1200	2800	ND (43) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (41) U	ND (41) U	ND (42) U	ND (35) U	ND (200) U	ND (400) U	57
Aroclor-1254 (PCB-1254)	ug/kg	ND (41) U	ND (41) U	ND (42) U	ND (35) U	ND (200) U	ND (400) U	ND (43) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (41) U	ND (41) U	ND (42) U	ND (35) U	ND (200) U	ND (400) U	ND (43) U
Total PCBs	ug/kg	37	0	0	0	1200	2800	57



**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A005</b>	<b>A006</b>	<b>A006</b>	<b>A006</b>	<b>A006</b>	<b>A006 P200</b>	<b>A006 P200</b>	<b>A006 P200</b>	
<b>Sample Location:</b>	<b>B-X209Y177</b>	<b>B-X211Y169</b>	<b>B-X211Y169</b>	<b>B-X211Y169</b>	<b>B-X211Y169</b>	<b>B-X213Y125</b>	<b>B-X213Y125</b>	<b>B-X213Y125</b>	
<b>Sample ID:</b>	<b>S-031402-MG-185</b>	<b>S-011402-MG-050</b>	<b>S-011402-MG-051</b>	<b>S-011402-MG-052</b>	<b>S-011402-MG-053</b>	<b>S-022502-MG-131</b>	<b>S-022502-MG-132</b>	<b>S-022502-MG-133</b>	
<b>Sample Date:</b>	<b>3/14/2002</b>	<b>1/14/2002</b>	<b>1/14/2002</b>	<b>1/14/2002</b>	<b>1/14/2002</b>	<b>2/25/2002</b>	<b>2/25/2002</b>	<b>2/25/2002</b>	
<b>Sample Depth:</b>	<b>(2-4) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(10-11) ft</b>	<b>(12-12.5) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(10-11.5) ft</b>	
<b>Parameters</b>	<b>Units</b>								
<b>PCBs</b>									
Aroclor-1016 (PCB-1016)	ug/kg	ND (4400) U	ND (1800) U	ND (7600) U	ND (110000) U	ND (45000) U	ND (40) U	ND (41) U	ND (43) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (4400) U	ND (1800) U	ND (7600) U	ND (110000) U	ND (45000) U	ND (40) U	ND (41) U	ND (43) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (4400) U	ND (1800) U	ND (7600) U	ND (110000) U	ND (45000) U	ND (40) U	ND (41) U	ND (43) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (4400) U	ND (1800) U	ND (7600) U	1200000	400000	ND (40) U	ND (41) U	ND (43) U
Aroclor-1248 (PCB-1248)	ug/kg	32000	18000	56000	ND (110000) U	ND (45000) U	ND (40) U	ND (41) U	ND (43) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (4400) U	ND (1800) U	ND (7600) U	ND (110000) U	ND (45000) U	ND (40) U	ND (41) U	ND (43) U
Aroclor-1260 (PCB-1260)	ug/kg	2600 J	1100 J	2900 J	ND (110000) U	ND (45000) U	ND (40) UJ	ND (41) UJ	ND (43) U
Total PCBs	ug/kg	34600	19100	58900	1200000	400000	0	0	0

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>A006 P200</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>	
<i>Sample Location:</i>	<i>B-X213Y125</i>	<i>B-X217Y131</i>	<i>B-X217Y131</i>	<i>B-X217Y131</i>	<i>B-X217Y131</i>	<i>B-X217Y131</i>	<i>B-X217Y159</i>	
<i>Sample ID:</i>	<i>S-022502-MG-134</i>	<i>S-031505-KMV-1117</i>	<i>S-031505-KMV-1118</i>	<i>S-031505-KMV-1119</i>	<i>S-031505-KMV-1120</i>	<i>S-022702-MG-141</i>	<i>S-022702-MG-142</i>	
<i>Sample Date:</i>	<i>2/25/2002</i>	<i>3/15/2005</i>	<i>3/15/2005</i>	<i>3/15/2005</i>	<i>3/15/2005</i>	<i>2/27/2002</i>	<i>2/27/2002</i>	
<i>Sample Depth:</i>	<i>(5-6) ft</i>	<i>(0-2) ft</i>	<i>(0-2) ft</i>	<i>(6-8) ft</i>	<i>(13-15) ft</i>	<i>(0-2) ft</i>	<i>(6-7) ft</i>	
<i>Parameters</i>	<i>Units</i>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	ug/kg	ND (40) U	ND (390000) U	ND (390000) U	ND (9000000) U	ND (430000) U	ND (40) U	ND (44) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (40) U	ND (390000) U	ND (390000) U	ND (9000000) U	ND (430000) U	ND (40) U	ND (44) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (40) U	ND (390000) U	ND (390000) U	ND (9000000) U	ND (430000) U	ND (40) U	ND (44) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (40) U	ND (390000) U	ND (390000) U	8300000 J	1600000	ND (40) U	ND (44) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (40) U	530000	1500000	ND (9000000) U	ND (430000) U	ND (40) U	ND (44) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (40) U	ND (390000) U	ND (390000) U	ND (9000000) U	ND (430000) U	ND (40) U	ND (44) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (40) U	ND (390000) U	ND (390000) U	ND (9000000) U	ND (430000) U	ND (40) U	ND (44) U
Total PCBs	ug/kg	0	530000	1500000	8300000	1600000	0	0

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A006</b>	<b>A006</b>	<b>A006</b>	<b>A006</b>	<b>A011 P200</b>	<b>A011 P200</b>	<b>A011 P200</b>	<b>A011 P200</b>
<b>Sample Location:</b>	<b>B-X218Y141</b>	<b>B-X218Y141</b>	<b>B-X218Y141</b>	<b>B-X218Y141</b>	<b>B-X219Y095</b>	<b>B-X219Y095</b>	<b>B-X219Y095</b>	<b>B-X219Y095</b>
<b>Sample ID:</b>	<b>S-011102-MG-035</b>	<b>S-011102-MG-036</b>	<b>S-011102-MG-037</b>	<b>S-011102-MG-038</b>	<b>S-010802-MG-008</b>	<b>S-010802-MG-009</b>	<b>S-010802-MG-010</b>	<b>S-010802-MG-011</b>
<b>Sample Date:</b>	<b>1/11/2002</b>	<b>1/11/2002</b>	<b>1/11/2002</b>	<b>1/11/2002</b>	<b>1/8/2002</b>	<b>1/8/2002</b>	<b>1/8/2002</b>	<b>1/8/2002</b>
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(8-10) ft</b>	<b>(14-15.5) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(8-9) ft</b>
<b>Parameters</b>	<b>Units</b>					<b>Duplicate</b>		
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	ug/kg	ND (400) U	ND (410000) U	6900000	ND (43000) U	ND (82) U	ND (420) U	ND (39000) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (400) U	ND (410000) U	ND (4100000) U	ND (43000) U	ND (82) U	2400	380000
Aroclor-1232 (PCB-1232)	ug/kg	ND (400) U	ND (410000) U	ND (4100000) U	ND (43000) U	ND (82) U	ND (420) U	ND (39000) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (400) U	5100000	8600000	580000	1000	ND (420) U	290000
Aroclor-1248 (PCB-1248)	ug/kg	2000	ND (410000) U	ND (4100000) U	ND (43000) U	ND (82) U	620	ND (39000) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (400) U	ND (410000) U	ND (4100000) U	ND (43000) U	ND (82) U	ND (420) U	ND (39000) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (400) U	ND (410000) U	ND (4100000) U	ND (43000) U	ND (82) U	ND (420) U	ND (39000) U
Total PCBs	ug/kg	2000	5100000	15500000	580000	1000	670	3020
								670000

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A011 P200</b>	<b>A004</b>	<b>A004</b>	<b>A004</b>	<b>A004</b>	<b>A004</b>	<b>A006</b>	<b>A006</b>
<b>Sample Location:</b>	<b>B-X219Y095</b>	<b>B-X219Y249</b>	<b>B-X219Y249</b>	<b>B-X219Y249</b>	<b>B-X219Y249</b>	<b>B-X219Y249</b>	<b>B-X221Y169</b>	<b>B-X221Y169</b>
<b>Sample ID:</b>	<b>S-010802-MG-012</b>	<b>S-022502-KMV-536</b>	<b>S-022502-KMV-537</b>	<b>S-022602-KMV-538</b>	<b>S-022602-KMV-539</b>	<b>S-022702-MG-139</b>	<b>S-022702-MG-140</b>	<b>S-022702-MG-140</b>
<b>Sample Date:</b>	<b>1/8/2002</b>	<b>2/25/2002</b>	<b>2/25/2002</b>	<b>2/26/2002</b>	<b>2/26/2002</b>	<b>2/27/2002</b>	<b>2/27/2002</b>	<b>2/27/2002</b>
<b>Sample Depth:</b>	<b>(13-14) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(22-23) ft</b>	<b>(0-2) ft</b>	<b>(4-5) ft</b>	<b>(4-5) ft</b>
			<b>Duplicate</b>					
<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	ug/kg	ND (7300) U	ND (41) U	ND (39) U	ND (1900) U	ND (390) U	ND (44) U	ND (44) U
Aroclor-1221 (PCB-1221)	ug/kg	49000	ND (41) U	ND (39) U	ND (1900) U	ND (390) U	ND (44) U	ND (44) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (7300) U	ND (41) U	ND (39) U	ND (1900) U	ND (390) U	ND (44) U	ND (44) U
Aroclor-1242 (PCB-1242)	ug/kg	98000	ND (41) U	ND (39) U	ND (1900) U	ND (390) U	ND (44) U	ND (44) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (7300) U	ND (41) U	ND (39) U	19000	3100	32 J	ND (44) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (7300) U	ND (41) U	ND (39) U	ND (1900) U	ND (390) U	ND (44) U	ND (44) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (7300) U	ND (41) U	ND (39) U	3000	290 J	ND (44) U	ND (44) U
Total PCBs	ug/kg	147000	0	0	22000	3390	32	0

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A011 P200</b>	<b>A011 P200</b>	<b>A011 P200</b>	<b>A006 P200</b>	<b>A006 P200</b>	<b>A006 P200</b>	<b>A006</b>	<b>A006</b>	
<b>Sample Location:</b>	<b>B-X223Y097A</b>	<b>B-X223Y097A</b>	<b>B-X223Y097B</b>	<b>B-X223Y124</b>	<b>B-X223Y124</b>	<b>B-X223Y124</b>	<b>B-X223Y150B</b>	<b>B-X223Y150B</b>	
<b>Sample ID:</b>	<b>S-010802-MG-013</b>	<b>S-010802-MG-014</b>	<b>S-010802-MG-015</b>	<b>S-011402-MG-047</b>	<b>S-011402-MG-048</b>	<b>S-011402-MG-049</b>	<b>S-022702-MG-143</b>	<b>S-022702-MG-144</b>	
<b>Sample Date:</b>	<b>1/8/2002</b>	<b>1/8/2002</b>	<b>1/8/2002</b>	<b>1/14/2002</b>	<b>1/14/2002</b>	<b>1/14/2002</b>	<b>2/27/2002</b>	<b>2/27/2002</b>	
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(5-6) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(14-15) ft</b>	<b>(3-4) ft</b>	<b>(6-8) ft</b>	
<b>Parameters</b>	<b>Units</b>								
<b>PCBs</b>									
Aroclor-1016 (PCB-1016)	ug/kg	ND (41) U	ND (10000) U	ND (230) U	ND (41) U	ND (42) U	ND (43) U	ND (8300) U	ND (4200) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (41) U	61000	1200	ND (41) U	ND (42) U	ND (43) U	ND (8300) U	ND (4200) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (41) U	ND (10000) U	ND (230) U	ND (41) U	ND (42) U	ND (43) U	ND (8300) U	ND (4200) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (41) U	120000	1400	ND (41) U	ND (42) U	ND (43) U	110000	32000
Aroclor-1248 (PCB-1248)	ug/kg	290	ND (10000) U	ND (230) U	23 J	ND (42) U	ND (43) U	ND (8300) U	ND (4200) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (41) U	ND (10000) U	ND (230) U	ND (41) U	ND (42) U	ND (43) U	ND (8300) U	ND (4200) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (41) U	ND (10000) U	ND (230) U	ND (41) U	ND (42) U	ND (43) U	ND (8300) U	ND (4200) U
Total PCBs	ug/kg	290	181000	2600	23	0	0	110000	32000

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A006</b>	<b>A004</b>	<b>A004</b>	<b>A004</b>	<b>A004</b>	<b>A006</b>	<b>A006</b>	<b>A006</b>	
<b>Sample Location:</b>	<b>B-X223Y150B</b>	<b>B-X223Y247D</b>	<b>B-X223Y247D</b>	<b>B-X223Y247D</b>	<b>B-X223Y247D</b>	<b>B-X224Y138A</b>	<b>B-X224Y138B</b>	<b>B-X224Y138B</b>	
<b>Sample ID:</b>	<b>S-022702-MG-145</b>	<b>S-012203-MG-236</b>	<b>S-012203-MG-237</b>	<b>S-012203-MG-238</b>	<b>S-012303-MG-239</b>	<b>S-022502-MG-135</b>	<b>S-022502-MG-136</b>	<b>S-022502-MG-137</b>	
<b>Sample Date:</b>	<b>2/27/2002</b>	<b>1/22/2003</b>	<b>1/22/2003</b>	<b>1/22/2003</b>	<b>1/23/2003</b>	<b>2/25/2002</b>	<b>2/25/2002</b>	<b>2/25/2002</b>	
<b>Sample Depth:</b>	<b>(10-12) ft</b>	<b>(0-2) ft</b>	<b>(8-10) ft</b>	<b>(22-24) ft</b>	<b>(34-35) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	
<b>Parameters</b>	<b>Units</b>								
<b>PCBs</b>									
Aroclor-1016 (PCB-1016)	ug/kg	ND (45) U	ND (41) U	ND (760) U	ND (210000) U	ND (2200) U	ND (43) U	ND (42) U	ND (40) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (45) U	ND (41) U	ND (760) U	ND (210000) U	ND (2200) U	ND (43) U	ND (42) U	ND (40) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (45) U	ND (41) U	ND (760) U	ND (210000) U	ND (2200) U	ND (43) U	ND (42) U	ND (40) U
Aroclor-1242 (PCB-1242)	ug/kg	320	ND (41) U	ND (760) U	1100000	14000	ND (43) U	ND (42) U	ND (40) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (45) U	ND (41) U	3700	ND (210000) U	ND (2200) U	19 J	240	ND (40) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (45) U	ND (41) U	ND (760) U	ND (210000) U	ND (2200) U	ND (43) U	ND (42) U	ND (40) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (45) U	ND (41) U	ND (760) U	ND (210000) U	ND (2200) U	ND (43) U	ND (42) U	ND (40) U
Total PCBs	ug/kg	320	0	3700	1100000	14000	19	240	0

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A006</b>	<b>A011 P200</b>	<b>A011 P200</b>	<b>A011 P200</b>	<b>A006</b>	<b>A006</b>	<b>A004</b>	<b>A004</b>	
<b>Sample Location:</b>	<b>B-X224Y138B</b>	<b>B-X225Y077</b>	<b>B-X225Y077</b>	<b>B-X225Y077</b>	<b>B-X232Y180</b>	<b>B-X232Y180</b>	<b>B-X243Y257</b>	<b>B-X243Y257</b>	
<b>Sample ID:</b>	<b>S-022502-MG-138</b>	<b>S-010402-MG-001</b>	<b>S-010402-MG-002</b>	<b>S-010402-MG-003</b>	<b>S-031802-MG-189</b>	<b>S-031802-MG-190</b>	<b>S-030502-MG-150</b>	<b>S-030502-MG-151</b>	
<b>Sample Date:</b>	<b>2/25/2002</b>	<b>1/4/2002</b>	<b>1/4/2002</b>	<b>1/4/2002</b>	<b>3/18/2002</b>	<b>3/18/2002</b>	<b>3/5/2002</b>	<b>3/5/2002</b>	
<b>Sample Depth:</b>	<b>(14-16) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(13-15) ft</b>	<b>(0-2) ft</b>	<b>(4.5-6.5) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	
<b>Parameters</b>	<b>Units</b>								
<b>PCBs</b>									
Aroclor-1016 (PCB-1016)	ug/kg	ND (47) U	ND (43) U	ND (34) U	ND (42) U	ND (41) U	ND (41) U	ND (43) U	ND (15000) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (47) U	ND (43) U	ND (34) U	ND (42) U	ND (41) U	ND (41) U	ND (43) U	ND (15000) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (47) U	ND (43) U	ND (34) U	ND (42) U	ND (41) U	ND (41) U	ND (43) U	ND (15000) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (47) U	ND (43) U	ND (34) U	ND (42) U	ND (41) U	ND (41) U	ND (43) U	170000
Aroclor-1248 (PCB-1248)	ug/kg	ND (47) U	95	ND (34) U	ND (42) U	8 J	ND (41) U	62	ND (15000) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (47) U	ND (43) U	ND (34) U	ND (42) U	ND (41) U	ND (41) U	ND (43) U	ND (15000) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (47) U	180	ND (34) U	ND (42) U	ND (41) U	ND (41) U	ND (43) U	ND (15000) U
Total PCBs	ug/kg	0	275	0	0	8	0	62	170000

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>A004</i>	<i>A014 P216_west</i>	<i>A014 P216_west</i>	<i>RFI Boundary P216_west</i>	<i>RFI Boundary P216_west</i>	<i>RFI Boundary P216_west</i>
<i>Sample Location:</i>	<i>B-X243Y257</i>	<i>B-X253Y329H</i>	<i>B-X254Y336</i>	<i>B-X261Y356</i>	<i>B-X261Y356</i>	<i>B-X261Y356</i>
<i>Sample ID:</i>	<i>S-030502-MG-152</i>	<i>S-012202-MG-063</i>	<i>S-012202-MG-064</i>	<i>S-011102-KMV-506</i>	<i>S-011102-KMV-507</i>	<i>S-011102-KMV-508</i>
<i>Sample Date:</i>	<i>3/5/2002</i>	<i>1/22/2002</i>	<i>1/22/2002</i>	<i>1/11/2002</i>	<i>1/11/2002</i>	<i>1/11/2002</i>
<i>Sample Depth:</i>	<i>(14-16) ft</i>	<i>(10-11) ft</i>	<i>(3-3.5) ft</i>	<i>(0-2) ft</i>	<i>(0-2) ft</i>	<i>(6-8) ft</i>
					<i>Duplicate</i>	
<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/kg	ND (41) U	ND (45) U	ND (44) U	ND (44) U	ND (42) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (41) U	ND (45) U	ND (44) U	ND (44) U	ND (42) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (41) U	ND (45) U	ND (44) U	ND (44) U	ND (42) U
Aroclor-1242 (PCB-1242)	ug/kg	24 J	ND (45) U	ND (44) U	ND (44) U	ND (42) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (41) U	84	ND (44) U	ND (44) U	ND (42) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (41) U	ND (45) U	ND (44) U	ND (44) U	ND (42) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (41) U	ND (45) U	ND (44) U	ND (44) U	ND (42) U
Total PCBs	ug/kg	24	84	0	0	0
						429



**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>RFI Boundary P216_west</i>	<i>A007 East Plant Area</i>	<i>A007 East Plant Area</i>	<i>A007 East Plant Area</i>	<i>A007 East Plant Area</i>	<i>A007 East Plant Area</i>	
<i>Sample Location:</i>	<i>B-X261Y356</i>	<i>CH-1</i>	<i>CH-2</i>	<i>CH-2</i>	<i>CH-2</i>	<i>CH-3</i>	
<i>Sample ID:</i>	<i>S-011102-KMV-509</i>	<i>S-032905-DD-785</i>	<i>S-033005-KMV-1138</i>	<i>S-033005-KMV-1139</i>	<i>S-033005-KMV-1140</i>	<i>S-042005-KMV-1179</i>	
<i>Sample Date:</i>	<i>1/11/2002</i>	<i>3/29/2005</i>	<i>3/30/2005</i>	<i>3/30/2005</i>	<i>3/30/2005</i>	<i>4/20/2005</i>	
<i>Sample Depth:</i>	<i>(16-18) ft</i>	<i>(4-6) ft</i>	<i>(0-2) ft</i>	<i>(4-6) ft</i>	<i>(10-11.5) ft</i>	<i>(0-2) ft</i>	
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/kg	ND (50) U	ND (44) UJ	ND (43) U	ND (42) UJ	ND (46) U	ND (41) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (50) U	ND (44) UJ	ND (43) U	ND (42) UJ	ND (46) U	ND (41) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (50) U	ND (44) UJ	ND (43) U	ND (42) UJ	ND (46) U	ND (41) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (50) U	ND (44) UJ	ND (43) U	ND (42) UJ	ND (46) U	ND (41) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (50) U	150 J	100	ND (42) UJ	ND (46) U	37 J
Aroclor-1254 (PCB-1254)	ug/kg	ND (50) U	ND (44) UJ	ND (43) U	ND (42) UJ	ND (46) U	ND (41) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (50) U	ND (44) UJ	17 J	ND (42) UJ	ND (46) U	ND (41) U
Total PCBs	ug/kg	0	150	117	0	0	37

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>
<b>Sample Location:</b>	<b>CH-3</b>	<b>CH-5</b>	<b>CH-5</b>	<b>CH-5</b>	<b>CH-5</b>	<b>CH-5</b>
<b>Sample ID:</b>	<b>S-042005-KMV-1180</b>	<b>S-040705-JL-1134</b>	<b>S-040705-JL-1135</b>	<b>S-040705-JL-1136</b>	<b>S-040705-JL-1137</b>	<b>S-040705-JL-1138</b>
<b>Sample Date:</b>	<b>4/20/2005</b>	<b>4/7/2005</b>	<b>4/7/2005</b>	<b>4/7/2005</b>	<b>4/7/2005</b>	<b>4/7/2005</b>
<b>Sample Depth:</b>	<b>(3.5-3.5) ft</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>	<b>(10-12) ft</b>	<b>(15-17) ft</b>	<b>(17-18.5) ft</b>
<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/kg	ND (45) U	ND (45) U	ND (860) U	ND (4100) U	ND (21000) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (45) U	ND (45) U	ND (860) U	ND (4100) U	ND (21000) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (45) U	ND (45) U	ND (860) U	ND (4100) U	ND (21000) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (45) U	ND (45) U	ND (860) U	26000	87000
Aroclor-1248 (PCB-1248)	ug/kg	ND (45) U	74	4200	ND (4100) U	ND (21000) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (45) U	ND (45) U	ND (860) U	ND (4100) U	ND (21000) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (45) U	ND (45) U	ND (860) U	ND (4100) U	ND (21000) U
Total PCBs	ug/kg	0	74	4200	26000	10000

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	
<b>Sample Location:</b>	<b>CH-6</b>	<b>CH-6</b>	<b>CH-6</b>	<b>CH-6</b>	<b>CH-7</b>	<b>CH-7</b>	
<b>Sample ID:</b>	<b>S-040405-DD-786</b>	<b>S-040405-DD-787</b>	<b>S-040405-DD-788</b>	<b>S-040505-DD-791</b>	<b>S-040605-DD-792</b>	<b>S-040605-DD-793</b>	
<b>Sample Date:</b>	<b>4/4/2005</b>	<b>4/4/2005</b>	<b>4/4/2005</b>	<b>4/5/2005</b>	<b>4/6/2005</b>	<b>4/6/2005</b>	
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>	<b>(10-12) ft</b>	<b>(14.5-16.5) ft</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>	
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/kg	ND (830) U	ND (880) U	ND (43) U	ND (2100) U	ND (210) U	ND (43) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (830) U	ND (880) U	ND (43) U	ND (2100) U	ND (210) U	ND (43) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (830) U	ND (880) U	ND (43) U	ND (2100) U	ND (210) U	ND (43) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (830) U	3700	66	8200	ND (210) U	140
Aroclor-1248 (PCB-1248)	ug/kg	5100	ND (880) U	ND (43) U	ND (2100) U	620	ND (43) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (830) U	ND (880) U	ND (43) U	ND (2100) U	ND (210) U	ND (43) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (830) U	ND (880) U	ND (43) U	ND (2100) U	ND (210) U	ND (43) U
<b>Total PCBs</b>	ug/kg	<b>5100</b>	<b>3700</b>	<b>66</b>	<b>8200</b>	<b>620</b>	<b>140</b>

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>
<b>Sample Location:</b>	<b>CH-7</b>	<b>CH-7</b>	<b>CH-7</b>	<b>CH-8</b>	<b>CH-8</b>	<b>CH-8</b>
<b>Sample ID:</b>	<b>S-040605-DD-794</b>	<b>S-040605-DD-795</b>	<b>S-040605-DD-796</b>	<b>S-040705-JL-1130</b>	<b>S-040705-JL-1131</b>	<b>S-040705-JL-1132</b>
<b>Sample Date:</b>	<b>4/6/2005</b>	<b>4/6/2005</b>	<b>4/6/2005</b>	<b>4/7/2005</b>	<b>4/7/2005</b>	<b>4/7/2005</b>
<b>Sample Depth:</b>	<b>(10-12) ft</b>	<b>(10-12) ft</b>	<b>(15-17) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(5-6) ft</b>
		<b>Duplicate</b>			<b>Duplicate</b>	
<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/kg	ND (45) U	ND (42) U	ND (85) U	ND (410) U	ND (8400) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (45) U	ND (42) U	ND (85) U	ND (410) U	ND (8400) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (45) U	ND (42) U	ND (85) U	ND (410) U	ND (8400) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (45) U	ND (42) U	340 J	ND (410) U	49000
Aroclor-1248 (PCB-1248)	ug/kg	ND (45) U	ND (42) U	ND (85) U	2500	ND (8400) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (45) U	ND (42) U	ND (85) U	ND (410) U	ND (8400) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (45) U	ND (42) U	ND (85) U	ND (410) U	ND (8400) U
Total PCBs	ug/kg	0	0	340	2500	49000
						370

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	
<b>Sample Location:</b>	<b>CH-8</b>	<b>CH-9</b>	<b>CH-9</b>	<b>CH-9</b>	<b>CH-10</b>	<b>CH-10</b>	
<b>Sample ID:</b>	<b>S-040705-JL-1133</b>	<b>S-040705-JL-1139</b>	<b>S-040705-JL-1140</b>	<b>S-040705-JL-1141</b>	<b>S-041905-KMV-1159</b>	<b>S-041905-KMV-1160</b>	
<b>Sample Date:</b>	<b>4/7/2005</b>	<b>4/7/2005</b>	<b>4/7/2005</b>	<b>4/7/2005</b>	<b>4/19/2005</b>	<b>4/19/2005</b>	
<b>Sample Depth:</b>	<b>(6-7) ft</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>	<b>(9-10) ft</b>	<b>(4-6) ft</b>	<b>(9.5-9.5) ft</b>	
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/kg	ND (42) U	ND (86) U	ND (41) U	ND (38) U	ND (47) U	ND (38) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (42) U	ND (86) U	ND (41) U	ND (38) U	ND (47) U	ND (38) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (42) U	ND (86) U	ND (41) U	ND (38) U	ND (47) U	ND (38) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (42) U	ND (86) U	38 J	20 J	ND (47) U	12 J
Aroclor-1248 (PCB-1248)	ug/kg	63	240	ND (41) U	ND (38) U	ND (47) U	ND (38) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (42) U	ND (86) U	ND (41) U	ND (38) U	ND (47) U	ND (38) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (42) U	ND (86) U	ND (41) U	ND (38) U	ND (47) U	ND (38) U
Total PCBs	ug/kg	63	240	38	20	0	12

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>A007 East Plant Area</i>	<i>A007 East Plant Area</i>	<i>A007 East Plant Area</i>	<i>A007 East Plant Area</i>	<i>A007 East Plant Area</i>	<i>A007 East Plant Area</i>	
<i>Sample Location:</i>	<i>CH-11</i>	<i>CH-12</i>	<i>CH-13</i>	<i>CH-14</i>	<i>CH-14</i>	<i>CH-15</i>	
<i>Sample ID:</i>	<i>S-041105-JL-1142</i>	<i>S-040805-KMV-1150</i>	<i>S-032905-KMV-1137</i>	<i>S-033105-KMV-1141</i>	<i>S-033105-KMV-1142</i>	<i>S-040505-DD-789</i>	
<i>Sample Date:</i>	<i>4/11/2005</i>	<i>4/8/2005</i>	<i>3/29/2005</i>	<i>3/31/2005</i>	<i>3/31/2005</i>	<i>4/5/2005</i>	
<i>Sample Depth:</i>	<i>(0-2) ft</i>	<i>(0-2) ft</i>	<i>(0-2) ft</i>	<i>(0-2) ft</i>	<i>(2-4) ft</i>	<i>(0-2) ft</i>	
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/kg	ND (47) U	ND (43) U	ND (45) U	ND (43) U	ND (43) U	ND (42) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (47) U	ND (43) U	ND (45) U	ND (43) U	ND (43) U	ND (42) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (47) U	ND (43) U	ND (45) U	ND (43) U	ND (43) U	ND (42) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (47) U	ND (43) U	ND (45) U	ND (43) U	ND (43) U	18 J
Aroclor-1248 (PCB-1248)	ug/kg	31 J	ND (43) U	33 J	ND (43) U	32 J	ND (42) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (47) U	ND (43) U	ND (45) U	ND (43) U	ND (43) U	ND (42) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (47) U	ND (43) U	ND (45) U	ND (43) U	ND (43) U	ND (42) U
Total PCBs	ug/kg	31	0	33	0	32	18

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>
<b>Sample Location:</b>	<b>CH-15</b>	<b>CH-16</b>	<b>CH-16</b>	<b>CH-16</b>	<b>CH-16</b>	<b>CH-17</b>
<b>Sample ID:</b>	<b>S-040505-DD-790</b>	<b>S-040605-KMV-1143</b>	<b>S-040605-KMV-1144</b>	<b>S-040605-KMV-1145</b>	<b>S-040605-KMV-1146</b>	<b>S-040705-KMV-1147</b>
<b>Sample Date:</b>	<b>4/5/2005</b>	<b>4/6/2005</b>	<b>4/6/2005</b>	<b>4/6/2005</b>	<b>4/6/2005</b>	<b>4/7/2005</b>
<b>Sample Depth:</b>	<b>(2.5-4.5) ft</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>	<b>(10-12) ft</b>	<b>(13-14) ft</b>	<b>(0-2) ft</b>
<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/kg	ND (91) U	ND (210) U	ND (420) U	ND (900) U	ND (4400) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (91) U	ND (210) U	ND (420) U	ND (900) U	ND (4400) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (91) U	ND (210) U	ND (420) U	ND (900) U	ND (4400) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (91) U	1000	2400	6000	26000
Aroclor-1248 (PCB-1248)	ug/kg	680	ND (210) U	ND (420) U	ND (900) U	ND (4400) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (91) U	ND (210) U	ND (420) U	ND (900) U	ND (4400) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (91) U	ND (210) U	ND (420) U	ND (900) U	ND (4400) U
Total PCBs	ug/kg	680	1000	2400	6000	26000
						39

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>
<b>Sample Location:</b>	<b>CH-17</b>	<b>CH-17</b>	<b>CH-18</b>	<b>CH-18</b>	<b>CH-18</b>	<b>CH-18</b>
<b>Sample ID:</b>	<b>S-040705-KMV-1148</b>	<b>S-040705-KMV-1149</b>	<b>S-041405-KMV-1138</b>	<b>S-041405-KMV-1139</b>	<b>S-041405-KMV-1140</b>	<b>S-041405-KMV-1141</b>
<b>Sample Date:</b>	<b>4/7/2005</b>	<b>4/7/2005</b>	<b>4/14/2005</b>	<b>4/14/2005</b>	<b>4/14/2005</b>	<b>4/14/2005</b>
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>	<b>(10-12) ft</b>	<b>(15-17) ft</b>
	<b>Duplicate</b>					
<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/kg	ND (41) U	ND (45) U	ND (41) U	ND (42) U	ND (44) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (41) U	ND (45) U	ND (41) U	ND (42) U	ND (44) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (41) U	ND (45) U	ND (41) U	ND (42) U	ND (44) U
Aroclor-1242 (PCB-1242)	ug/kg	44	ND (45) U	ND (41) U	ND (42) U	270
Aroclor-1248 (PCB-1248)	ug/kg	ND (41) U	15 J	ND (41) U	ND (42) U	ND (44) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (41) U	ND (45) UJ	ND (41) U	ND (42) U	ND (44) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (41) U	ND (45) UJ	ND (41) U	ND (42) U	ND (44) U
Total PCBs	ug/kg	44	15	0	0	59



**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>
<b>Sample Location:</b>	<b>CH-19</b>	<b>CH-19</b>	<b>CH-20</b>	<b>CH-20</b>	<b>CH-20</b>	<b>CH-20</b>
<b>Sample ID:</b>	<b>S-041805-KMV-1157</b>	<b>S-041805-KMV-1158</b>	<b>S-041905-KMV-1161</b>	<b>S-041905-KMV-1162</b>	<b>S-041905-KMV-1163</b>	<b>S-041905-KMV-1164</b>
<b>Sample Date:</b>	<b>4/18/2005</b>	<b>4/18/2005</b>	<b>4/19/2005</b>	<b>4/19/2005</b>	<b>4/19/2005</b>	<b>4/19/2005</b>
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>	<b>(10-12) ft</b>	<b>(13.5-13.5) ft</b>
<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/kg	ND (41) U	ND (42) U	ND (40) U	ND (45) U	ND (46) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (41) U	ND (42) U	ND (40) U	ND (45) U	ND (46) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (41) U	ND (42) U	ND (40) U	ND (45) U	ND (46) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (41) U	ND (42) U	ND (40) U	26 J	ND (46) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (41) U	ND (42) U	ND (40) U	ND (45) U	ND (46) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (41) U	ND (42) U	ND (40) U	ND (45) U	ND (46) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (41) U	ND (42) U	ND (40) U	ND (45) U	ND (46) U
Total PCBs	ug/kg	0	0	0	26	0

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	
<b>Sample Location:</b>	<b>CH-20</b>	<b>CH-21</b>	<b>CH-21</b>	<b>CH-21</b>	<b>CH-22</b>	<b>CH-22</b>	
<b>Sample ID:</b>	<b>S-041905-KMV-1165</b>	<b>S-042005-JL-1170</b>	<b>S-042005-JL-1171</b>	<b>S-042005-JL-1172</b>	<b>S-042005-KMV-1181</b>	<b>S-042005-KMV-1182</b>	
<b>Sample Date:</b>	<b>4/19/2005</b>	<b>4/20/2005</b>	<b>4/20/2005</b>	<b>4/20/2005</b>	<b>4/20/2005</b>	<b>4/20/2005</b>	
<b>Sample Depth:</b>	<b>(10-12) ft</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>	<b>(10-11.5) ft</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>	
	<b>Duplicate</b>						
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/kg	ND (45) U	ND (42) U	ND (41) U	ND (44) U	ND (41) U	ND (43) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (45) U	ND (42) U	ND (41) U	ND (44) U	ND (41) U	ND (43) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (45) U	ND (42) U	ND (41) U	ND (44) U	ND (41) U	ND (43) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (45) U	ND (42) U	ND (41) U	ND (44) U	ND (41) U	ND (43) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (45) U	340	ND (41) U	ND (44) U	ND (41) U	50
Aroclor-1254 (PCB-1254)	ug/kg	ND (45) U	ND (42) U	ND (41) U	ND (44) U	ND (41) U	ND (43) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (45) U	ND (42) U	ND (41) U	ND (44) U	ND (41) U	ND (43) U
Total PCBs	ug/kg	0	340	0	0	0	50

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>
<b>Sample Location:</b>	<b>CH-22</b>	<b>CH-23</b>	<b>CH-24</b>	<b>CH-24</b>	<b>CH-24</b>	<b>CH-24</b>
<b>Sample ID:</b>	<b>S-042005-KMV-1183</b>	<b>S-042105-JL-1173</b>	<b>S-042105-JL-1174</b>	<b>S-042105-JL-1175</b>	<b>S-042105-JL-1176</b>	<b>S-042105-JL-1177</b>
<b>Sample Date:</b>	<b>4/20/2005</b>	<b>4/21/2005</b>	<b>4/21/2005</b>	<b>4/21/2005</b>	<b>4/21/2005</b>	<b>4/21/2005</b>
<b>Sample Depth:</b>	<b>(9-9) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>	<b>(5-7) ft</b>	<b>(9-9.5) ft</b>
					<b>Duplicate</b>	
<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/kg	ND (43) U	ND (42) U	ND (41) U	ND (44) U	ND (44) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (43) U	ND (42) U	ND (41) U	ND (44) U	ND (44) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (43) U	ND (42) U	ND (41) U	ND (44) U	ND (44) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (43) U	ND (42) U	ND (41) U	ND (44) U	ND (44) U
Aroclor-1248 (PCB-1248)	ug/kg	12 J	ND (42) U	400	41 J	ND (44) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (43) U	ND (42) U	ND (41) U	ND (44) U	ND (44) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (43) U	ND (42) U	130	ND (44) U	ND (44) U
Total PCBs	ug/kg	12	0	530	41	0
						7

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>
<b>Sample Location:</b>	<b>CH-25</b>	<b>CH-25</b>	<b>CH-25</b>	<b>CH-25</b>	<b>CH-26</b>	<b>CH-26</b>
<b>Sample ID:</b>	<b>S-042105-JL-1178</b>	<b>S-042105-JL-1179</b>	<b>S-042105-JL-1180</b>	<b>S-042105-JL-1181</b>	<b>S-042105-JL-1182</b>	<b>S-042105-JL-1183</b>
<b>Sample Date:</b>	<b>4/21/2005</b>	<b>4/21/2005</b>	<b>4/21/2005</b>	<b>4/21/2005</b>	<b>4/21/2005</b>	<b>4/21/2005</b>
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>	<b>(10-12) ft</b>	<b>(14-16) ft</b>	<b>(0-2) ft</b>	<b>(4-5) ft</b>
<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/kg	ND (43) UJ	ND (42) U	ND (40) U	ND (43) U	ND (41) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (43) UJ	ND (42) U	ND (40) U	ND (43) U	ND (41) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (43) UJ	ND (42) U	ND (40) U	ND (43) U	ND (41) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (43) UJ	ND (42) U	ND (40) U	ND (43) U	ND (41) U
Aroclor-1248 (PCB-1248)	ug/kg	13 J	ND (42) U	ND (40) U	ND (43) U	84
Aroclor-1254 (PCB-1254)	ug/kg	ND (43) UJ	ND (42) U	ND (40) U	ND (43) U	ND (41) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (43) UJ	ND (42) U	ND (40) U	ND (43) U	30 J
Total PCBs	ug/kg	13	0	0	0	114

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	
<b>Sample Location:</b>	<b>CH-27</b>	<b>CH-28</b>	<b>CH-29</b>	<b>CH-30</b>	<b>CH-31</b>	<b>CH-31</b>	
<b>Sample ID:</b>	<b>S-042205-JL-1184</b>	<b>S-042205-JL-1185</b>	<b>S-042505-JL-1186</b>	<b>S-042505-JL-1187</b>	<b>S-042505-JL-1188</b>	<b>S-042505-JL-1189</b>	
<b>Sample Date:</b>	<b>4/22/2005</b>	<b>4/22/2005</b>	<b>4/25/2005</b>	<b>4/25/2005</b>	<b>4/25/2005</b>	<b>4/25/2005</b>	
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(0-1) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>	
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/kg	ND (43) U	ND (44) U	ND (8700) U	ND (4000) U	ND (40) U	ND (1900) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (43) U	ND (44) U	ND (8700) U	ND (4000) U	ND (40) U	ND (1900) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (43) U	ND (44) U	ND (8700) U	ND (4000) U	ND (40) U	ND (1900) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (43) U	ND (44) U	100000	ND (4000) U	ND (40) U	ND (1900) U
Aroclor-1248 (PCB-1248)	ug/kg	47	10 J	ND (8700) U	19000	9.6 J	8800
Aroclor-1254 (PCB-1254)	ug/kg	ND (43) U	ND (44) U	ND (8700) U	ND (4000) U	ND (40) U	ND (1900) U
Aroclor-1260 (PCB-1260)	ug/kg	13 J	ND (44) U	19000	ND (4000) U	ND (40) U	ND (1900) U
Total PCBs	ug/kg	60	10	119000	19000	9.6	8800

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	
<b>Sample Location:</b>	<b>CH-32</b>	<b>CH-32</b>	<b>CH-33</b>	<b>CH-34</b>	<b>CH-34</b>	<b>CH-34</b>	
<b>Sample ID:</b>	<b>S-042505-JL-1190</b>	<b>S-042505-JL-1191</b>	<b>S-042505-JL-1192</b>	<b>S-040505-JL-1110</b>	<b>S-040505-JL-1111</b>	<b>S-040505-JL-1112</b>	
<b>Sample Date:</b>	<b>4/25/2005</b>	<b>4/25/2005</b>	<b>4/25/2005</b>	<b>4/5/2005</b>	<b>4/5/2005</b>	<b>4/5/2005</b>	
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(5-5.5) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>	<b>(10-12) ft</b>	
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/kg	ND (210000) U	ND (43) U	ND (210) U	ND (44) U	ND (430) U	ND (450) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (210000) U	ND (43) U	ND (210) U	ND (44) U	ND (430) U	ND (450) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (210000) U	ND (43) U	ND (210) U	ND (44) U	ND (430) U	ND (450) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (210000) U	ND (43) U	ND (210) U	69	1600	1400
Aroclor-1248 (PCB-1248)	ug/kg	840000	190	1400	ND (44) U	ND (430) U	ND (450) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (210000) U	ND (43) U	ND (210) U	ND (44) U	ND (430) U	ND (450) U
Aroclor-1260 (PCB-1260)	ug/kg	140000 J	33 J	ND (210) U	ND (44) U	ND (430) U	ND (450) U
Total PCBs	ug/kg	980000	223	1400	69	1600	1400

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>
<b>Sample Location:</b>	<b>CH-34</b>	<b>CH-35</b>	<b>CH-35</b>	<b>CH-35</b>	<b>CH-36</b>	<b>CH-36</b>
<b>Sample ID:</b>	<b>S-040505-JL-1113</b>	<b>S-040405-JL-1107</b>	<b>S-040405-JL-1108</b>	<b>S-040405-JL-1109</b>	<b>S-040405-JL-1099</b>	<b>S-040405-JL-1100</b>
<b>Sample Date:</b>	<b>4/5/2005</b>	<b>4/4/2005</b>	<b>4/4/2005</b>	<b>4/4/2005</b>	<b>4/4/2005</b>	<b>4/4/2005</b>
<b>Sample Depth:</b>	<b>(14-15) ft</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>	<b>(7-7) ft</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>
<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/kg	ND (40) U	ND (46) U	ND (43) U	ND (42) U	ND (43) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (40) U	ND (46) U	ND (43) U	ND (42) U	ND (43) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (40) U	ND (46) U	ND (43) U	ND (42) U	ND (43) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (40) U	ND (46) U	ND (43) U	ND (42) U	ND (43) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (40) U	26 J	ND (43) U	ND (42) U	ND (43) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (40) U	ND (46) U	ND (43) U	ND (42) U	ND (43) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (40) U	ND (46) U	ND (43) U	ND (42) U	ND (43) U
Total PCBs	ug/kg	0	26	0	0	0

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>
<b>Sample Location:</b>	<b>CH-36</b>	<b>CH-36</b>	<b>CH-36</b>	<b>CH-36</b>	<b>CH-36</b>	<b>CH-36</b>
<b>Sample ID:</b>	<b>S-040405-JL-1101</b>	<b>S-040405-JL-1102</b>	<b>S-040405-JL-1103</b>	<b>S-040405-JL-1104</b>	<b>S-040405-JL-1105</b>	<b>S-040405-JL-1106</b>
<b>Sample Date:</b>	<b>4/4/2005</b>	<b>4/4/2005</b>	<b>4/4/2005</b>	<b>4/4/2005</b>	<b>4/4/2005</b>	<b>4/4/2005</b>
<b>Sample Depth:</b>	<b>(10-12) ft</b>	<b>(15-17) ft</b>	<b>(15-17) ft</b>	<b>(20-22) ft</b>	<b>(25-27) ft</b>	<b>(27-28) ft</b>
			<b>Duplicate</b>			
<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/kg	ND (42) U	ND (42) U	ND (43) U	ND (43) U	ND (460) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (42) U	ND (42) U	ND (43) U	ND (43) U	ND (460) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (42) U	ND (42) U	ND (43) U	ND (43) U	ND (460) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (42) U	ND (42) U	ND (43) U	ND (43) U	ND (460) U
Aroclor-1248 (PCB-1248)	ug/kg	40 J	ND (42) U	ND (43) U	ND (43) U	2500
Aroclor-1254 (PCB-1254)	ug/kg	ND (42) U	ND (42) U	ND (43) U	ND (43) U	ND (460) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (42) U	ND (42) U	ND (43) U	ND (43) U	ND (460) U
<b>Total PCBs</b>	ug/kg	<b>40</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2500</b>



**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>
<b>Sample Location:</b>	<b>CH-37</b>	<b>CH-37</b>	<b>CH-37</b>	<b>CH-37</b>	<b>CH-37</b>	<b>CH-37</b>
<b>Sample ID:</b>	<b>S-040405-JL-1093</b>	<b>S-040405-JL-1094</b>	<b>S-040405-JL-1095</b>	<b>S-040405-JL-1096</b>	<b>S-040405-JL-1097</b>	<b>S-040405-JL-1098</b>
<b>Sample Date:</b>	<b>4/4/2005</b>	<b>4/4/2005</b>	<b>4/4/2005</b>	<b>4/4/2005</b>	<b>4/4/2005</b>	<b>4/4/2005</b>
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>	<b>(10-12) ft</b>	<b>(15-17) ft</b>	<b>(20-22) ft</b>	<b>(22-23) ft</b>
<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/kg	ND (41) U	ND (42) U	ND (43) U	ND (44) U	ND (43) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (41) U	ND (42) U	ND (43) U	ND (44) U	ND (43) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (41) U	ND (42) U	ND (43) U	ND (44) U	ND (43) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (41) U	ND (42) U	ND (43) U	ND (44) U	ND (43) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (41) U	ND (42) U	ND (43) U	ND (44) U	ND (43) U
Aroclor-1254 (PCB-1254)	ug/kg	6.0 J	ND (42) U	ND (43) U	ND (44) U	ND (43) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (41) U	ND (42) U	ND (43) U	ND (44) U	ND (43) U
Total PCBs	ug/kg	6	0	0	0	0
						20

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>
<b>Sample Location:</b>	<b>CH-38</b>	<b>CH-38</b>	<b>CH-38</b>	<b>CH-38</b>	<b>CH-39</b>	<b>CH-39</b>
<b>Sample ID:</b>	<b>S-040505-JL-1114</b>	<b>S-040505-JL-1115</b>	<b>S-040505-JL-1116</b>	<b>S-040505-JL-1117</b>	<b>S-040605-JL-1118</b>	<b>S-040605-JL-1119</b>
<b>Sample Date:</b>	<b>4/5/2005</b>	<b>4/5/2005</b>	<b>4/5/2005</b>	<b>4/5/2005</b>	<b>4/6/2005</b>	<b>4/6/2005</b>
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>	<b>(10-12) ft</b>	<b>(14-15) ft</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>
<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/kg	ND (43) U	ND (43) U	ND (43) U	ND (40) U	ND (81) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (43) U	ND (43) U	ND (43) U	ND (40) U	ND (81) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (43) U	ND (43) U	ND (43) U	ND (40) U	ND (81) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (43) U	ND (43) U	ND (43) U	ND (40) U	ND (81) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (43) U	ND (43) U	ND (43) U	ND (40) U	ND (81) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (43) U	ND (43) U	ND (43) U	ND (40) U	300
Aroclor-1260 (PCB-1260)	ug/kg	ND (43) U	ND (43) U	ND (43) U	ND (40) U	ND (81) U
Total PCBs	ug/kg	0	0	0	0	300
						27

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>
<b>Sample Location:</b>	<b>CH-39</b>	<b>CH-39</b>
<b>Sample ID:</b>	<b>S-040605-JL-1120</b>	<b>S-040605-JL-1121</b>
<b>Sample Date:</b>	<b>4/6/2005</b>	<b>4/6/2005</b>
<b>Sample Depth:</b>	<b>(10-12) ft</b>	<b>(15-17) ft</b>

<b>Parameters</b>	<b>Units</b>		
<b>PCBs</b>			
Aroclor-1016 (PCB-1016)	ug/kg	ND (18000) U	ND (6900) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (18000) U	ND (6900) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (18000) U	ND (6900) U
Aroclor-1242 (PCB-1242)	ug/kg	130000	48000
Aroclor-1248 (PCB-1248)	ug/kg	ND (18000) U	ND (6900) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (18000) U	ND (6900) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (18000) U	4700 J
Total PCBs	ug/kg	130000	52700

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>
<b>Sample Location:</b>	<b>CH-39</b>	<b>CH-39</b>	<b>CH-39</b>	<b>CH-40</b>	<b>CH-40</b>	<b>CH-40</b>
<b>Sample ID:</b>	<b>S-040605-JL-1122</b>	<b>S-040605-JL-1123</b>	<b>S-040605-JL-1124</b>	<b>S-040605-JL-1127</b>	<b>S-040605-JL-1128</b>	<b>S-040605-JL-1129</b>
<b>Sample Date:</b>	<b>4/6/2005</b>	<b>4/6/2005</b>	<b>4/6/2005</b>	<b>4/6/2005</b>	<b>4/6/2005</b>	<b>4/6/2005</b>
<b>Sample Depth:</b>	<b>(20-22) ft</b>	<b>(25-27) ft</b>	<b>(27-28) ft</b>	<b>(0-2) ft</b>	<b>(5-7) ft</b>	<b>(7-8) ft</b>
<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/kg	ND (1700) U	ND (1700) U	ND (3600) U	ND (39) U	ND (42000) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (1700) U	ND (1700) U	ND (3600) U	ND (39) U	ND (42000) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (1700) U	ND (1700) U	ND (3600) U	ND (39) U	ND (42000) U
Aroclor-1242 (PCB-1242)	ug/kg	18000	13000	29000	ND (39) U	180000
Aroclor-1248 (PCB-1248)	ug/kg	ND (1700) U	ND (1700) U	ND (3600) U	8.3 J	ND (42000) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (1700) U	ND (1700) U	ND (3600) U	ND (39) U	ND (42000) U
Aroclor-1260 (PCB-1260)	ug/kg	2900	1100 J	3200 J	ND (39) U	19000 J
Total PCBs	ug/kg	20900	14100	32200	8.3	199000
						130000

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A007 East Plant Area</b>	<b>A007 East Plant Area</b>	<b>A015 Monitoring Well</b>	<b>A015 Monitoring Well</b>	<b>A015 Monitoring Well</b>	<b>ANAO14 GMPT_west</b>	
<b>Sample Location:</b>	<b>CH-41</b>	<b>CH-41</b>	<b>MW-X143Y245D</b>	<b>MW-X143Y245D</b>	<b>MW-X143Y245D</b>	<b>MW-X204Y288</b>	
<b>Sample ID:</b>	<b>S-040605-JL-1125</b>	<b>S-040605-JL-1126</b>	<b>S-010702-KMV-501</b>	<b>S-010702-KMV-502</b>	<b>S-010702-KMV-503</b>	<b>S-052404-KMV-585</b>	
<b>Sample Date:</b>	<b>4/6/2005</b>	<b>4/6/2005</b>	<b>1/7/2002</b>	<b>1/7/2002</b>	<b>1/7/2002</b>	<b>5/24/2004</b>	
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(2-3) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(0-2) ft</b>	
				<b>Duplicate</b>			
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/kg	ND (87) U	ND (200) U	ND (3900) U	ND (3700) U	ND (46) U	ND (43) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (87) U	ND (200) U	ND (3900) U	ND (3700) U	ND (46) U	ND (43) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (87) U	ND (200) U	ND (3900) U	ND (3700) U	ND (46) U	ND (43) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (87) U	ND (200) U	ND (3900) U	ND (3700) U	ND (46) U	ND (43) U
Aroclor-1248 (PCB-1248)	ug/kg	270	840	30000	36000	87	ND (43) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (87) U	ND (200) U	ND (3900) U	ND (3700) U	ND (46) U	ND (43) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (87) U	ND (200) U	ND (3900) U	ND (3700) U	ND (46) U	ND (43) U
Total PCBs	ug/kg	270	840	30000	36000	87	0

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A008</b>	<b>A008</b>	<b>A008</b>	<b>A008 P200</b>	<b>A008 P200</b>	<b>A008 P200</b>	<b>A008 P200</b>	
<b>Sample Location:</b>	<b>MW-X233Y071A</b>	<b>MW-X233Y071A</b>	<b>MW-X233Y071A</b>	<b>MW-X233Y105A</b>	<b>MW-X233Y110A</b>	<b>MW-X233Y115A</b>	<b>MW-X233Y115A</b>	
<b>Sample ID:</b>	<b>S-051904-DD-019</b>	<b>S-051904-DD-020</b>	<b>S-051904-DD-021</b>	<b>S-041503-KMV-569</b>	<b>S-041503-KMV-570</b>	<b>S-041603-KMV-571</b>	<b>S-041603-KMV-572</b>	
<b>Sample Date:</b>	<b>5/19/2004</b>	<b>5/19/2004</b>	<b>5/19/2004</b>	<b>4/15/2003</b>	<b>4/15/2003</b>	<b>4/16/2003</b>	<b>4/16/2003</b>	
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(14-16) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(6-7) ft</b>	
<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	ug/kg	ND (42) U	ND (42) U	ND (400) U	ND (210) U	ND (45) U	ND (200) U	ND (42) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (42) U	ND (42) U	ND (400) U	ND (210) U	ND (45) U	ND (200) U	ND (42) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (42) U	ND (42) U	ND (400) U	ND (210) U	ND (45) U	ND (200) U	ND (42) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (42) U	ND (42) U	1200	ND (210) U	ND (45) U	ND (200) U	ND (42) U
Aroclor-1248 (PCB-1248)	ug/kg	11 J	22 J	ND (400) U	2400	51	1200	ND (42) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (42) U	ND (42) U	ND (400) U	ND (210) U	ND (45) U	ND (200) U	ND (42) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (42) U	ND (42) U	ND (400) U	ND (210) U	ND (45) U	ND (200) U	ND (42) U
Total PCBs	ug/kg	11	22	1200	2400	51	1200	0

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>A008 P200</b>	<b>A008 P200</b>	<b>A008 P200</b>	<b>A008 P200</b>	<b>A008 P200</b>	<b>A008 P200</b>	<b>A008 P200</b>
<b>Sample Location:</b>	<b>MW-X233Y120A</b>	<b>MW-X233Y120A</b>	<b>MW-X233Y120A</b>	<b>MW-X233Y120A</b>	<b>MW-X233Y125A</b>	<b>MW-X233Y125A</b>	<b>MW-X233Y125A</b>
<b>Sample ID:</b>	<b>S-042203-JM-1000</b>	<b>S-042203-JM-1001</b>	<b>S-042203-JM-1002</b>	<b>S-042203-JM-1003</b>	<b>S-042203-JM-1004</b>	<b>S-042203-JM-1005</b>	<b>S-042203-JM-1006</b>
<b>Sample Date:</b>	<b>4/22/2003</b>	<b>4/22/2003</b>	<b>4/22/2003</b>	<b>4/22/2003</b>	<b>4/22/2003</b>	<b>4/22/2003</b>	<b>4/22/2003</b>
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(8-10) ft</b>	<b>(0-2) ft</b>	<b>(6-8) ft</b>	<b>(12-14) ft</b>
		<b>Duplicate</b>					
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/kg	ND (41) U	ND (42) U	ND (43) U	ND (37) U	ND (83) U	ND (40) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (41) U	ND (42) U	ND (43) U	ND (37) U	ND (83) U	ND (40) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (41) U	ND (42) U	ND (43) U	ND (37) U	ND (83) U	ND (40) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (41) U	ND (42) U	ND (43) U	ND (37) U	ND (83) U	ND (40) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (41) U	ND (42) U	ND (43) U	ND (37) U	540	37 J
Aroclor-1254 (PCB-1254)	ug/kg	ND (41) U	ND (42) U	ND (43) U	ND (37) U	ND (83) U	ND (40) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (41) U	ND (42) U	ND (43) U	ND (37) U	ND (83) U	ND (40) U
Total PCBs	ug/kg	0	0	0	0	540	37

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>Monitoring Well Plant_Property RFI_Boundary</i>		<i>Monitoring Well Plant_Property RFI_Boundary</i>		<i>Monitoring Well Plant_Property RFI_Boundary</i>	
<i>Sample Location:</i>	<i>MW-X234Y157D</i>		<i>MW-X234Y157D</i>		<i>MW-X234Y157D</i>	
<i>Sample ID:</i>	<i>S-012502-KMV-514</i>		<i>S-012502-KMV-515</i>		<i>S-012502-KMV-516</i>	
<i>Sample Date:</i>	<i>1/25/2002</i>		<i>1/25/2002</i>		<i>1/25/2002</i>	
<i>Sample Depth:</i>	<i>(0-2) ft</i>		<i>(0-2) ft</i>		<i>(4-6) ft</i>	
<i>Parameters</i>	<i>Units</i>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/kg	ND (4100) U	ND (4200) U	ND (44) U		
Aroclor-1221 (PCB-1221)	ug/kg	ND (4100) U	ND (4200) U	ND (44) U		
Aroclor-1232 (PCB-1232)	ug/kg	ND (4100) U	ND (4200) U	ND (44) U		
Aroclor-1242 (PCB-1242)	ug/kg	ND (4100) U	ND (4200) U	ND (44) U		
Aroclor-1248 (PCB-1248)	ug/kg	14000	12000	30 J		
Aroclor-1254 (PCB-1254)	ug/kg	ND (4100) U	ND (4200) U	ND (44) U		
Aroclor-1260 (PCB-1260)	ug/kg	1100 J	ND (4200) U	ND (44) U		
Total PCBs	ug/kg	15100	12000	30		



**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>P200 Former South Lagoons and Outfall 002 - A008</i>	<i>P200 Former South Lagoons and Outfall 002 - A008</i>	<i>Background RFI Boundary P216_west</i>
<i>Sample Location:</i>	<i>MW-X242Y060S</i>	<i>MW-X242Y060S</i>	<i>MW-X261Y356D</i>
<i>Sample ID:</i>	<i>S-051904-DD-022</i>	<i>S-051904-DD-023</i>	<i>S-012102-KMV-509</i>
<i>Sample Date:</i>	<i>5/19/2004</i>	<i>5/19/2004</i>	<i>1/21/2002</i>
<i>Sample Depth:</i>	<i>(0-2) ft</i>	<i>(6-8) ft</i>	<i>(0-2) ft</i>
<b>Parameters</b>	<b>Units</b>		
<b>PCBs</b>			
Aroclor-1016 (PCB-1016)	ug/kg	ND (43) U	ND (42) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (43) U	ND (42) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (43) U	ND (42) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (43) U	ND (42) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (43) U	ND (42) U
Aroclor-1254 (PCB-1254)	ug/kg	16 J	ND (42) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (43) U	ND (42) U
Total PCBs	ug/kg	16	0

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>Background RFI Boundary P216_west</b>	<b>Monitoring_Well Plant_Property RFI_Boundary</b>	<b>Monitoring_Well Plant_Property RFI_Boundary</b>
<b>Sample Location:</b>	<b>MW-X261Y356D</b>	<b>MW-X269Y201D</b>	<b>MW-X269Y201D</b>
<b>Sample ID:</b>	<b>S-012102-KMV-510</b>	<b>S-012202-KMV-511</b>	<b>S-012202-KMV-512</b>
<b>Sample Date:</b>	<b>1/21/2002</b>	<b>1/22/2002</b>	<b>1/22/2002</b>
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>
	<b>Duplicate</b>		<b>Duplicate</b>
<b>Parameters</b>	<b>Units</b>		
<b>PCBs</b>			
Aroclor-1016 (PCB-1016)	ug/kg	ND (43) U	ND (40) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (43) U	ND (40) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (43) U	ND (40) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (43) U	ND (40) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (43) U	18 J ND (40) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (43) U	ND (40) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (43) U	ND (40) U
Total PCBs	ug/kg	0	18 0

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>Monitoring Well</b>	<b>Plant Property</b>	<b>RFI Boundary</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>
<b>Sample Location:</b>	<b>MW-X269Y201D</b>			<b>PS-1A</b>	<b>PS-1A</b>	<b>PS-2A</b>	<b>PS-2B</b>	<b>PS-3A</b>
<b>Sample ID:</b>	<b>S-012202-KMV-513</b>			<b>S-032205-JC-1029</b>	<b>S-032205-JC-1030</b>	<b>S-032205-JC-1032</b>	<b>S-032205-JC-1027</b>	<b>S-031605-JC-952</b>
<b>Sample Date:</b>	<b>1/22/2002</b>			<b>3/22/2005</b>	<b>3/22/2005</b>	<b>3/22/2005</b>	<b>3/22/2005</b>	<b>3/16/2005</b>
<b>Sample Depth:</b>	<b>(7-9) ft</b>			<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>
				<b>Duplicate</b>				
<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	ug/kg	ND (43) U		ND (43) U	ND (45) U	ND (42) U	ND (46) U	ND (2100) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (43) U		ND (43) U	ND (45) U	ND (42) U	ND (46) U	ND (2100) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (43) U		ND (43) U	ND (45) U	ND (42) U	ND (46) U	ND (2100) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (43) U		ND (43) U	ND (45) U	ND (42) U	ND (46) U	ND (2100) U
Aroclor-1248 (PCB-1248)	ug/kg	16 J		60	50	ND (42) U	ND (46) U	6200
Aroclor-1254 (PCB-1254)	ug/kg	ND (43) U		ND (43) U	ND (45) U	ND (42) U	ND (46) U	ND (2100) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (43) U		ND (43) U	ND (45) U	ND (42) U	ND (46) U	ND (2100) U
Total PCBs	ug/kg	16		60	50	0	0	6200

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	
<b>Sample Location:</b>	<b>PS-3B</b>	<b>PS-3B</b>	<b>PS-4A</b>	<b>PS-4B</b>	<b>PS-5A</b>	<b>PS-5B</b>	<b>PS-6A</b>	<b>PS-6B</b>	
<b>Sample ID:</b>	S-031605-JC-954	S-031605-JC-955	S-031605-JC-957	S-032205-JC-1025	S-031605-JC-959	S-032205-JC-1023	S-031605-JC-961	S-031605-JC-963	
<b>Sample Date:</b>	3/16/2005	3/16/2005	3/16/2005	3/22/2005	3/16/2005	3/22/2005	3/16/2005	3/16/2005	
<b>Sample Depth:</b>	(0-2) ft	(0-2) ft	(0-2) ft	(0-2) ft	(0-2) ft	(0-2) ft	(0-2) ft	(0-2) ft	
		Duplicate							
<b>Parameters</b>	<b>Units</b>								
<b>PCBs</b>									
Aroclor-1016 (PCB-1016)	ug/kg	ND (41) U	ND (42) U	ND (440) U	ND (44) U	ND (41) U	ND (42) U	ND (43) U	ND (43) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (41) U	ND (42) U	ND (440) U	ND (44) U	ND (41) U	ND (42) U	ND (43) U	ND (43) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (41) U	ND (42) U	ND (440) U	ND (44) U	ND (41) U	ND (42) U	ND (43) U	ND (43) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (41) U	30 J	ND (440) U	ND (44) U	ND (41) U	ND (42) U	ND (43) U	ND (43) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (41) U	ND (42) U	2400	ND (44) U	ND (41) U	26 J	ND (43) U	ND (43) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (41) U	ND (42) U	ND (440) U	ND (44) U	ND (41) U	ND (42) U	ND (43) U	ND (43) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (41) U	ND (42) U	ND (440) U	ND (44) U	ND (41) U	ND (42) U	ND (43) U	ND (43) U
Total PCBs	ug/kg	0	30	2400	0	0	26	0	0

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	
<b>Sample Location:</b>	<b>PS-7A</b>	<b>PS-7B</b>	<b>PS-7B</b>	<b>PS-8A</b>	<b>PS-8B</b>	<b>PS-8B</b>	<b>PS-9A</b>	<b>PS-9B</b>	
<b>Sample ID:</b>	<b>S-031705-JC-965</b>	<b>S-031705-JC-967</b>	<b>S-031705-JC-968</b>	<b>S-031705-JC-970</b>	<b>S-031705-JC-972</b>	<b>S-031705-JC-973</b>	<b>S-031705-JC-975</b>	<b>S-032105-JC-1016</b>	
<b>Sample Date:</b>	<b>3/17/2005</b>	<b>3/17/2005</b>	<b>3/17/2005</b>	<b>3/17/2005</b>	<b>3/17/2005</b>	<b>3/17/2005</b>	<b>3/17/2005</b>	<b>3/21/2005</b>	
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	
<b>Parameters</b>	<b>Units</b>								
<b>PCBs</b>									
Aroclor-1016 (PCB-1016)	ug/kg	ND (44) U	ND (42) U	ND (42) U	ND (41) U	ND (42) U	ND (44) U	ND (44) U	ND (2100) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (44) U	ND (42) U	ND (42) U	ND (41) U	ND (42) U	ND (44) U	ND (44) U	ND (2100) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (44) U	ND (42) U	ND (42) U	ND (41) U	ND (42) U	ND (44) U	ND (44) U	ND (2100) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (44) U	ND (42) U	ND (42) U	ND (41) U	ND (42) U	ND (44) U	ND (44) U	ND (2100) U
Aroclor-1248 (PCB-1248)	ug/kg	18 J	ND (42) U	ND (42) U	ND (41) U	13 J	ND (44) U	ND (44) U	16000
Aroclor-1254 (PCB-1254)	ug/kg	ND (44) U	ND (42) U	ND (42) U	ND (41) U	ND (42) U	ND (44) U	ND (44) U	ND (2100) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (44) U	ND (42) U	ND (42) U	ND (41) U	ND (42) U	ND (44) U	ND (44) U	ND (2100) U
Total PCBs	ug/kg	18	0	0	0	13	0	0	16000

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>East Plant Area</i>	<i>East Plant Area</i>	<i>East Plant Area</i>	<i>East Plant Area</i>	<i>East Plant Area</i>	<i>East Plant Area</i>	<i>East Plant Area</i>	<i>East Plant Area</i>	
<i>Sample Location:</i>	<i>PS-9B</i>	<i>PS-10A</i>	<i>PS-10B</i>	<i>PS-11A</i>	<i>PS-11B</i>	<i>PS-12A</i>	<i>PS-12B</i>	<i>PS-13A</i>	
<i>Sample ID:</i>	<i>S-032105-JC-1017</i>	<i>S-031705-JC-977</i>	<i>S-031805-JC-979</i>	<i>S-032105-JC-1014</i>	<i>S-032105-JC-1010</i>	<i>S-032105-JC-1012</i>	<i>S-032105-JC-1008</i>	<i>S-032105-JC-994</i>	
<i>Sample Date:</i>	<i>3/21/2005</i>	<i>3/17/2005</i>	<i>3/18/2005</i>	<i>3/21/2005</i>	<i>3/21/2005</i>	<i>3/21/2005</i>	<i>3/21/2005</i>	<i>3/21/2005</i>	
<i>Sample Depth:</i>	<i>(2-4) ft</i>	<i>(0-2) ft</i>	<i>(0-2) ft</i>	<i>(0-2) ft</i>	<i>(0-2) ft</i>	<i>(0-2) ft</i>	<i>(0-2) ft</i>	<i>(0-2) ft</i>	
<b>Parameters</b>	<b>Units</b>								
<b>PCBs</b>									
Aroclor-1016 (PCB-1016)	ug/kg	ND (210) U	ND (42) U	ND (41) U	ND (43) U	ND (41) U	ND (380) U	ND (41) U	ND (42) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (210) U	ND (42) U	ND (41) U	ND (43) U	ND (41) U	ND (380) U	ND (41) U	ND (42) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (210) U	ND (42) U	ND (41) U	ND (43) U	ND (41) U	ND (380) U	ND (41) U	ND (42) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (210) U	ND (42) U	ND (41) U	ND (43) U	ND (41) U	ND (380) U	ND (41) U	ND (42) U
Aroclor-1248 (PCB-1248)	ug/kg	910	22 J	ND (41) U	ND (43) U	ND (41) U	870	8.0 J	ND (42) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (210) U	ND (42) U	ND (41) U	ND (43) U	ND (41) U	ND (380) U	ND (41) U	ND (42) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (210) U	ND (42) U	ND (41) U	ND (43) U	ND (41) U	180 J	ND (41) U	ND (42) U
Total PCBs	ug/kg	910	22	0	0	0	1050	8	0

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>
<b>Sample Location:</b>	<b>PS-13A</b>	<b>PS-13B</b>	<b>PS-14A</b>	<b>PS-14A</b>	<b>PS-14A</b>	<b>PS-14B</b>	<b>PS-15A</b>	<b>PS-15B</b>
<b>Sample ID:</b>	<b>S-032105-JC-995</b>	<b>S-032105-JC-997</b>	<b>S-032105-JC-1005</b>	<b>S-032105-JC-1006</b>	<b>S-032105-JC-1007</b>	<b>S-032105-JC-1003</b>	<b>S-032105-JC-999</b>	<b>S-032105-JC-1001</b>
<b>Sample Date:</b>	<b>3/21/2005</b>	<b>3/21/2005</b>	<b>3/21/2005</b>	<b>3/21/2005</b>	<b>3/21/2005</b>	<b>3/21/2005</b>	<b>3/21/2005</b>	<b>3/21/2005</b>
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(2-4) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>
	<b>Duplicate</b>			<b>Duplicate</b>				
<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	ug/kg	ND (43) U	ND (42) U	ND (8000) U	ND (8900) U	ND (40) U	ND (42) U	ND (45) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (43) U	ND (42) U	ND (8000) U	ND (8900) U	ND (40) U	ND (42) U	ND (45) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (43) U	ND (42) U	ND (8000) U	ND (8900) U	ND (40) U	ND (42) U	ND (45) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (43) U	ND (42) U	ND (8000) U	ND (8900) U	ND (40) U	ND (42) U	ND (45) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (43) U	56	31000	48000	ND (40) U	ND (42) U	ND (45) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (43) U	ND (42) U	ND (8000) U	ND (8900) U	14 J	ND (42) U	ND (45) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (43) U	17 J	10000	15000	ND (40) U	ND (42) U	ND (45) U
Total PCBs	ug/kg	0	73	41000	63000	14	0	0

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>East Plant Area</i>	<i>East Plant Area</i>	<i>East Plant Area</i>	<i>East Plant Area</i>	<i>East Plant Area</i>	<i>East Plant Area</i>	<i>East Plant Area</i>	<i>East Plant Area</i>	
<i>Sample Location:</i>	<i>PS-16A</i>	<i>PS-16B</i>	<i>PS-17A</i>	<i>PS-17B</i>	<i>PS-18A</i>	<i>PS-18A</i>	<i>PS-18A</i>	<i>PS-18B</i>	
<i>Sample ID:</i>	<i>S-032105-JC-992</i>	<i>S-031805-JC-990</i>	<i>S-031805-JC-986</i>	<i>S-031805-JC-988</i>	<i>S-032205-JC-1018</i>	<i>S-032205-JC-1019</i>	<i>S-032205-JC-1020</i>	<i>S-031805-JC-983</i>	
<i>Sample Date:</i>	<i>3/21/2005</i>	<i>3/18/2005</i>	<i>3/18/2005</i>	<i>3/18/2005</i>	<i>3/22/2005</i>	<i>3/22/2005</i>	<i>3/22/2005</i>	<i>3/18/2005</i>	
<i>Sample Depth:</i>	<i>(0-2) ft</i>	<i>(0-2) ft</i>	<i>(0-2) ft</i>	<i>(0-2) ft</i>	<i>(0-2) ft</i>	<i>(0-2) ft Duplicate</i>	<i>(2-4) ft</i>	<i>(0-2) ft</i>	
<b>Parameters</b>	<b>Units</b>								
<b>PCBs</b>									
Aroclor-1016 (PCB-1016)	ug/kg	ND (42) U	ND (40) U	ND (43) U	ND (43) U	ND (840) U	ND (3900) U	ND (3400) U	ND (41) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (42) U	ND (40) U	ND (43) U	ND (43) U	ND (840) U	ND (3900) U	ND (3400) U	ND (41) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (42) U	ND (40) U	ND (43) U	ND (43) U	ND (840) U	ND (3900) U	ND (3400) U	ND (41) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (42) U	ND (40) U	ND (43) U	ND (43) U	ND (840) U	ND (3900) U	ND (3400) U	ND (41) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (42) U	19 J	25 J	ND (43) U	5800	26000	22000	ND (41) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (42) U	ND (40) U	ND (43) U	ND (43) U	ND (840) U	ND (3900) U	ND (3400) U	ND (41) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (42) U	ND (40) U	ND (43) U	ND (43) U	ND (840) U	ND (3900) U	ND (3400) U	ND (41) U
Total PCBs	ug/kg	0	19	25	0	5800	26000	22000	0



**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<b>Sample Area:</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>East Plant Area</b>	<b>A004 GMPT_west</b>	<b>A005</b>	<b>A005</b>	<b>A005</b>	
<b>Sample Location:</b>	<b>PS-18B</b>	<b>PS-19A</b>	<b>PS-19B</b>	<b>SD-X196Y272</b>	<b>SS-X187Y177</b>	<b>SS-X189Y169</b>	<b>SS-X189Y169</b>	
<b>Sample ID:</b>	<b>S-031805-JC-984</b>	<b>S-031805-JC-981</b>	<b>S-032205-JC-1021</b>	<b>S-031402-JW-1429</b>	<b>S-071802-CLM-001</b>	<b>S-071802-CLM-002</b>	<b>S-071802-CLM-005</b>	
<b>Sample Date:</b>	<b>3/18/2005</b>	<b>3/18/2005</b>	<b>3/22/2005</b>	<b>3/14/2002</b>	<b>7/18/2002</b>	<b>7/18/2002</b>	<b>7/18/2002</b>	
<b>Sample Depth:</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-0.33) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	<b>(0-2) ft</b>	
	<b>Duplicate</b>						<b>Duplicate</b>	
<b>Parameters</b>	<b>Units</b>							
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	ug/kg	ND (41) U	ND (41) U	ND (39) U	ND (42) U	ND (41) U	ND (41) U	ND (39) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (41) U	ND (41) U	ND (39) U	ND (42) U	ND (41) U	ND (41) U	ND (39) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (41) U	ND (41) U	ND (39) U	ND (42) U	ND (41) U	ND (41) U	ND (39) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (41) U	ND (41) U	ND (39) U	ND (42) U	ND (41) U	ND (41) U	ND (39) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (41) U	ND (41) U	ND (39) U	490	42	39 J	210
Aroclor-1254 (PCB-1254)	ug/kg	ND (41) U	ND (41) U	ND (39) U	ND (42) U	ND (41) U	ND (41) U	ND (39) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (41) U	ND (41) U	ND (39) U	84	ND (41) U	ND (41) U	ND (39) U
Total PCBs	ug/kg	0	0	0	574	42	39	210

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>A005</i>	<i>A005</i>	<i>A005</i>	<i>A023 P200</i>	<i>A008 P200</i>	<i>A008 P200</i>	<i>A008 P200</i>
<i>Sample Location:</i>	<i>SS-X193Y160</i>	<i>SS-X194Y152</i>	<i>SS-X200Y161</i>	<i>SS-X203Y066</i>	<i>TMW-X225Y080</i>	<i>TMW-X225Y080</i>	<i>TMW-X225Y080</i>
<i>Sample ID:</i>	<i>S-071802-CLM-003</i>	<i>S-071802-CLM-004</i>	<i>S-082702-JW-006</i>	<i>SS-010902-MG-001</i>	<i>S-080802-JN-001</i>	<i>S-080802-JN-002</i>	<i>S-080802-JN-003</i>
<i>Sample Date:</i>	<i>7/18/2002</i>	<i>7/18/2002</i>	<i>8/27/2002</i>	<i>1/9/2002</i>	<i>8/8/2002</i>	<i>8/8/2002</i>	<i>8/8/2002</i>
<i>Sample Depth:</i>	<i>(0-2) ft</i>	<i>(0-2) ft</i>	<i>(0-2) ft</i>	<i>(2-4) ft</i>	<i>(0-2) ft</i>	<i>(6-8) ft</i>	<i>(12-14) ft</i>
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/kg	ND (81) U	ND (370) U	ND (38) U	ND (410) U	ND (81) U	ND (72) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (81) U	ND (370) U	ND (38) U	ND (410) U	ND (81) U	ND (72) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (81) U	ND (370) U	ND (38) U	ND (410) U	ND (81) U	ND (72) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (81) U	ND (370) U	ND (38) U	ND (410) U	84	ND (72) U
Aroclor-1248 (PCB-1248)	ug/kg	390	4000	180	3300	ND (81) U	750
Aroclor-1254 (PCB-1254)	ug/kg	ND (81) U	ND (370) U	ND (38) U	ND (410) U	ND (81) U	ND (72) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (81) U	ND (370) U	27 J	ND (410) U	810	350
Total PCBs	ug/kg	390	4000	207	3300	894	1100

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	
<i>Sample Location:</i>	<i>TP-1</i>	<i>TP-1</i>	<i>TP-2</i>	<i>TP-2</i>	<i>TP-3</i>	<i>TP-3</i>	
<i>Sample ID:</i>	<i>S-TP-1-061604-JC-131</i>	<i>S-TP-1-061604-JC-132</i>	<i>S-TP-2-061404-JC-117</i>	<i>S-TP-2-061404-JC-118</i>	<i>S-TP-3-061604-JC-133</i>	<i>S-TP-3-061604-JC-134</i>	
<i>Sample Date:</i>	<i>6/16/2004</i>	<i>6/16/2004</i>	<i>6/14/2004</i>	<i>6/14/2004</i>	<i>6/16/2004</i>	<i>6/16/2004</i>	
<i>Sample Depth:</i>	<i>(12-12) ft</i>	<i>(10-12) ft</i>	<i>(12-12) ft</i>	<i>(10-12) ft</i>	<i>(12-12) ft</i>	<i>(10-12) ft</i>	
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/kg	ND (37) U	ND (750) U	ND (69) U	ND (710) U	ND (3500) U	ND (3400) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (37) U	ND (750) U	ND (69) U	ND (710) U	ND (3500) U	ND (3400) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (37) U	ND (750) U	ND (69) U	ND (710) U	ND (3500) U	ND (3400) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (37) U	ND (750) U	ND (69) U	ND (710) U	ND (3500) U	ND (3400) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (37) U	4400 J	430	5600	22000	23000
Aroclor-1254 (PCB-1254)	ug/kg	220	ND (750) U	ND (69) U	ND (710) U	ND (3500) U	ND (3400) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (37) U	650 J	220	800	4000	3100 J
Total PCBs	ug/kg	220	5050	650	6400	26000	26100

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	
<i>Sample Location:</i>	<i>TP-5</i>	<i>TP-5</i>	<i>TP-5</i>	<i>TP-6</i>	<i>TP-6</i>	<i>TP-7</i>	
<i>Sample ID:</i>	<i>S-TP-5-061604-JC-137</i>	<i>S-TP-5-061604-JC-138</i>	<i>S-TP-5-061604-JC-139</i>	<i>S-TP-6-061504-JC-124</i>	<i>S-TP-6-061504-JC-125</i>	<i>S-TP-7-061604-JC-135</i>	
<i>Sample Date:</i>	<i>6/16/2004</i>	<i>6/16/2004</i>	<i>6/16/2004</i>	<i>6/15/2004</i>	<i>6/15/2004</i>	<i>6/16/2004</i>	
<i>Sample Depth:</i>	<i>(10-10) ft</i>	<i>(10-10) ft</i> <i>Duplicate</i>	<i>(8-10) ft</i>	<i>(9-9) ft</i>	<i>(7-9) ft</i>	<i>(9-9) ft</i>	
<i>Parameters</i>	<i>Units</i>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/kg	ND (180) U	ND (350) U	ND (1700) U	ND (7700) U	ND (1800) U	ND (19000) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (180) U	ND (350) U	ND (1700) U	ND (7700) U	ND (1800) U	ND (19000) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (180) U	ND (350) U	ND (1700) U	ND (7700) U	ND (1800) U	ND (19000) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (180) U	ND (350) U	ND (1700) U	ND (7700) U	ND (1800) U	78000
Aroclor-1248 (PCB-1248)	ug/kg	930	2000	11000	73000	18000	ND (19000) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (180) U	ND (350) U	ND (1700) U	ND (7700) U	ND (1800) U	ND (19000) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (180) U	ND (350) U	ND (1700) U	5800 J	1500 J	ND (19000) U
Total PCBs	ug/kg	930	2000	11000	78800	19500	78000

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>
<i>Sample Location:</i>	<i>TP-7</i>	<i>TP-9</i>	<i>TP-9</i>	<i>TP-10</i>	<i>TP-10</i>	<i>TP-10</i>
<i>Sample ID:</i>	<i>S-TP-7-061604-JC-136</i>	<i>S-TP-9-061504-JC-122</i>	<i>S-TP-9-061504-JC-123</i>	<i>S-TP-10-061504-JC-119</i>	<i>S-TP-10-061504-JC-120</i>	<i>S-TP-10-061504-JC-121</i>
<i>Sample Date:</i>	<i>6/16/2004</i>	<i>6/15/2004</i>	<i>6/15/2004</i>	<i>6/15/2004</i>	<i>6/15/2004</i>	<i>6/15/2004</i>
<i>Sample Depth:</i>	<i>(7-9) ft</i>	<i>(12-12) ft</i>	<i>(10-12) ft</i>	<i>(11.5-11.5) ft</i>	<i>(9.5-11.5) ft</i>	<i>(9.5-11.5) ft Duplicate</i>
<i>Parameters</i>	<i>Units</i>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/kg	ND (2000) U	ND (71000) U	ND (74000) U	ND (7600) U	ND (18000) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (2000) U	ND (71000) U	ND (74000) U	ND (7600) U	ND (18000) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (2000) U	ND (71000) U	ND (74000) U	ND (7600) U	ND (18000) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (2000) U	240000	660000	ND (7600) U	100000
Aroclor-1248 (PCB-1248)	ug/kg	19000	ND (71000) U	ND (74000) U	54000	ND (18000) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (2000) U	ND (71000) U	ND (74000) U	ND (7600) U	ND (18000) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (2000) U	ND (71000) U	ND (74000) U	5300 J	6600 J
Total PCBs	ug/kg	19000	240000	660000	59300	106600
						91000

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	
<i>Sample Location:</i>	<i>TP-11</i>	<i>TP-11</i>	<i>TP-12</i>	<i>TP-12</i>	<i>TP-13</i>	<i>TP-13</i>	
<i>Sample ID:</i>	<i>S-TP-11-061604-JC-140</i>	<i>S-TP-11-061604-JC-141</i>	<i>S-TP-12-061504-JC-129</i>	<i>S-TP-12-061504-JC-130</i>	<i>S-TP-13-061504-JC-126</i>	<i>S-TP-13-061504-JC-127</i>	
<i>Sample Date:</i>	<i>6/16/2004</i>	<i>6/16/2004</i>	<i>6/15/2004</i>	<i>6/15/2004</i>	<i>6/15/2004</i>	<i>6/15/2004</i>	
<i>Sample Depth:</i>	<i>(3-3) ft</i>	<i>(1-3) ft</i>	<i>(12-12) ft</i>	<i>(10-12) ft</i>	<i>(12-12) ft</i>	<i>(12-12) ft Duplicate</i>	
<i>Parameters</i>	<i>Units</i>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/kg	ND (1800) U	ND (220) U	ND (39000) U	ND (8000) U	ND (83000) U	ND (41000) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (1800) U	ND (220) U	ND (39000) U	ND (8000) U	ND (83000) U	ND (41000) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (1800) U	ND (220) U	ND (39000) U	ND (8000) U	ND (83000) U	ND (41000) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (1800) U	ND (220) U	130000	52000	500000	340000
Aroclor-1248 (PCB-1248)	ug/kg	14000	1500	ND (39000) U	ND (8000) U	ND (83000) U	ND (41000) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (1800) U	ND (220) U	ND (39000) U	ND (8000) U	ND (83000) U	ND (41000) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (1800) U	ND (220) U	ND (39000) U	7000 J	ND (83000) U	ND (41000) U
Total PCBs	ug/kg	14000	1500	130000	59000	500000	340000

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	<i>A004</i>	
<i>Sample Location:</i>	<i>TP-13</i>	<i>TP-15</i>	<i>TP-15</i>	<i>TP-17</i>	<i>TP-17</i>	<i>TP-17</i>	
<i>Sample ID:</i>	<i>S-TP-13-061504-JC-128</i>	<i>S-TP-15-061704-JC-144</i>	<i>S-TP-15-061704-JC-145</i>	<i>S-TP-17-070104-JC-198</i>	<i>S-TP-17-070104-JC-199</i>	<i>S-TP-17-070104-JC-200</i>	
<i>Sample Date:</i>	<i>6/15/2004</i>	<i>6/17/2004</i>	<i>6/17/2004</i>	<i>7/1/2004</i>	<i>7/1/2004</i>	<i>7/1/2004</i>	
<i>Sample Depth:</i>	<i>(10-12) ft</i>	<i>(9-9) ft</i>	<i>(9-9) ft</i>	<i>(9-9) ft</i>	<i>(9-9) ft</i>	<i>(7-9) ft</i>	
					<i>Duplicate</i>		
<i>Parameters</i>	<i>Units</i>						
<i>PCBs</i>							
Aroclor-1016 (PCB-1016)	ug/kg	ND (20000) U	ND (830) U	ND (410) U	ND (940) U	ND (460) U	ND (19000) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (20000) U	ND (830) U	ND (410) U	ND (940) U	ND (460) U	ND (19000) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (20000) U	ND (830) U	ND (410) U	ND (940) U	ND (460) U	ND (19000) U
Aroclor-1242 (PCB-1242)	ug/kg	120000	ND (830) U	ND (410) U	ND (940) U	ND (460) U	ND (19000) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (20000) U	8700	3400	14000	6200	250000
Aroclor-1254 (PCB-1254)	ug/kg	ND (20000) U	ND (830) U	ND (410) U	ND (940) U	ND (460) U	ND (19000) U
Aroclor-1260 (PCB-1260)	ug/kg	5000 J	ND (830) U	ND (410) U	ND (940) U	ND (460) U	ND (19000) U
Total PCBs	ug/kg	125000	8700	3400	14000	6200	250000

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>A004</i>	<i>A004</i>	<i>A005</i>	<i>A005</i>	<i>A005</i>	<i>A005</i>	
<i>Sample Location:</i>	<i>TP-18</i>	<i>TP-18</i>	<i>TP-19</i>	<i>TP-19</i>	<i>TP-20</i>	<i>TP-20</i>	
<i>Sample ID:</i>	<i>S-TP-18-061704-JC-142</i>	<i>S-TP-18-061704-JC-143</i>	<i>S-TP-19-062304-JC-166</i>	<i>S-TP-19-062304-JC-167</i>	<i>S-TP-20-062204-JC-160</i>	<i>S-TP-20-062204-JC-161</i>	
<i>Sample Date:</i>	<i>6/17/2004</i>	<i>6/17/2004</i>	<i>6/23/2004</i>	<i>6/23/2004</i>	<i>6/22/2004</i>	<i>6/22/2004</i>	
<i>Sample Depth:</i>	<i>(5-5) ft</i>	<i>(5-5) ft</i>	<i>(8-8) ft</i>	<i>(6-8) ft</i>	<i>(4-4) ft</i>	<i>(2-4) ft</i>	
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/kg	ND (50) U	ND (43) U	ND (82000) U	ND (79000) U	ND (200) U	ND (770) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (50) U	ND (43) U	ND (82000) U	ND (79000) U	ND (200) U	ND (770) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (50) U	ND (43) U	ND (82000) U	ND (79000) U	ND (200) U	ND (770) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (50) U	ND (43) U	ND (82000) U	1100000	ND (200) U	ND (770) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (50) U	140 J	210000	ND (79000) U	770	6800
Aroclor-1254 (PCB-1254)	ug/kg	130 J	ND (43) U	ND (82000) U	ND (79000) U	ND (200) U	ND (770) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (50) U	ND (43) U	ND (82000) U	ND (79000) U	67 J	460 J
Total PCBs	ug/kg	130	140	210000	1100000	837	7260



**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>A005</i>	<i>A005</i>	<i>A005</i>	<i>A005</i>	<i>A005</i>	<i>A006</i>	
<i>Sample Location:</i>	<i>TP-21</i>	<i>TP-21</i>	<i>TP-22</i>	<i>TP-22</i>	<i>TP-22</i>	<i>TP-23</i>	
<i>Sample ID:</i>	<i>S-TP-21-062104-JC-153</i>	<i>S-TP-21-062104-JC-154</i>	<i>S-TP-22-062104-JC-157</i>	<i>S-TP-22-062104-JC-158</i>	<i>S-TP-22-062104-JC-159</i>	<i>S-TP-23-061704-JC-146</i>	
<i>Sample Date:</i>	<i>6/21/2004</i>	<i>6/21/2004</i>	<i>6/21/2004</i>	<i>6/21/2004</i>	<i>6/21/2004</i>	<i>6/17/2004</i>	
<i>Sample Depth:</i>	<i>(8-8) ft</i>	<i>(6-8) ft</i>	<i>(12-12) ft</i>	<i>(10-12) ft</i>	<i>(10-12) ft</i>	<i>(12-12) ft</i>	
					<i>Duplicate</i>		
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/kg	ND (19000) U	ND (7200) U	ND (20000) U	ND (2000) U	ND (4200) U	ND (39000) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (19000) U	ND (7200) U	ND (20000) U	ND (2000) U	ND (4200) U	ND (39000) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (19000) U	ND (7200) U	ND (20000) U	ND (2000) U	ND (4200) U	ND (39000) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (19000) U	ND (7200) U	340000	ND (2000) U	ND (4200) U	330000
Aroclor-1248 (PCB-1248)	ug/kg	150000	60000	ND (20000) U	19000	35000	ND (39000) U
Aroclor-1254 (PCB-1254)	ug/kg	ND (19000) U	ND (7200) U	ND (20000) U	ND (2000) U	ND (4200) U	ND (39000) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (19000) U	ND (7200) U	ND (20000) U	ND (2000) U	ND (4200) U	ND (39000) U
Total PCBs	ug/kg	150000	60000	340000	19000	35000	330000

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>
<i>Sample Location:</i>	<i>TP-23</i>	<i>TP-24</i>	<i>TP-24</i>	<i>TP-24</i>	<i>TP-25</i>	<i>TP-25</i>
<i>Sample ID:</i>	<i>S-TP-23-061704-JC-147</i>	<i>S-TP-24-061704-JC-148</i>	<i>S-TP-24-061704-JC-149</i>	<i>S-TP-24-061704-JC-150</i>	<i>S-TP-25-062104-JC-151</i>	<i>S-TP-25-062104-JC-152</i>
<i>Sample Date:</i>	<i>6/17/2004</i>	<i>6/17/2004</i>	<i>6/17/2004</i>	<i>6/17/2004</i>	<i>6/21/2004</i>	<i>6/21/2004</i>
<i>Sample Depth:</i>	<i>(12-12) ft</i>	<i>(10-10) ft</i>	<i>(10-10) ft</i>	<i>(10-10) ft</i>	<i>(3.5-3.5) ft</i>	<i>(1.5-3.5) ft</i>
<i>Parameters</i>	<i>Units</i>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/kg	ND (3700) U	ND (7400) U	ND (3700) U	ND (700) U	ND (2100) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (3700) U	ND (7400) U	ND (3700) U	ND (700) U	ND (2100) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (3700) U	ND (7400) U	ND (3700) U	ND (700) U	ND (2100) U
Aroclor-1242 (PCB-1242)	ug/kg	24000	71000	37000	ND (700) U	ND (2100) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (3700) U	ND (7400) U	ND (3700) U	5300	23000 J
Aroclor-1254 (PCB-1254)	ug/kg	ND (3700) U	ND (7400) U	ND (3700) U	ND (700) U	ND (2100) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (3700) U	ND (7400) U	ND (3700) U	ND (700) U	ND (2100) U
Total PCBs	ug/kg	24000	71000	37000	5300	23000
						15000

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>
<i>Sample Location:</i>	<i>TP-26</i>	<i>TP-26</i>	<i>TP-28</i>	<i>TP-28</i>	<i>TP-29</i>	<i>TP-29</i>
<i>Sample ID:</i>	<i>S-TP-26-062104-JC-155</i>	<i>S-TP-26-062104-JC-156</i>	<i>S-TP-28-062304-JC-173</i>	<i>S-TP-28-062304-JC-174</i>	<i>S-TP-29-062304-JC-169</i>	<i>S-TP-29-062304-JC-170</i>
<i>Sample Date:</i>	<i>6/21/2004</i>	<i>6/21/2004</i>	<i>6/23/2004</i>	<i>6/23/2004</i>	<i>6/23/2004</i>	<i>6/23/2004</i>
<i>Sample Depth:</i>	<i>(12-12) ft</i>	<i>(10-12) ft</i>	<i>(12-12) ft</i>	<i>(10-12) ft</i>	<i>(12-12) ft</i>	<i>(12-12) ft Duplicate</i>
<i>Parameters</i>	<i>Units</i>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/kg	ND (220) U	ND (360) U	ND (41) U	ND (210) U	ND (41) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (220) U	ND (360) U	ND (41) U	ND (210) U	ND (41) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (220) U	ND (360) U	ND (41) U	ND (210) U	ND (41) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (220) U	ND (360) U	57	630	ND (41) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (220) U	2000	ND (41) U	ND (210) U	61
Aroclor-1254 (PCB-1254)	ug/kg	ND (220) U	ND (360) U	ND (41) U	ND (210) U	ND (41) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (220) U	ND (360) U	ND (41) U	ND (210) U	ND (41) U
Total PCBs	ug/kg	0	2000	57	630	61

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>	
<i>Sample Location:</i>	<i>TP-29</i>	<i>TP-30</i>	<i>TP-30</i>	<i>TP-30</i>	<i>TP-31</i>	<i>TP-31</i>	
<i>Sample ID:</i>	<i>S-TP-29-062304-JC-171</i>	<i>S-TP-30-062204-JC-162</i>	<i>S-TP-30-062204-JC-163</i>	<i>S-TP-30-062204-JC-164</i>	<i>S-TP-31-062404-JC-181</i>	<i>S-TP-31-062404-JC-182</i>	
<i>Sample Date:</i>	<i>6/23/2004</i>	<i>6/22/2004</i>	<i>6/22/2004</i>	<i>6/22/2004</i>	<i>6/24/2004</i>	<i>6/24/2004</i>	
<i>Sample Depth:</i>	<i>(10-12) ft</i>	<i>(12-12) ft</i>	<i>(10-12) ft</i>	<i>(1-3) ft</i>	<i>(12-12) ft</i>	<i>(10-12) ft</i>	
<i>Parameters</i>	<i>Units</i>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/kg	ND (420) U	ND (82) U	ND (210000) U	ND (950000) U	ND (22000) U	ND (840) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (420) U	ND (82) U	ND (210000) U	ND (950000) U	ND (22000) U	ND (840) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (420) U	ND (82) U	ND (210000) U	ND (950000) U	ND (22000) U	ND (840) U
Aroclor-1242 (PCB-1242)	ug/kg	2000	340	1800000	7500000	180000	ND (840) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (420) U	ND (82) U	ND (210000) U	ND (950000) U	ND (22000) U	15000
Aroclor-1254 (PCB-1254)	ug/kg	ND (420) U	ND (82) U	ND (210000) U	ND (950000) U	ND (22000) U	ND (840) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (420) U	ND (82) U	ND (210000) U	ND (950000) U	ND (22000) U	ND (840) U
Total PCBs	ug/kg	2000	340	1800000	7500000	180000	15000

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>
<i>Sample Location:</i>	<i>TP-32</i>	<i>TP-32</i>	<i>TP-33</i>	<i>TP-33</i>	<i>TP-34</i>	<i>TP-34</i>
<i>Sample ID:</i>	<i>S-TP-32-062404-JC-178</i>	<i>S-TP-32-062404-JC-179</i>	<i>S-TP-33-062304-JC-176</i>	<i>S-TP-33-062304-JC-177</i>	<i>S-TP-34-062504-JC-186</i>	<i>S-TP-34-062504-JC-187</i>
<i>Sample Date:</i>	<i>6/24/2004</i>	<i>6/24/2004</i>	<i>6/23/2004</i>	<i>6/23/2004</i>	<i>6/25/2004</i>	<i>6/25/2004</i>
<i>Sample Depth:</i>	<i>(12-12) ft</i>	<i>(10-12) ft</i>	<i>(12-12) ft</i>	<i>(10-12) ft</i>	<i>(5.5-5.5) ft</i>	<i>(3.5-5.5) ft</i>
<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/kg	ND (4700000) U	ND (43000) U	ND (81) U	ND (770) U	ND (410) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (4700000) U	ND (43000) U	ND (81) U	ND (770) U	ND (410) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (4700000) U	ND (43000) U	ND (81) U	ND (770) U	ND (410) U
Aroclor-1242 (PCB-1242)	ug/kg	21000000	850000	560	ND (770) U	ND (410) U
Aroclor-1248 (PCB-1248)	ug/kg	ND (4700000) U	ND (43000) U	ND (81) U	7800	3100
Aroclor-1254 (PCB-1254)	ug/kg	ND (4700000) U	ND (43000) U	ND (81) U	ND (770) U	ND (410) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (4700000) U	ND (43000) U	ND (81) U	ND (770) U	ND (420) U
Total PCBs	ug/kg	21000000	850000	560	7800	3610
						4080

**TABLE 4.1**  
**SUMMARY OF PCB SOIL DATA**  
**EAST PLANT AREA**  
**GENERAL MOTORS POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Area:</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>	<i>A006</i>	<i>A007</i>	<i>A007</i>	
<i>Sample Location:</i>	<i>TP-35</i>	<i>TP-35</i>	<i>TP-36</i>	<i>TP-36</i>	<i>TP-37</i>	<i>TP-37</i>	
<i>Sample ID:</i>	<i>S-TP-35-062504-JC-189</i>	<i>S-TP-35-062504-JC-190</i>	<i>S-TP-36-062404-JC-184</i>	<i>S-TP-36-062404-JC-185</i>	<i>S-TP-37-070104-JC-196</i>	<i>S-TP-37-070104-JC-197</i>	
<i>Sample Date:</i>	<i>6/25/2004</i>	<i>6/25/2004</i>	<i>6/24/2004</i>	<i>6/24/2004</i>	<i>7/1/2004</i>	<i>7/1/2004</i>	
<i>Sample Depth:</i>	<i>(12-12) ft</i>	<i>(4-6) ft</i>	<i>(12-12) ft</i>	<i>(10-12) ft</i>	<i>(12-12) ft</i>	<i>(10-12) ft</i>	
<b>Parameters</b>	<b>Units</b>						
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/kg	ND (45) UJ	ND (9000) U	ND (39) U	ND (43) UJ	ND (42) U	ND (43) U
Aroclor-1221 (PCB-1221)	ug/kg	ND (45) UJ	ND (9000) U	ND (39) U	ND (43) UJ	ND (42) U	ND (43) U
Aroclor-1232 (PCB-1232)	ug/kg	ND (45) UJ	ND (9000) U	ND (39) U	ND (43) UJ	ND (42) U	ND (43) U
Aroclor-1242 (PCB-1242)	ug/kg	ND (45) UJ	ND (9000) U	ND (39) U	ND (43) UJ	ND (42) U	ND (43) U
Aroclor-1248 (PCB-1248)	ug/kg	19 J	110000	7.3 J	7.9 J	ND (42) U	38 J
Aroclor-1254 (PCB-1254)	ug/kg	ND (45) UJ	ND (9000) U	ND (39) U	ND (43) UJ	ND (42) U	ND (43) U
Aroclor-1260 (PCB-1260)	ug/kg	ND (45) UJ	22000	ND (39) U	ND (43) UJ	ND (42) U	ND (43) U
Total PCBs	ug/kg	19	132000	7.3	7.9	0	38

TABLE 4.2

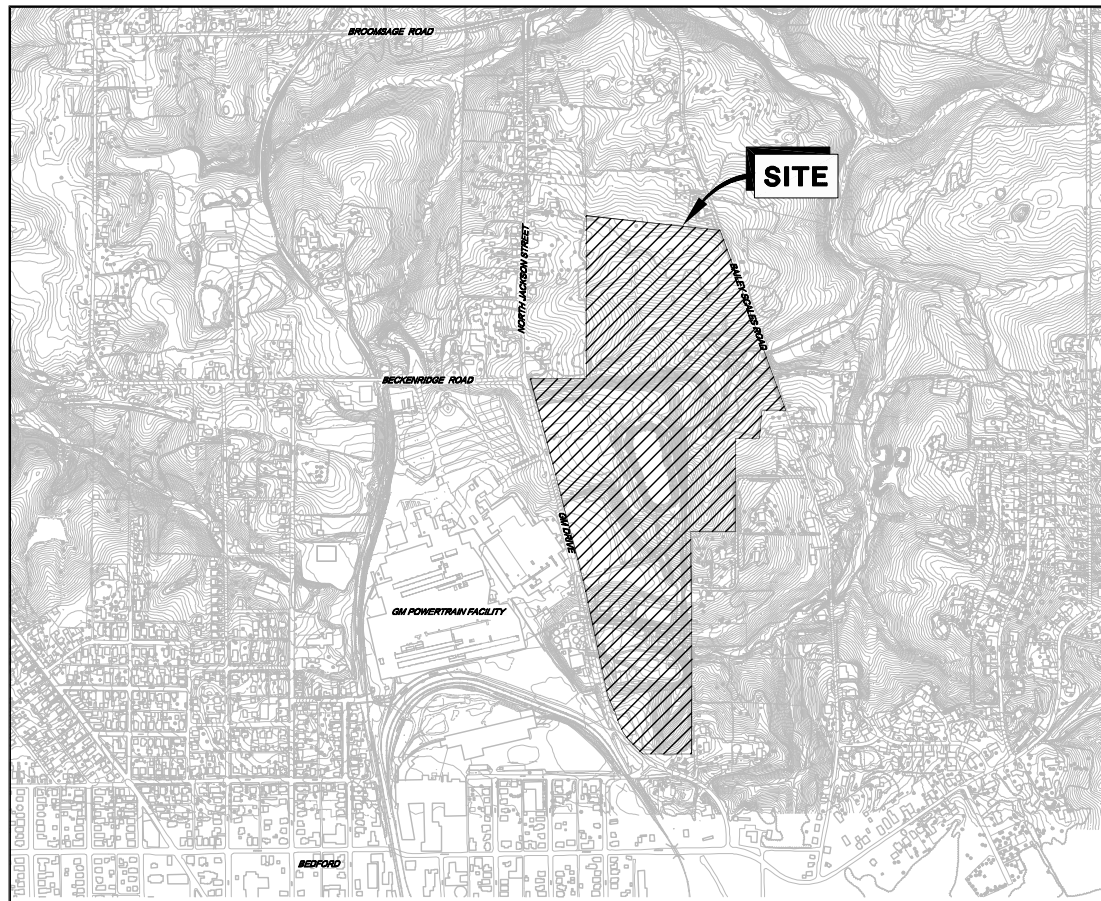
AIR MONITORING SUMMARY - 24-HOUR (LONG TERM)  
EAST PLANT AREA SOIL REMOVAL  
GENERAL MOTORS POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA

<i>Excavation Areas</i>	<i>Parameters</i>	<i>Duration of Monitoring</i>	<i>Air Monitoring Locations</i>	<i>Air Monitoring Frequency</i>
Soil Removal Area	Compound Specific PCBs	Duration of the over 50 mg/kg PCB soil removal portion of the IM	Seven locations around perimeter of the East Plant Area	Daily
Soil Removal Area	Compound Specific TSPs	Duration of the over 50 mg/kg PCB soil removal portion of the IM	Seven locations around perimeter of the East Plant Area	Daily

Notes:

- 1) PCB air monitoring program will be re-evaluated after one month of data is collected.
- 2) TSP samples will be collected with high volume samplers or real-time monitoring units as specified in the March 9, 2006 proposed modification to the AAQMP letter to U.S. EPA.
- 3) Both the Soil Removal Area and East Plant Area Vault may be encompassed by the same air monitoring stations.

PCBs - Polychlorinated Biphenyls  
TSPs - Total Suspended Particulates



KEY MAP

DRAWING INDEX

DWG. No.	REV. No.	DATE	TITLE
C-01	0	APRIL 2006	EXISTING CONDITIONS I
C-02	0	APRIL 2006	EXISTING CONDITIONS II
C-03	0	APRIL 2006	SITE WORKS I
C-04	0	APRIL 2006	SITE WORKS II
C-05	0	APRIL 2006	EXCAVATION PLAN II - ELEVATIONS 720 - 725 AMSL
C-06	0	APRIL 2006	EXCAVATION PLAN II - ELEVATIONS 715 - 720 AMSL
C-07	0	APRIL 2006	EXCAVATION PLAN II - ELEVATIONS 710 - 715 AMSL
C-08	0	APRIL 2006	EXCAVATION PLAN II - ELEVATIONS 705 - 710 AMSL
C-09	0	APRIL 2006	EXCAVATION PLAN II - ELEVATIONS 700 - 705 AMSL
C-10	0	APRIL 2006	EXCAVATION PLAN II - ELEVATIONS 695 - 700 AMSL
C-11	0	APRIL 2006	EXCAVATION PLAN II - ELEVATIONS 690 - 695 AMSL
C-12	0	APRIL 2006	EXCAVATION PLAN II - ELEVATIONS 685 - 690 AMSL
C-13	0	APRIL 2006	EXCAVATION PLAN II - ELEVATIONS 680 - 685 AMSL
C-14	0	APRIL 2006	EXCAVATION PLAN II - FINAL ELEVATIONS
C-15	0	APRIL 2006	EXCAVATION PLAN I - ELEVATIONS 695 - 700 AMSL
C-16	0	APRIL 2006	EXCAVATION PLAN I - ELEVATIONS 690 - 695 AMSL
C-17	0	APRIL 2006	EXCAVATION PLAN I - ELEVATIONS 685 - 690 AMSL
C-18	0	APRIL 2006	EXCAVATION PLAN I - ELEVATIONS 680 - 685 AMSL
C-19	0	APRIL 2006	EXCAVATION PLAN I - ELEVATIONS 675 - 680 AMSL
C-20	0	APRIL 2006	EXCAVATION PLAN I - ELEVATIONS 670 - 675 AMSL
C-21	0	APRIL 2006	EXCAVATION PLAN I - ELEVATIONS 665 - 670 AMSL
C-22	0	APRIL 2006	EXCAVATION PLAN I - ELEVATIONS 660 - 665 AMSL
C-23	0	APRIL 2006	EXCAVATION PLAN I - ELEVATIONS 655 - 660 AMSL
C-24	0	APRIL 2006	EXCAVATION PLAN I - ELEVATIONS 650 - 655 AMSL
C-25	0	APRIL 2006	EXCAVATION PLAN I - ELEVATIONS 645 - 650 AMSL
C-26	0	APRIL 2006	EXCAVATION PLAN I - ELEVATIONS 640 - 645 AMSL
C-27	0	APRIL 2006	EXCAVATION PLAN I - ELEVATIONS 635 - 640 AMSL
C-28	0	APRIL 2006	EXCAVATION PLAN I - ELEVATIONS 630 - 635 AMSL
C-29	0	APRIL 2006	EXCAVATION PLAN I - ELEVATIONS 625 - 630 AMSL
C-30	0	APRIL 2006	EXCAVATION PLAN I - ELEVATIONS 620 - 625 AMSL
C-31	0	APRIL 2006	EXCAVATION PLAN I - ELEVATIONS 615 - 620 AMSL
C-32	0	APRIL 2006	EXCAVATION PLAN I - FINAL ELEVATIONS

# DESIGN REPORT

## OVER 50 mg/kg PCB SOIL REMOVAL

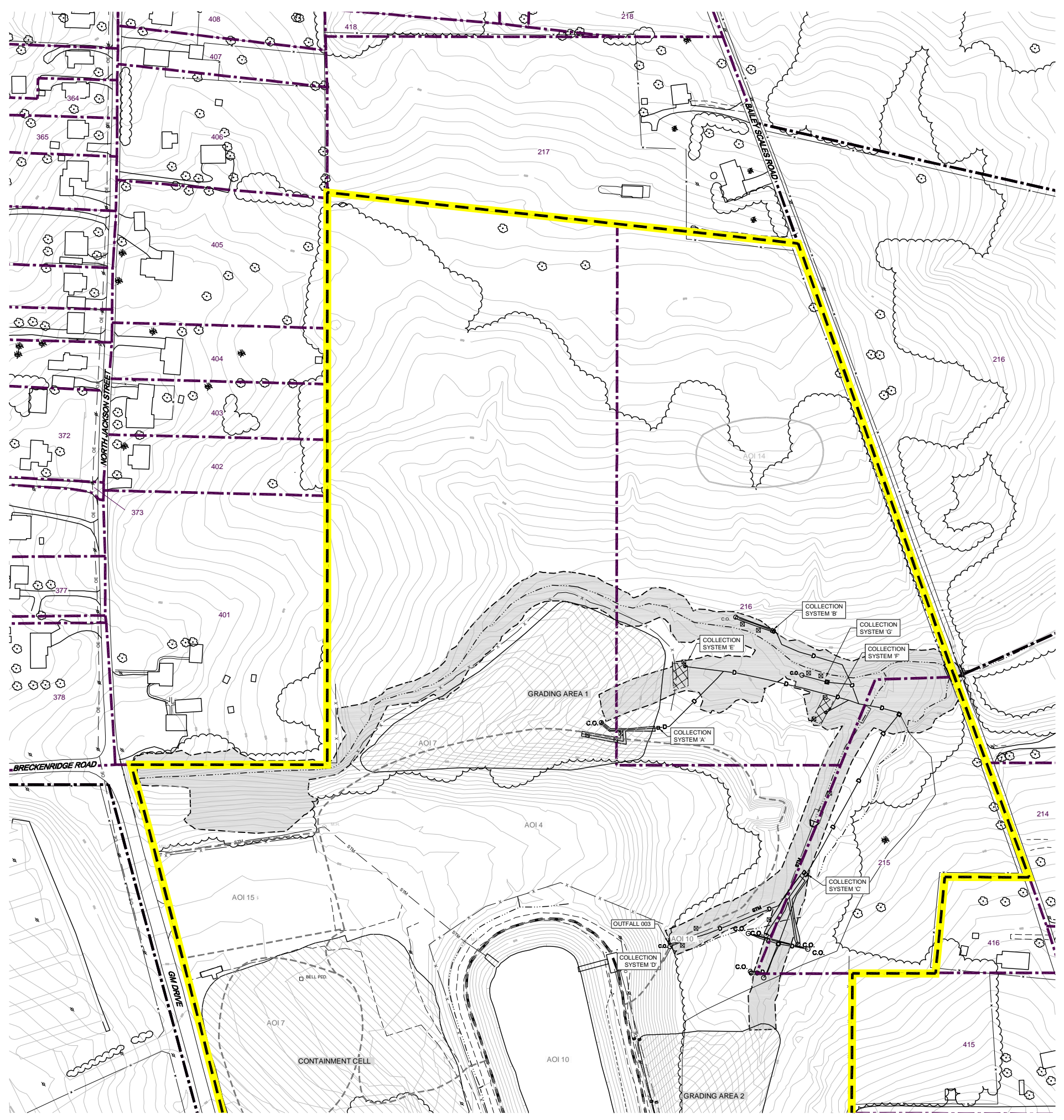
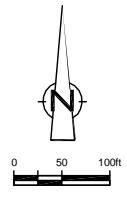
### EAST PLANT AREA

# GM POWERTRAIN BEDFORD FACILITY BEDFORD, INDIANA



CONESTOGA-ROVERS & ASSOCIATES





**LEGEND**

	EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
	EXISTING VEGETATION
	EXISTING BUILDINGS
	FENCE LINE
	RAILROAD TRACKS
	DIRT ROADS
	ROADS / PAVED AREAS
	APPROXIMATE SURFACE WATER LOCATION
	APPROXIMATE GM PROPERTY BOUNDARY
	APPROXIMATE PROPERTY BOUNDARY

	AOI BOUNDARY
	EAST PLANT AREA
	REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
	EXISTING FORCEMAIN TO TREATMENT FACILITY
	EXISTING STORM SEWER
	EXISTING SSC GRAVITY DRAIN
	EXISTING SSC EXTRACTION TRENCH
	EXISTING SSC SUMP STRUCTURE
	EXISTING CLEANOUT
	SEEP SAMPLE LOCATION
	SPRING SAMPLE LOCATION

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES

Nº	Revision	Date	Initial

**SCALE VERIFICATION**  
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved \_\_\_\_\_

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

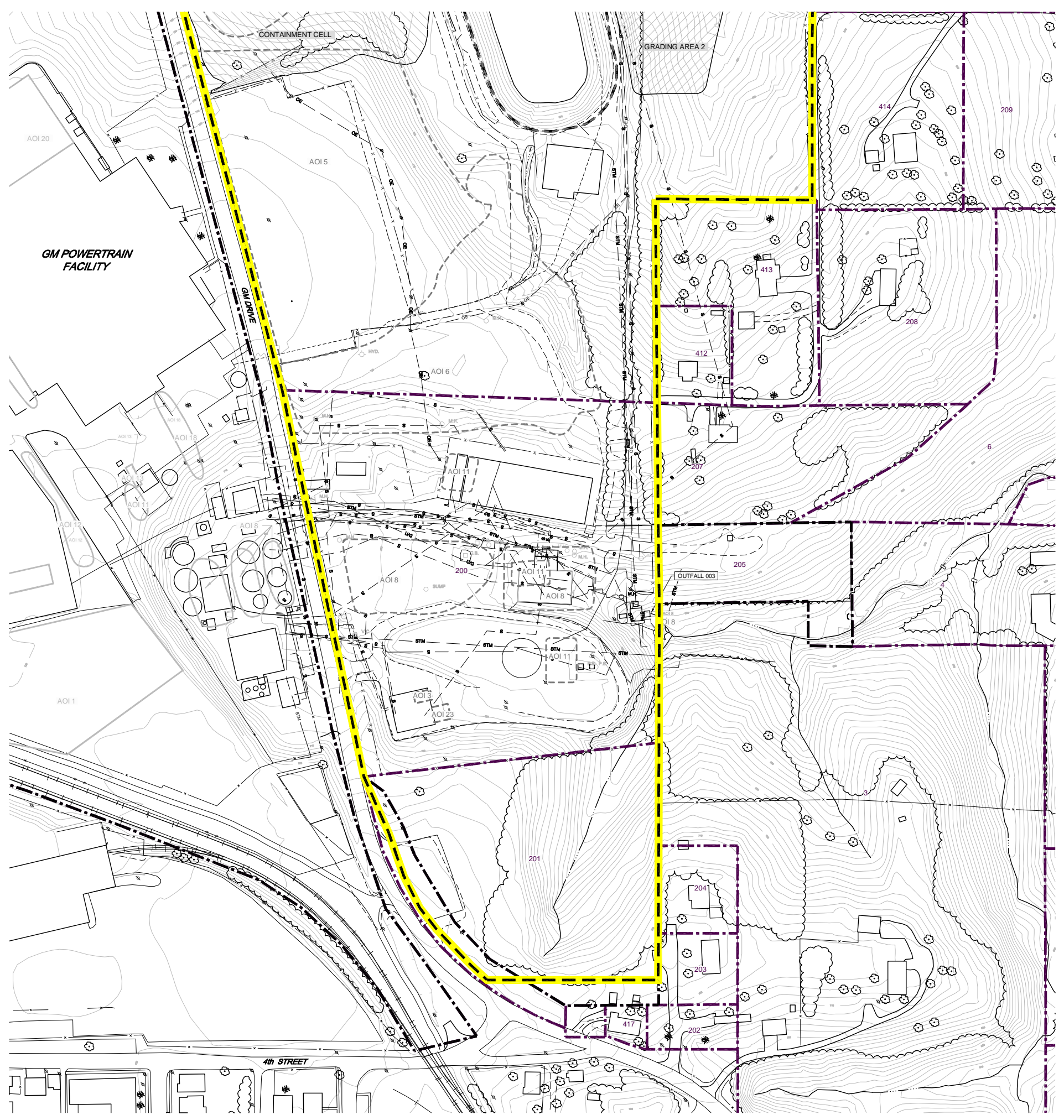
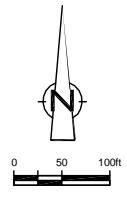
**EXISTING CONDITIONS I**



Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001.

Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 100'	Project Nº: 13968-00	Report Nº: 162
		Drawing Nº: C-01





**LEGEND**

	EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
	EXISTING VEGETATION
	EXISTING BUILDINGS
	FENCE LINE
	RAILROAD TRACKS
	DIRT ROADS
	ROADS / PAVED AREAS
	APPROXIMATE SURFACE WATER LOCATION
	APPROXIMATE GM PROPERTY BOUNDARY
	APPROXIMATE PROPERTY BOUNDARY

	AOI BOUNDARY
	EAST PLANT AREA
	REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
	EXISTING FORCEMAIN TO TREATMENT FACILITY
	EXISTING STORM SEWER
	EXISTING SSC GRAVITY DRAIN
	EXISTING SSC EXTRACTION TRENCH
	EXISTING SSC SUMP STRUCTURE
	EXISTING CLEANOUT
	SEEP SAMPLE LOCATION
	SPRING SAMPLE LOCATION

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

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PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES

Nº	Revision	Date	Initial

**SCALE VERIFICATION**  
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved \_\_\_\_\_

**GM POWERTRAIN BEDFORD FACILITY**  
BEDFORD, INDIANA

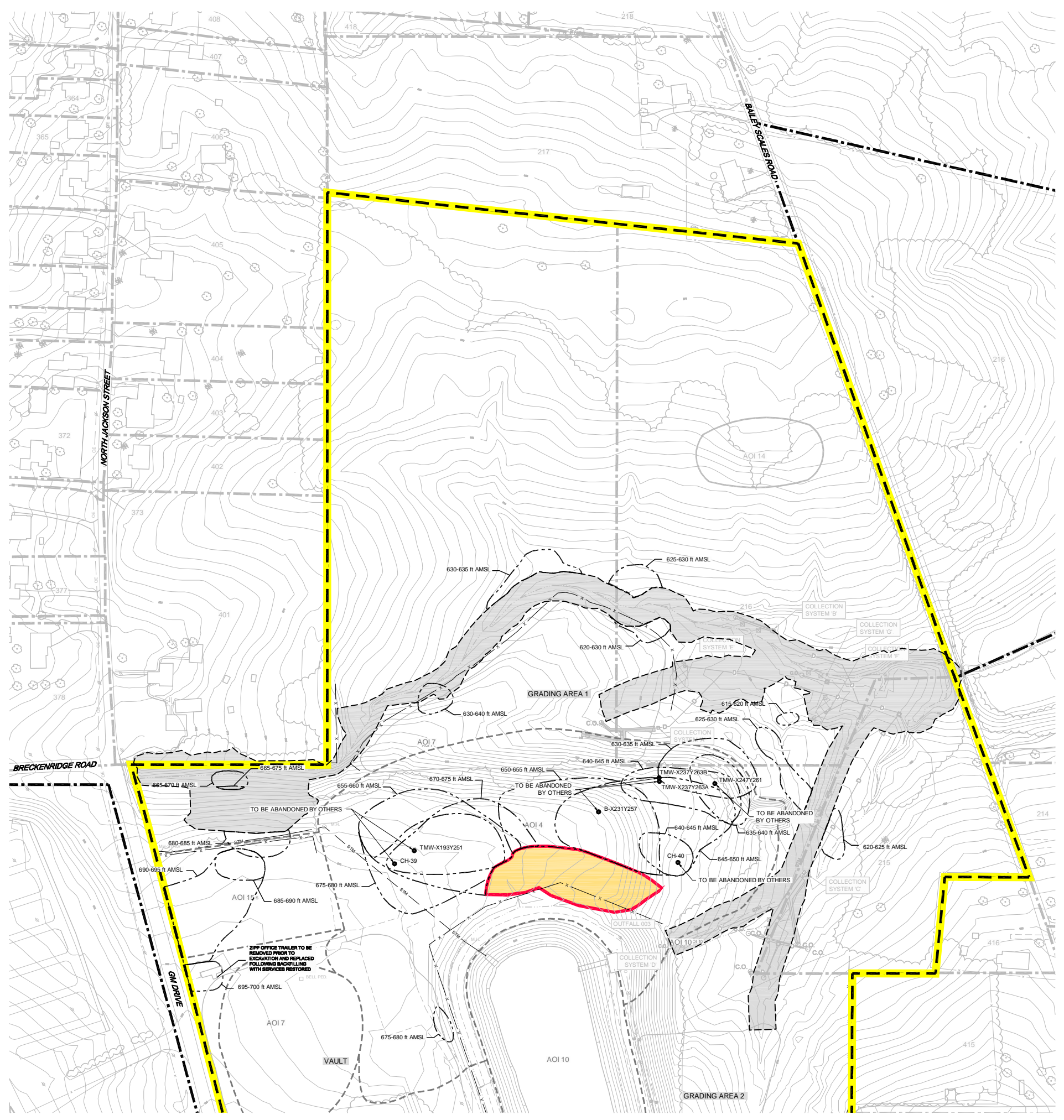
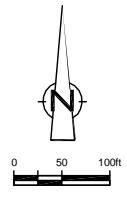
**OVER 50 mg/kg PCB SOIL REMOVAL**

**EXISTING CONDITIONS II**

Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001.

Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 100'	Project Nº: 13968-00	Report Nº: 162
		Drawing Nº: C-02





**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES

Nº	Revision	Date	Initial

**SCALE VERIFICATION**  
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved \_\_\_\_\_

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

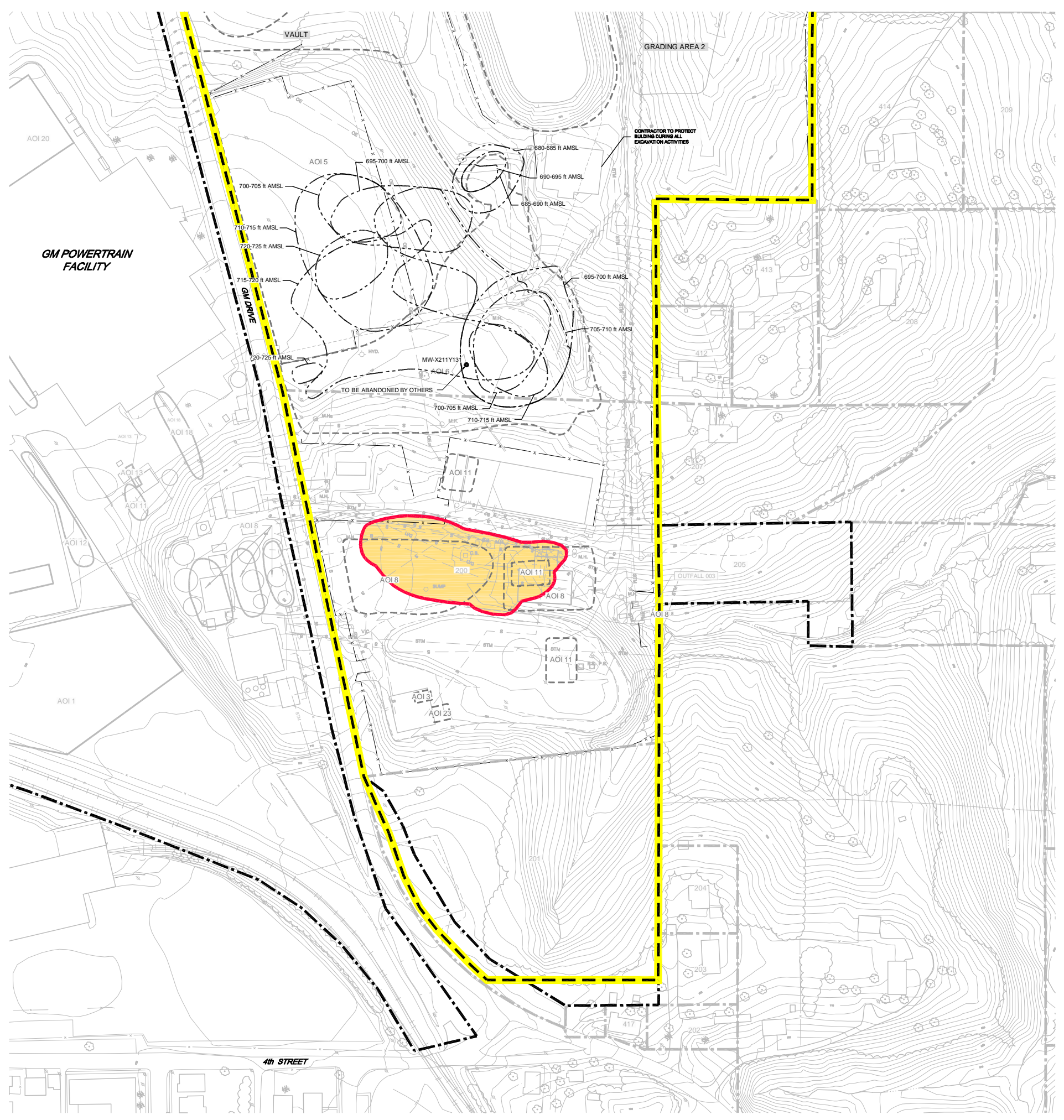
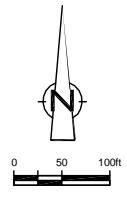
**SITE WORKS I**



Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001.

Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 100'	Project Nº: 13968-00	Report Nº: 162
		Drawing Nº: C-03





**GM POWERTRAIN  
FACILITY**

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
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AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES

No.	Revision	Date	Initial

**SCALE VERIFICATION**  
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved \_\_\_\_\_

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

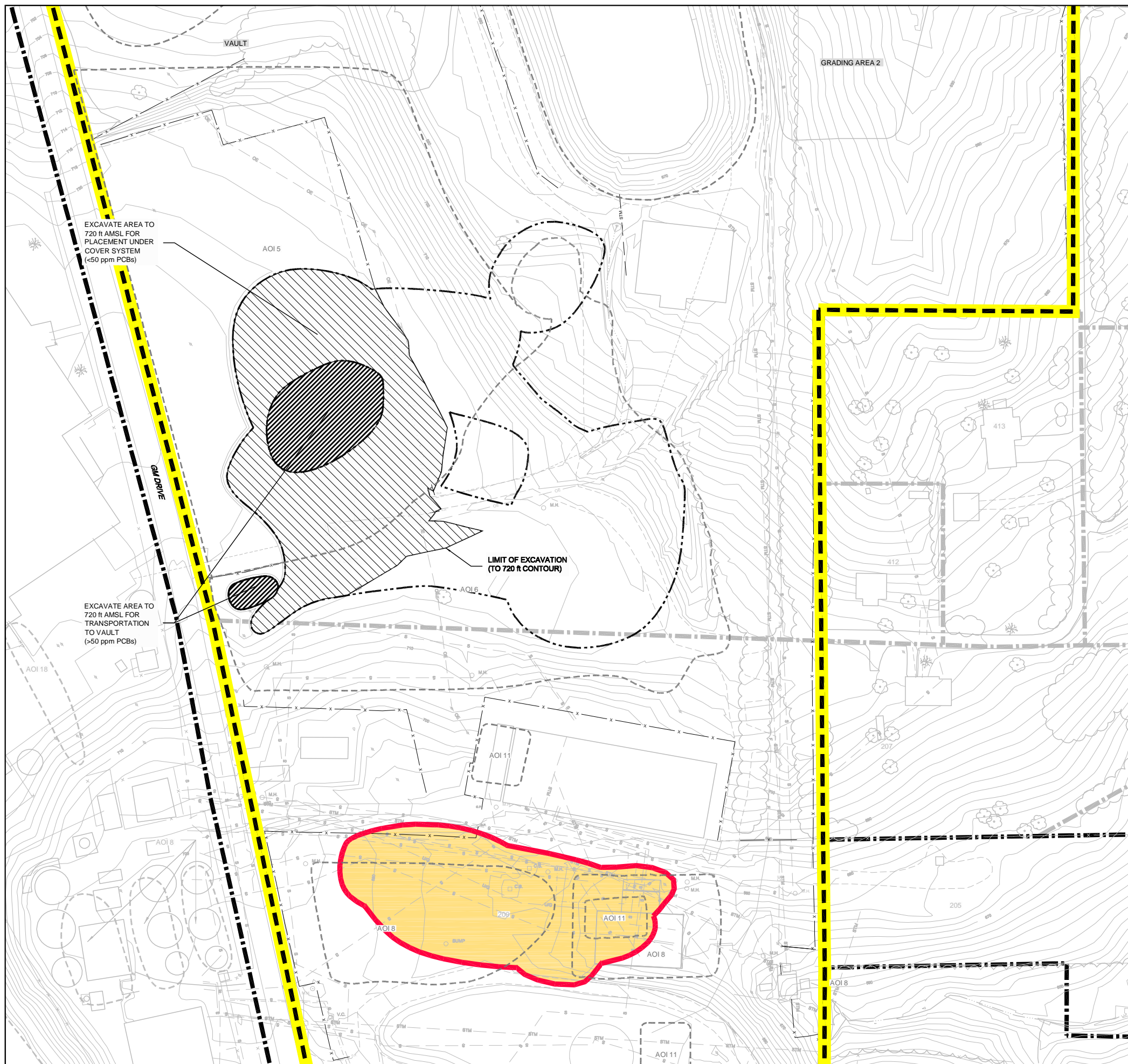
**SITE WORKS II**



**CONESTOGA-ROVERS & ASSOCIATES**

Source Reference: BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001.			
Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006	
Scale: 1" = 100'	Project No: 13968-00	Report No: 162	Drawing No: C-04





**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
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**NOTE:**

PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES

Nº	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

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**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

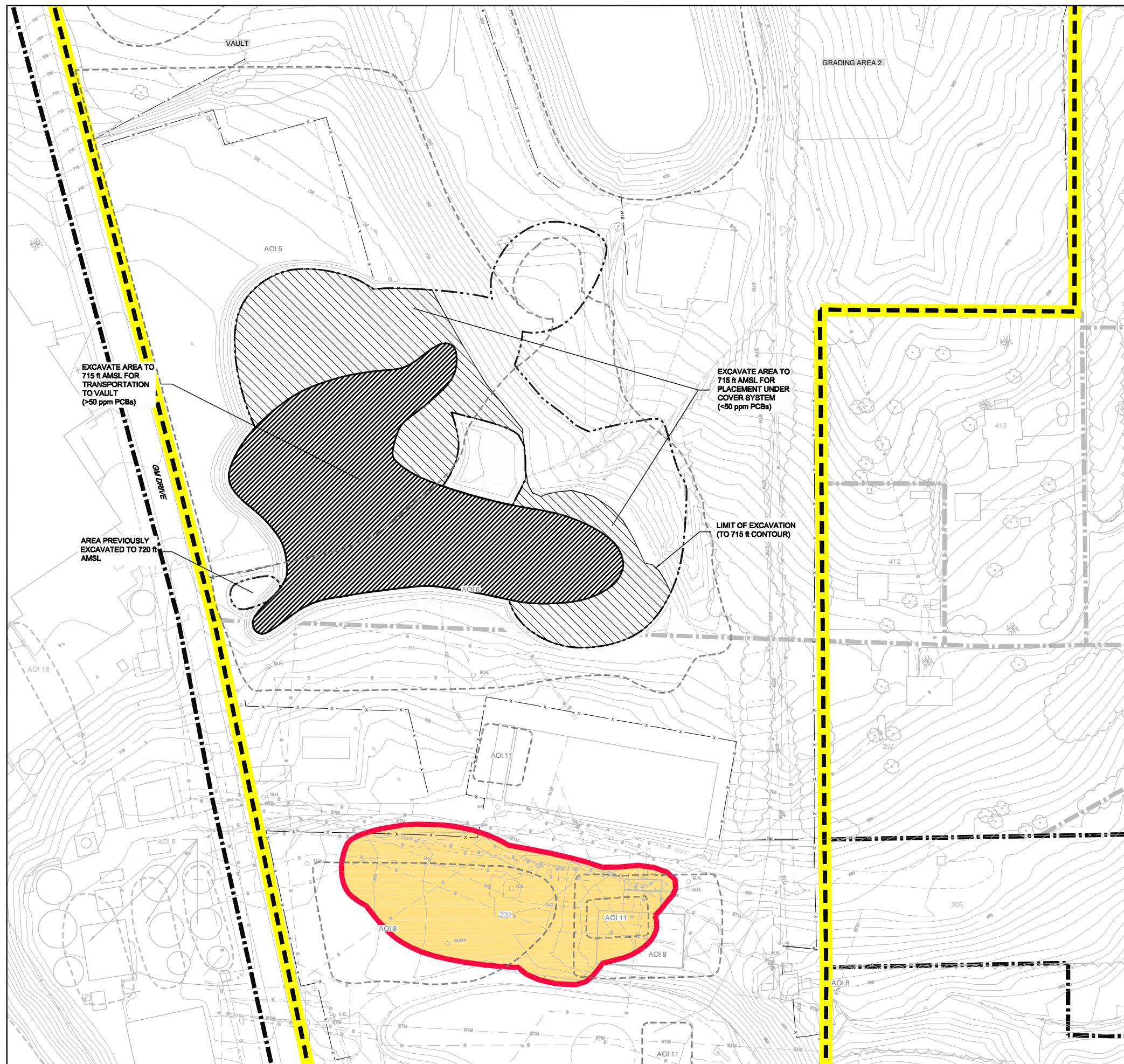
**EXCAVATION PLAN II  
ELEVATIONS 720 - 725 ft AMSL**

**CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project Nº: 13968-00	Report Nº: 162 Drawing Nº: C-05

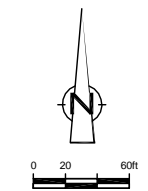




**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES



NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**  
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

--	--

**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

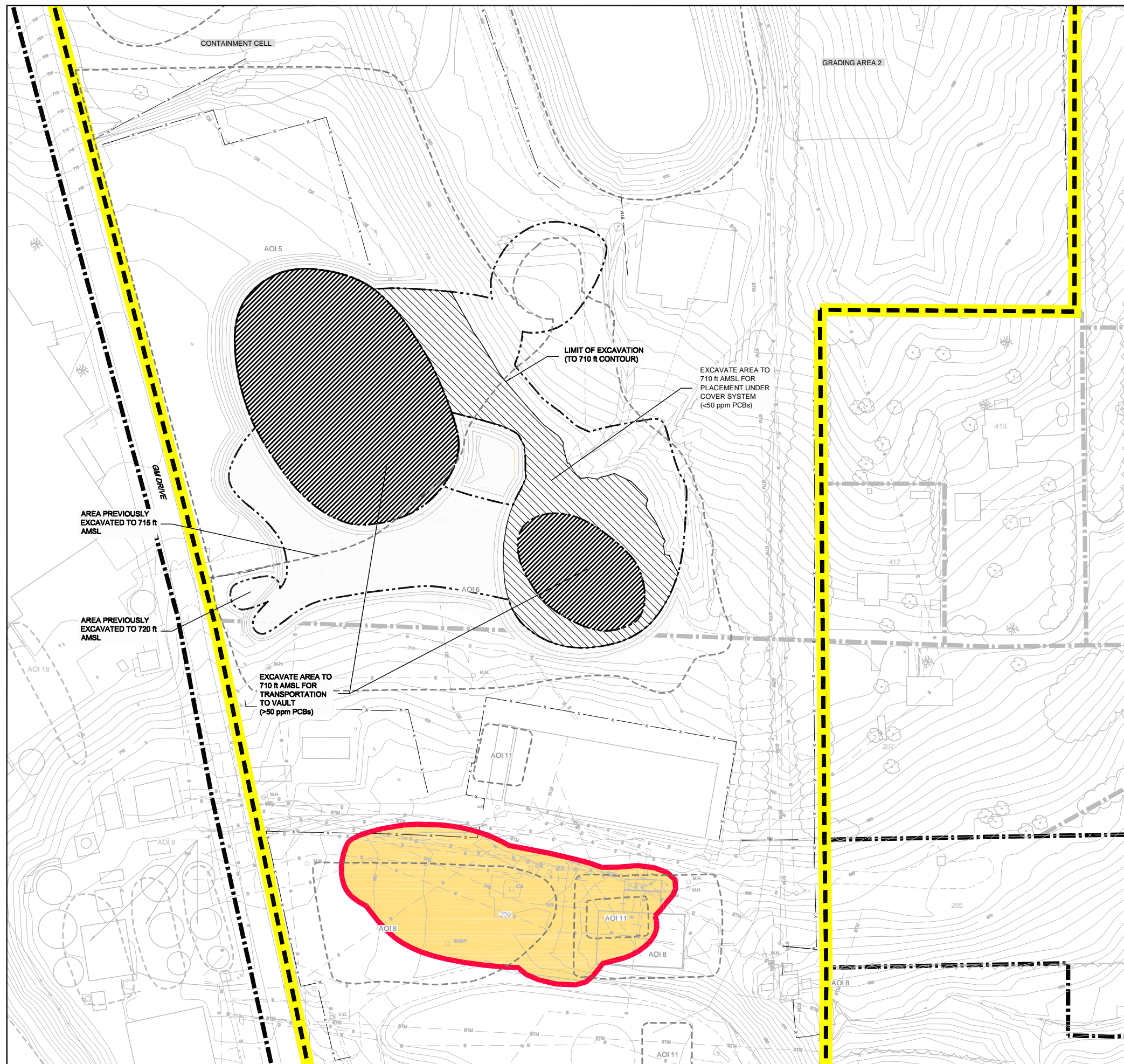
**EXCAVATION PLAN II  
ELEVATIONS 715 - 720 ft AMSL**



Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N°: 13968-00	Report N°: 162 Drawing N°: C-06

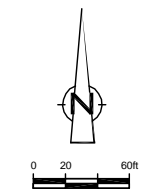




**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES



NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**  
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

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**DRAWING STATUS**

Status	Date	Initial

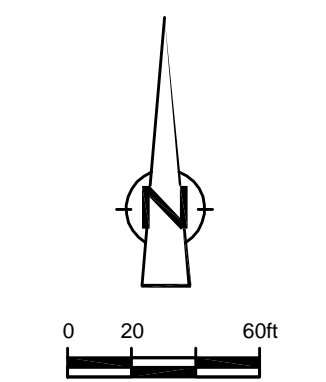
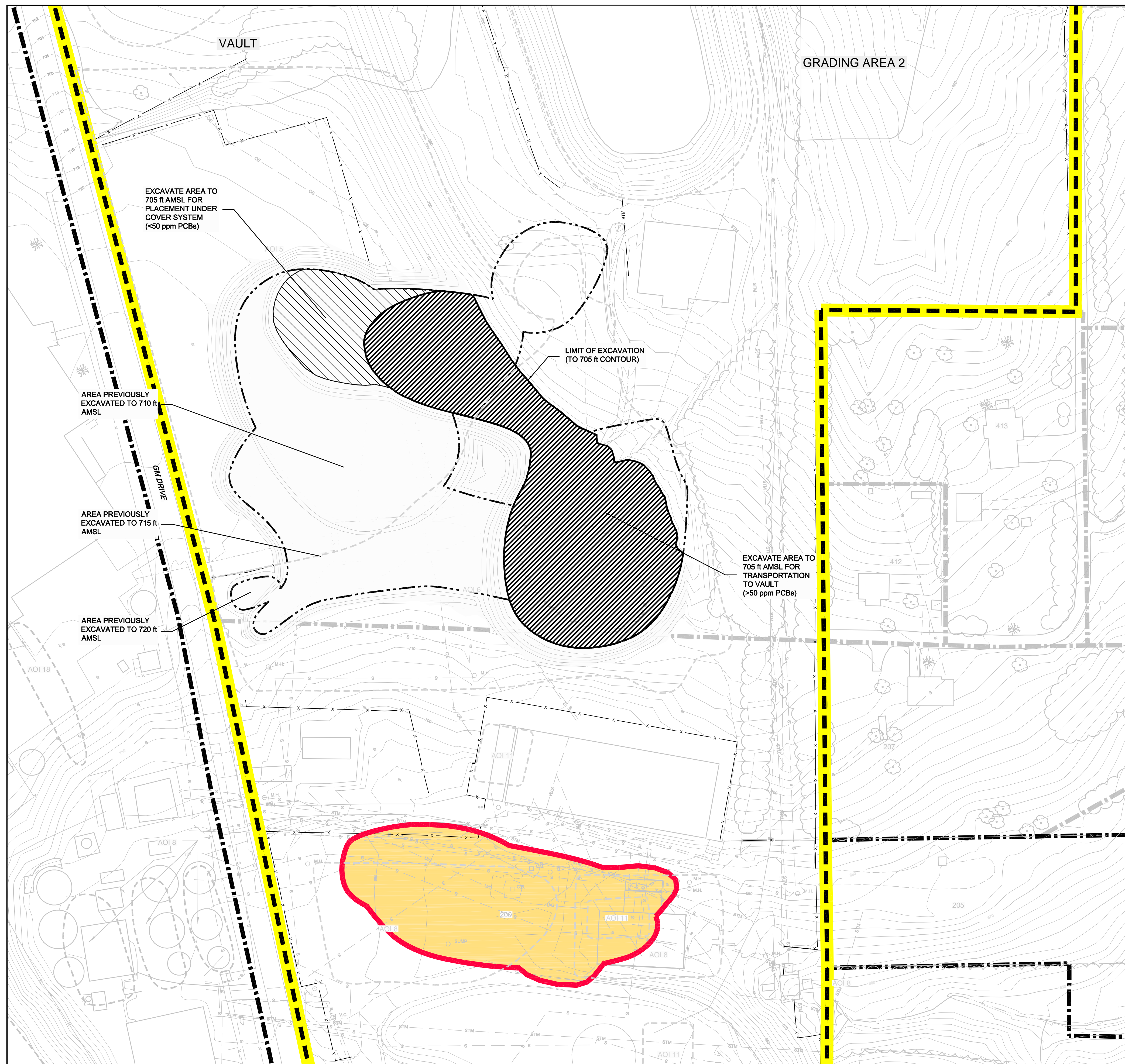
**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**  
OVER 50 mg/kg PCB SOIL REMOVAL  
**EXCAVATION PLAN II  
ELEVATIONS 710 - 715 ft AMSL**



Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N°: 13968-00	Report N°: 162 Drawing N°: C-07





**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES

NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**  
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

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**DRAWING STATUS**

Status	Date	Initial

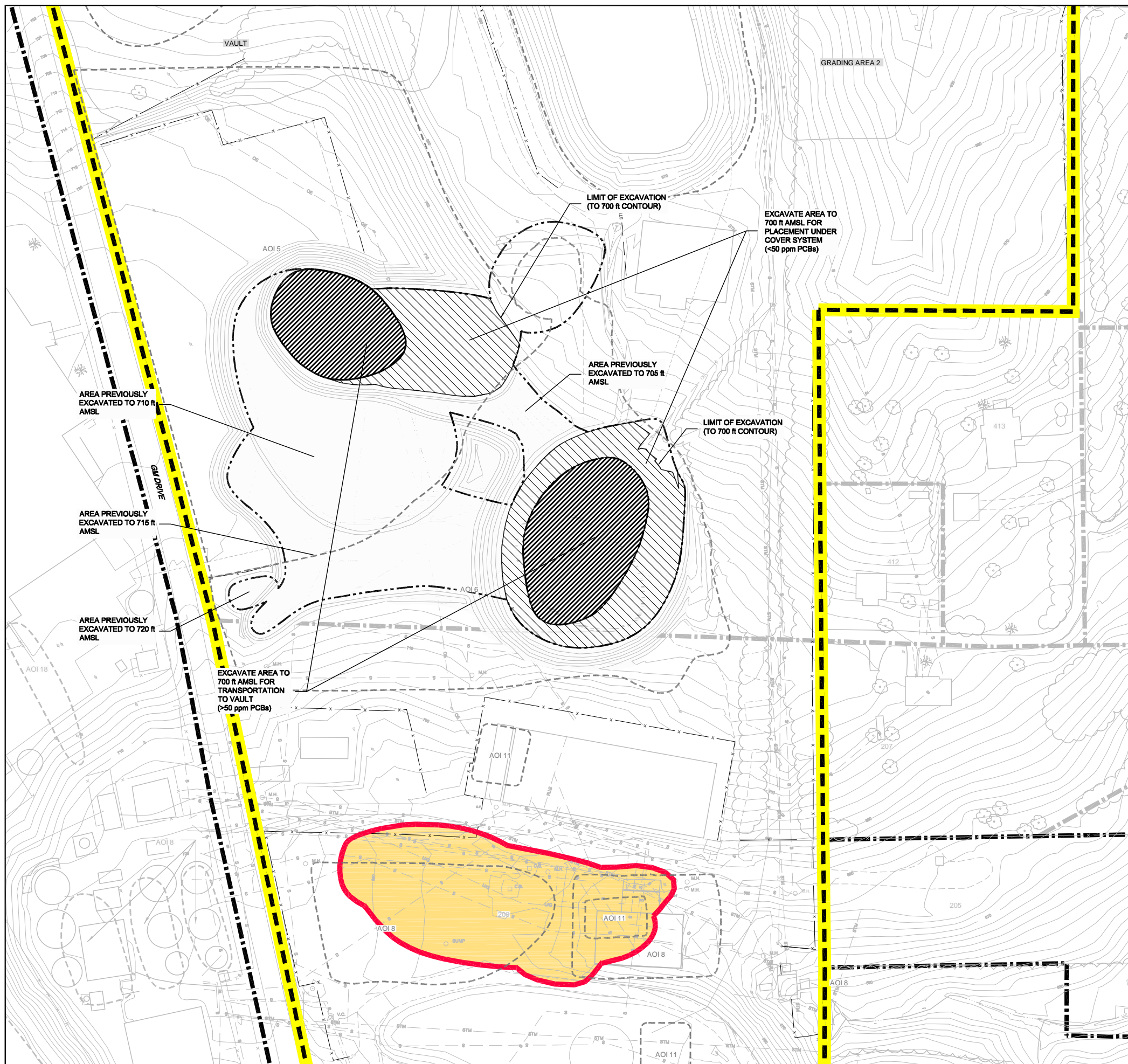
**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**  
OVER 50 mg/kg PCB SOIL REMOVAL  
**EXCAVATION PLAN II  
ELEVATIONS 705 - 710 ft AMSL**



Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N°: 13968-00	Report N°: 162 Drawing N°: C-08

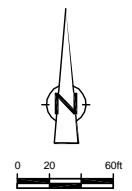




**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES



Nº	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

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**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

**EXCAVATION PLAN II  
ELEVATIONS 700 - 705 ft AMSL**

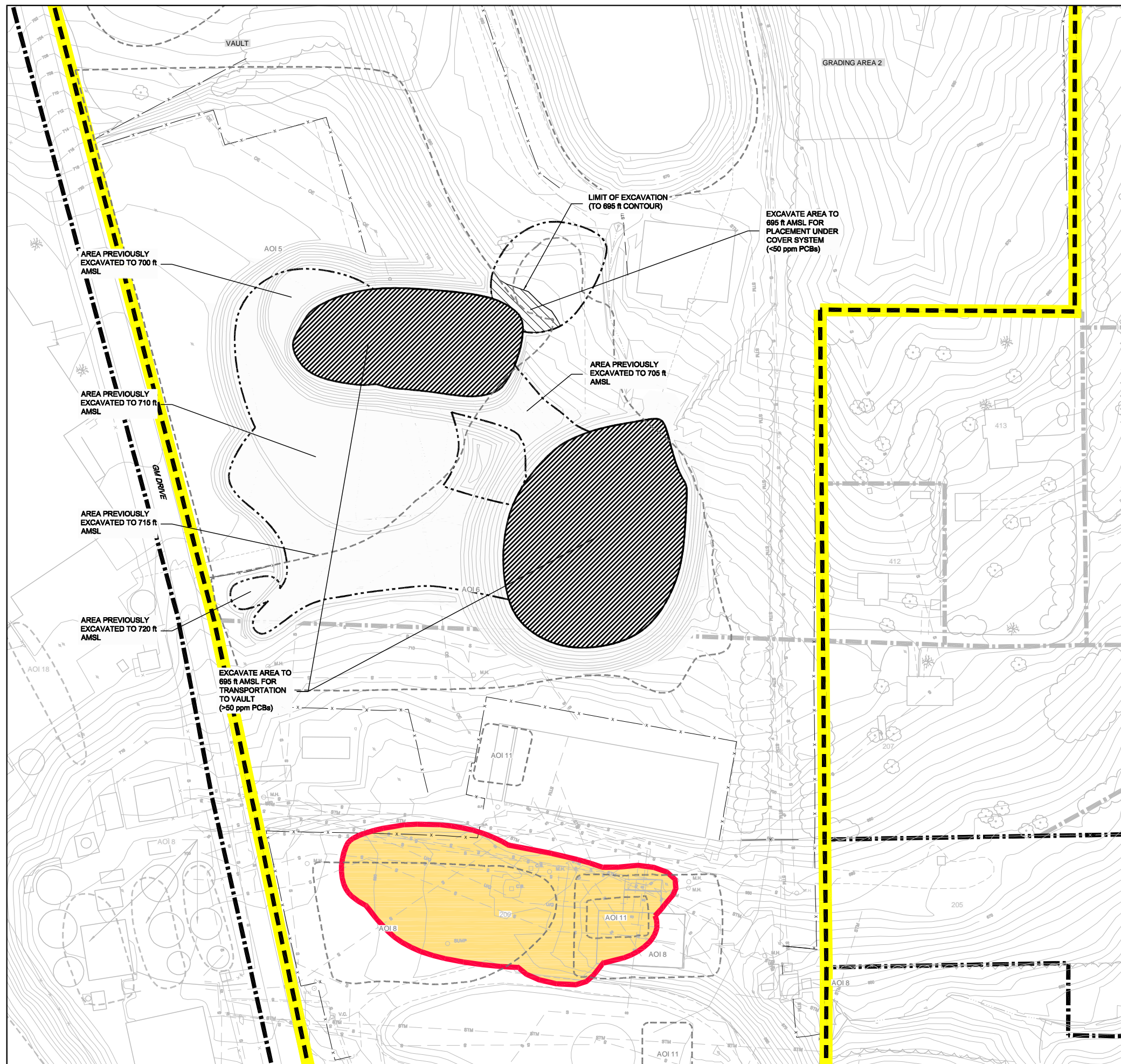
**CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project Nº: 13968-00	Report Nº: 162 Drawing Nº: C-09

13968-00(162)CI-WA07 APR 04/2006

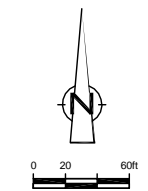




**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES



NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

\_\_\_\_\_

**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

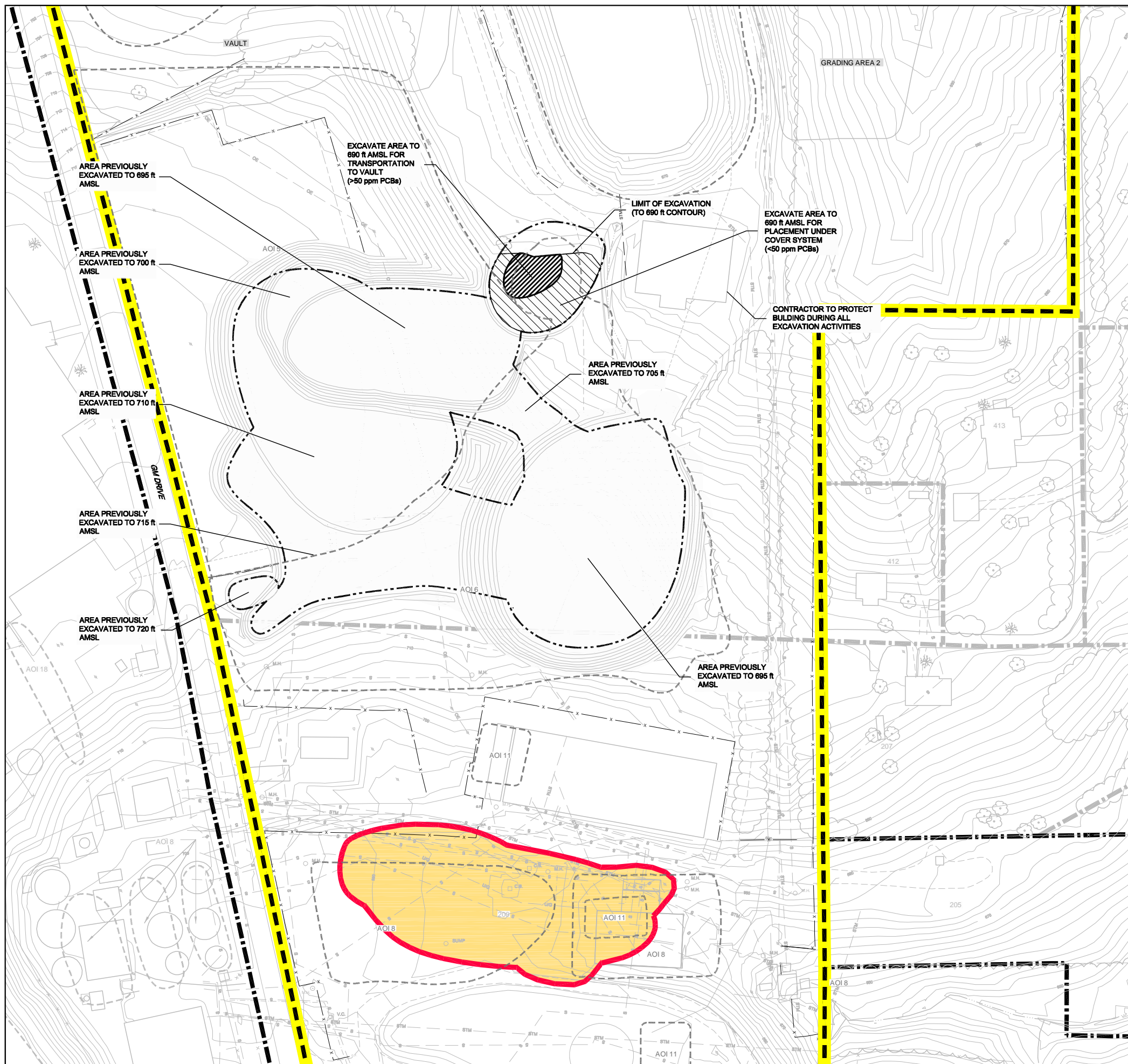
**EXCAVATION PLAN II  
ELEVATIONS 695 - 700 ft AMSL**



Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N°: 13968-00	Report N°: 162 Drawing N°: C-10

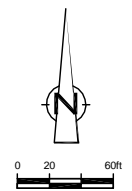




**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES



NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

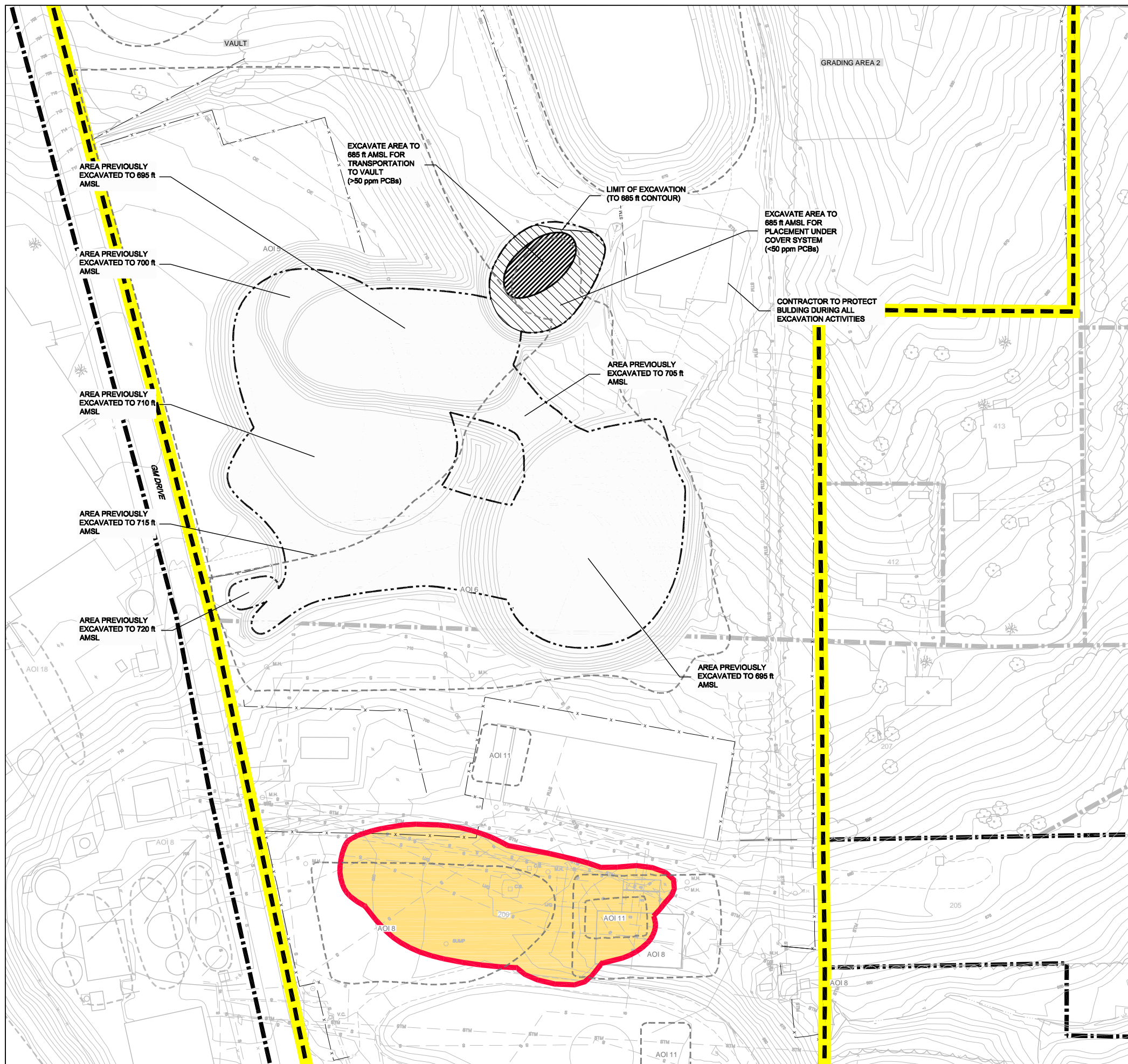
**EXCAVATION PLAN II  
ELEVATIONS 690 - 695 ft AMSL**



Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N°: 13968-00	Report N°: 162
		Drawing N°: C-11

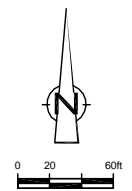




**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES



NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE
- ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

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**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

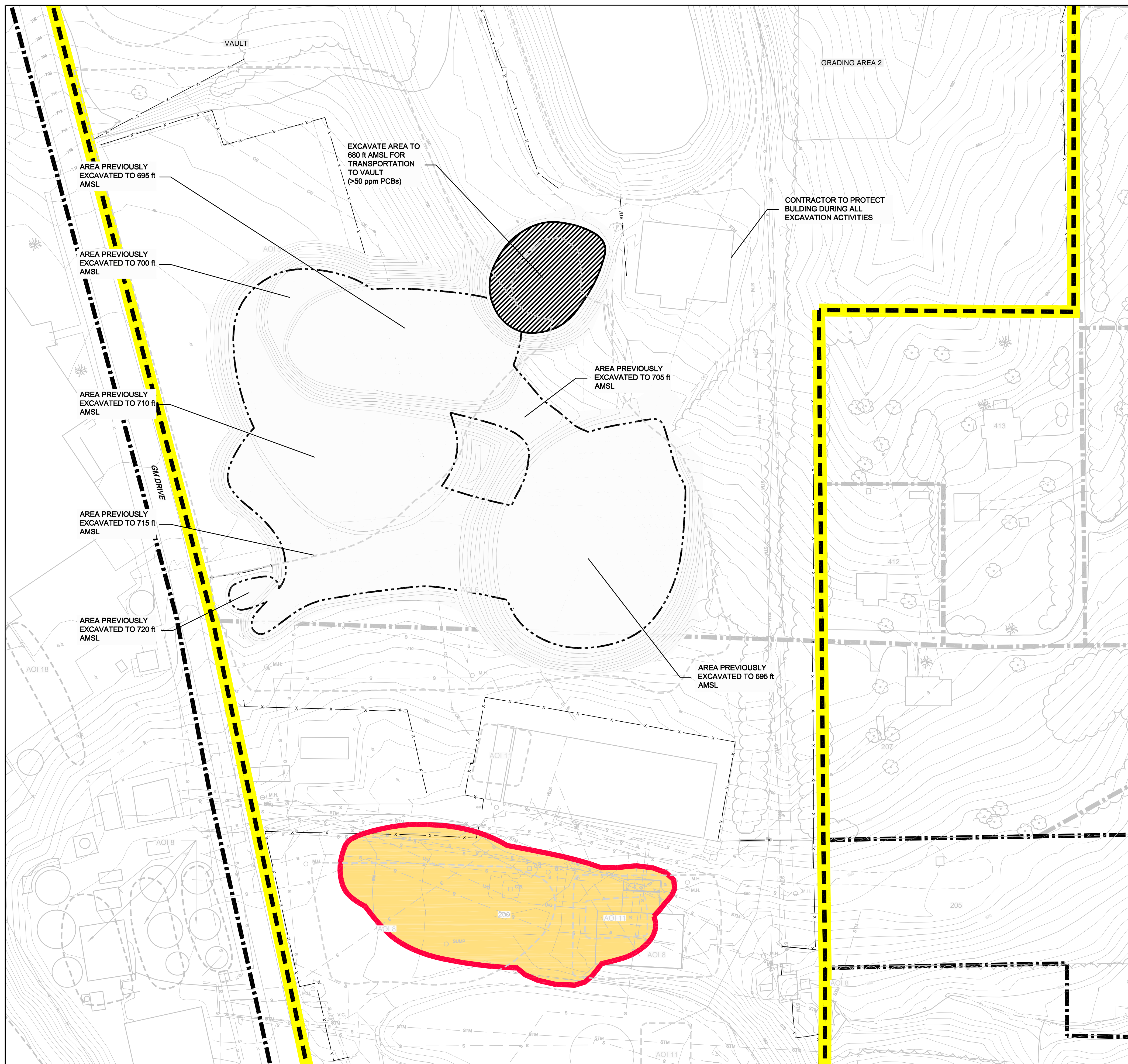
**EXCAVATION PLAN II  
ELEVATIONS 685 - 690 ft AMSL**



Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project No: 13968-00	Report No: 162
		Drawing No: C-12





**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**

PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES

Nº	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

\_\_\_\_\_

**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

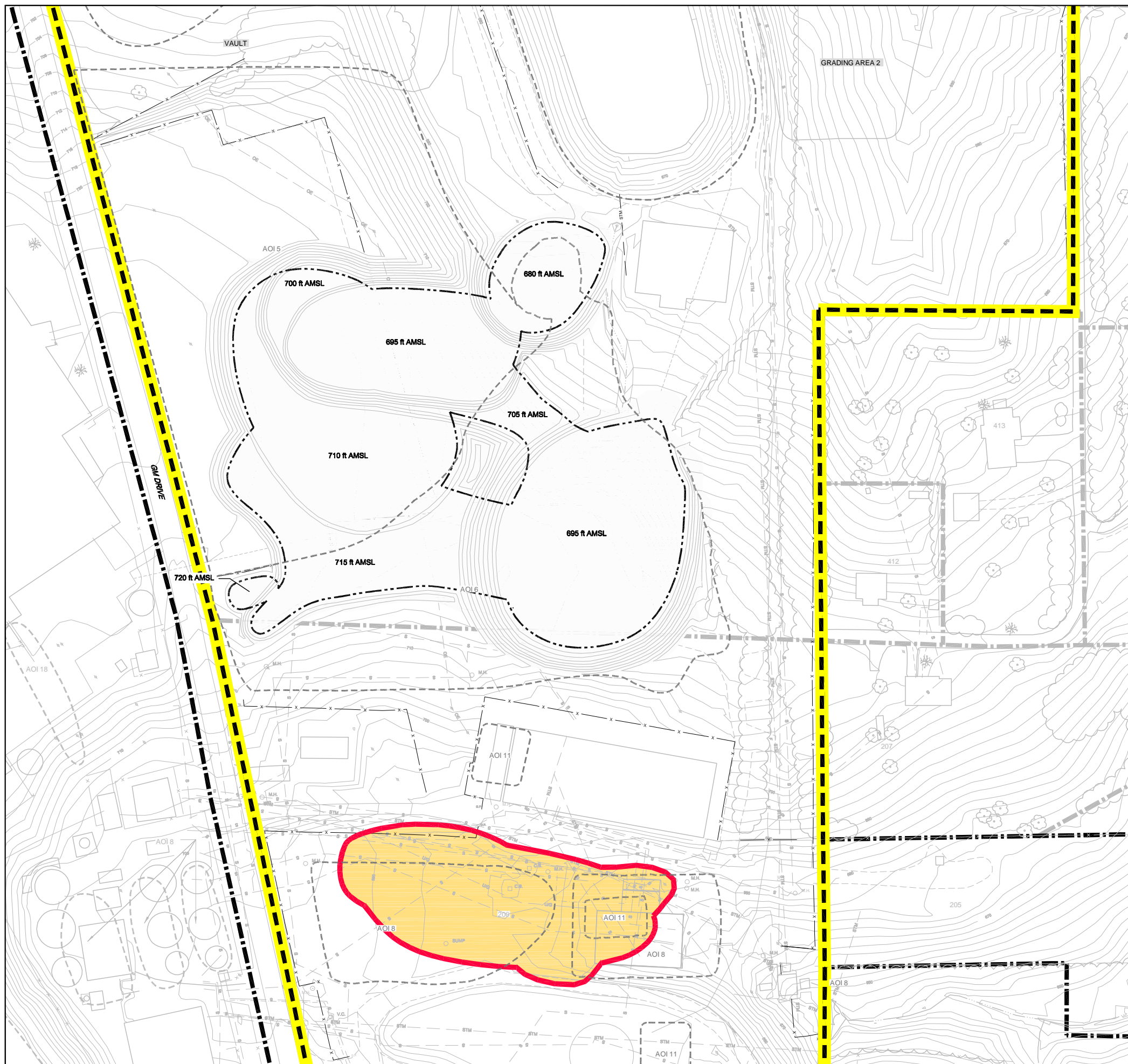
**EXCAVATION PLAN II  
ELEVATIONS 680 - 685 ft AMSL**



Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project Nº: 13968-00	Report Nº: 162
		Drawing Nº: C-13





**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES

NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

--	--

**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

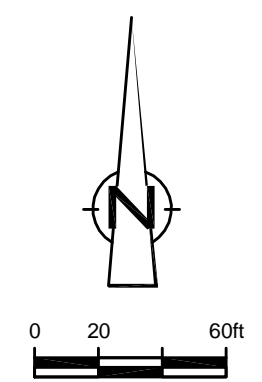
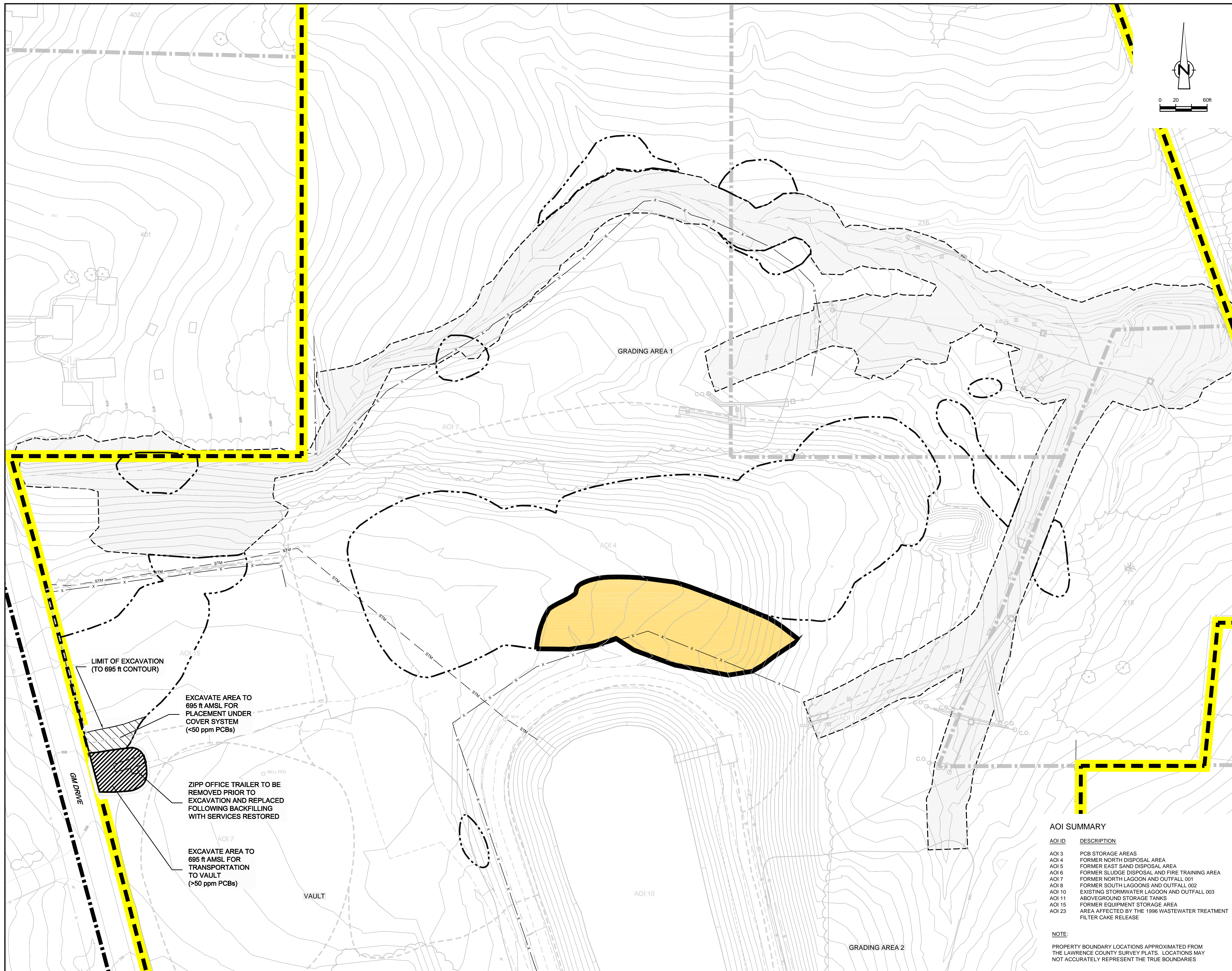
**EXCAVATION PLAN II  
FINAL EXCAVATION ELEVATIONS**



Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project No: 13968-00	Report No: 162
		Drawing No: C-14





NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SLUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**  
 THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
 BEDFORD, INDIANA**  
 OVER 50 mg/kg PCB SOIL REMOVAL  
**EXCAVATION PLAN I  
 ELEVATIONS 695 - 700 ft AMSL**



Source Reference:  
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

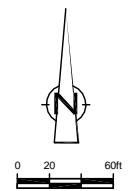
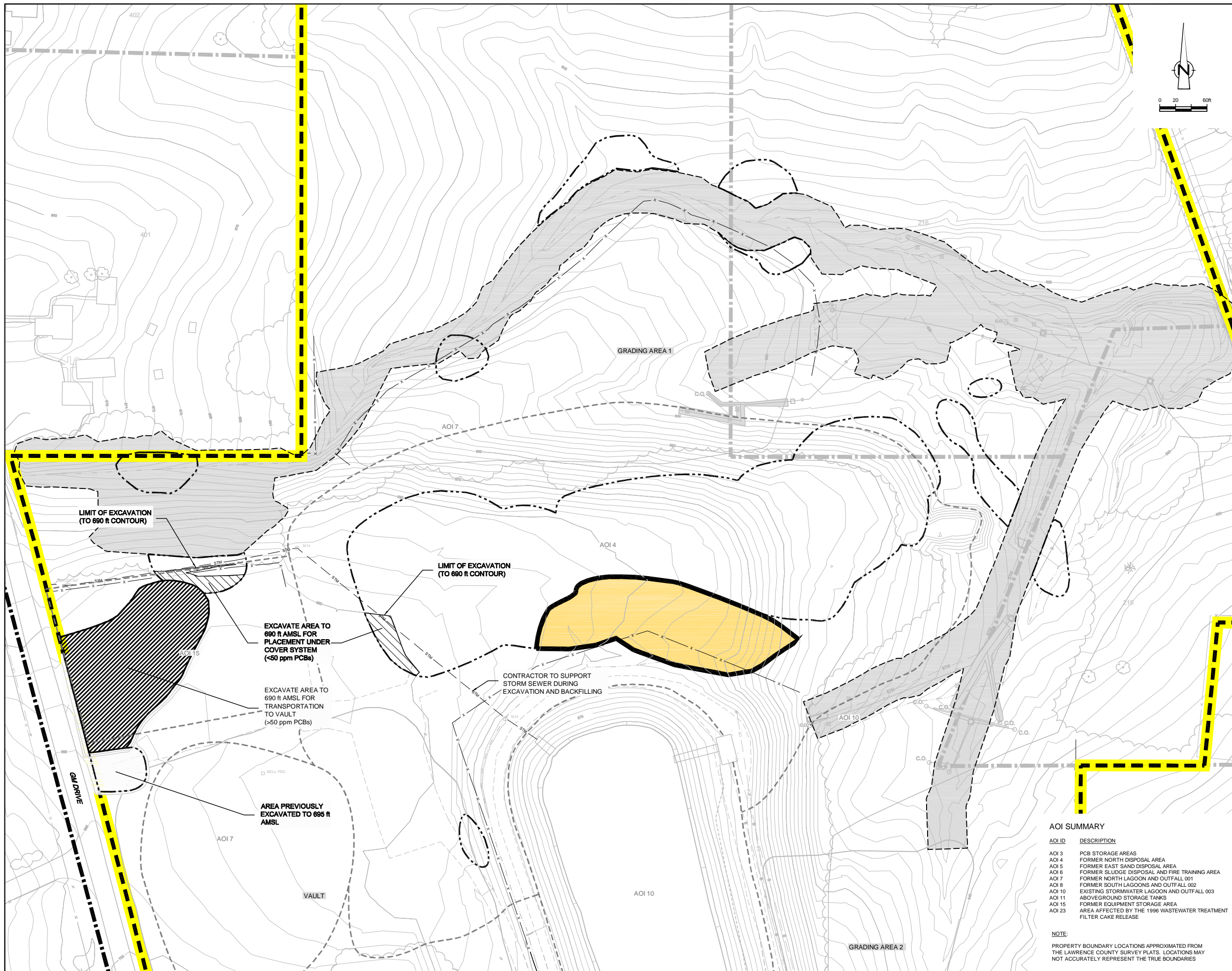
Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N°: 13968-00	Report N°: 162
		Drawing N°: C-15

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1998 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
 PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES





NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

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**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**  
 OVER 50 mg/kg PCB SOIL REMOVAL  
**EXCAVATION PLAN I**  
 ELEVATIONS 690 - 695 ft AMSL



**AOI SUMMARY**

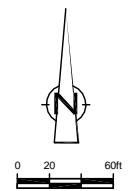
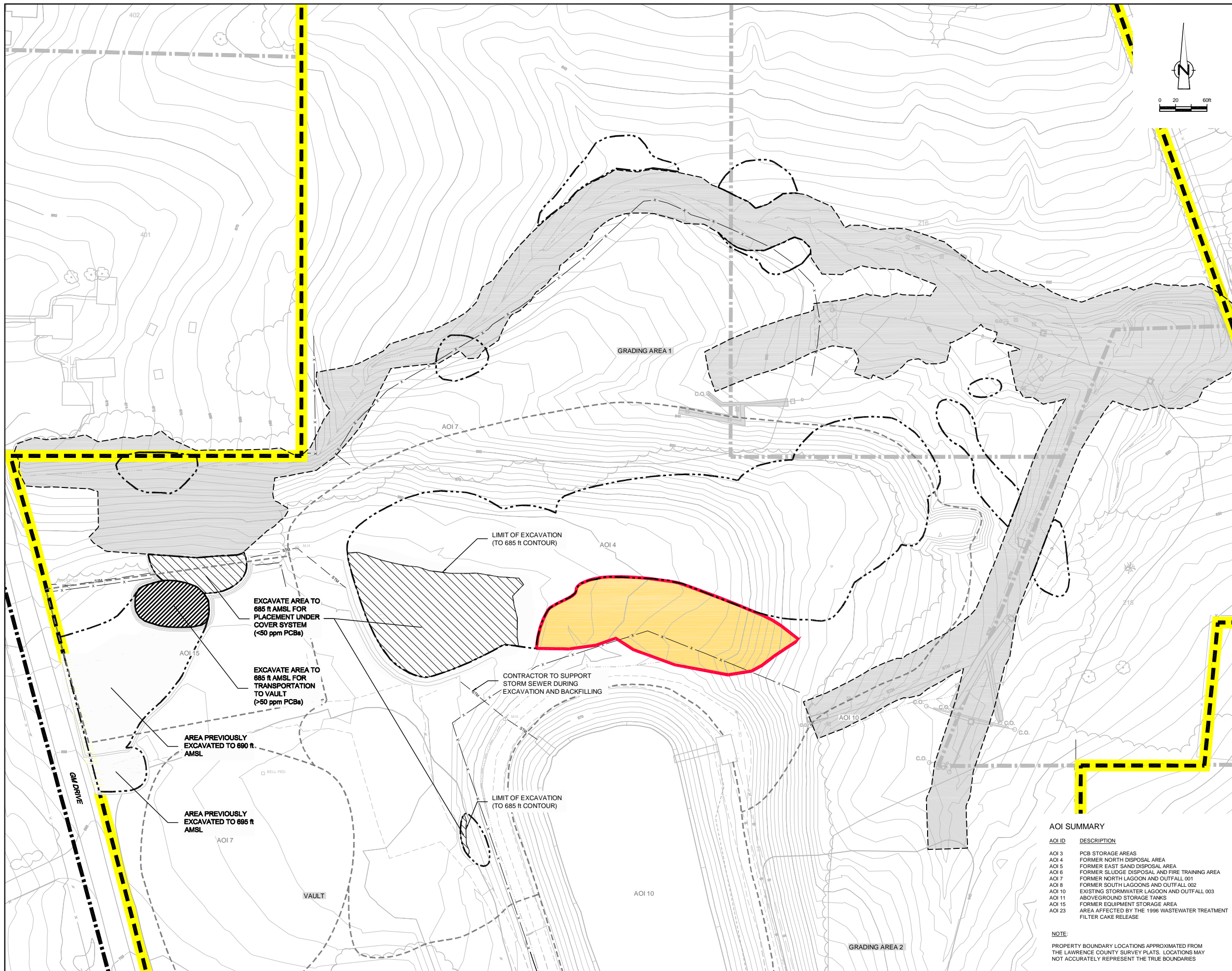
AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
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AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
 PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES

Source Reference:  
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N°: 13968-00	Report N°: 162
		Drawing N°: C-16





NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**  
 THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
 BEDFORD, INDIANA**  
 OVER 50 mg/kg PCB SOIL REMOVAL  
 EXCAVATION PLAN I  
 ELEVATIONS 685 - 690 ft AMSL



Source Reference:  
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

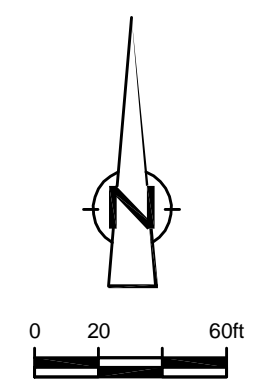
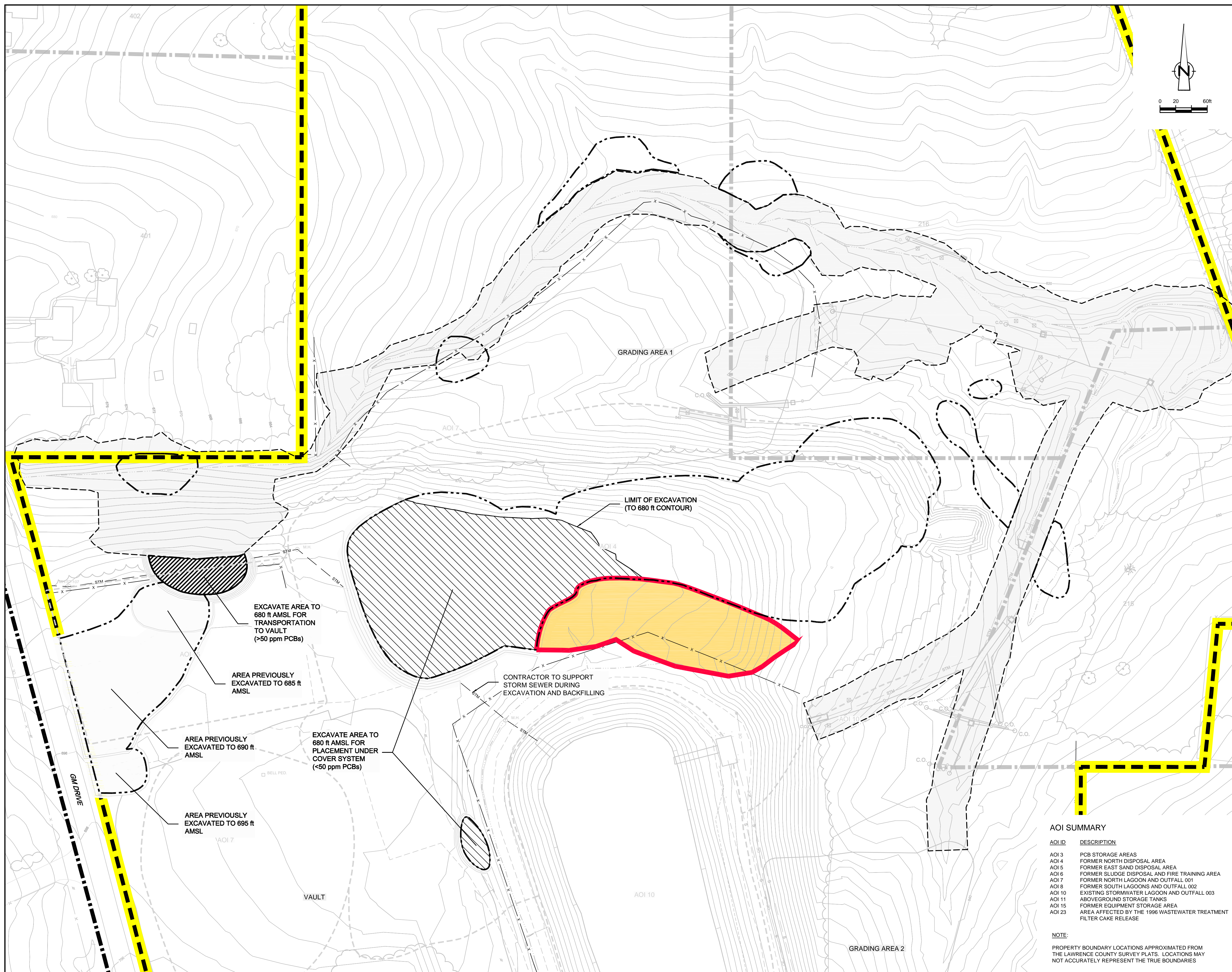
Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N°: 13968-00	Report N°: 162
		Drawing N°: C-17

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
 PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES





Nº	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE
- ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

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**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

**EXCAVATION PLAN I  
ELEVATIONS 680 - 685 ft AMSL**



Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

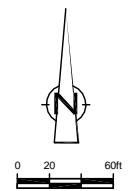
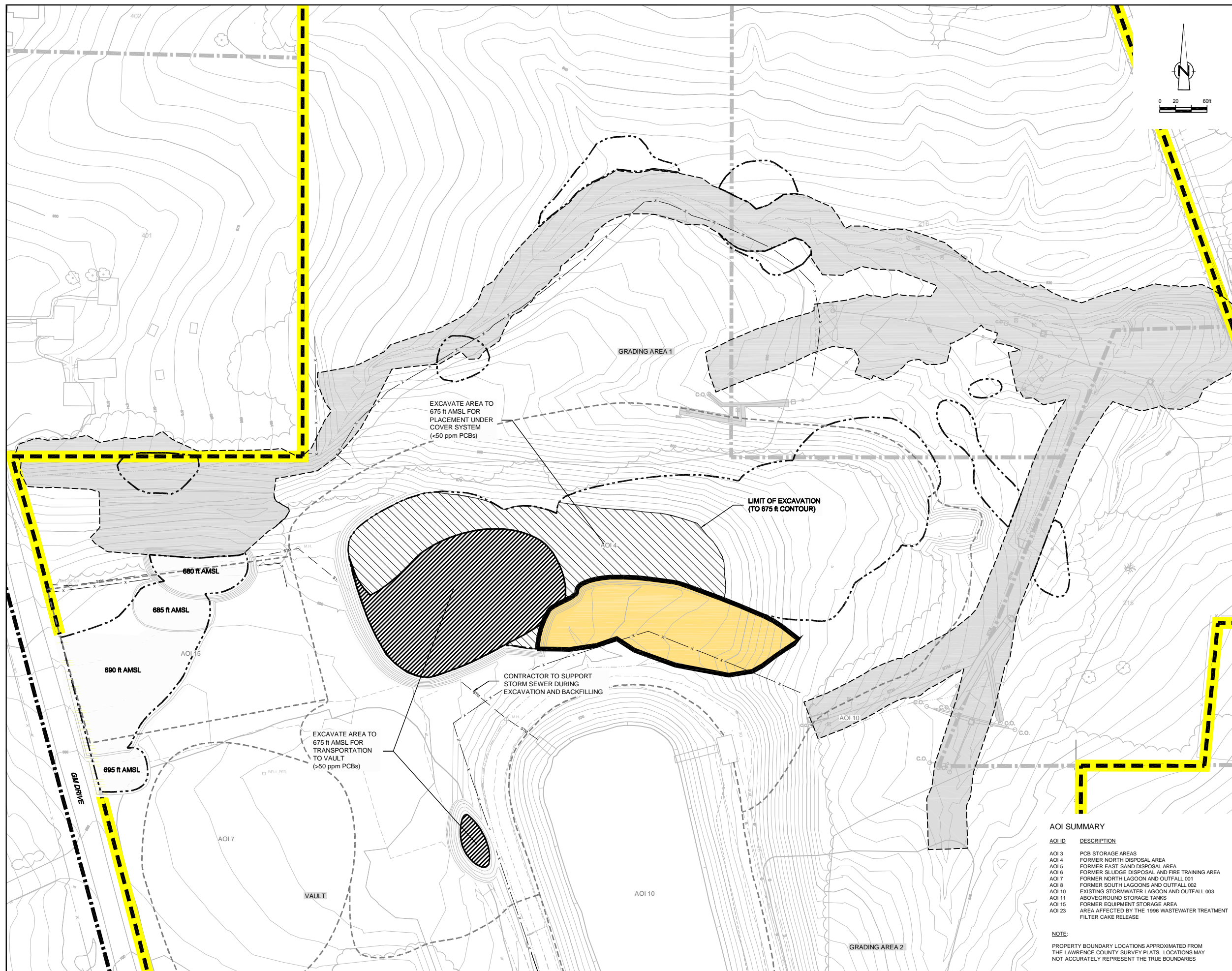
Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project Nº: 13968-00	Report Nº: 162
		Drawing Nº: C-18

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1998 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES





NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA

OVER 50 mg/kg PCB SOIL REMOVAL

EXCAVATION PLAN I  
ELEVATIONS 675 - 680 ft AMSL

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES

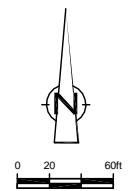
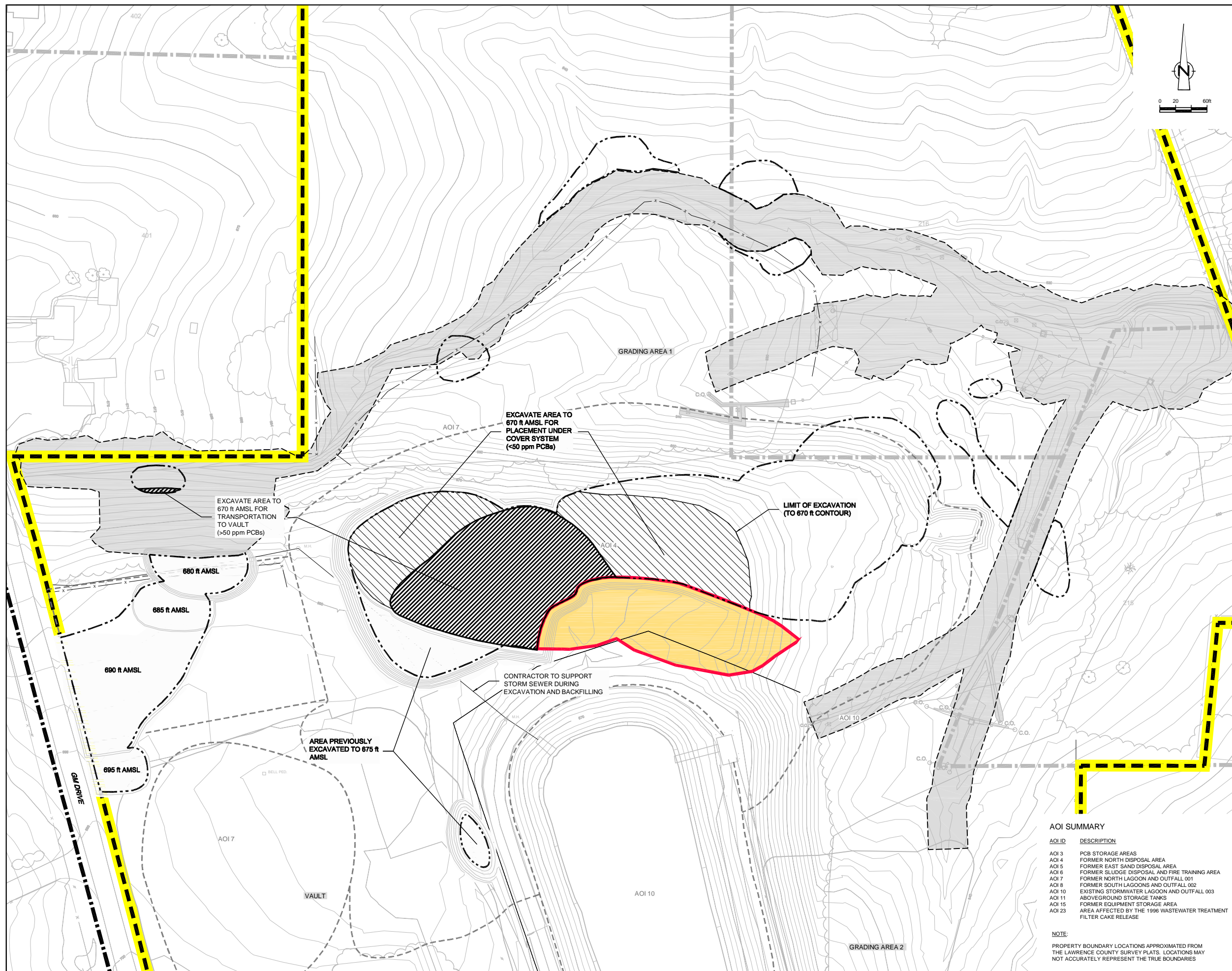
**CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N°: 13968-00	Report N°: 162
		Drawing N°: C-19

13968-00(162)CI-WA012 APR 04/2006





NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA

OVER 50 mg/kg PCB SOIL REMOVAL

**EXCAVATION PLAN I**  
ELEVATIONS 670 - 675 ft AMSL

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES

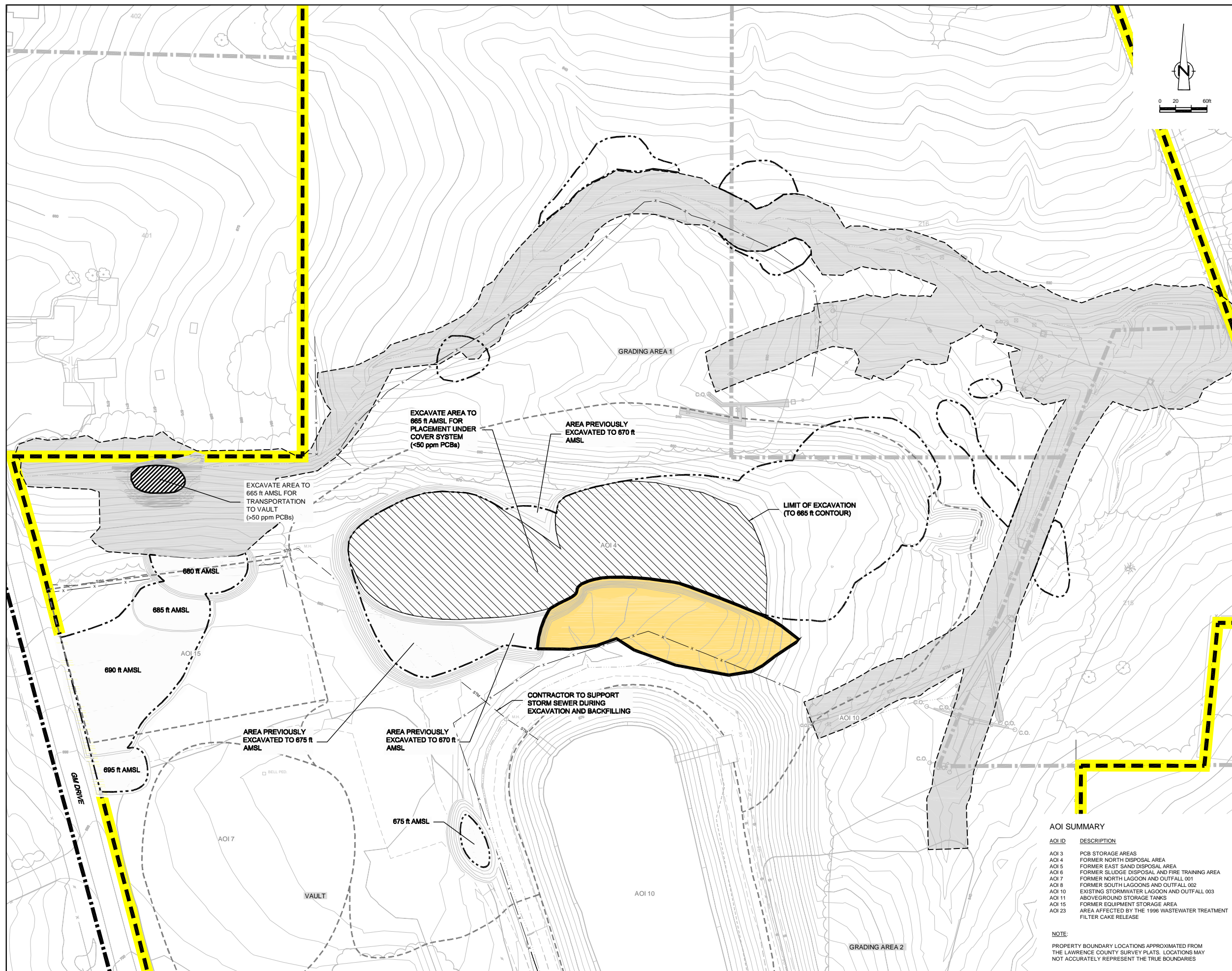
**CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N <sup>o</sup> : 13968-00	Report N <sup>o</sup> : 162
		Drawing N <sup>o</sup> : C-20

13968-00(162)CI-WA013 APR 04/2006





NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

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**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

**EXCAVATION PLAN I  
ELEVATIONS 665- 670 ft AMSL**

**CRA CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

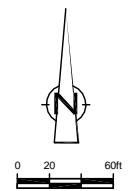
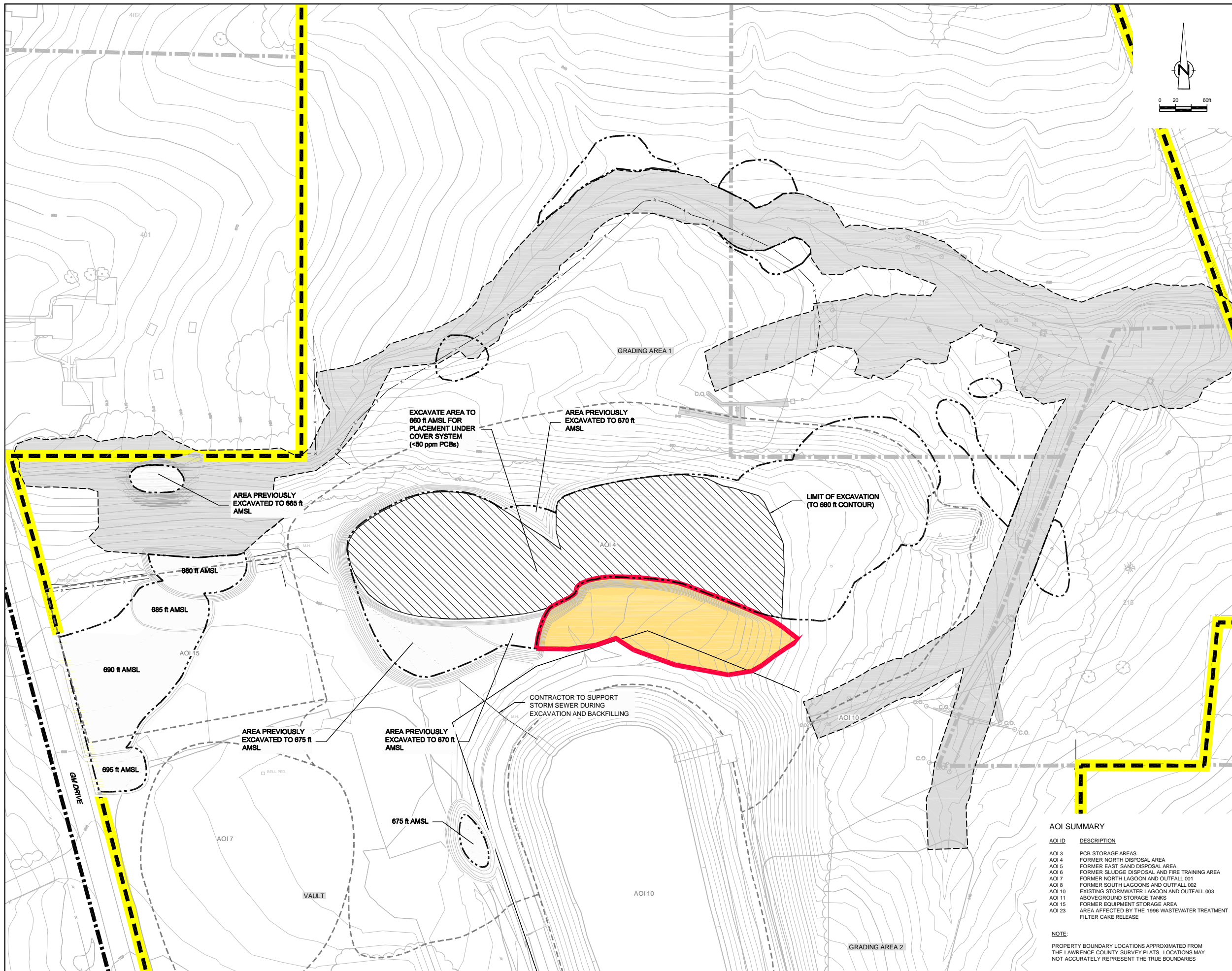
Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N°: 13968-00	Report N°: 162
		Drawing N°: C-21

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES





NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

\_\_\_\_\_

**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

**EXCAVATION PLAN I  
ELEVATIONS 660 - 665 ft AMSL**



Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

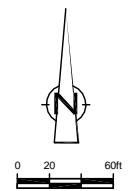
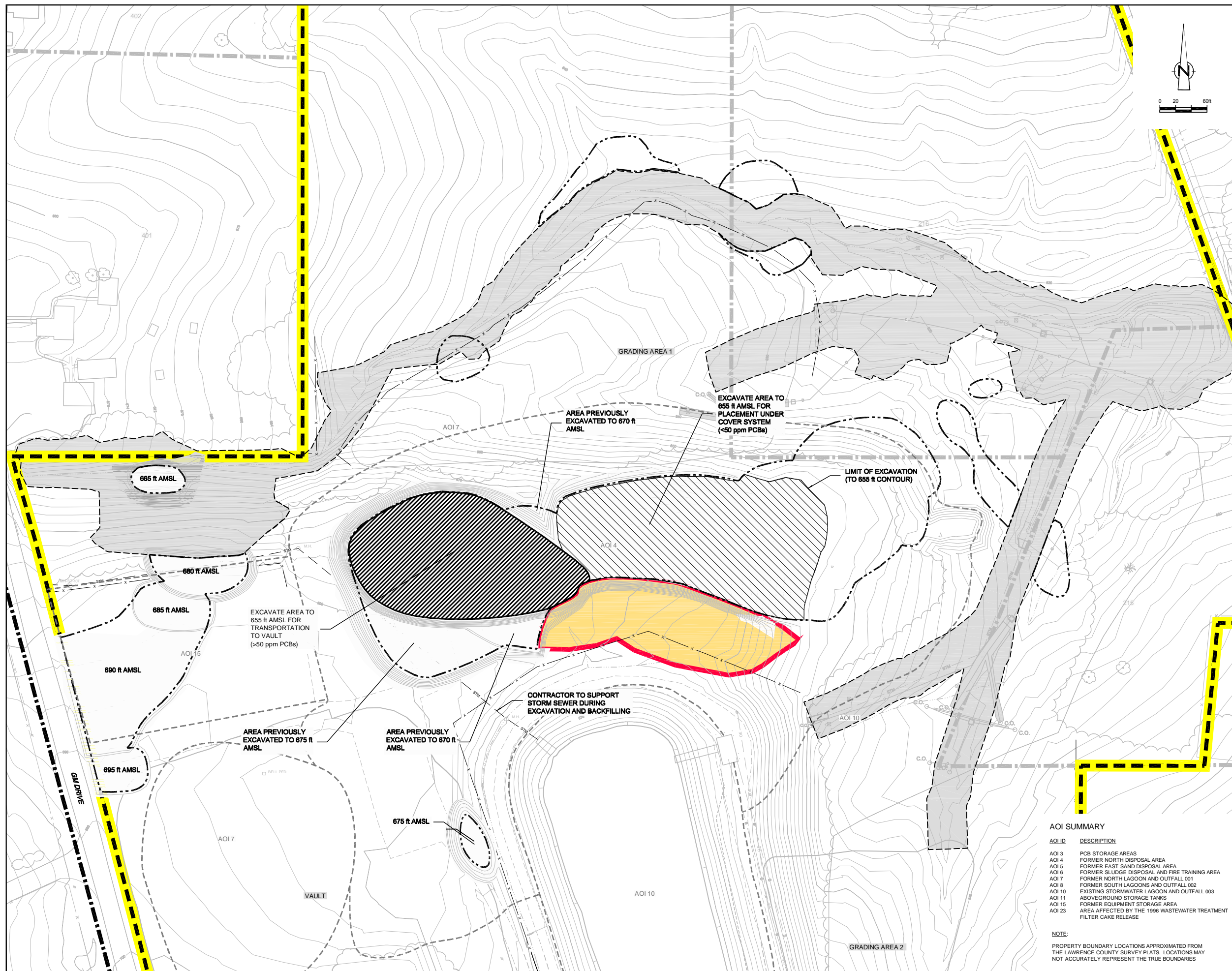
Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N°: 13968-00	Report N°: 162
		Drawing N°: C-22

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES





NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**  
 THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved \_\_\_\_\_

**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
 BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

**EXCAVATION PLAN I  
 ELEVATIONS 655 - 660 ft AMSL**



Source Reference:  
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

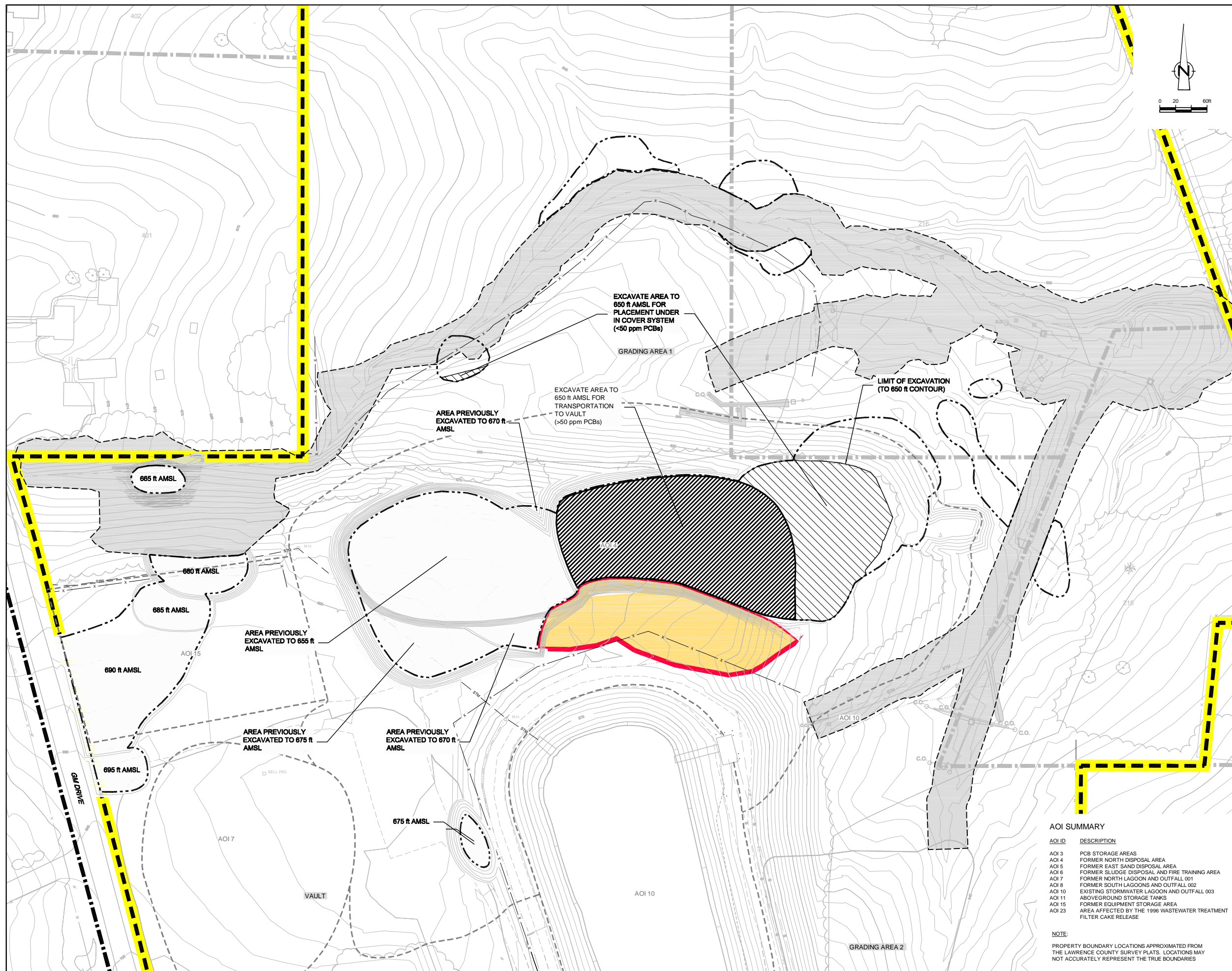
Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project No: 13968-00	Report No: 162
		Drawing No: C-23

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
 PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES





NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

--	--	--

**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

**EXCAVATION PLAN I  
ELEVATIONS 650 - 655 ft AMSL**



Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

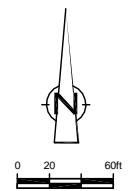
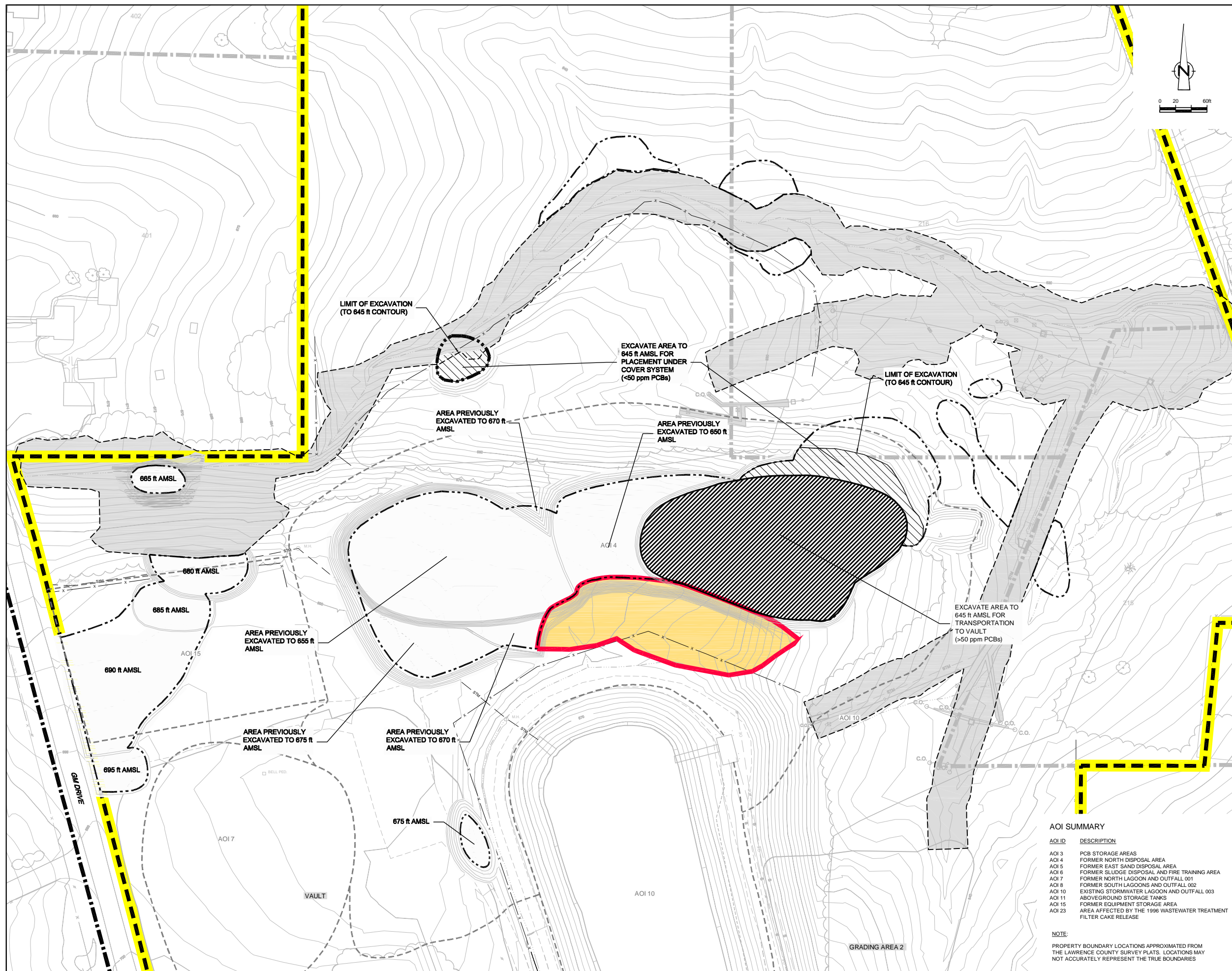
Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N°: 13968-00	Report N°: 162
		Drawing N°: C-24

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES





NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**  
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

**EXCAVATION PLAN I  
ELEVATIONS 645 - 650 ft AMSL**



Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

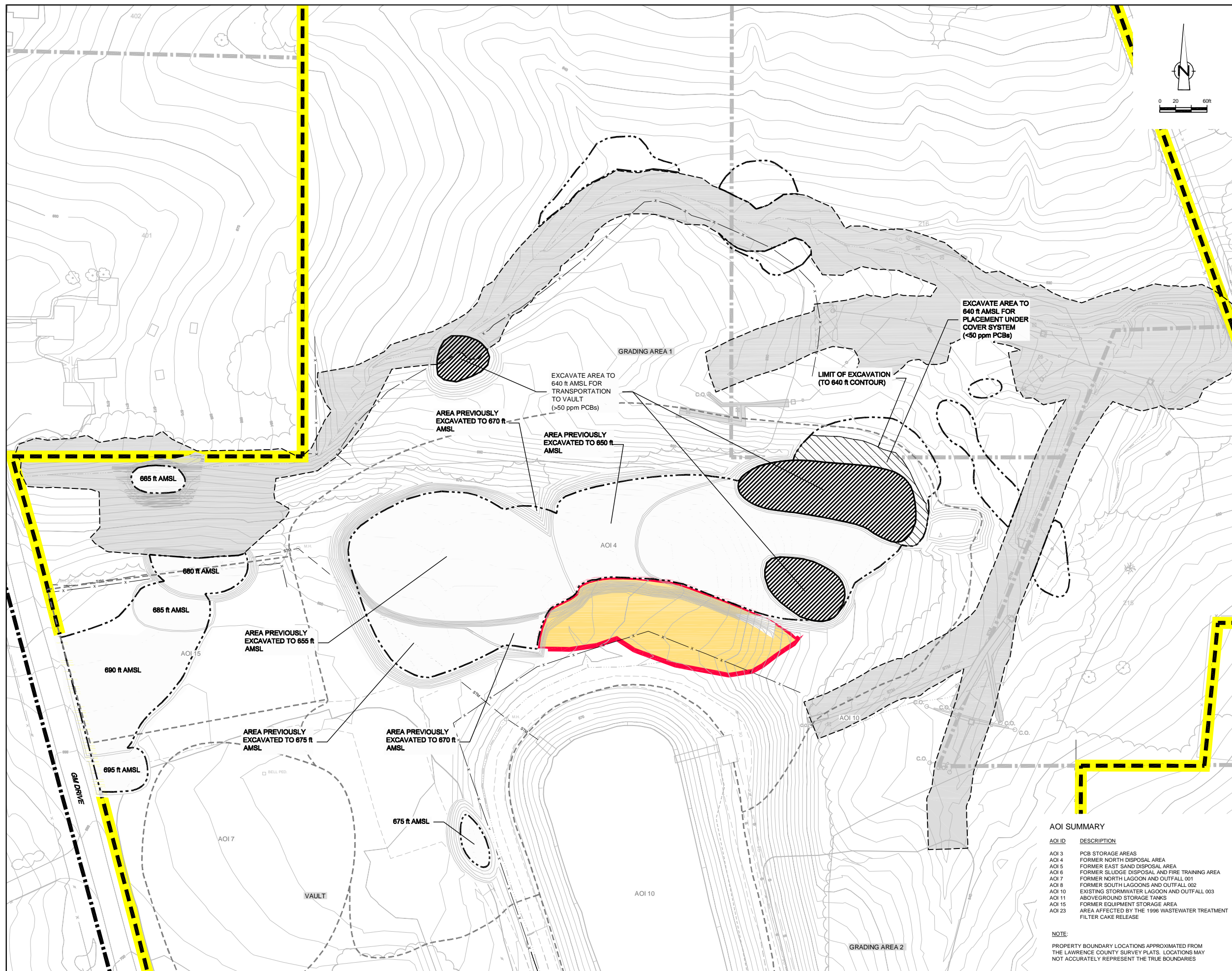
Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N°: 13968-00	Report N°: 162
		Drawing N°: C-25

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES





NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

**EXCAVATION PLAN I  
ELEVATIONS 640 - 645 ft AMSL**

**CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

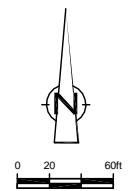
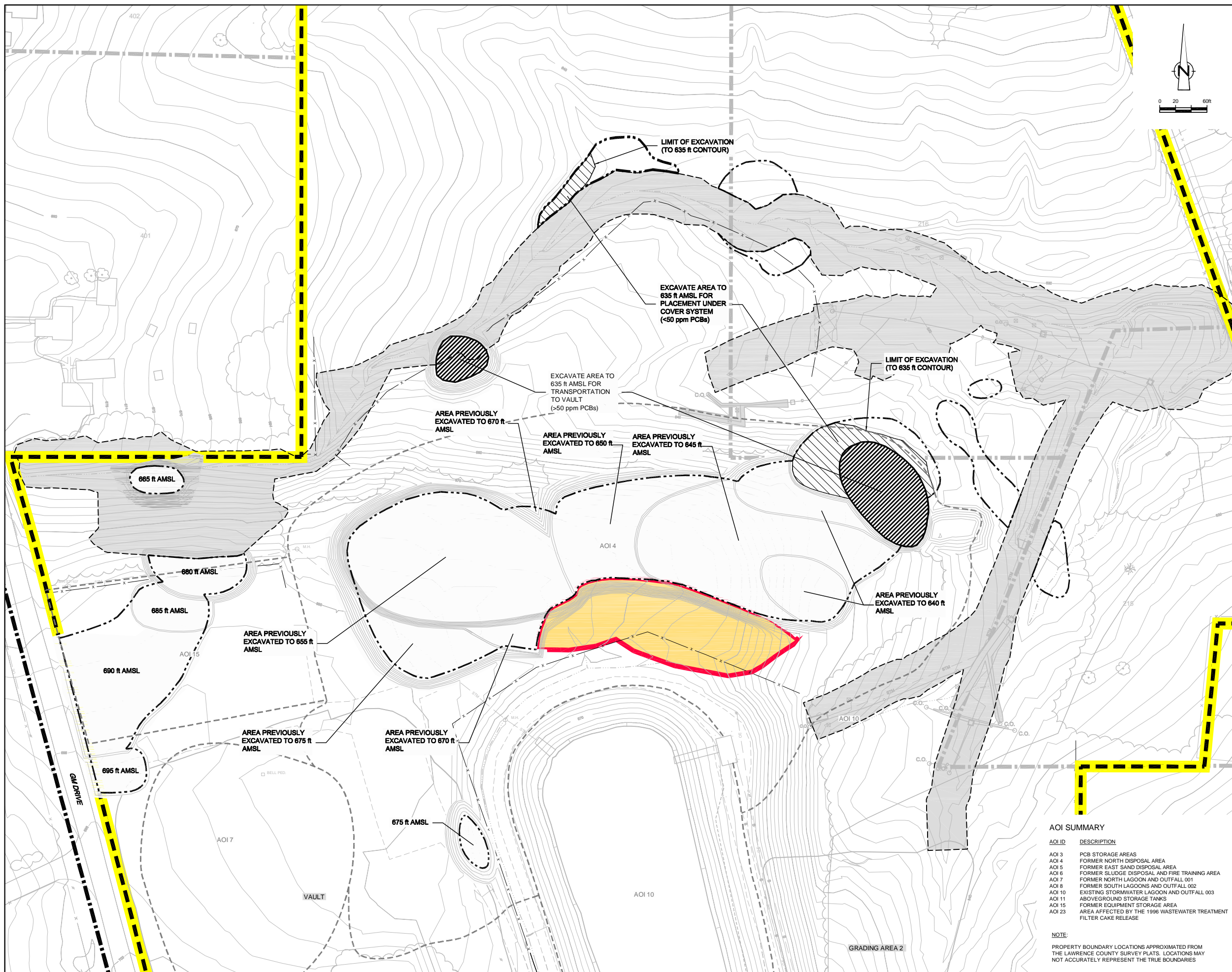
Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N°: 13968-00	Report N°: 162
		Drawing N°: C-26

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES





NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**  
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved \_\_\_\_\_

**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**  
**OVER 50 mg/kg PCB SOIL REMOVAL**  
**EXCAVATION PLAN I**  
**ELEVATIONS 635- 640 ft AMSL**



Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

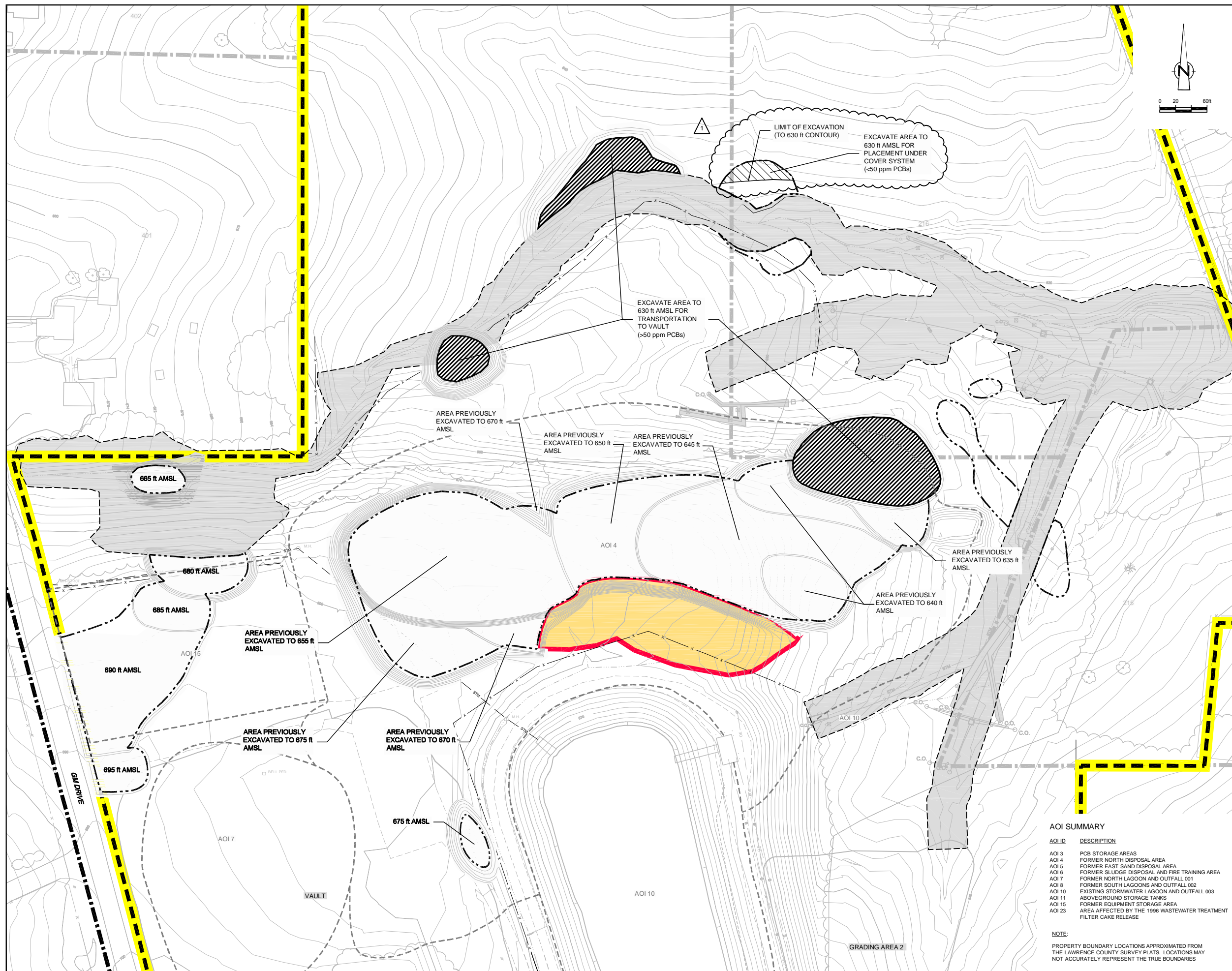
Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N°: 13968-00	Report N°: 162
		Drawing N°: C-27

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES





NO	Revision	Date	Initial
1	CORRECTION TO EXCAVATION DEPTH	AUG. 8, 2006	PF

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

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**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**  
 OVER 50 mg/kg PCB SOIL REMOVAL  
**EXCAVATION PLAN I**  
 ELEVATIONS 630 - 635 ft AMSL



Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

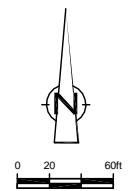
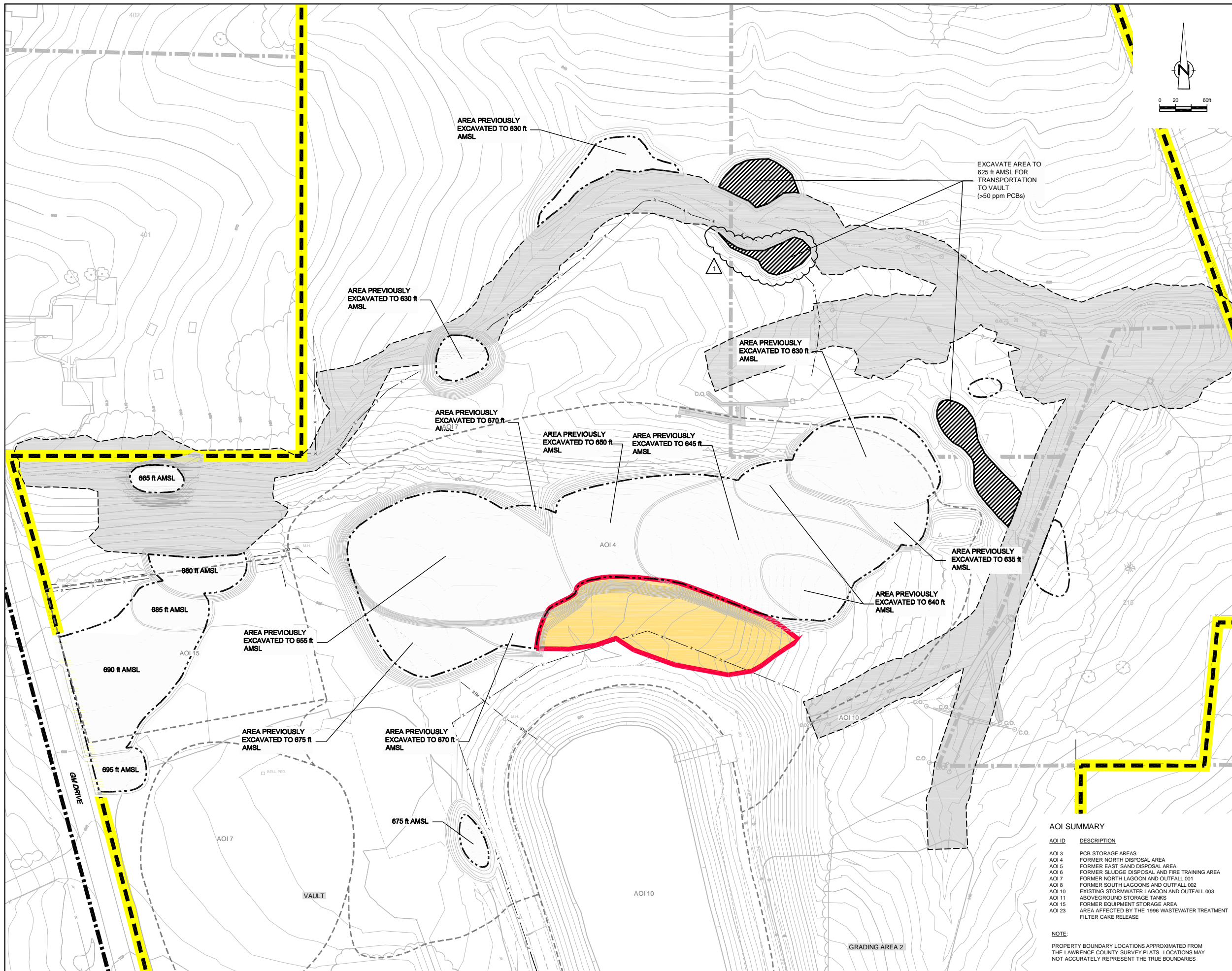
Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N°: 13968-00	Report N°: 162
		Drawing N°: C-28

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES





NO	Revision	Date	Initial
1	REVISE EXCAVATION LIMIT	AUG. 9, 2006	PF

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

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**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

**EXCAVATION PLAN I  
ELEVATIONS 625 - 630 ft AMSL**



Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

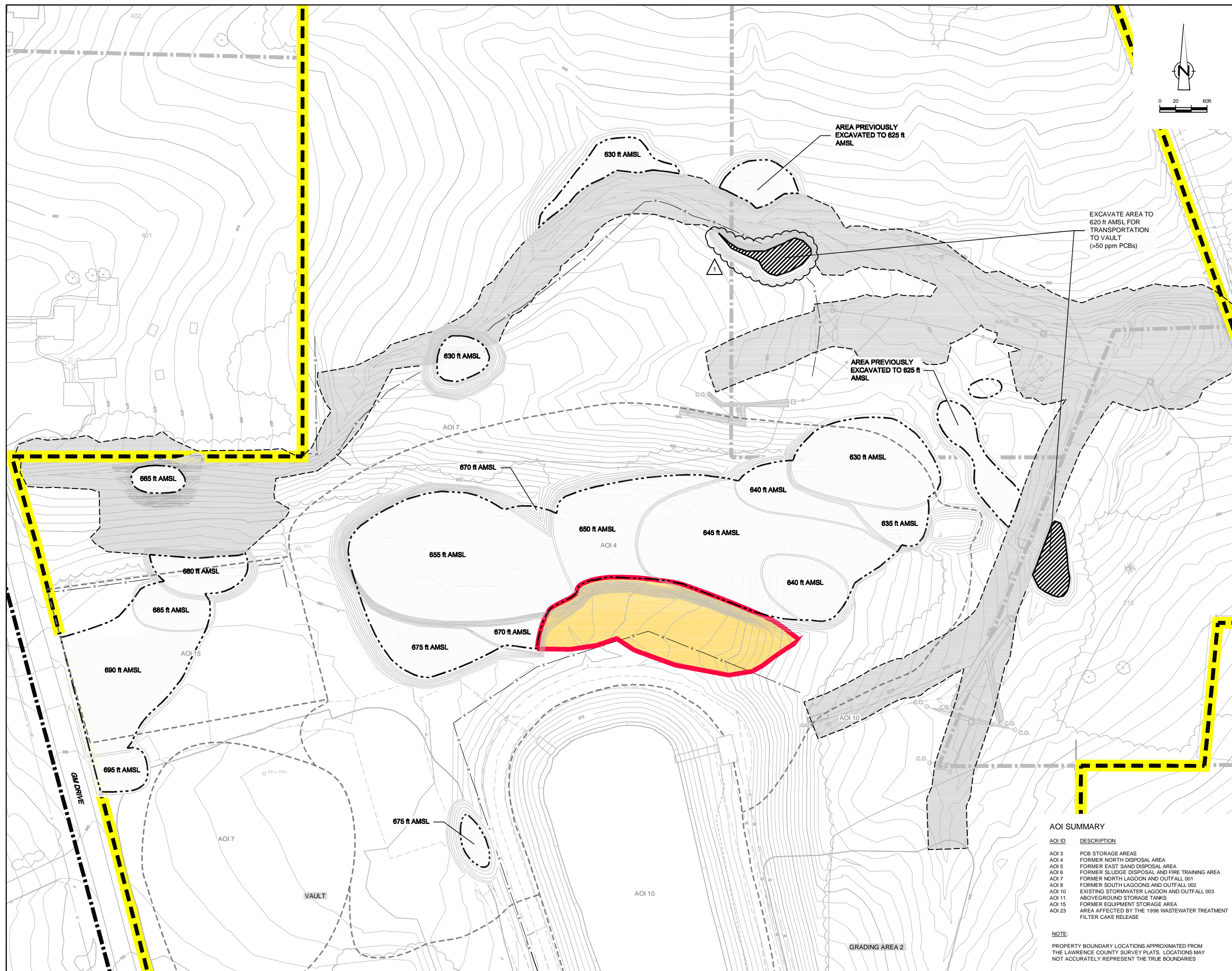
Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N°: 13968-00	Report N°: 162
		Drawing N°: C-29

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
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NO	Revision	Date	Initial
1	REVISE EXCAVATION LIMIT	AUG. 9, 2006	PF

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

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**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

**EXCAVATION PLAN I  
ELEVATIONS 620 - 625 ft AMSL**

**CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

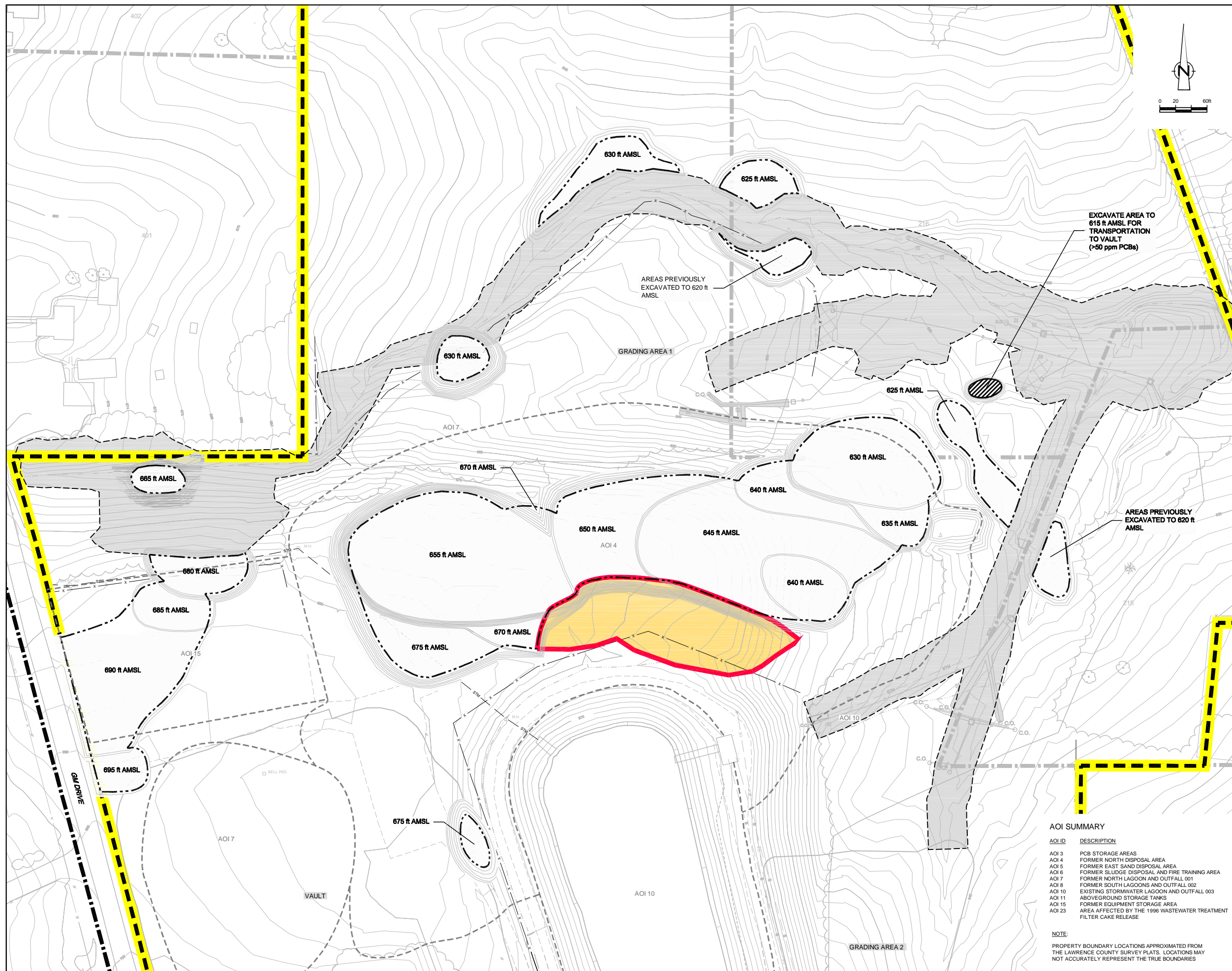
Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N°: 13968-00	Report N°: 162
		Drawing N°: C-30

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
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AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES





NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

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**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

**EXCAVATION PLAN I  
ELEVATIONS 615 - 620 ft AMSL**

**CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

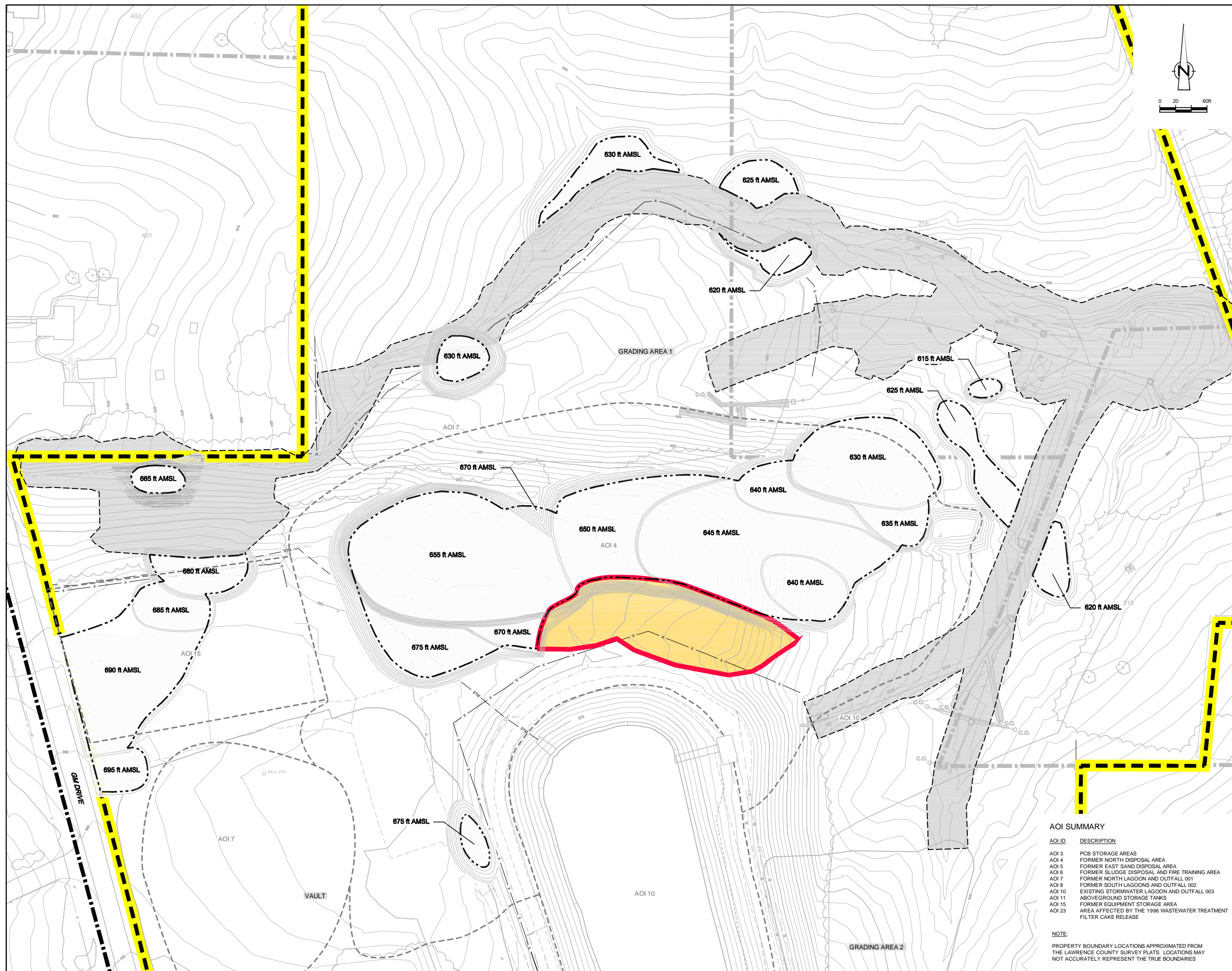
Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
Scale: 1" = 60'	Project N°: 13968-00	Report N°: 162
		Drawing N°: C-31

**AOI SUMMARY**

AOI ID	DESCRIPTION
AOI 3	PCB STORAGE AREAS
AOI 4	FORMER NORTH DISPOSAL AREA
AOI 5	FORMER EAST SAND DISPOSAL AREA
AOI 6	FORMER SLUDGE DISPOSAL AND FIRE TRAINING AREA
AOI 7	FORMER NORTH LAGOON AND OUTFALL 001
AOI 8	FORMER SOUTH LAGOONS AND OUTFALL 002
AOI 10	EXISTING STORMWATER LAGOON AND OUTFALL 003
AOI 11	ABOVEGROUND STORAGE TANKS
AOI 15	FORMER EQUIPMENT STORAGE AREA
AOI 23	AREA AFFECTED BY THE 1996 WASTEWATER TREATMENT FILTER CAKE RELEASE

**NOTE:**  
PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES





NO	Revision	Date	Initial

**LEGEND**

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EAST PLANT AREA
- REMOVAL ACTION EXCAVATION AREA NOT INCLUDED IN EAST PLANT AREA IM
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING STORM SEWER
- EXISTING SSC GRAVITY DRAIN
- EXISTING SSC EXTRACTION TRENCH
- EXISTING SSC SUMP STRUCTURE
- EXISTING CLEANOUT
- SEEP SAMPLE LOCATION
- SPRING SAMPLE LOCATION
- APPROXIMATE AREAS OF KNOWN PCB IMPACTED MEDIA (>50 mg/kg OF PCBs)
- MATERIAL WHICH IS IMPRACTICAL TO REMOVE

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

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**DRAWING STATUS**

Status	Date	Initial

**GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

**OVER 50 mg/kg PCB SOIL REMOVAL**

**EXCAVATION PLAN I  
FINAL EXCAVATION ELEVATIONS**

**CRA CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:  
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: APRIL 2006
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## APPENDIX A

### DRUM HANDLING STANDARD OPERATING PROCEDURES

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## DRUM HANDLING

### 1.0 DRUM HANDLING

Although buried containers are not expected to be encountered during the excavation, should buried containers be found, containers will be handled in accordance with the standard operation procedures outlined below. Cleanup operations involving drums and containers must be carried out safely. This means that the handling, sampling, testing, staging, transport, decontamination, evacuation, excavation, and bulking of drums and containers must be carried out with minimal risk. When new containers are used, they must meet minimum standards according to Department of Transportation (DOT), Occupational Safety and Health Act (OSHA), and United States Environmental Protection Agency (USEPA) regulations.

#### 1.1 SITE PREPARATION

Before commencing site activities involving the handling of drummed waste, the area must be prepared to facilitate operations and eliminate obvious physical hazards. Roadways, work areas, and storage areas should be constructed to provide ease of access and a sound roadbed for heavy equipment and vehicles. Security fences or barricades should be erected. Work areas should be cleared and physical hazards should be eliminated as much as possible. Physical hazards to consider include:

- Ignition sources in flammable areas such as drum opening and bulking areas.
- Exposed and/or underground electrical wiring and low overhead wires which may be cut or entangled in equipment resulting in electrical shock, short circuits, and possible fires.
- Sharp, protruding edges such as torn metal, glass, nails, and other objects which can puncture or tear protective clothing or equipment.
- Unsecured railings, loose steps or flooring, holes, slippery surfaces, debris, and other obstacles that can cause slips, trips, and falls.
- Protruding objects which can cause slips, trips, and falls.
- Weeds and debris which obstruct visibility.

Weeds and debris can be removed, walking surfaces can be cleared and repaired, skid resistant strips can be installed on slippery surfaces, railings can be repaired or installed, stairs and ladders can be secured, electrical wiring can be repaired or relocated, and sharp objects and protruding edges which cannot be removed can be covered or properly guarded. Staging areas can be constructed to facilitate safe and effective operations.

## 1.2 GENERAL RULES

- Drums and containers used must meet minimum DOT regulations.
- If practical, drums and containers will be inspected to insure their integrity prior to being moved. If drums or containers are stored or stacked so that inspection is impossible, they should be moved to an accessible location for inspection prior to further handling.
- Unlabeled drums and containers will be assumed to contain hazardous substances and treated accordingly until contents are positively characterized.
- Site operations shall be organized so as to minimize the amount of drum or container movement required.
- All employees exposed to transfer operations shall be warned of potential hazards associated with contents of any drums or containers involved.
- DOT specified salvage drums or containers and suitable sorbent materials shall be available in areas where spills may occur.
- Where major spills are possible, a spill containment program shall be implemented as part of the site Health and Safety Plan (HASP). The spill containment program shall allow for the containment and isolation of the entire volume being transferred.
- Drums and containers that can not be moved without rupture or leakage will be emptied into a sound container.
- Some type of detection system (such as ground-penetrating radar) shall be used to estimate the location and depth of buried drums or containers.
- Buried drums shall be excavated carefully to prevent rupture.
- Suitable fire extinguishing equipment will be kept on hand and ready for use.

## 2.0 OPENING DRUMS AND CONTAINERS

These procedures are to be followed in areas where drums or containers are being opened:

- The buddy system is to be utilized at all times during drum opening operations.
- Level B is mandatory if the drum contents are unknown.
- If airline respirators are used, air cylinder connections must be protected from contamination and the entire system shall be protected from physical damage.
- Employees who must work near drums or containers being opened must be provided protective shielding in case of explosion.
- Employees not directly involved in the opening procedures will be kept at a safe distance.
- Controls for opening equipment, monitoring equipment, and fire suppression equipment shall be located behind the shield.
- Non-sparking tools and equipment will be used when flammable atmospheres are a reasonable possibility.
- Drums and containers shall be opened so as to safely relieve excess pressure. Either relieve the pressure from a remote location or place appropriate shielding between the employee and the drums or containers.
- Employees shall not stand on or work from drums or containers.

## 2.1 MATERIAL HANDLING EQUIPMENT

Material handling equipment shall be selected, located, and operated so as to prevent ignition of vapors released during opening procedures. There are hazards associated with gas or electrically powered units.

## 2.2 RADIOACTIVE WASTES

If a drum exhibits radiation levels above background (approximately >2 mrem/hr), immediately contact the Health and Safety Office (HSO). Do not handle any drums that

are determined to be radioactive. A special contractor will be brought in to further characterize and process the drum(s).

### **2.3            SHOCK-SENSITIVE, AIR REACTIVE, OR WATER REACTIVE WASTE**

When handling drums containing or suspected of containing shock-sensitive or reactive wastes, the following special precautions should be followed:

- All non-essential employees shall be removed from the area of transfer.
- Material handling equipment shall be fitted with explosion containment devices or protective shields to protect operators.
- An alarm system will be used to signal the beginning and end of the procedure.
- Continuous communications will be maintained between the employee in charge of the operation and the HSO during the operation.
- Pressurized drums shall not be moved until the cause of the excessive pressure is determined and appropriate measures are implemented.
- Work will proceed in clear, dry weather.

### 3.0 SHIPPING AND TRANSPORT

Drums and containers shall be identified and classified prior to packaging for shipment. Staging areas shall be kept to the minimum number necessary and shall be provided adequate entrance and exit routes. Bulking of wastes shall be permitted only after a thorough characterization has been completed.

#### 3.1 CONTAINER HANDLING

Waste containers of various types on a site may need to be handled during sampling, characterization, or preparation of material for disposal, in addition to other reasons.

#### 3.2 VISUAL INSPECTION

Prior to handling, visually inspect the containers for the following to determine if the containers might show whether the materials may be radioactive, explosive, corrosive, toxic, flammable, or lab-packed:

- Symbols, words, or markings.
- Signs of deterioration such as corrosion, rust, or leaks.
- Indications the container is under pressure, such as swelling or bulging.
- Drum type.
- Configuration of drumhead.
- Conditions in the immediate vicinity of the container. Crystalline material on or around the containers could indicate shock-sensitive material. In addition, there may be other material leaked or spilled from the containers onto the ground which might give a clue as to what may be in the drum.



## 4.0 MONITORING

Before any moving or opening of containers takes place, direct reading instruments should be used to detect the presence of organic vapors, combustible gases, or above-background levels of radiation.

### 4.1 SUBSURFACE INVESTIGATION

If there is any reason to suspect the presence of buried containers, some type of non-destructive ground penetrating system should be used to determine the approximate location and depth of such containers.

### 4.2 PRELIMINARY CLASSIFICATION

As a precautionary measure, any unlabeled containers should be assumed hazardous until it is learned otherwise. Using the information gathered by visual inspection, monitoring and subsurface investigations, preliminarily classify any containers thought to be radioactive, leaking/deteriorated, under pressure, explosive/shock-sensitive, or buried.

### 4.3 PLANNING

Based on inspection and preliminary classification, decide if any hazards are present and the appropriate response activity. Determine which drums need to be moved in order to be opened and/or sampled. A preliminary handling plan should be developed dealing with the extent of any necessary container moving or handling and the most appropriate procedures based on the particular hazards revealed during preliminary inspection. The handling plan should be revised as new information comes to light during site operations.

## 5.0 OPENING CONTAINERS

If supplied air respiratory protection is used, place a bank of air cylinders outside the work area and supply air to the operators via airlines and escape SCBAs. Keep personnel at a safe distance from the drums being opened. If possible, monitor for radiation, combustibles, and toxics during opening. Use the buddy system.

### 5.1 REMOTELY CONTROLLED OPENING DEVICES

If possible, use remotely controlled devices for opening drums. This procedure must be explored first, prior to deciding to open drums manually.

### 5.2 BACKHOE SPIKE

The backhoe spike is a metal (bronze) spike attached or welded to a backhoe bucket. It is efficient and advisable for large-scale operations. The drums should be in rows with adequate aisle space to allow ease of backhoe movement. Once in rows, drums can be quickly opened by punching holes in the drum tops with the spike. To prevent cross contamination, the spike should be decontaminated after each drum is opened.

### 5.3 HYDRAULIC DRUM PIERCER

A hydraulically operated drum piercer consists of a manually operated pump which pressurizes oil through a hydraulic line. A piercing device with a spark-proof metal point is attached to the end of the line and pushed into the drum by the hydraulic pressure. The piercing device can be attached so that the hole is made in the side or top of the drum.

### 5.4 PNEUMATIC BUNG REMOVER

Operates by means of compressed air delivered through a high-pressure airline to a pneumatic drill which is adapted to turn a bung fitting. An adjustable bracket has to be attached to the drum before the drill can be operated and must be removed before the sample can be taken.

## 5.5 MANUALLY OPERATED OPENING DEVICES

The risks are greater when manually opening drums than when using remotely operated means. When using manual devices, the drums must be positioned to allow easy worker access to the drums.

## 5.6 BUNG WRENCH

A bung wrench and other hand tools must be of the non-sparking kind and should be marked as such. Although a non-sparking wrench will prevent sparking between the wrench and drum, it will not prevent sparking between the bung and the threads on the drum. The bung should be turned very slowly to allow pressure to dissipate and reduce the chance of sparking. The small bung should be opened first, as a pressure release. Avoid leaning on the drum while opening.

## 5.7 DRUM DEHEADER

A drum deheader can be used when the bung is not removable with a bung wrench. It can be used only with closed-head drums, not on open-top drums. It is used by first positioning the cutting edge just inside the top chime and then tightening the adjustment screw so the deheader is held against the side of the drum.

## 5.8 HAND PICKS, PICKAXES, AND SPIKES

Hand picks, pickaxes, and spikes are not recommended for opening drums because the drum must be struck with too much force, creating great potential for spraying and splashing. Also, drums cannot be opened slowly enough with this method, so any over-pressure can be dangerous. In addition, there is a great hazard using this method on drums with shock-sensitive materials. Use of chisels and firearms as an opening tool is prohibited.