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PHASE II INVESTIGATION REPORT
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION PLANT 10
700 NORTH OLIN AVENUE, INDIANAPOLIS, INDIANA
VOLUNTARY REMEDIATION PROGRAM NO. 6991004
KERAMIDA PROJECT NO. 2829E

Submitted To:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Voluntary Remediation Program
Office of Land Quality
100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46204-6015

Submitted For:

GENUINE PARTS COMPANY
Mr. Bob Lewis
Environmental, Safety and DOT Compliance Manager
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Submitted By:

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March 29, 2002

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March 29, 2002

EXECUTIVE SUMMARY

KERAMIDA Environmental, Inc. (KERAMIDA) has completed a Phase II Investigation (Investigation) at the former General Motors Corporation Allison Gas Turbine Division (AGT) Plant 10 located in Indianapolis, Indiana (Site) for the purpose of determining the nature and extent of identified contamination in the soil and groundwater at the Site. The Investigation consisted of the collection and analysis of soil, groundwater, sediment, and surface water samples, a hydrogeological study, and a baseline human health and ecological exposure assessment. This Investigation report incorporates data compiled during previous environmental investigations conducted at the Site. The data from KERAMIDA's Investigation and previous investigations were combined to formulate the findings and conclusions presented herein. Additional activities conducted concurrent with the Investigation included the design and implementation of remedial measures including a buried waste removal action and installation and start-up of a groundwater remediation system.

Regulatory closure of the Site is being administered through the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program (VRP). Identified constituents of concern (COCs) include volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), cadmium, chromium, and lead. Two areas of contamination have been identified and include an eastern source area associated with former solvent operations and a western source area associated with the historic degreasing and waste burial activities.

Contaminant occurrence prevails in the upper silty clay soil and in the groundwater of a shallow unconfined sand aquifer. An underlying silty clay aquitard mitigates vertical contaminant migration into a subjacent lower confined/semi-confined sand aquifer. Groundwater in both the upper and lower sand aquifers flows generally to the south-southeast and discharges in part to Little Eagle Creek south of the property. VOCs are detected in groundwater at concentrations above VRP Tier II Non-Residential Cleanup Goals for groundwater in areas to the east and south of the Site and on one occasion in the surface water of Little Eagle Creek.

Identified human receptors and exposure pathways include (1) industrial work exposure to surface soil, subsurface soil, and groundwater, (2) construction work exposure to surface and subsurface soils, (3) residential exposure to indoor air and ingested groundwater, and (4) recreational exposure to sediment and surface water. The Site is located within a Marion County

Health Department No Well Zone providing a measure of institutional control over groundwater usage in the area and potential human exposure to groundwater. The Site is not located within a wellhead protection area. Identified ecological receptors and exposure pathways include (1) plant exposure to soil, groundwater, sediment, and surface water, (2) terrestrial invertebrate exposure to surface and subsurface soil, (3) aquatic invertebrate exposure to surface water and sediments, (4) herpetofauna exposure to soil, sediment, and surface water, and (5) fish exposure to surface water and sediments.

An air sparge/soil vent groundwater remediation system is in operation in both the eastern and western source areas. A buried waste removal action has been completed in the western source area resulting in the mitigation of nearly all buried waste material. One identified localized contaminant hot spot remains that will be addressed through the expansion of the groundwater remediation system. Buried waste remains beneath a portion of the western building extension, however, human exposure to the material is prevented by the existing concrete floor.

With the exception of the identified hot spot, the characterization of COCs occurrence in soil is complete and no further remedial action is planned. The nature and extent of COCs in groundwater from the Site has been delineated and no further groundwater investigation is planned. Low level VOCs in groundwater above VRP Tier II Residential Cleanup Goals is observed south of the Site, however, available information suggests their occurrence may be related to additional contributing sources of VOCs in the area of the Site. The potential for active residential drinking water wells south of the Site is apparent based on available water well information, even though municipal water has serviced the area of the Site for many years. No further characterization of COCs in the sediments or surface water of Little Eagle Creek appears warranted.

Site Characterization is complete. A Remediation Work Plan will be prepared that will include a Site-specific risk assessment and feasibility study. The Remediation Work Plan will set forth the rationale, framework, and prescribed additional sampling and other actions necessary to complete remedial measures and achieve regulatory closure.

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3 Wellhead Protection Area Information
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6 Baseline Ecological Assessment Documentation
7 KERAMIDA Standard Operating Procedures
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PHASE II INVESTIGATION REPORT
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION
PLANT 10
INDIANAPOLIS, INDIANA
KERAMIDA PROJECT NO. 2829E

1.0 INTRODUCTION

KERAMIDA Environmental, Inc. (KERAMIDA) was contracted by Genuine Parts Company (Genuine Parts) to perform a nature and extent investigation (Investigation) and to design and implement remedial actions to mitigate identified contamination at the former General Motors Corporation Allison Gas Turbine Division (AGT) Plant 10 in Indianapolis, Indiana (Site). Regulatory closure of the Site is being administered through the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program. The purpose of this report is to present the findings of the Investigation and to document remedial actions already designed and currently being implemented to address contamination concerns. The goal of this report is to provide a comprehensive characterization of the nature and extent of contamination at the Site and to present a conceptual Site model of all identified potential human health and ecological exposure pathways to the contamination. This report will provide the basis for a Remediation Work Plan that will include a site-specific risk assessment and feasibility study and will set forth the rationale, framework, and prescribed actions necessary to complete remedial actions and achieve regulatory closure.

In keeping with VRP terminology, this report is formally submitted as the Phase II Investigation Report. The findings of the Investigation presented in this report consist of a compilation of data from several investigations conducted at the Site beginning in 1992 prior to the Site's entrance into the VRP. To be inclusive of all tasks performed to date, this report also addresses remedial actions currently being implemented in response to the findings of the Investigation. The remedial technology selection and detailed design of these remedial actions will be subsequently documented and submitted in the Remediation Work Plan.

1.1 SITE LOCATION AND HISTORY

The subject property is located at 700 North Olin Avenue in Marion County, Indianapolis, Indiana (see Figure 1). The property is the Site of the former General Motors Corporation Allison Gas Turbine Division (AGT) Plant 10. The original facility building was constructed in 1956 and expanded westward in 1970 to double the floor space. The expansion consisted of a concrete storage pad with a metal roof, which was later enclosed in 1990.

Prior to 1956, the property was vacant land. Between 1956 and 1973, BHT Corporation (BHT) operated the facility for carburetor and brake re-manufacturing. General Motors purchased the property from BHT in 1973 and used the facility for the warehousing of obsolete machines, tooling, and fixtures until the mid-1980s, at which time the property became part of the AGT Division. Subsequent to the sale of the property to General Motors, BHT through acquisition and merger became a part of Genuine Parts. AGT continued to use the facility for warehousing until December 1993 when the property was sold to the Allison Engine Company (AEC). AEC sold the facility to Associated Properties, Inc. in 1998 (current property owner).

1.2 SITE PHYSICAL FEATURES

The Site is located on the southwest side of Indianapolis, Indiana in Marion County and consists of approximately 5.4 acres of land, which is developed with one approximately 80,000-square foot building. The building is surrounded by a property line fence on the north and paved driveway and parking areas on the east, south, and west. The operational area of the Site is bounded by a chain-link fence, and locking access gates are located on the east and west sides of the property. No water supply wells, basements, or other subsurface structures are present on-Site. On the south side of the property, a brushy strip of land is present along the south side of the fence and extends to the tree line along the bank of Little Eagle Creek. Another chain link fence runs east-west along the interface of the brushy area and tree line. The surface topography over most of the Site is relatively flat. The southern third of the Site slopes moderately to the south, towards Little Eagle Creek. Little Eagle Creek flows in a southeasterly direction and converges with Eagle Creek approximately 6,500 feet south-southeast of the Site. Site elevations range from approximately 715 feet above mean sea level (MSL) at the north end of the property to 705 feet above MSL near Little Eagle Creek. Site maps showing salient Site features are presented in Figures 2 (Site Map) and 3 (Expanded Site Map).

1.3 SURROUNDING LAND USE

The property is zoned industrial and was until June 2000 leased from Allison Engine Company and subsequently from Associated Properties, Inc. by a subsidiary of Genuine Parts Company, for use as a warehouse. Land use in the surrounding area of the Site is mixed use with zoning predominantly residential, general business, and industrial. The property is bordered by a wooded area, Little Eagle Creek, and Michigan Meadows Apartments to the south, a residential neighborhood to the east, a city park (Olin Park) to the north, and Holt Road and an Allison Transmission Plant to the west. Features of the surrounding area are presented in the Site and Surrounding Area Use Map (Figure 4).

1.4 WATER RESOURCES AND CLIMATE

Available drilling logs of low and high-capacity water wells on record at the Indiana Department of Natural Resources, Division of Water were reviewed. A total of approximately 160 low capacity wells were identified as being located within a one mile radius of the Site, the nearest of which lies approximately 1,000 feet north (upgradient) of the property). The wells are completed within limestone bedrock, clay, or sand and gravel units at depths ranging from 30 to 270 feet below grade (bg). Three low-capacity wells are located south (downgradient) of the Site within a half-mile radius along Cossell Road and Vermont Street. These wells range in depth from 50 feet to 270 feet and are also completed in either sand and gravel, clay, or limestone bedrock. Allison Transmission Plant located to the west across Holt Road has two low-capacity wells, the nearest of which lies approximately 1,600 feet northwest of the Site (cross-gradient). The majority of the high-capacity water wells identified are located to the north, west and south of the Site. A total of 47 municipal or high capacity wells were identified as being located within a two mile radius of the Site, with 17 of those located within a one mile radius. The nearest of these wells lies approximately 1,400 feet northwest of the Site along Little Eagle Creek (cross-gradient). No high-capacity water wells were identified south (downgradient) of the Site between the Site and Eagle Creek. Maps showing the locations of identified high and low-capacity water wells and available drilling logs are presented in Attachment 1.

Potable water is supplied to the area by the Indianapolis Water Company (IWC). The water supply is drawn from numerous wells in the area, the majority of which are located along Eagle Creek approximately 1.5 miles west (upstream) of the Site. A discussion with the Supervisor of Customer Contact at IWC indicated that residences across Olin Avenue to the east and the

Michigan Meadows Apartment complex across Little Eagle Creek to the south are supplied by IWC. A house to house survey of local residences along the east side of Olin and the west side of Luett Avenues was conducted by the Marion County Health Department (MCHD) in December, 1996. A single domestic well was located at 709 North Olin Avenue. The construction of the well is unknown. This well was not identified during the well search conducted at the Department of Natural Resources. Only well logs completed by the drillers and submitted to IDNR are found in the IDNR's files. The approximate location of this domestic well is provided on the Site Map in Figure 2. The well was sampled and analyzed for VOCs by the MCHD on January 2, 1997, July 14, 1997, March 9, 1998, July 25, 1998, February 25, 1999, June 15, 1999, and September 29, 1999. The only VOC detected at any time was octamethylcyclotetrasiloxane at 4.0 parts per billion in March of 1998. Copies of the MCHD analytical reports for VOCs testing are included in Attachment 2.

Marion County wellhead protection information was reviewed to determine if the Site was located within a wellhead protection area. Five wellhead protection areas currently exist in Marion County. The Site is not located within a designated wellhead protection area. Geographically, the Site is located between the Riverside Wellhead Protection Area and the Speedway Wellhead Protection Area. Wellhead protection area information is provided in Attachment 3.

The Site is located in Marion County Health Department (MCHD) No Well Zone (NWZ) Area 2. No Well Zones are designated by the MCHD and reflect zones of contaminated groundwater identified by the MCHD through its routine sampling of potable wells throughout Marion County. The MCHD began building a groundwater quality database and identifying these zones in the late 1990's. Currently seven NWZs have been designated. The MCHD requires permits for all water supply wells. According to the MCHD, permits are not granted to install potable wells in NWZs. Permits for other types of wells such as industrial supply wells may be granted in NWZs on a case by case basis. NWZ information is included in Attachment 4.

Indianapolis has a temperate climate with warm summers and no dry season. Precipitation is distributed fairly evenly through out the year. The average precipitation is 39.99 inches per year and the average annual temperature is 52.5°F. (NOAA, 1989). Over a 29-year period from 1960 to 1989 the average monthly rainfall ranged from a low of 2.69 inches in October to a high of

4.03 inches in June. Average temperature for the same period ranged from a low of 28.0°F. in January to a high of 75.8°F. in July. Spring and early summer rains usually exceed winter precipitation. (Sturm and Gilbert, 1978).

1.5 SUMMARY OF PREVIOUS INVESTIGATIONS

Engineering Science, Inc. (ESI) conducted two environmental investigations at the property in 1992 and 1993. The initial investigation, entitled *Phase I Information Review Report for General Motors Corporation Allison Gas Turbine Division*, was completed by ESI in July of 1992. The Phase I assessment involved no intrusive exploration of environmental conditions. The Phase I assessment identified the following potential areas of environmental concern:

- two reported releases (100 gallons of quench oil in the southwest corner of the property and an unknown amount of hydraulic fluid in the southwest courtyard);
- possible waste burial area at western end of property; and
- possible area of dumping near the northwest corner of the plant.

The Phase I identified the Plant 10 Site as a potential area of concern (PAOC). The report included a recommendation to install three monitoring wells and one soil boring.

An intrusive follow-up assessment of the areas of environmental concern identified during the Phase I assessment was completed by ESI in November of 1993. Methods and results of this additional investigation were reported in a document entitled *Phase II Site Assessment Final Report for General Motors Corporation Allison Gas Turbine Division* dated November 19, 1993. During the initial phase of work, three monitoring wells (MW-132, MW-133, and MW-135) were installed and one soil boring (SB-134) was advanced at the Site. A soil gas survey was completed on the western side of the property during this investigation. During the second phase of this investigation four monitoring wells (MW-145 through MW-148) were installed and two soil borings (SB-149 and SB-150) were advanced on-Site.

Results of this investigation identified trichloroethene (TCE), vinyl chloride (VC), 1,2-dichloroethene (1,2-DCE), tetrachloroethene (PCE), toluene, and methylene chloride in the soil on-Site. Compounds most frequently detected included TCE, 1,2-DCE, and VC. The western side of the Site was confirmed as a PAOC during the Phase II investigation, however the source was unknown.

O'Brien and Gere Engineers, Inc. (OBG) conducted a Buyer Environmental Assessment for Plant 10 in March of 1994. OBG advanced six soil borings (SB-10-1 through SB-10-5 and OBG-10-1) and installed one monitoring well MW-10-1 in soil boring OBG-10-1. Surface samples collected included two surface soil samples near an area containing brake pad pieces, two brake pad samples for asbestos testing, and two sludge samples from sumps located south of the building (these sumps were later removed, however, no known environmental information exists regarding their removal). Analytical results for the surface soil samples collected is not currently available. A total of six subsurface soil samples and three groundwater samples were collected and analyzed for VOCs and RCRA metals. VOCs detected in the subsurface soil included 1,2-DCE (total) and TCE. Metals detected in subsurface soil included arsenic, barium, cadmium, chromium, lead, mercury, and selenium. The analytical results for the three groundwater samples are not currently available. One groundwater sample was apparently collected from well MW-10-1 and analyzed for VOCs. VOCs detected in MW-10-1 included trans-1,2-DCE, cis-1,2-DCE and TCE.

Between June 1995 and January 1997, Fluor Daniel GTI, Inc. (FDGTI) conducted additional investigation activities to further assess the magnitude and extent of contamination at the Site, collect additional hydrogeological data, and to perform a baseline human health risk assessment. Work performed by FDGTI included the installation and sampling of fourteen additional monitoring wells at both on-Site and off-Site locations, soil and groundwater sample collection via push-probe methods (e.g. Hydropunch® and Geoprobe®), Little Eagle Creek stream gauging and surface water sampling, and aquifer slug testing.

1.6 SITE DOCUMENTATION

The following is a list of known documents relating to environmental investigation activities at the Site:

Engineering Science, Inc. *Phase I Information Review Report for General Motors Corporation Allison Gas Turbine Division*, July of 1992.

Engineering Science, Inc. *Phase II Site Assessment Final Report for General Motors Corporation Allison Gas Turbine Division,* November 19, 1993.

O'Brien & Gere Engineers, Inc. 1994. *Buyer Environmental Assessment.* Allison Engine Company, Inc. May 1994.

Fluor Daniel GTI, *Feasibility Study Report for General Motors-Allison Gas Turbine Plant 10,* June 3, 1997.

Fluor Daniel GTI, *Remedial Investigation Report for General Motors-Allison Plant 10,* September 19, 1997.

Copies of available portions of these documents are provided in Attachment 5.

2.0 SITE CHARACTERIZATION

2.1 BASELINE ASSESSMENT

The following sections discuss the human, ecological, and hydrogeological settings at the Site.

2.1.1 Human Health Exposure Assessment

The Site and surrounding properties were evaluated to determine current and potential future land uses and human health exposure scenarios. A conceptual site model (CSM) was then developed for the Site. These items are discussed in the following sections.

Site Layout

The Site consists of approximately 5.4 acres of land, which is developed with one approximately 80,000-square foot building (see Figure 2). The building is surrounded by a property line fence on the north and paved driveway and parking areas on the east, south, and west. The operational area of the Site is bounded by a chain-link fence, and locking access gates are located on the east and west sides of the property. No water supply wells, basements, or other subsurface structures are present on-Site.

On the south side of the property, a brushy strip of land is present along the south side of the fence and extends to the tree line along the bank of Little Eagle Creek. Another chain link fence runs east-west along the interface of the brushy area and tree line.

Little Eagle Creek, located along the southern Site boundary, flows in a southeasterly direction and converges with Eagle Creek approximately 6,500 feet south-southeast of the Site. In March of 2000, the creek's reach adjacent to the Site was 38 to 49 feet wide, 0.5 to 1.5 feet deep, and flowing at an average rate of 0.66 feet per second.

Current Land Use

The Site is currently used as a warehouse for furniture storage. No known industrial operations are currently present at the Site.

The Site is bordered on the north by Olin Park, on the east by North Olin Avenue across which are single-family residences, on the south by Little Eagle Creek across which are the Michigan Meadows Apartments, and on the west by Holt Road across which is an industrial facility. Olin Park consists of a large grassy area directly adjacent to the Site with a playground approximately 500 feet north of the Site.

Zoning and land use within a one-half mile radius of the Site consists of mixed residential and commercial/industrial properties. No supply wells or other uses of groundwater occur at the Site. The nearest water supply well is located at 709 North Olin Avenue, a residence located directly adjacent to the east of the Site.

Potential Future Land Use

The Site owner plans to continue using the property for commercial or industrial purposes. Based on historic and current land use in the surrounding area, mixed residential and commercial/industrial land use is anticipated to continue.

Exposure Scenarios and Receptors

Based on current and potential future uses of the Site and surrounding area, the following exposure scenarios and associated receptors have the potential to occur:

- Industrial land use – adult workers
- Construction – adult construction workers; adult subsurface workers (utility, roadway, etc.)
- Residential land use – adult and child residents
- Recreation – adult and child recreational receptors at Olin Park and in Little Eagle Creek

Exposure Routes and Pathways

Points of contact between potential receptors and COPCs in Site media constitute complete exposure pathways. The physical features of the Site and locations of potential receptors were evaluated to determine the complete exposure pathways.

No areas of exposed soil are present at the Site. Therefore, no industrial worker exposure to contaminated soil is expected to occur. However, exposure to soil by construction and subsurface utility workers has the potential to occur during excavation activities at the Site.

The Site and surrounding area receive water from the municipal water supply, however, one verified domestic well is located at a residence adjacent to the east of the Site (see Figure 2). Other potential domestic wells in use include three wells located south of the Site along Cossell Road and Vermont Street (see IDNR Low Capacity Well Map in Attachment 1). In addition, the Michigan Meadows Apartments south of Little Eagle Creek have partial basements, which could potentially have vapor intrusion from underlying groundwater. Based on this information, residential exposure to contaminated groundwater is a potentially complete exposure pathway.

Shallow groundwater is known to discharge to Little Eagle Creek, and the creek is easily accessible to off-Site receptors along the south bank of the creek. Therefore, recreational exposure to surface water and sediment in the creek is a potentially complete exposure pathway.

The human health CSM shown in Figure 5 presents the contaminant sources, exposure pathways, and receptors for the Site and surrounding area.

2.1.2 Ecological Exposure Assessment

The Site and surrounding properties were evaluated to identify existing ecological habitats, potential ecological receptors, and complete exposure pathways. An ecological conceptual site model was then developed for the Site. These items are discussed in the following sections.

Ecological Habitats and Receptors

The Site consists of approximately 5.4 acres of land, which is developed with one approximately 80,000-square foot building (see Figure 2). The only undeveloped portion of the Site is a brushy strip of land on the south side of the Site which extends to the tree line along the bank of Little Eagle Creek.

Undeveloped areas at the Site contain both terrestrial and aquatic habitats. The brushy area in the southern portion of the Site is dominated by various grasses and forbs such as goldenrod (*Solidago* sp.), ragweed (*Ambrosia* sp.), and other weedy species. This area was graded in 1999 in anticipation of its use as a parking lot. However, it was later fenced off from the developed portion of the Site and allowed to revegetate without being used or further disturbed. It now most closely resembles an old field habitat. Animal species observed in this area include red-winged blackbirds (*Agelaius phoeniceus*), raccoons (*Procyon lotor*), and opossum (*Didelphis marsupialis*).

On its south side the old field borders a mature deciduous woodland habitat that extends to the banks of Little Eagle Creek. Tree species present in this woodland include sycamore (*Platanus occidentalis*), cottonwood (*Populus deltoids*), and other deciduous tree species. This wooded area grades steeply down to the creek. The woodland canopy is dense along the creek while the understory is sparse. Animal species observed in the wooded area include abundant bird populations, raccoons (*P. lotor*), and opossum (*D. marsupialis*).

Little Eagle Creek is a perennial stream that flows in a south-southeasterly direction in the vicinity of the Site. It originates approximately eight miles north of the Site and discharges to Eagle Creek approximately 6,500 feet southeast of the Site. In March of 2000, the creek's reach adjacent to the Site was 38 to 49 feet wide, 0.5 to 1.5 feet deep, and flowing at an average rate of 0.66 feet per second. Great blue herons (*Ardea herodias*) have been observed along the edges of the creek, although no fish have been noted in the water.

The Indiana Department of Natural Resources (IDNR) and the U.S. Fish and Wildlife Service (USFWS) were contacted for information on state or federally-listed threatened and endangered species (TES), rare species, and critical habitats that are known to occur in the Site area. The IDNR and USFWS responses are included in Attachment 6. IDNR reported that no plant or animal species listed as state or federally threatened, endangered, or rare have been reported in the Site vicinity.

The USFWS reported the Site is within the range of the federally endangered Indiana bat (*Myotis sodalis*) and the federally threatened bald eagle (*Haliaeetus leucocephalus*). *M. sodalis* nests in woodlands during the summer months, selecting trees with loose bark for nest sites. They forage for insects primarily over wooded stream corridors, although they have also been documented as using other habitats for foraging. *M. sodalis* have been documented in northeast Marion County and in Hendricks County in Indiana. Based on this information, the wooded area of the Site and Little Eagle Creek are potential nesting and foraging habitats for the Indiana bat.

H. leucocephalus nest in close proximity to lakes, rivers, or other large surface water bodies, constructing their nests near habitat ecotones such as lakeshores and cuts within timber management areas. The West Fork White River in Morgan County, Indiana is a primary wintering area for *H. leucocephalus*, where food sources such as waterfowl and fish are available. Based on this information, the Site does not present potential nesting, wintering, or foraging habitat for the bald eagle.

The Kirtland's snake (*Clonophis kirtlandii*), a species of concern, may also be present in the Site area. Although *C. kirtlandii* is not federally threatened or endangered, the USFWS and other federal and state agencies encourage consideration of this species in project planning. Finally, the USFWS noted the potential for migration of contaminants to Little Eagle Creek and nearby wetlands, with potential bioaccumulation and/or toxic effects in aquatic media and organisms.

Based on the terrestrial and aquatic habitats present at the Site, the following ecological receptors have the potential to occur:

- Terrestrial and aquatic plants
- Soil, benthic, and aquatic invertebrates
- Omnivorous amphibians and reptiles (herpetofauna)

- Herbivorous, omnivorous, and carnivorous fish
- Herbivorous, omnivorous, carnivorous, and piscivorous birds
- Herbivorous, omnivorous, carnivorous, and piscivorous mammals

Exposure Routes and Pathways

Points of contact between potential ecological receptors and COPCs in Site media constitute complete exposure pathways. Potential exposure routes for animals include dermal absorption, inhalation, and ingestion of contaminated soil, food, surface water, and sediment. Potential exposure routes for plants include uptake of contaminants through roots and foliar absorption of contaminants deposited by air or water. Based on the physical features of the Site and locations of potential ecological receptors, the following soil exposure pathways have the potential to occur:

- Root uptake by terrestrial plants
- Ingestion and dermal absorption by soil invertebrates
- Ingestion, dermal absorption, and inhalation by herpetofauna, birds, and mammals

Groundwater is first encountered at approximately 15 feet below ground surface (bgs). Therefore, no complete groundwater exposure pathways exist for receptors in the terrestrial habitat. Groundwater from the Site is likely to discharge to Little Eagle Creek, providing a potential transport mechanism for groundwater COCs to reach surface water and sediment within the creek.

Based on this information, the following aquatic exposure pathways have the potential to occur:

- Root and foliar uptake by aquatic plants
- Ingestion and dermal absorption by aquatic and benthic invertebrates
- Ingestion, dermal absorption, and inhalation by herpetofauna, birds, and mammals

The ecological CSM shown in Figure 6 presents the contaminant sources, receptors, and exposure pathways for the ecological habitats at the Site.

2.1.3 Background Hydrogeological Assessment

This section describes the Site hydrogeological setting based on available reference literature and findings of Investigation.

Regional Geology

Indianapolis lies within the Tipton Till Plain physiographic unit of the Central Drift Plain physiographic zone (Fenelon et al., 1994). The Central Drift Plain is composed of a nearly flat glacial till plain, approximately 12,000 mi^2 in extent, that covers central Indiana, and which is underlain by thick till that has been slightly eroded by postglacial streams (Fenelon et al., 1994). The glacial sediments of the till plain were deposited during the pre-Illinoian and Illinoian Age when glaciers covered the northern three-quarters of Indiana (Fenelon et al., 1994). The glaciers deposited a minimum of eight till units, which make up approximately 75% of the deposits in the Tipton Till Plain (Fenelon et al., 1994).

Glacial drift in Marion County can be divided into three units and ranges in thickness from 15 feet to over 400 feet, with an average thickness of 140 feet (Hartke et al., 1980). The Wisconsinan Drift extends from the ground surface to depths from 15-150 feet below ground surface (Harrison, 1963). The average thickness of the Wisconsinan Drift is 50-70 feet. Underlying the Wisconsinan Drift is the Illinoian Drift (Harrison, 1963). Located at elevations of 553-765 feet above mean sea level, the Illinoian Drift thickness ranges in thickness from 12-104 feet, and averages 30-50 feet in thickness (Harrison, 1963) Beneath the Illinoian Drift, lies the Kansan Drift (Harrison, 1963). The surface elevation of the Kansan drift is approximately 675 above mean sea level and drift thickness averages 30-50 feet, but it can be as thick as 200 feet (Harrison, 1963).

In Marion County, only Wisconsinan till materials are known to be exposed at the surface, with thin deposits of modern alluvium overlying the till in some stream valleys (Hartke et al., 1980). The bedrock/till interface averages 100 feet below ground surface (Fenelon et al., 1994). Glacial Till in Indiana is successively underlain by Late Devonian/Early Mississippian Age shales and siltstones 500-1,000 feet thick, Devonian dolomite and limestone up to 250 feet thick, Silurian limestone and dolomite 200-600 feet thick, late Ordovician shale and limestone 500-1,500 feet thick, Middle Ordovician limestone, dolomite, and sandstone, 50-450 feet thick, which unconformably overlie lower Ordovician dolomite of 20-4,500 feet thickness, Cambrian sandstones, with some siltstone and shale, 1000-3000 feet thick, and finally Precambrian crystalline basement rocks, at depths of 3,000-6,000 feet (Fenelon et al., 1994).

In the vicinity of the Site in western Indianapolis, the glacial drift ranges from 50-150 feet thick and is immediately underlain by the New Albany Shale (Gray et al., 1979). This black and greenish-gray shale is early Mississippian to Devonian in age and ranges from 0-250 feet thick, averaging 90-140 feet (Gray et al., 1979) (Hartke et al., 1980). Beneath the New Albany Shale, lie rocks of the Muscatatuck Group, specifically, the North Vernon Limestone Formation and the Jefferson Limestone Formation (Gray et al., 1979). Rocks of the Muscatatuck Group are predominantly of middle Devonian Age and average 75 to 125 feet in thickness (Gray et al., 1979). The Muscatatuck Group is underlain by rocks of Silurian age that average over 150 feet thick (Gray et al., 1979). These rocks include the Wabash Formation, the Louisville Limestone, the Waldron Shale, Limberlost Dolomite, and the Salamonie Dolomite (Gray et al., 1979). The Silurian rocks are successively underlain by shale and limestone of Cincinnatian age, the Trenton Limestone, Cambrian, and PreCambrian rocks (Gray et al., 1979).

Soils within the area of the Site are of the Miami-Crosby Association and the Urban land-Fox-Ockley Association (USDA, 1991). The Miami-Crosby Association is found in slightly to moderately dissected upland plains, between broad ground moraines and bottom land, or between terraces and outwash plains (USDA, 1991). The association is composed of approximately 60% Miami soils, 20% Crosby soils, and 20% assorted minor soils (USDA, 1991). The Miami soils grade from a silt loam at the surface to a silty clay loam, to a clay loam, to a loam with depth (USDA, 1991). They form on nearly level to moderately steep slopes, are well drained, and are located on the sides and tops of hills and knolls (USDA, 1991). The Crosby soils grade from silt loam at the surface to silty clay loam, to clay loam, to a loam with depth (USDA, 1991). They form on nearly level to gently sloping land, are somewhat poorly drained, and are located on irregularly shaped flats and broad ridgetops (USDA, 1991). The minor soils of this association include Brookston, Genessee, Henepin, and Shoals (USDA, 1991).

The Urban land-Fox-Ockley Association is found on broad outwash plains and terraces adjacent to larger bottom land (USDA, 1991). The association is composed of approximately 33% urban land, 25% Fox soils, 7% Ockley soils, and 32% assorted minor soils (USDA, 1991). Urban land soils are soils "covered by streets, parking lots, buildings, and other structures that obscure or alter the soil so that identification is not feasible" (USDA, 1991). Fox soils grade from loam at the surface, to sandy clay loam, to gravelly clay loam, to gravelly sand and sand with depth (USDA, 1991). Fox soils are well-drained, moderately deep over gravelly sand and sand, and

are nearly level to moderately sloping (USDA, 1991). They form on broad, irregularly shaped flats, on sides of drainageways and knolls, and on breaks adjacent to bottom land (USDA, 1991). The Ockley soils grade from silt loam at the surface, to silty clay loam, to clay loam, to gravelly clay loam, to gravelly sand and sand with depth (USDA, 1991). They are well drained, deep, nearly level to gently sloping, and are found on broad, irregularly shaped flats and on short side slopes of drainageways and low knolls (USDA, 1991). Minor soils in this association include Martinsville, Rensselaer, Sleeth, Westland, and Whitaker (USDA, 1991).

Regional Hydrogeology

The Site lies within the White River Basin, a drainage basin 5,603 mi^2 in size with an average topographic elevation of 750 feet (Hoover and Durbin, 1994). The White River Basin overlies the Illinois Basin and the Cincinnati Arch. Bedrock strikes north-northwest, and dips to the southwest into the Illinois Basin; except in the northeastern part of the White River Basin where the Cincinnati Arch is present and where the rocks dip northward into the Michigan Basin (Hoover and Durbin, 1994). The principal direction of drainage in the White River Basin is towards the White River, which has an average discharge of 1,478 cfs (Harrison, 1963). Major secondary drainageways are into Eagle Creek, with an average discharge of 146 cfs, and into Fall Creek with an average discharge of 270 cfs (Harrison, 1963). The Site is located in the Little Eagle Creek drainage basin, which drains an area of 26.9 square miles (Hoggatt, 1975) and flows from north to south discharging into Eagle Creek approximately 6,500 feet south-southeast of the Site.

Three aquifer types occur in Indianapolis: surficial sand and gravel aquifers, buried and discontinuous sand and gravel aquifers, and carbonate bedrock aquifers (Hoover and Durbin, 1994). The most productive aquifers are the surficial sand and gravel aquifers, which can yield up to 2000 gal/min and are the major sources of water for the city of Indianapolis (Hoover and Durbin, 1994). The surficial sand and gravel aquifers are restricted to major river valleys in the White River Basin (Hoover and Durbin, 1994). The aquifers range in thickness from 50-100 feet, have hydraulic conductivities ranging from 24-1,500 feet/d, and can yield 10-2,000 gal/min (Hoover and Durbin, 1994).

Buried and discontinuous sand and gravel aquifers formed in outwash plain deposits, in valley fill in pre-Illinoian valleys, as thin sheets of stratified drift, and in small pockets of coarse grained glaciolacustrine sediment (Hoover and Durbin, 1994). These aquifers range in thickness from 5-50 feet, have an average hydraulic conductivity of 433 feet/d, and yield 10-250 gal/min (Hoover and Durbin, 1994).

Carbonate Bedrock aquifers are composed of Devonian, Silurian, and Ordovician rocks, ranging in thickness from 40-300 feet (Hoover and Durbin, 1994). Hydraulic conductivity is extremely variable and is contingent on the fracture density and the degree of weathering of the rock (Hoover and Durbin, 1994). The average estimated hydraulic conductivity for these aquifers is 13.4 feet/d. Well yields of over 100 gal/min are possible (Hoover and Durbin, 1994).

2.2 PHASE II INVESTIGATION METHODS

The following sections present the rationale and methods of the Phase II Investigation and describe the sample matrices, constituents of concern (COCs), sample locations, and sampling methods.

2.2.1 Sample Matrices and Constituents of Concern

Matrices

A Covenant Not To Sue (CNTS) is being pursued for surface soil, subsurface soil, and groundwater for the entire Site. Samples of these matrices were collected from across the Site and beneath the facility building and submitted for laboratory analysis. Other matrices sampled during the Investigation, but not to be included in the CNTS, included the surface water and sediments of Little Eagle Creek located contiguous to the southern Site property boundary.

Constituents of Concern

The primary COCs identified by previous investigations included volatile organic compounds (VOCs). Subsequent work conducted by KERAMIDA identified additional COCs associated with buried debris or apparent releases at the Site, which include polynuclear aromatic hydrocarbons (PAHs), cadmium, chromium, and lead. COCs to be covered under the CNTS includes VOCs, PAHs, cadmium, chromium, and lead.

2.2.2 Sample Locations

The sample locations are depicted on Figure 7 (Monitoring Well Location Map), Figure 8 (Soil Boring Location Map), and Figure 9 (Ecological Sample Location Map). The rationale for the sample locations is described in the following sections. Previous sampling locations investigated by others and current KERAMIDA sampling locations are included to present a complete picture of the investigations completed at the Site to date. Complete laboratory analytical reports are available for samples collected by KERAMIDA, however in most cases, only reported data results are available for samples collected during previous investigations.

On-Site Eastern VOC Source Area and Groundwater Plume

On-Site monitoring wells and soil borings were installed and soil and groundwater samples were collected to delineate and monitor the apparent VOC source originating from former solvent operations located near the southeastern corner of the building. Shallow wells installed for this purpose included wells MW-101, MW-135, MW-146, MW-150, and MW-152, and deep well MW-200. Previous soil borings advanced for this purpose included SB10-4, SB10-5, SB-134, GP-5, and GP-6. Soil borings advanced by KERAMIDA for this purpose included KB-13, KB-14, and KB-15.

Off-Site Eastern VOC Groundwater Plume

Off-Site monitoring wells and soil borings were installed and groundwater samples collected to delineate and monitor the eastern dissolved VOC groundwater plume. KERAMIDA wells installed for this purpose included shallow wells MW-151, MW-156, MW-157, MW-159, MW-162, MW-163, and MW-164, and deep wells MW-201 and MW-301. KERAMIDA soil borings advanced for this purpose include KB-1, KB-2, KB-3, KB-10, KB-11, and KB-12.

On-Site Western VOC Source Area and Groundwater Plume

On-Site monitoring wells and soil borings were installed and soil and groundwater samples were collected to delineate and monitor the western dissolved VOC source associated with historic waste burial and solvent use in the area west of the building. Shallow wells installed for this purpose included wells MW-132, MW-133, MW-145, MW-147, MW-148, MW-153, and MW-154, and deep wells MW-202 and MW-302. Previous soil borings advanced for this purpose included SB10-1, SB10-2, SB10-3, SB-149, SB-150, GP-1, GP-2, GP-3, and GP-4.

Off-Site Western VOC Groundwater Plume

Off-Site monitoring wells and soil borings were installed and groundwater samples were collected to delineate and monitor the western dissolved VOC groundwater plume. Shallow wells installed for this purpose included wells MW-155, MW-158, MW-160, MW-161, MW-165, MW-166, MW-167, MW-168, MW-169, MW-170, and MW-171. Deep wells installed for this purpose included MW-165D, MW-166D, MW-167D, MW-168D, MW-169D, MW-170D, and MW-171D. Soil borings advanced by KERAMIDA for this purpose include KB-4, KB-5, KB-6, KB-7, KB-8, KB-9, KB-16, KB-17, KB-18, KB-19, KB-20, KB-21, KB-22, KB-23, KB-24, KB-25, KB-26, and KB-27.

Additional On-Site Soil Borings

Additional on-Site soil borings were advanced and soil samples were collected for analysis of PAHs, cadmium, chromium, and lead after these COCs were identified in buried waste material at the Site. KERAMIDA borings KB-28 through KB-38 were advanced across the Site in areas not under roof to obtain soil chemical data for these COCs. Interior soil borings KB-i1 through KB-i12 were advanced to delineate apparent buried materials beneath the western portion of the building (it should be noted that soil borings KB-i10 and KB-i11 were ultimately not performed based on the absence of buried materials observed in borings KB-i7 through KB-i9 and KB-i12). Interior soil borings KB-i13 through KB-i19 were advanced to at other features of environmental concern such as floor drains, an apparent sump feature, and at locations of presumed former equipment where solvent may have been used. Soil and/or groundwater samples were collected from these borings. Since no sampling had been previously performed beneath the facility, all COCs were included in the analyses of the interior samples. The existing monitoring well network was utilized to collect groundwater data for PAHs, cadmium, chromium, and lead at the Site.

Ecological Sampling

Surface water and sediment samples have been collected from Little Eagle Creek from a total of eight locations. Previous ecological sample locations ST-1, ST-2, and ST-3 were completed by Fluor Daniel GTI to collect upstream, mid-stream, and down-stream samples, respectively. Upon the Site's entrance into the VRP, additional ecological samples were collected by KERAMIDA at IDEM's request to further assess COCs occurrence in Little Eagle Creek. A total of five additional sample locations (Stations A through E) were selected. Locations A, B,

and E were placed near previous locations ST-1, ST-2, and ST-3, respectively. Locations C and D were selected to provide additional coverage along Little Eagle Creek. In addition to surface water and sediment, sediment pore water samples were also collected from ecological sample locations A through E.

2.2.3 Investigation Methods

The following sections detail the methods used during the investigation.

Soil Borings and Sampling

A total of 57 soil borings were completed by KERAMIDA between March 2000 and May 2001. The soil borings were advanced using a hydraulic-push drill rig equipped with a two-foot sampling tube with disposable acetate liners. The soil in each boring was continuously sampled, described for lithologic purposes, and screened for volatile compounds using a photo-ionization detector (PID). Surface soil samples were collected from the 0 to 2 feet bgs interval as defined by VRP guidance. Subsurface soil sampling depths were selected based on PID readings and/or visual and olfactory evidence of contamination. The sampling device was decontaminated and a new acetate sample liner was used for each core sample. Groundwater samples were collected from the boreholes using dedicated disposable polyethylene tubing attached to a peristaltic pump.

The KERAMIDA Standard Operating Procedures (SOP) presented in Attachment 7 contain detailed descriptions of the boring advancement, sampling, and decontamination procedures employed during the investigation. Boring logs for soil borings completed during previous investigations and for soil borings advanced by KERAMIDA are presented in Attachment 8.

Monitoring Well Installation and Sampling

The existing monitoring well network was expanded by KERAMIDA to include a total of twelve new shallow monitoring wells (MW-160S through MW-171S), and seven new deep monitoring wells (MW-165D through MW-171D). The wells were installed by Earth Exploration, Inc., of Indianapolis, Indiana, between February 2000 and January 2002. The wells were installed using a hollow-stem auger drilling rig to depths ranging from 13 feet to 51 feet below ground surface (bgs).

The soil in each boring was continuously sampled, described for lithologic purposes, and screened for volatile compounds using a PID. The split-spoon sampler was decontaminated between each sample interval. The wells were constructed of two-inch diameter schedule 40 PVC riser and 0.010-inch slotted screen. Upon completion, each well was developed using a submersible pump.

Groundwater samples were collected from monitoring wells using both traditional purge and sample methods with dedicated bailers and low-flow groundwater sampling methods in accordance with IDEM micro-purge (e.g. low flow) sampling guidance.

The KERAMIDA SOPs included in Attachment 7, present detailed descriptions of the well installation, sampling, and decontamination procedures employed during the investigation. Well boring logs and construction diagrams for previously existing monitoring wells and wells installed by KERAMIDA are presented in Attachment 9.

Ecological Sampling

Surface water samples were collected from Little Eagle Creek by slowly submersing the sample containers directly in the creek. Care was taken to avoid collecting samples in areas with visible suspended sediment.

Sediment samples were collected from the creek using disposable hand trowels. Care was taken to avoid including inorganic material or vegetation in the sediment samples.

Sediment pore water samples were collected from the creek by driving a hollow sampling tube into the creek bed. The tube was driven to a depth of approximately 1 foot and then allowed to equilibrate for approximately 30 minutes. Dedicated, disposable plastic tubing was then inserted into the tube and a peristaltic pump used to draw the pore water directly into the sample containers.

Stream measurements were collected at each sampling location. The water depth at mid-channel and flow velocity were measured at each location using a Flo-Mate model 2000 portable flow meter. The width of the creek at the bank – water interface was also measured at each sampling location.

The primary COCs and impacted media at the Site are VOCs in subsurface soil and groundwater. Based on the lack of PAHs and metals concerns in soil and groundwater near the creek, the surface water, sediment, and sediment pore water samples were analyzed for VOCs only.

Waste Management

All soil cuttings and well development water were containerized in 55-gallon drums and stored on-Site pending sampling and analysis for disposal. Investigation waste disposal documentation is provided in Attachment 10.

2.2.4 Analytical Methods

All soil and groundwater samples were placed in laboratory-supplied sample containers containing preservatives appropriate for the intended analyses, where applicable. The containers were labeled, stored at 4°C, and transported to TestAmerica, Inc., along with proper chain-of-custody documentation, for laboratory analysis. The samples were collected, handled, and analyzed according to the procedures listed in the KERAMIDA SOP for Sample Containers, Preservatives, and Holding Times, presented in Attachment 7.

The following analytical methods were used for samples collected during the investigation:

- VOCs – EPA Method 8260B
- PAHs – EPA Method 8270C
- PCBs – EPA Method 8082
- RCRA Metals – EPA Method 6000/7000 series

2.3 SITE INVESTIGATION RESULTS

2.3.1 Site Geology and Hydrogeology

The following sections describe Site geology and hydrogeology based on previous work and work performed by KERAMIDA. Investigation soil boring and well boring logs are provided in Attachments 8 and 9, respectively. Available soil boring and well boring logs from previous investigations are also included in these Attachments 8 and 9. The purpose of this section is to present an inclusive description of the geologic and hydrogeologic characteristics of each

identified geologic and hydrostratigraphic unit at the Site and to set forth a Site hydrogeologic model to serve as a basis of understanding of contaminant transport at the Site.

Site Geology

The Site surface elevation ranges from approximately 715 feet above MSL at the north end of the property to 705 feet above MSL near Little Eagle Creek. Within a one-mile radius of the Site, the surface elevation ranges from a high of approximately 725 feet above MSL to a low of approximately 710 feet above MSL and generally slopes down from the northwest towards the southeast. Figure 1 depicts the topographic relief of the Site and surrounding area.

Soils at the Site generally consist of various mixtures of silty and sandy clays, sands, and sands and gravels. The general stratigraphy is characterized by an upper silty clay, underlain by sand and sand and gravel material, which overlays a silty clay aquitard (i.e. basal clay for purposes of this Investigation). Interpretive geologic cross-sections depicting the subsurface stratigraphy were prepared based on the geologic cross-section lines depicted in Figure 10. Two geologic cross-sections (A-A' and B-B') depicting the subsurface stratigraphy from the north across the Site to the south beyond Little Eagle Creek are presented as Figures 10a and 10b, respectively. Three geologic cross-sections (C-C', D-D', and E-E') depicting the subsurface stratigraphy across the Site from the west to the east are presented as Figures 10c through 10e.

Geologic Cross Section A-A'

Geologic cross-section A-A' transects north to south across the western source area, the Michigan Meadows Apartments, and south of Michigan Street (Figure 10a). On-Site, the upper clay layer ranges in thickness between approximately 2 and 11 feet. A sand layer is observed within the upper clay in the southern portion of the source area in the vicinity of MW-153. Off-Site across Little Eagle Creek, the upper clay is generally thinner and decreasing in thickness until disappearing to the south in MW-169.

The on-Site water-bearing unit consists primarily of sand. Inter-bedded sand and gravel is observed in the sand at MW-161 near Little Eagle Creek as the sand and gravel becomes more prominent off-Site to the south. On-Site, the top of the sand ranges between approximately 701 to 707 feet above MSL and ranges in thickness from approximately 14 feet in MW-153 to approximately 24 feet in MW-147. The water-bearing unit off-Site to the south is thicker and

characterized by an alternating sequence of sand and sand and gravel. The top of the water bearing unit ranges between approximately 698 to 703 feet above MSL and ranges in thickness between approximately 17 feet in MW-167 located along Michigan Street to approximately 37 feet in MW-166 located in the central portion of the Michigan Meadows Apartments.

The top of the basal silty clay is encountered as high as approximately 687 feet above MSL on-Site in MW-148 and as low as approximately 662 feet above MSL off-Site in MW-166D. In general, the basal clay is shallower on-Site, dips downward to the south in the vicinity of Little Eagle Creek, and rises to its highest off-Site elevation in MW-167 located at Michigan Street. The dip of the clay in the vicinity of Little Eagle Creek suggests an erosional feature in the basal clay. Although not investigated in all borings, the thickness of the basal clay was observed to be at least 40 feet in MW-302. In MW-302, a thin water-bearing sand was encountered in the basal clay at an elevation of approximately 662 feet above MSL (47 feet bgs).

Geologic Cross Section B-B'

Geologic cross-section B-B' transects north to south across the eastern portion of the Site, the Michigan Meadows Apartments, and south of Michigan Street (Figure 10b). On-Site, the upper clay layer in the eastern portion of the Site is more consistent in thickness than in the western portion and ranges between approximately 5 and 9 feet in thickness. Off-Site across Little Eagle Creek, the upper clay appears to have been replaced in areas with fill material presumably due to land development.

Along the eastern side of the building between KB-28 and KB-14, the water-bearing unit consists primarily of sand and gravel. Between KB-15 and MW-150/200 the sand and gravel transitions into sand, which continues the remaining distance towards Little Eagle Creek. On-Site, the top of the aquifer material ranges in elevation between approximately 704 to 708 feet above MSL. The thickness ranges between approximately 18 feet in MW-150/200 to approximately 19 feet in MW-151/201/301. Off-Site to the south, the water-bearing unit consists of both sand and sand and gravel and ranges in thickness between 15 feet in MW-168D to at least 34 feet in MW-171D.

In contrast to cross-section A-A', the basal clay in the east portion of the Site appears considerably thinner than in the western portion of the Site and differentiates the water-bearing unit into upper and lower zones. On-Site, the thickness of the basal clay ranges from approximately 7 feet in MW-150/200 to approximately 12 feet in MW-151/201/301 and occurs at elevations between 685 feet above MSL in MW-151/201/301 to 690 feet above MSL in MW-150/200. The lower water-bearing unit occurs at elevations between 683 feet in MW-150/200 to approximately 673 feet above MSL in MW-151/201/301 and reaches a thickness of at least 17 feet. Off-Site, the clay between the upper and lower water-bearing units appears as discontinuous layers in KB-6, MW-168D, and MW-171D. The thickness of the lower water-bearing sand in MW-171D is approximately 29 feet before encountering a lower silty clay layer at an elevation of approximately 663 feet above MSL. On-Site borings MW-150/200 and MW-151/201/301 were advanced to elevations of approximately 664 and 662 feet above MSL, respectively, and did not encounter the lower clay.

Geologic Cross Section C-C'

Geologic cross-section C-C' transects west to east across the northern potion of the Site and into the adjacent residential area east of Olin Avenue (Figure 10c). The upper clay layer ranges in thickness between approximately 3 and 11 feet and is overlain by fill material used in Site development. Encountered fill beneath the building noted in soil borings KB-i1 and KB-i4 represents buried waste associated with historic Site operations. The vertical extent of the buried waste ranges from approximately 3 to 5 feet below surface grade. Sand and gravel is observed immediately below the upper clay, which thickens towards the east. The water-bearing unit consists primarily of sand in the western portion of the Site and grades to primarily sand and gravel to the east. Thins layers of sandy silt and sandy clay are observed in the sand and gravel in the eastern portion of the Site.

As part of the investigation, soil borings were advanced in the interior of the building near the western end to delineate the extent of buried waste covered by the building, which was expanded in 1970. As shown in Figure 10c (cross-section C-C'), the buried waste terminates to the east between borings KB-i4 and KB-i7. Buried waste to the south was excavated during the removal action discussed in Section 3.2. Based on removal action results, the buried waste does not appear to extend to the north beyond the footprint of the building.

Geologic Cross Section D-D'

Geologic cross-section D-D' transects west to east across the southern portion of the Site and into the adjacent residential area east of Olin Avenue (Figure 10d). The stratigraphy is similar to that in C-C'. The water-bearing unit consists primarily of sand with sand and gravel observed to the east in MW-164. The thickness of the water-bearing unit increases to the east and becomes differentiated into an upper and lower water-zone as evidenced by a silty clay layer in MW-150/200. The basal clay observed in MW-153/202/302 appears to significantly thin or dip to the east toward MW-150/200 suggesting an erosional feature in the basal clay. The basal clay was observed at an elevation of approximately 690 feet above MSL in MW-153/202/302 with a thickness of at least 40 feet. The basal clay was not encountered in MW-150/200, however, the separating clay between the upper and lower water-bearing unit was observed to be 5 to 6 feet in thickness.

Geologic Cross Section E-E'

Geologic cross-section E-E' transects west to east across the Michigan Meadows Apartments property and into the adjacent residential area east of Olin Avenue (Figure 10e). The stratigraphy is also similar to that in C-C'. The water-bearing unit consists of both sand and sand and gravel. The thickness of the water-bearing unit is approximately 33 feet in KB-18 located on the eastern side of Holt Road. The basal clay at this location was encountered at an elevation of approximately 667 feet above MSL, about 53 feet bgs.

As part of the investigation, soil borings were advanced in the interior of the building near the western end to delineate the extent of buried waste covered by the building, which was expanded in 1970. As shown in Figure 10c (cross-section C-C'), the buried waste terminates to the east between borings KB-i4 and KB-i7. Buried waste to the south was excavated during the removal action discussed in Section 3.2. Based on removal action results, the buried waste does not appear to extend to the north beyond the footprint of the building.

Site Hydrogeology

Consistent with the baseline geological information, groundwater occurrence is characterized by water-bearing glacial drift deposits separated by confining silty clay aquitards. At the Site, groundwater is encountered under unconfined conditions within the near surface sand and sand and gravel beneath the surficial silty clay. Beneath the sand and gravel, a basal silty clay

aquitard is encountered that appears thickest in the western portion of the Site (MW-153/202/302) and decreases in elevation to the east and south suggesting an erosional surface. As the basal clay decreases in elevation, the water-bearing sand and gravel thickens and in areas may be differentiated into upper and lower zones by discontinuous silty clay layers (see MW-150/200 and MW-151/201/301). The lower sand in these areas is thought to exist under confined or semi-confined conditions.

Groundwater levels measurements have been collected at the Site since 1995. Table 1 presents a summary of historic water level and groundwater elevation data. The groundwater elevation in the upper water-bearing unit since 1995 has ranged from a low of 695.69 feet above MSL in MW-164 in November 2000 to a high of 702.75 in MW-148 in February 1997. The average groundwater elevation in the upper water-bearing unit since 1995 is 699.74 feet above MSL (approximately 13 to 15 feet bgs). Groundwater level fluctuation ranges from approximately 1.5 to 2 feet during the year. The groundwater elevation in deep wells ranged from a low of 689.10 feet above MSL in MW-165D in January 2002 to a high of 701.07 in MW-200 in February 1997. The average groundwater elevation in the deep wells since 1995 is 698.95 feet above MSL. The groundwater elevation in wells screened in the basal clay (MW-201, MW-202, and MW-302) has ranged from a low of 689.10 feet above MSL in MW-202 in July 1995 to a high of 700.68 in MW-200 in February 1997. The average groundwater elevation in the basal clay is 699.04 feet above MSL. Table 2 provides a summary of groundwater fluctuation in monitoring wells over time. Hydrographs for individual wells are presented in Attachment 11.

Calculated vertical gradients between shallow and deep wells over time are summarized in Table 3a. The vertical gradient was calculated by dividing the difference in water level in feet between the shallow and deep well of a monitoring well pair by the distance between their respective screen mid-points. The mid-point of the shallow well screen was calculated by determining the saturated screen thickness and adding half of that thickness to the elevation of the screen bottom. As seen in Table 3a, a downward vertical gradient was observed in five of the seven gauging events between the upper and lower sand in MW-150 and MW-200 located in the eastern portion of the Site. In contrast, a general upward vertical gradient was observed in six of the seven gauging events between the upper and lower sand in MW-151 and MW-301, which are located roughly 200 feet south of MW-150 and MW-200. Well triplet MW-153/202/302 located in the western portion of the Site exhibits a general downward gradient. It should be noted that wells

MW-202 and MW-302 are screened within the clay aquitard. Based on the January 2002 water level data collected from well pairs recently installed within the upper sand (MW-165 through MW-171), a general downward gradient exists within the upper sand.

The water level data were used to prepare the interpretive groundwater potentiometric surface maps for both the shallow and deep monitoring wells. Shallow zone potentiometric surface maps are present as Figures 11a through 11e. The deep zone potentiometric surface is presented as Figure 11f. The maps present the groundwater potentiometric surface in February 2000, November 2000, June 2001, July 2001, and January 2002. As shown in the Figures 11a through 11e, groundwater flows in a general southeasterly direction. A more southerly flow component is observed in the western potion of the Site, which turns increasingly eastward towards the eastern portion of the site and neighboring residential area. Calculated horizontal gradients over time in the shallow zone were calculated and are summarized in Table 3b. As seen in Table 3b, the horizontal gradient is generally between 10^{-2} and 10^{-3} with an average of 0.0066.

Surface water elevations were collected from stream gauges located at Holt Road and Olin Avenue concurrent with water level measurements collected from Site wells on July 24, 2001 and January 30, 2002. Both the groundwater elevations and surface water elevation are included on Figures 11d and 11e. As seen in Figure 11d, the groundwater potentiometric surface appears to coincide with the surface water elevation of Little Eagle Creek indicating that groundwater is discharging to Little Eagle Creek. In contrast, surface water elevations presented in Figure 11e are higher than groundwater elevations in the vicinity of Little Eagle Creek. The potential for groundwater discharge into Little Eagle Creek is also depicted in geologic cross-sections A-A' and B-B'. Figure 11f presents the groundwater potentiometric surface in the deep monitoring wells based on the January 30, 2002 water level data. As seen in Figure 11f, groundwater flow in the deep zone trends in a more southerly direction. The hydraulic gradient in the lower sand was calculated at approximately 0.0025.

Aquifer slug tests were conducted by Fluor Daniel GTI, Inc. in wells screened within the upper sand aquifer, the basal clay, and the lower confined sand aquifer to estimate the hydraulic conductivity (K) of each unit (see Fluor Daniel GTI - Remedial Investigation Report in Attachment 5, Table 3). Resulting K values were estimated at 137 feet/day for the upper water table aquifer, 0.012 feet/day for the middle silt-clay aquitard, and 9.1 feet/day for the lower

confined/semi-confined aquifer. Additional information regarding the slug test methods and analysis used by Fluor Daniel GTI can be found in the Remedial Investigation provided in Attachment 5. Based on the estimated hydraulic conductivity, groundwater seepage velocity of the upper and lower sand units was calculated using the equation:

$$v_s = k\ I/n_e$$

Where: v_s = groundwater seepage velocity (feet/day)
k = hydraulic conductivity (feet/day)
I = hydraulic gradient (unitless)
n_e = effective porosity (unitless)

Based on an average K value of 137 feet/day, a hydraulic gradient of 0.0066, and an assumed effective porosity of 0.25, the estimated groundwater seepage velocity in the upper sand unit is calculated at 3.62 feet/day. Based on an average K value of 9.1 feet/day, a hydraulic gradient of 0.0025, and an assumed effective porosity of 0.25, the estimated groundwater seepage velocity in the lower sand unit is calculated at 0.091 feet/day.

2.3.2 Investigation Soil Analytical Results

Laboratory analytical results for soil samples collected during the investigation are presented below and separated by surface soil and subsurface soil results. Soil samples collected as part of the removal action to delineate and characterize buried waste beneath the building are also included in this Section. Analytical summary tables are provided. The analytical results in the summary tables and figures are color coded to assist in data presentation. Values presented in green indicate that a given analyte was detected at a concentration below VRP Tier II Residential Cleanup Goals. Values presented in yellow indicate that a given analyte was detected at a concentration above VRP Tier II Residential Cleanup Goals, but below VRP Tier II Non-Residential Cleanup Goals. Values presented in red indicate that a given analyte was detected at a concentration above VRP Tier II Non-Residential Cleanup Goals. Laboratory analytical reports are provided in Attachment 12.

Surface Soil Results

A total of seven surface soil samples have been collected and submitted for VOC analysis during previous sampling activities and the KERAMIDA Investigation sampling. Surface soil analytical results are summarized in Table 4a through 4c and presented in Figures 12a through 12c. Thirty-nine additional surface soil samples were collected and analyzed for VOCs during removal action confirmation sampling. Results of this sampling is discussed in Section 3.2.7.

VOCs were detected in six of the seven surface soil samples submitted for analysis. Surface soil VOC results are presented in Figure 12a. Detected VOCs included methylene chloride, tetrachloroethene (PCE), and trichloroethene (TCE). None of these compounds were detected above their respective Tier II Non-Residential Cleanup Goals.

As shown in Table 4b, PAHs were in detected in five of the eighteen surface soils submitted for analysis. None of the samples contained PAH concentrations in excess of Tier II Non-Residential Cleanup Goals. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were detected at concentrations above their respective Tier II Residential Cleanup Goals. Surface soil PAH results are presented in Figure 12b.

As shown in Table 4c, metals were detected in all of the twenty-four samples submitted for analysis. No metal was detected at a concentration exceeding its respective Tier II Non-Residential Cleanup Goal. Total chromium was detected above its respective Tier II Residential Cleanup Goal in GP-2 located in the western portion of the Site. Lead was also detected above its respective Tier II Residential Cleanup Goal in GP-2 and in KB-36 located in central area of the Site. Surface soil metals results are presented in Figure 12c.

Subsurface soil

As shown in Table 5a, VOCs were detected in fifty-two of the sixty-eight subsurface soil samples submitted for analysis. VOCs detected at concentrations above their respective Tier II Residential Cleanup Goals include PCE, TCE, and cis-1,2-dichloroethene (DCE). VOCs detected at concentrations above their respective Tier II Non-Residential Cleanup Goals also include PCE, TCE, and cis-1,2-DCE. TCE exceeded its respective Tier II Non-Residential Cleanup Goal in KB-33 located along the west central Site property boundary and in SB-132 (i.e. MW-132) located in the northwestern portion of the Site. Cis-1,2-DCE exceeded its respective

Tier II Non-Residential Cleanup Goal in KB-33. PCE exceeded its respective Tier II Non-Residential Cleanup Goal in KB-24 located south of the Michigan Plaza commercial property. Subsurface soil VOC results are presented in Figure 13a.

As shown in Table 5b, PAHs were in detected in three of the thirty-one subsurface soils submitted for analysis. None of the samples contained PAH concentrations in excess of Tier II Non-Residential Cleanup Goals. Benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were detected at concentrations below their respective Tier II Residential Cleanup Goals in KB-i1 located beneath the western end of the facility building. Subsurface soil PAH results are presented in Figure 13b.

As shown in Table 5c, metals were detected in all of the thirty samples submitted for analysis. Cadmium was detected above its respective Tier II Non-Residential Cleanup Goal in KB-6i located inside the western end of the facility. Lead was detected above its respective Tier II Non-Residential Cleanup Goal in buried waste at three locations beneath the western end of the building and at KB-33 located along the west central Site property boundary. Lead was also detected above its respective Tier II Residential Cleanup Goal at two other locations beneath the western end of the building and in SB-101 located just outside the western end of the building. No other metals were detected at concentrations above Tier II Residential Cleanup Goals. Subsurface soil metals results are presented in Figure 13c.

Field and Laboratory QA/QC Evaluation

The soil samples were analyzed using a combination of Data Quality Objective (DQO) Levels II and IV. A total of sixty-nine surface and subsurface soil samples, seven duplicate samples, four matrix spike/matrix spike duplicate (MS/MSD) samples, and four trip blanks were submitted and analyzed for cadmium, chromium, and lead by EPA SW-846 Method 6010B, VOCs by EPA SW-846 Method 8260B, and PAHs by EPA SW-846 Method 8310/8270. Not all samples were analyzed for all constituents. No VOCs were detected in any of the trip blanks. Based on the laboratory QA/QC data, the results are acceptable for use with no qualifications.

2.3.4 Investigation Groundwater Analytical Results

Groundwater analytical results presented in this section include those samples collected from soil borings and those collected from monitoring wells. Groundwater analytical results are summarized in Tables 6a-6c through 8a-8c and presented in Figures 14a-14c through 15a-15c. The summary tables include all time series monitoring well data, which began as early as March 1994. Both soil boring groundwater data and the most recent monitoring well groundwater data have been combined in the figures for the purpose depicting the magnitude and extent of groundwater concerns at the Site. As with the soil analytical summary tables, detected concentrations are color coded to assist in data presentation. Laboratory analytical reports are provided in Attachment 12.

VOCs

Tables 6a, 7a, and 8a present a summary of all groundwater VOC data collected at the Site from Geoprobe® borings, shallow monitoring wells, and deep monitoring wells, respectively. VOCs detected at concentrations above their respective Tier II Non-Residential Cleanup Goals include 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, TCE, and vinyl chloride. Other VOCs detected at concentration above their respective Tier II Residential Cleanup Goals include only PCE. Figures 14a and 15a present shallow and deep VOC analytical results in groundwater, respectively.

PAHs

Tables 6b, 7b, and 8b present a summary of all groundwater PAH data collected at the Site from Geoprobe® borings, shallow monitoring wells, and deep monitoring wells, respectively. Time series data are not available since PAHs have only recently been added to the list of COCs. PAHs have not been detected at concentrations exceeding Tier II Non-Residential Cleanup Goals. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were detected at concentrations above their respective Tier II Residential Cleanup Goals in monitoring wells MW-162 off-Site to the east along the eastern edge of Olin Avenue and in MW-200 located on-Site near the eastern property boundary. Figures 14b and 15b present shallow and deep PAH analytical results in groundwater, respectively.

Metals

Total metals detected in groundwater are presented in Tables 6c, 7c, and 8c and presented in Figures 14c and 15c. Total cadmium was detected at a concentration above its respective Tier II Non-Residential Cleanup Goal in deep well MW-301 located off-Site to the southeast in November 2000. MW-301 was again sampled in June 2001 and found to contain no detectable total cadmium. Total cadmium was not detected at any other location. Total lead was detected at concentrations above its respective Tier II Non-Residential Cleanup Goal in multiple wells located both on-Site and off-Site, however, the lead is erratic in distribution and does not appear as an identifiable plume. Total chromium was detected at concentrations below its respective Tier II Residential Cleanup Goal in both on-Site and off-Site wells. Total chromium was detected above its respective Tier II Residential Cleanup Goal in MW-146 located along the southern Site property boundary. Figures 14c and 15c present shallow and deep total metals analytical results in groundwater, respectively.

Field and Laboratory QA/QC Evaluation

Geoprobe® Groundwater Samples

The groundwater samples were analyzed using a combination of Data Quality Objective (DQO) Levels II and IV. A total of 30 groundwater samples, three duplicate samples, two matrix spike/matrix spike duplicate (MS/MSD) samples, and seven trip blanks were submitted and analyzed for cadmium, chromium, and lead by EPA SW-846 Method 6010B, VOCs by EPA SW-846 Method 8260B, and PAHs by EPA SW-846 Method 8310. Not all samples were analyzed for all constituents. No VOCs were detected in any of the trip blanks.

Based on the laboratory QA/QC data, the VOC, PAH, and total metals results are acceptable for use as screening level data with no qualifications.

Monitoring Well Groundwater Samples

All data were analyzed using Data Quality Objective (DQO) Level II. A total of twenty-nine water samples, five duplicate samples, two matrix spike/matrix spike duplicate (MS/MSD) samples, and two trip blanks were submitted and analyzed for cadmium, chromium, and lead by EPA SW-846 Method 6010B, VOCs by EPA SW-846 Method 8260B, and PAHs by EPA SW-846 Method 8310. No VOCs were detected in any of the trip blanks at normal reporting limits.

Based on the laboratory QA/QC data, the VOC, PAH, and total metals results are acceptable for use with no qualifications. Low levels of naphthalene and 1,2,3-trichlorobenzene were detected in a method blank for the VOC analysis. No qualification of the data is necessary as neither of these compounds was detected in the investigation samples.

2.3.5 Ecological Sample Analytical Results

Analytical results for surface water, sediment, and sediment pore water samples collected from Little Eagle Creek are presented in Tables 9, 10, and 11, respectively, and in Figure 16. No VOCs were detected in sediment samples from Little Eagle Creek.

Cis-1,2-DCE was detected in two surface water samples during the October 1994 sampling event. The detected concentrations were 17 ug/L in sample ST-2 and 14 ug/L in sample ST-3. USEPA does not list an Ambient Water Quality Criterion (AWQC) or a Tier II freshwater criterion for this compound (USEPA 1996). However, the National Oceanic and Atmospheric Administration (NOAA) lists a freshwater AWQC of 11,600 ug/L. The cis-1,2-DCE concentrations detected in ST-2 and ST-3 were well below the NOAA AWQC of 11,600 ug/L.

In the sediment pore water samples collected in March 2000, cis-1,2-dichloroethene was detected in 2 samples and TCE was detected in one sample. As stated above, no surface water criteria are available from USEPA for cis-1,2-dichloroethylene. The detected TCE concentration was 19 ug/L, which is below the USEPA Tier II freshwater criterion for trichloroethene of 350 ug/L.

<u>Field and Laboratory QA/QC Evaluation</u>

Sediment Samples

All data were analyzed using Data Quality Objective (DQO) Level II. A total of five sediment samples were submitted and analyzed for VOCs by EPA SW-846 Method 8260B. No trip blank was sent with these samples.

Based on the laboratory QA/QC data, the VOC results are acceptable for use as screening level data with no qualifications.

Surface Water Samples

All data were analyzed using Data Quality Objective (DQO) Level II. A total of five surface water samples were submitted and analyzed for VOCs by EPA SW-846 Method 8260B. No trip blank was sent with these samples.

Based on the laboratory QA/QC data, the VOC results are acceptable for use as screening level data with no qualifications.

Sediment Pore Water Samples

All data were analyzed using Data Quality Objective (DQO) Level II. A total of five sediment pore water samples were submitted and analyzed for VOCs by EPA SW-846 Method 8260B. No trip blank was sent with these samples.

Based on the laboratory QA/QC data, the VOC results are acceptable for use as screening level data with no qualifications.

3.0 REMEDIATION

Provided below is a summary of remedial actions completed to date. The remedial alternative selection process and selected remedies will be detailed in the Remediation Work Plan.

3.1 GROUNDWATER REMEDIATION SYSTEM

The Investigations identified two separate VOC groundwater plumes associated with two separate source areas. These source areas are located in the western and southeastern portions of the Site. VOC groundwater contamination from these two source areas extends southward off the property in the direction of groundwater flow.

3.1.1 Evaluation and Design

Alternatives for the remediation of these two source areas of groundwater contamination were screened by using matrices for evaluating remediation strategies. These matrices were based upon applicability (technical feasibility), protection of public health and the environment, cost and treatment time, and administrative considerations. Various active remediation options in combination with each other were considered for source area treatment including:

- Soil Vapor Extraction,
- Groundwater Pump & Treat,
- Air Sparging,
- Vertical Circulation Wells, and
- Advanced Oxidation Processes

Of the above options and combinations thereof, only Soil Vapor Extraction with Groundwater Pump & Treat and Soil Vapor Extraction with Air Sparging (SVE/AS) proved to be the most technically applicable. Of these two combinations, SVE/AS was selected as the most appropriate technology based on expected operation and maintenance costs and expected duration of cleanup. A small-scale pilot test was conducted to determine operation paramcters of a full-scale SVE/AS system and applicable radius of influences for vapor extraction and air sparging. Pilot testing was conducted in both source areas. The pilot test conducted at the Site indicated a sparging radius of influence of approximately 20 feet and a soil venting radius of approximately 28 feet.

A full-scale design was completed based upon the results of the pilot testing to remediate groundwater in the source areas on-Site. In addition to the SVE/AS system, a phytoremediation system consisting of hybrid poplar trees was included into the design as a buffer line along the entire southern property line to intercept groundwater as it flows off-Site.

3.1.2 Implementation

The full-scale system design was then constructed. The SVE/AS portion of the system consists of a total of forty-four air sparging and twenty-seven vapor extraction wells, while the Phytoremediation portion of the system is comprised of two rows of hybrid poplar trees lining the entire southern property boundary. See Figure 17 SVE/AS Remediation and Phytoremediation System Layout for details.

The SVE/AS remediation portion of the system was broken into two southwestern treatment units and one southeastern treatment unit. Each treatment unit is serviced by separate equipment, with the equipment for both of the southwestern treatment units housed in one enclosure/trailer and the equipment for eastern treatment unit housed in a separate enclosure/trailer. The northern unit of the southwestern SVE/AS system is comprised of seven vapor extraction wells and ten air

sparging wells and the southern unit of the southwestern SVE/AS system is comprised of ten vapor extraction wells and nineteen air sparging wells. The southeastern treatment unit is comprised of ten vapor extraction wells and fifteen air sparging wells.

Start-up of the SVE/AS remediation system was initiated in July of 2001. Each of the southwestern units and the southeastern unit are currently operational.

3.2 BURIED WASTE REMOVAL ACTION

A buried waste removal action was conducted in response to the discovery of historic burial activity at the Site. The waste removal action spans from discovery in May 2000 to completion of the action in July 2001. The following sections describe the waste removal action conducted including background, geophysical study, exploratory trenching, waste characterization, excavation and disposal, and confirmation sampling.

3.2.1 Background

The presence of historic buried waste was discovered in May 2000 while installing groundwater remediation system piping. During this time, stained soils, decayed drums, and miscellaneous small metallic debris (automotive parts) were encountered during trenching activities in the southwest corner of the Site in the vicinity of remediation system vent well SVE-8 (see Figure 17 for location). Contaminated soil with varying amounts of debris was also encountered in the vicinity of SVE-3 and in several soil/vent well boreholes. The discovery of the buried waste prompted an investigation of the entire property (excluding areas under roof) to locate other potential burial areas. The investigation included a geophysical survey and exploratory trenching as discussed below in Sections 3.2.2 and 3.2.3. During removal, the debris was noted to extend beneath the western portion of the facility building. A Geoprobe® survey was conducted to characterize the fill material and delineate their extent. Findings of the Geoprobe® survey are discussed in Section 2.3.2.

3.2.2 Geophysical Survey

A geophysical survey of the Site was conducted in September 2000 to identify geophysical anomalies suggesting the location of other waste burial areas. The geophysical survey was conducted across the entire property excluding areas under roof of the existing building. Electromagnetic (EM) and magnetometry (MAG) techniques were selected based on the

anticipated waste type (i.e. metallic materials). EM techniques were used to locate conductive and in-phase metal and to resolve lateral feature such as pipes, tanks, and drums. MAG Techniques were used to locate magnetic anomalies associated with primarily iron or steel materials.

The geophysical survey was conducted in two phases by Geosphere, Inc. (Geosphere) of Auburn, Michigan. The first survey was conducted to the west and south of the building. The second survey was conducted on the eastern side of the building. The EM survey was performed using a Geonics EM31 conductivity instrument. EM31 data were collected along east-west survey lines spaced at five-foot intervals across the study area. Both quadratic and in-phase data were collected at a sample interval of 2.5 feet. MAG data were collected using a FEREX fluxgate magnetometer along the same east-west survey lines using the same 2.5-foot sample interval. The MAG instrument sensor was kept at least two feet above the ground surface to minimize unwanted effects from surface trash or steel objects. Data acquisition methods are described in the Geophysical Survey for Buried Materials at the Allison Engine Company Plant 10 Site report presented in Attachment 13 (Geosphere, Inc., September 2000).

The EM and MAG results of the first survey identified nine anomalies that suggested the presence of buried metallic debris. The anomalies ranged in size from 10x40 feet to 60x160. Anomalies 1 through 5 were found west of the building and south parking lot. Anomalies 6 and 8 were located within or on the edge of the south parking lot. Anomaly 9 was located in the western end of the field south of the south parking lot. The second survey identified one small anomaly located in the northeast corner of the Site. The geophysical survey report of findings including maps showing the results and locations of identified geophysical anomalies is found in Attachment 13.

3.2.3 Exploratory Trenching

In response to the results of the geophysical survey an exploratory trenching program was implemented to investigate the identified anomalies for potential buried waste. The exploratory trenching was conducted on September 19, 2000 (anomalies A4, A5, and A7) and October 6, 2000 (remaining anomalies). IDEM personnel were present during initiation of exploratory trenching on September 19, 2000. Exploratory trenches were cut across each anomaly using a backhoe excavator. Excavated material from the test trenches was placed on plastic sheeting

adjacent to the trench for examination, field screening, describing, and sampling. Upon completion, the excavated materials were placed back into the trench. Locations of the anomalies and associated test trenches are presented in Figure 18. Photodocumentation is provided in Attachment 14. The following describes waste material encountered during trenching.

Anomaly A1

This anomaly covered approximately 2,000 square feet. Materials encountered included decayed (e.g. partial drums, drum pieces, crushed drums, etc.) metal drums, small parts, and other metallic and miscellaneous debris. Organic vapor screening using a photo-ionization detector (PID) did not indicate the presence of organic vapors above background levels. The waste terminated at approximately 5.5 feet below ground surface (bgs) in the trench area and was typically encountered at approximately 2 feet bgs. Assuming an average thickness of approximately 4 feet, a volume of roughly 8,000 cubic feet of waste was estimated to exist in A1.

Anomaly A2

This anomaly covered approximately 3,500 square feet. Although similar materials to A1 were encountered, the waste in this anomaly was generally less concentrated than in A1 and contained a greater amount of soil. Field screening results indicated volatile organic vapors approaching 200 parts per million vapor (ppmv). The waste terminated at approximately 5.5 feet below ground surface (bgs) in the trench area and was typically encountered at 1.5 feet bgs. Assuming an average thickness of approximately 4 feet, a volume of roughly 14,000 cubic feet of waste was estimated to exist in A2.

Anomaly A3

This is the largest anomaly and covered approximately 12,000 square feet. The greatest concentration of waste was noted in this area. Materials encountered included multiple decayed metal drums, small parts, metal stampings and strapping, apparent brake and clutch linings, and other metallic and miscellaneous debris. Black staining and petroleum odors were noted towards the southern end of the test trench. PID readings in this area, however, were low and in the 10 to 20 ppmv range indicating the presence of heavy-end petroleum constituents. A smaller extension of the A3 anomaly extends to the southwest from the main body of A3. This portion of the anomaly is characterized by significantly less debris, but higher soil contamination. Soil

in this portion of A3 contained a noticeable solvent odor and yielded PID readings in the range of 150 to 200 ppmv. Waste was typically encountered at 2 feet bgs in the main area of A3 and about 1foot bgs in the southwestern extension and terminated as deep as 7 feet bgs. Assuming an average thickness of approximately 5 feet, a volume of roughly 60,000 cubic feet of waste was estimated to exist in A3.

Anomaly A4

This anomaly covered approximately 600 square feet. Materials encountered included small parts, and other small metallic and miscellaneous debris. No elevated PID measurements were noted in this anomaly. The waste was encountered at about 1 foot bgs and terminated at approximately 3 feet bgs. Assuming an average thickness of approximately 2 feet, a volume of roughly 1,200 cubic feet of waste was estimated to exist in A4.

Anomaly A5

This anomaly covered approximately 1,800 square feet. Material encountered in A5 was similar to A4, although not as concentrated. Here again, no significant PID measurements were noted. As in A4, the waste was encountered at about 1 foot bgs and terminated at approximately 3 feet bgs. Assuming an average thickness of approximately 2 feet, a volume of roughly 3,600 cubic feet of waste was estimated to exist in A5.

Anomaly A6

This anomaly covered approximately 2,200 square feet. Materials encountered, depths, and field-screening results were similar to those in A5. Assuming an average thickness of approximately 2 feet, a volume of roughly 4,400 cubic feet of waste was estimated to exist in A6.

Anomaly A7

This anomaly covered approximately 900 square feet and was interpreted by the geophysical survey results to represent a possible buried tank. No tank was encountered in the exploratory test trench. Shallow small metallic debris was observed just below the asphalt and terminated at about 2 feet bgs. No elevated PID readings were noted. Assuming an average thickness of approximately 2 feet, a volume of roughly 1,800 cubic feet of waste was estimated to exist in A7.

Anomaly A8

This anomaly covered approximately 600 square feet. As in A7, shallow small metallic debris was observed within the upper 2 feet bgs. Concrete rubble was also observed near the base of the trench. No elevated PID readings were noted. Assuming an average thickness of approximately 2 feet, a volume of roughly 1,200 cubic feet of waste was estimated to exist in A8.

Anomaly A9

This small anomaly contained two crushed metal drums just below the ground surface. No apparent drum contents were noted in the surrounding soils and field screening did not indicate the presence of contamination. The entire anomaly was investigated and therefore no further waste was considered to remain in this area.

Anomaly A10

This small anomaly (referenced as A1 in Figures 5.1 through 5.3 in the geophysical survey report) contained one piece of steel rebar and one small metal plate just below the asphalt parking lot. No soil contamination was observed. The entire anomaly was investigated and therefore no further waste was considered to remain in this area.

3.2.4 Waste Removal Action

The exploratory trenching program confirmed the presence of buried waste in the western and southwestern areas of the Site. The types of material encountered and analytical results of the sampled material indicated that the waste was a likely source of the VOCs historically found at the Site as well as other potential COCs such as metals and PAHs. In response to these findings, a removal action was designed and implemented to mitigate the buried waste concern. The remedial action consisted of waste sampling, analysis, and waste determination, waste excavation, transport, and disposal, confirmatory soil sampling, and restoration.

3.2.5 Waste Determination

The first task of the removal action was to perform a waste determination to evaluate appropriate options for disposition of the buried waste. Historically, investigation derived wastes generated at the Site were classified as listed hazardous waste (F001, F002, F003), presumably due to the presence of chlorinated VOC detected in soil and groundwater samples. The F-listing of waste began prior to Genuine Parts involvement in the project and is considered to have been a

conservative measure taken by General Motors to classify the waste in absence of a known or suspected source. The contamination at the Site does not appear to be related to a particular process feature such as a degreaser or dip tank and there are no available records to indicate the source and composition of the solvents or how they were used. The IDEM Industrial Waste Section was petitioned by letter on December 6, 2000, to provide approval regarding classification of the buried waste based on its hazardous characteristic rather than on its historic listed hazardous waste codes. The IDEM subsequently responded by letter and concurred with the interpretation that the buried waste need not be classified as listed waste (see documentation in Attachment 15.

Samples of material excavated during exploratory trenching were collected and analyzed to determine potential hazardous characteristics. Primary hazardous constituents of concern included VOCs, Resource Conservation and Recovery Act (RCRA) metals, and PAHs. Asbestos and polychlorinated bi-phenyls (PCBs) analyses were also performed on a one-time basis to rule out these concerns.

Composite waste samples were collected from each waste burial area and analyzed for Toxicity Characteristic Leachate Procedure (TCLP) VOC, TCLP metals, total VOC using EPA Method 8260, and total RCRA metals using EPA Methods 6000/7000. TCLP results indicated that waste area A1, A2, and the southwestern extension of A3 exhibited a hazardous characteristic for lead, and A2 and the southwestern extension of A3 exhibited a hazardous characteristic for cadmium. TCLP VOC results were below regulatory limits in all areas. Total VOC results indicated that A2 and the southwestern extension of A3 contained trichloroethene (TCE) above universal treatment standards. Waste characterization analytical results are presented in Tables 9a, 9b, 10a, and 10b. Waste profile documentation and waste characterization analytical reports are presented in Attachment 15.

3.2.6 Waste Excavation and Disposal

The waste removal action consisted of 1) identification and marking of all underground and overhead utilities, 2) removal and stock-piling of asphalt and clean overburden soil, 3) excavation, loading, and transporting of waste, 4) confirmatory soil sampling, and 5) restoration. Excavation activities were conducted between April 5, 2001 and July 6, 2001. Non-hazardous waste was either loaded directly into tri-axle dump trucks, or if necessary, stockpiled for future

loading. Non-hazardous waste was transported for final disposition at Waste Management's Twin Bridges Landfill in Danville, Indiana. All hazardous waste was loading directly into end-dumps for transport to Envirosafe Services of Ohio, Inc. (Envirosafe) in Oregon, Ohio.

Hazardous waste from areas A1, A2, and A3 was excavated between April 9, 2001 and July 6, 2001. During this time 190 loads of waste were transported and disposed at Envirosafe resulting in a total of 4,981.51 tons. Copies of hazardous waste manifests and a Profile Activity Status Report are included in Attachment 15. Non-hazardous waste from areas A3 through A8 was excavated between April 6, 2001 and May 22, 2001. During this time 264 loads of waste were transported and disposed at Twin Bridges Landfill in a total of 4,805.20 tons. Copies of non-hazardous waste disposal manifests and a profile summary report are also included in Attachment 16. Photodocumentation is included in Attachment 14.

3.2.7 Excavation Confirmation Soil Sampling Results

Confirmation soil sampling was performed during waste removal activities in accordance with VRP completion sampling guidance. One surface and one subsurface soil confirmation sample were collected at each of the sidewall sample locations, which were spaced at approximately 50-foot intervals along the excavation perimeter. Floor samples were collected at minimum of four samples per 10,000 square feet of area. Samples were analyzed for VOCs by EPA Method 8260B, PAHs by EPA Method 8270, and cadmium, chromium, and lead by EPA Method Series 6000/7000 using Data Quality Objective (DQO) Level IV.

A depiction of the removal action excavation areas is shown on Figures 19a and 19b. Surface and subsurface confirmation sample locations and analytical results are also presented in Figures 19a and 19b, respectively. Surface and subsurface soil confirmation sampling results are presented in Tables 14a-c and 15a-c, respectively. No surface soil sample contained VOC, PAH, cadmium, or chromium at concentrations above Tier II Residential or Non-Residential Cleanup Goals. Lead was detected at concentrations above its respective Tier II Residential Cleanup Goal in 14 samples and above its respective Non-Residential Cleanup Goal in seven samples. Of the 14 samples above Residential Cleanup Goals, two were collected near the property boundary. These included one to the southwest (A1-SW4 at 1,200 mg/kg) and one to the north (A3-SW2 at 559 mg/kg). Further excavation at these locations was not possible due to physical limitation at the property boundary. It should be noted, however, that all buried waste

had been removed at these locations prior to sampling. At locations where lead concentrations were detected above Non-Residential Cleanup Goals, further excavation and confirmation sampling were performed where feasible. Areas where further excavation were performed included the northern and southern walls of A6 and the eastern and western walls of A8. Cleanup objectives were attained in each of these areas except for the northern wall of A6 where excavation was terminated against the foundation of the building. Waste was observed to apparently extend beneath the building in this area and in A3. Further excavation was not feasible in the southwest corner of A1 and the north central wall of A3. Here again it should be noted that all buried waste had been removed at these locations prior to sampling.

No subsurface soil sample contained PAH, cadmium, or chromium at concentrations above Tier II Residential or Non-Residential Cleanup Goals. Tetrachloroethene (PCE) was detected at concentrations above its respective Residential Cleanup Goal in six samples. Only A2SW1, at 5.9 ug/kg, was located at the property boundary (west wall of A2). Further excavation here was not feasible. However, it should be noted that all buried waste was removed from this area. PCE was not detected above its respective Non-Residential Cleanup Goals in any sample. Trichloroethene (TCE) was detected at concentrations above its respective Residential Cleanup Goal in twenty-five samples. Only one sample, A2SW1 at 22 ug/kg, was located at the property boundary. TCE was detected at concentrations above its respective Non-Residential Cleanup Goal of 25.73 mg/kg at three locations: (1) the floor of A2 (A2F1 at 51 mg/kg), (2) the southern area floor of A3 (A3F9 at 62 mg/kg), and (3) the eastern wall of A5 (A5SW1 at 33 mg/kg). No additional excavation work was performed in these areas as all buried waste had been removed and the areas were located within the treatment area of the groundwater remediation system. Lead was detected at concentrations above its respective Tier II Residential Cleanup Goal in six samples and above its respective Non-Residential Cleanup Goal in one sample. None of the six samples above Residential Cleanup Goals were located near the property boundary. Lead was detected above its respective Non-Residential Cleanup Goal at the floor of A1 (A1F2 at 1,400 mg/kg). All buried waste at this location had been removed and access limitations precluded deeper excavation in this area.

As mentioned previously, buried waste remains beneath a portion of the western end of the building as observed during the excavation of areas A3 and A6 and confirmed during the interior Geoprobe® survey. The buried waste extends approximately 100 feet to the east beneath the

building and is limited to the north and south by the footprint of the building. The horizontal extent of the buried waste beneath the building is depicted in Figure 19a. Based on the Geoprobe® survey, the buried waste typically begins one to feet bgs and terminates at depths ranging from 3 to 5 feet bgs (see boring logs KB-i1, KB-i2, KB-i4, KB-i5, KB-i6). A thin layer of parts was noted between 13 and 13.5 feet bgs in KB-i4. In general, the buried waste beneath the building consists of a similar mixture of small metal parts and other debris encountered in area A1. The only exception is a one-foot thick layer of powdery material observed in KB-i6, which contained no parts or other debris in the entire boring. Given an average thickness of approximately three feet and an area of approximately 7,500 square feet, the total volume of material remaining beneath the building may approach approximately 22,500 cubic feet (830 cubic yards). Since removal of the buried waste beneath the building is infeasible, it is anticipated that an exposure prevention remedy will be used to address this concern.

4.0 CONCLUSION

4.1 CONTAMINANT OCCURRENCE

Two contaminant source areas have been identified and include an eastern source area and a western source area. Only the eastern source area appears to be attributable to a specific area or equipment. The western source area encompasses a large portion of the exterior grounds of the Site and is characterized by multiple sources as discovered during the waste burial investigation and removal action.

Eastern Source Area

The eastern source area is thought to be associated with the apparent VOC source originating from former solvent operations located near the southeastern corner of the building. VOC are primary COCs associated with this source. VOCs are detected in the soils at concentrations below Tier II Non-Residential Cleanup Goals. The primary media of concern is groundwater, where VOCs are typically detected at concentrations above Tier II Residential Cleanup Goals on-Site and to the east in the neighboring residential area. VOCs are also detected in groundwater at concentrations above Tier II Non-Residential Cleanup Goals off-Site to the east. VOC occurrence in groundwater appears contained within the upper unconfined sand aquifer. Primary VOCs of concern include cis-1,2-DCE, TCE, and vinyl chloride. Figures 20a and 20b depict the dissolved cis-1,2-DCE groundwater plume in the shallow and deep zones of the upper

water-bearing unit, respectively. Figures 21a and 21b depict the dissolved TCE groundwater plume in the shallow and deep zones of the upper water-bearing unit. Figures 22a and 22b depict the dissolved vinyl chloride groundwater plume in the shallow and deep zones of the upper water-bearing unit, respectively.

PAHs are detected in the surface soil in the eastern portion of the Site at concentrations above Tier II Residential Cleanup Goals. Their occurrence is not thought to be associated with the former aboveground solvent tanks, but rather, general historic land use. PAHs have not been detected in the subsurface soil. PAH are not widely detected in groundwater in the eastern source area. Isolated PAH occurrence above Tier II Residential Cleanup Goals is observed near the eastern property boundary in both the shallow sand aquifer and the deep sand aquifer.

Metals COCs are not detected above Tier II Residential Cleanup Goals in the surface or subsurface soils in the eastern portion of the Site. Total lead has been detected in groundwater above its respective Tier II Residential Cleanup Goal both on-Site and off-Site, however, the distribution of total lead is erratic and does not exist as an identifiable plume. Total chromium has been detected above its respective Tier II Residential Cleanup Goal along the southern property boundary south of the eastern VOC source area, but has not been detected above its Tier II Non-Residential Cleanup Goal south of Little Eagle Creek.

Western Source Area

The western source area is associated with former parts degreasing operations and waste burial activities located in the western portion of the Site. It is reported that subsequent to degreasing, parts were placed outside on racks to dry. It is thought that solvent dripping from the drying parts provided a release mechanism to the subsurface. In addition, waste parts, grindings, and other materials or solvents used in Site operations were buried en masse or in drums. Material analyzed from the western source area resulted in the addition of PAH and metals to the list of COCs. VOCs are detected in the surface and subsurface soils at concentrations above Tier II Non-Residential Cleanup Goals. Remedial activities (i.e. removal action) conducted in the western source area have largely mitigated soil concerns. However, soil sampling performed subsequent to the removal action identified a localized hot spot of VOC occurrence in the area of KB-33 located along the west central property boundary. This area will be addressed by expanding the existing remediation system. VOCs are detected in groundwater on-Site and south

across Little Eagle Creek at concentrations exceeding Tier II Non-Residential Cleanup Goals. On-Site, the VOC occurrence is limited to the shallow water-bearing unit. Off-Site to the south, the VOC occurrence appears to deepen within the shallow water-bearing unit. No VOC are apparent in the lower water-bearing unit either on-Site or off-Site. As with the eastern source area, the primary VOCs of concern include cis-1,2-DCE, TCE, and vinyl chloride. Figures 20a and 20b depict the dissolved cis-1,2-DCE groundwater plume in the shallow and deep zones of the upper water-bearing unit, respectively. Figure 21a and 21b depict the dissolved TCE groundwater plume in the shallow and deep zones of the upper water-bearing unit. Figures 22a and 22b depict the dissolved vinyl chloride groundwater plume in the shallow and deep zones of the upper water-bearing unit, respectively.

As with VOCs, the PAH occurrence in soil was mitigated during the buried waste removal action. Isolated subsurface soil PAH concentrations above Tier II Residential Cleanup Goals are found beneath the western portion of the facility building from where the buried debris was not removed. PAHs are not detected above Tier II Residential Cleanup goals in groundwater in the western source or to the south in either the shallow wells or deep wells.

As with VOCs and PAHs, metals occurrence in soil was largely mitigated during the buried waste removal action. Site-wide soil sampling conducted subsequent to the removal action showed isolated lead and chromium occurrence above Tier II Residential Cleanup Goals. Sampling of the waste left beneath the western end of the facility building showed the presence of lead and cadmium at concentrations above Tier II Non-Residential Cleanup Goals. Total lead is detected in groundwater at concentrations above its respective Tier II Residential Cleanup Goal. The total lead data does not indicate the presence of a definable groundwater plume and source. The total lead occurrence in groundwater is erratic and appears typical to groundwater samples were turbidity is a concern.

Other Potential Sources

The Site is located in an area with a long history of heavy industrial activity. Given the land use of the surrounding area, available information related to environmental concerns in the area of the Site was reviewed to assess the potential for other sources of COCs found at the Site. The information search consisted of a review of historic aerial photographs, MCHD files, and IDEM files, and an environmental database search conducted by Environmental Data Resources, Inc.

Four properties located in close proximity to the Site were identified as potential additional sources of COCs. These include Allison Transmission immediately to the west across Holt Road, United Station #6122 located northwest of the Site, the Marathon Oil Terminal located north of the Site, and the Coca Cola Bottling site located to the south at Michigan Street. Petroleum hydrocarbon contamination was documented at each of the four sites. Of noted environmental concern was information related to a historic hazardous waste dump at the location of Allison Transmission Plant 3 obtained from a CERCLIS Preliminary Assessment Report dated August 27, 1986 and a State Board of Health office memorandum dated August 16, 1985. The documents indicated that potentially hazardous materials such as transit boards (asbestos), foundry sand, sodium hydroxide, scrap metal, heavy metal hydroxides, solvents, and industrial trash resulting from plating, polishing, and manufacturing operations may be located underneath approximately 20 feet of fill. Other documentation included an IDEM incident reporting log dated June 14, 1988 documenting a release of an unknown quantity of PCE from an underground storage tank (UST) located at Allison Transmission Plant 12.

In addition to potential sources identified by the information search, off-Site soil data collected by KERAMIDA during the Investigation indicated potential additional sources exist to the south at the Michigan Meadows Apartments and further south across Michigan Avenue at the Michigan Plaza commercial property. PCE and TCE were detected in subsurface soil above their respective Tier II Residential Cleanup Goals at soil boring KB-17 located near the southern property boundary of the Michigan Meadows (see Figure 13a). PCE was detected in subsurface soil above its respective Tier II Non-Residential Cleanup Goal in soil boring KB-24 located behind the Michigan Plaza (see Figure 13a). A laundry service is located in Michigan Plaza that may have conducted dry cleaning activities in the past.

Historic aerial photographs dated from 1941, 1950, 1956, 1962, and 1972 were reviewed to evaluate surrounding land activity over time. The aerial photographs showed the progression of the building expansions at both the Site and Allison Transmission. Land use south of the Site at the current Michigan Meadows Apartments where TCE and PCE have been detected in soil appeared to remain undeveloped until construction of the apartments, which occurred sometime between 1962 and 1972. No other indications of potential industrial operations were noted in the area.

Ecological Media of Concern

Samples of the sediment, sediment pore water, and surface water of Little Eagle Creek have been analyzed for VOC. VOC are not detected in the sediment, but have been detected in the sediment pore water. VOC were detected in surface water on one instance at one location during low flow conditions.

Fluor Daniel GTI collected surface water samples at three locations in October 1996 and February 1997 and analyzed them for VOCs. The October 1996 sampling event represented low flow conditions and the February 1997 sampling represented high flow conditions. The only VOCs detected in the two events was cis-1,2-dichloroethene. Cis-1,2-dichloroethene was not detected in the upgradient station ST-1. The two surface water stations adjacent to the two on-Site plumes revealed positive detections of cis-1,2-dichloroethene in the low flow sampling event only with a maximum detected concentration of 17 ug/L. No other VOCs were detected in either sampling event.

The detections of cis-1,2-dichloroethene in these locations support the assumption that the groundwater in the upper aquifer is discharging to the Little Eagle Creek. In order to evaluate whether the detections of cis-1,2-dichloroethene would be the expected worst-case surface water conditions in the future, aquifer-stream interaction modeling was performed. Utilizing the anomalously high results in hydropunch sample HP-1 as a continuous source for concentrations along the stream, the model predicted that the detections found for cis-1,2-dichloroethene represent the worst-case conditions for current and future exposures. The model predicted at low flow that concentrations of vinyl chloride and trichloroethene would be below the reporting limits for the analytical method utilized. This conclusion is supported by the analytical results from two sampling events.

Literature screening values were obtained for evaluation of potential ecological receptors for cis-1,2-dichloroethene. The U.S. EPA's *Quality Criteria for Water 1986* (1987) lists an acute lowest observed effect level (LOEL) for dichloroethenes for freshwater organisms at 11,600 ug/L. The *Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Freshwater Biota* (Suter, 1996) cites a Lowest Chronic Value extrapolated from an LC50 using regression at 14,680 ug/L and a Lowest Chronic Ambient Water quality criterion for fish at

9,538 ug/L. These references demonstrate that the low detections of cis-1,2-dichloroethene are almost three orders-of-magnitude less than the lowest of these literature screening values and thus, demonstrate the insignificant potential threat to ecological receptors of cis-1,2-dichloroethene in the surface waters at the Site.

4.2 CONTAMINANT TRANSPORT

As described in Section 2.3.1, Site geology consists of an upper layer of silty clay and/or fill material underlain by an upper unconfined sandy aquifer. Beneath the upper sandy aquifer lies a basal silty clay aquitard. The basal clay is thickest in the western portion of the Site and thins towards the east. A lower confined sandy aquifer is present beneath the basal clay in the eastern portion of the Site. From the Site, the basal clay dips gently to the south across Little Eagle Creek. South of the creek, the basal clay is eroded providing potential hydraulic connection between the upper and lower sand aquifers.

The most environmentally sensitive geologic feature at the Site is the upper unconfined sand aquifer. The upper sand aquifer is within 15 feet of the ground surface and is susceptible to impact from contaminants that breach the upper fill and silty clay cover at the Site. Further downward migration into lower water bearing zones is mitigated by the basal silty clay aquitard. This is supported by groundwater data from monitoring wells screened within the basal clay and the lower confined sand aquifer.

Once present in the upper unconfined sand aquifer, COCs will migrate downgradient. In the western source area, the downgradient direction is primarily southeasterly towards Little Eagle Creek and the Michigan Meadows Apartments. In the eastern source area, the downgradient direct is more easterly towards the adjacent residential area. Monitoring well data show that the eastern VOC plume extends at least 400 feet southeast into the neighboring residential area. In the western area, it is apparent that the VOC plume extends beneath Little Eagle Creek and south into the adjacent Michigan Meadows Apartments property. A comparison of groundwater and surface water elevations suggest that groundwater discharges in part to Little Eagle Creek. Groundwater discharge to Little Eagle Creek is supported by surface water and sediment pore water chemical data. Once south of Little Eagle Creek, a wider vertical distribution of COCs in groundwater in the upper sand aquifer is apparent. This is presumably due to a combination of advection, dispersion, and laminar flow patterns within the upper sand aquifer as it thickens and

surface of the basal clay dips. The VOC also disperse horizontally south of Little Eagle Creek as evidenced by data from soil borings and wells placed along the Michigan Street between Holt Road and Olin Avenue.

4.3 RECEPTORS AND COMPLETE EXPOSURE PATHWAYS

CONCLUSIONS

Based on the contaminants present at the Site, the media and locations affected, the anticipated fate and transport of the COCs, and the human and ecological exposure assessments discussed in Sections 2.1.2 and 2.1.3, the following human receptors and exposure pathways have the potential to exist at the Site:

Human Receptor	Media	Exposure Pathway
Industrial workers	Surface and subsurface soil	Inhalation of VOCs released to ambient air inside and outside the building
	Groundwater	Inhalation of VOCs released from Site groundwater during industrial use
Construction and subsurface utility workers	Surface and subsurface soil	Incidental ingestion Inhalation of VOCs and particulates Dermal contact
Residential Receptors	Groundwater	Ingestion Inhalation of VOCs released from groundwater Dermal Contact
Recreational users of the creek	Surface water and sediment	Incidental ingestion Dermal contact

Similarly, the ecological setting at the Site presents the following ecological receptors and exposure pathways:

Ecological Receptor	Media	Exposure Pathway
Plants	Surface and subsurface soil Groundwater Surface water Sediment	Root and foliar uptake
Terrestrial invertebrates	Surface and subsurface soil	Ingestion Inhalation Dermal contact
Aquatic invertebrates	Surface water Sediment	Ingestion Dermal contact
Herpetofauna (amphibians and reptiles)	Surface and subsurface soil Surface water	Ingestion Inhalation Dermal contact
	Sediment	Ingestion Dermal contact
Fish	Surface water Sediment	Ingestion Dermal contact
Birds	Surface soil Surface water	Ingestion Inhalation Dermal contact
	Sediment	Ingestion Dermal contact
Mammals	Surface and subsurface soil Surface water	Ingestion Inhalation Dermal contact
	Sediment	Ingestion Dermal contact

RECOMMENDATIONS

Based on the results of the Investigation, the following recommendations are made

- VOCs in surface and subsurface soil are delineated on-Site with the exception of a localized hot spot at KB-33. Screening borings placed around KB-33 suggest a hot spot radius of approximately 15 feet. Several PAHs are detected in surface slightly above Tier II Residential Cleanup Goals in the eastern area of the Site and beneath the western building extension floor. No further delineation of PAH in soil appears warranted. Lead and cadmium occurrence in soil above Tier II Non-Residential Cleanup Goals is limited to beneath the western building extension and the hot spot at KB-33. The metals occurrence

beneath the building is contained within the buried waste. Soil samples below the buried waste do not contain metals above Tier II Non-Residential Cleanup goals. The remaining buried waste beneath the building will be addressed in a Site-specific risk assessment. Mitigation of the hot spot at KB-33 for VOCs and lead is warranted and may include a removal action and confirmation sampling, expansion of the groundwater remediation system, or a combination of both.

- VOCs in groundwater have been delineated to the east and south and no further investigation appears warranted. Low level VOC occurrence south of the Michigan Meadows Apartments may be related to other contributing sources of VOC contamination identified by the information search and verified by soil chemical data. PAHs in groundwater are isolated in occurrence to two on-Site locations at concentrations slightly above Tier II Residential Cleanup Goals. No further delineation of PAHs in groundwater appear warranted. Total lead occurrence in groundwater is erratic and appears typical of groundwater samples where turbidity is a concern. No further delineation of total lead in groundwater appears warranted.

- Regarding Little Eagle Creek, chemical data and aquifer-stream interaction modeling suggest that no additional sampling of sediments or surface water is warranted. PAH and metals groundwater data and data from Site soils near the creek indicate that the potential for occurrence of these COCs is low.

- Regarding the potential for volatilization of COCs from groundwater to indoor air is a potential concern to the south at the Michigan Meadows Apartments and on-Site inside the western building extension. An evaluation of the potential human exposure to COCs from this pathway is warranted.

- Available water well information suggests the potential for residential drinking water wells south of the Site where VOC have been detected in groundwater. Given the MCHD has established a No Well Zone in the area of the Site, the MCHD may wish to consider a door to door survey to identify potential well users and drinking water quality.

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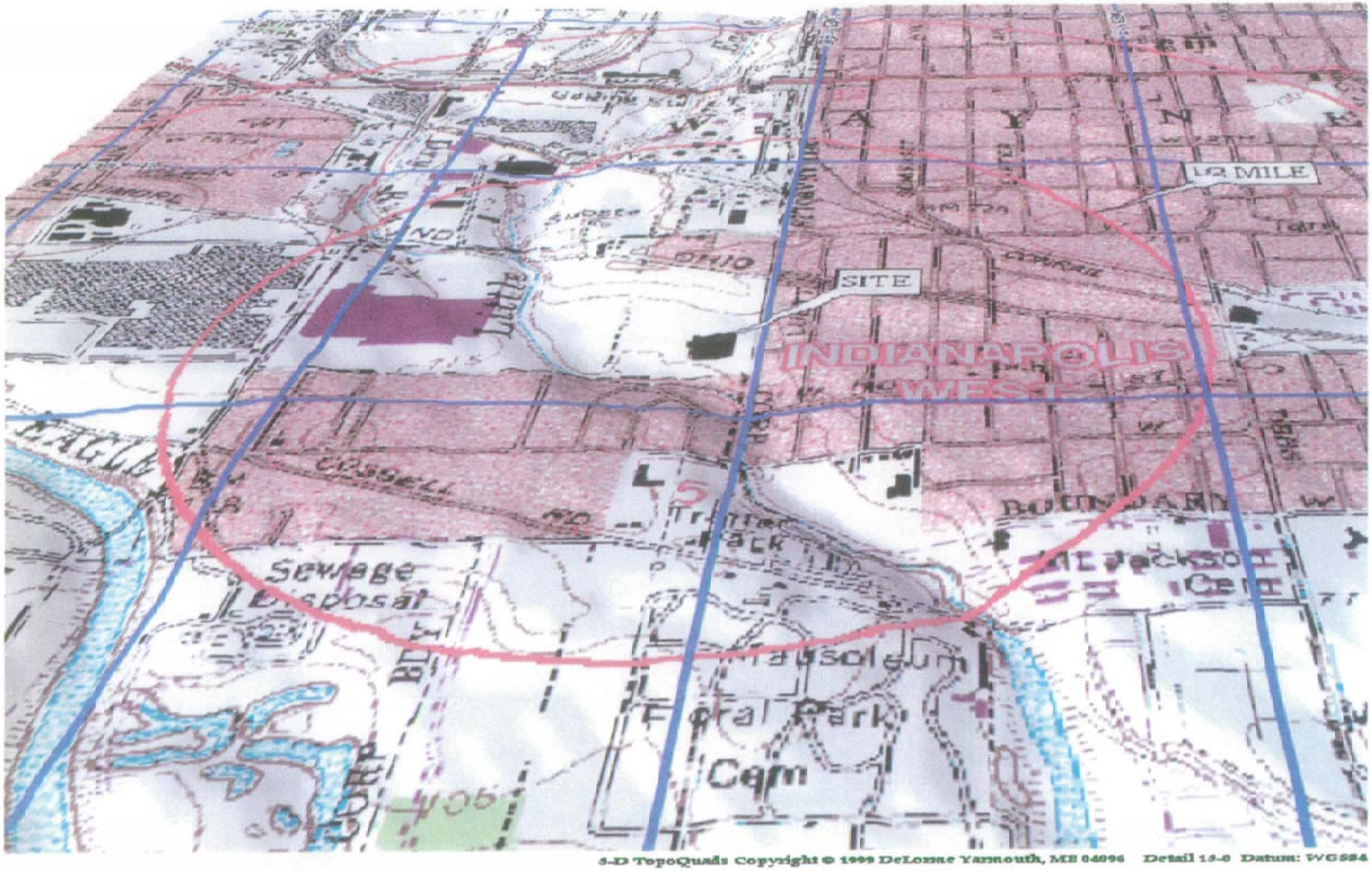

5-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Detail 13-0 Datum: WGS84

KERAMIDA Environmental, Inc.
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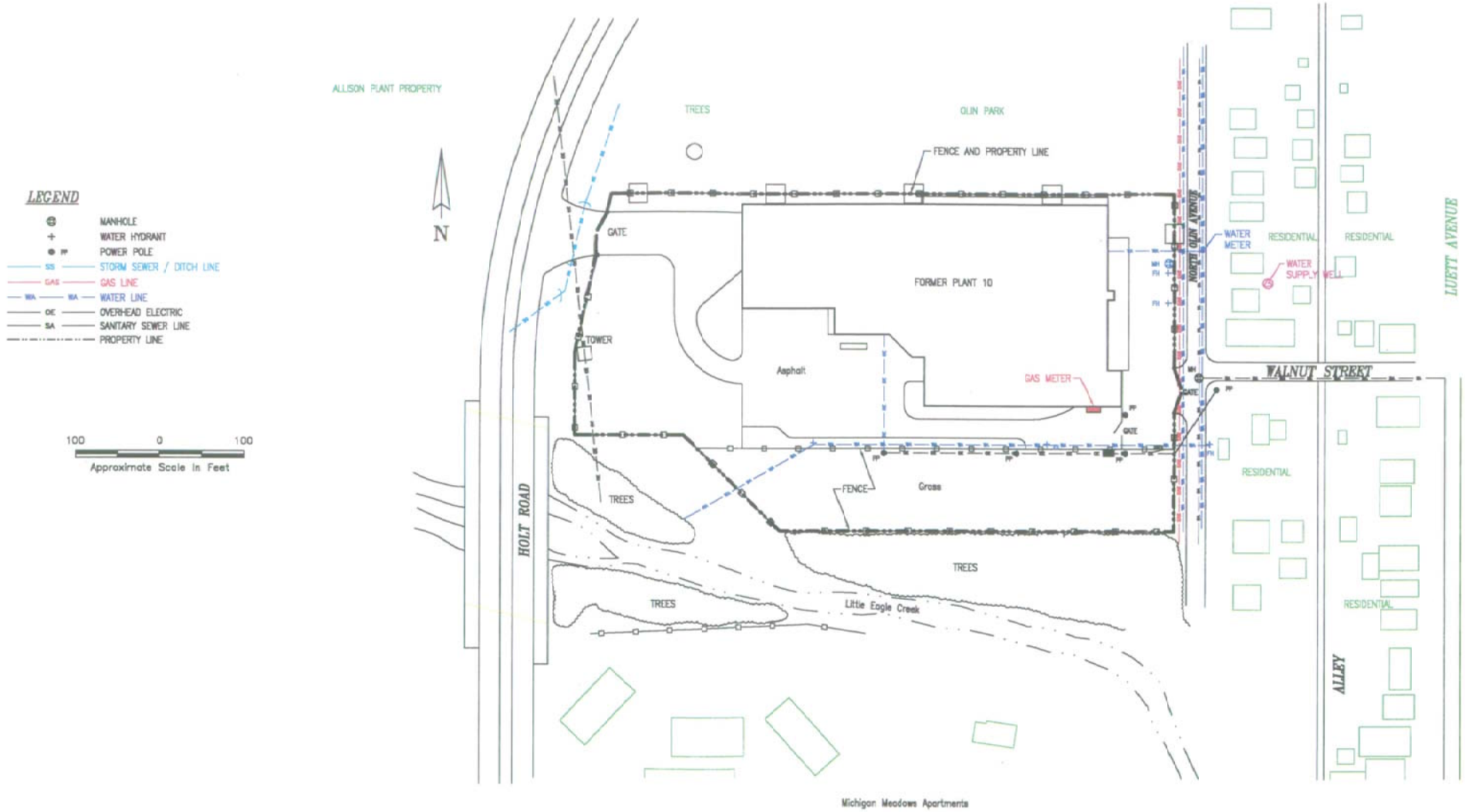
Figure 1
Site Location Map
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
700 North Olin Avenue
Indianapolis, Indiana

Prepared by : *Stan Hunnicutt*
Approved by : Frank West
Date : *02/26/2002*
Project No.: 2829E

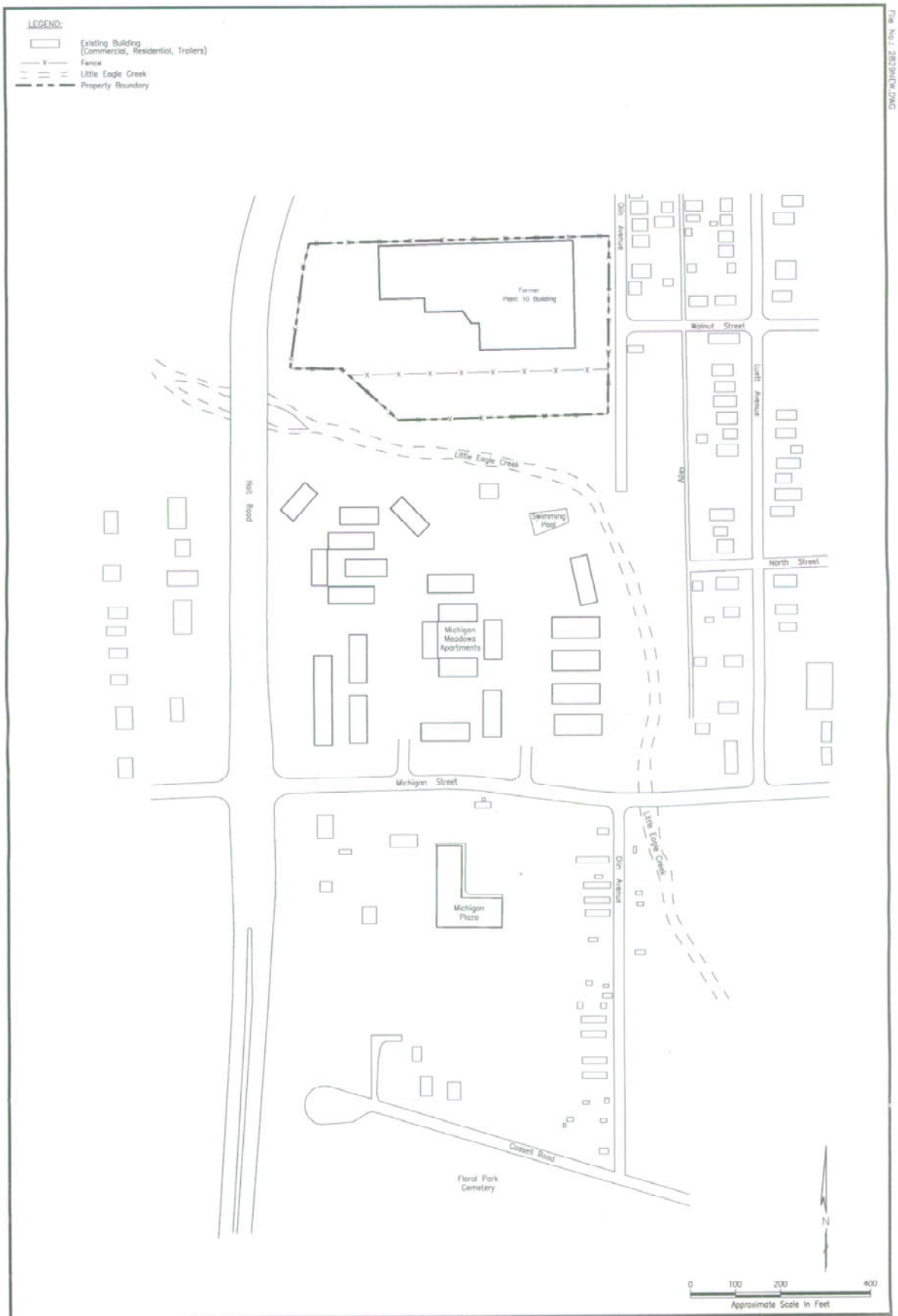


KERAMIDA ENVIRONMENTAL, INC.

Project: Genuine Auto Parts Holt Avenue Indianapolis, Indiana	
Scale: 1" = 100'	Prepared By: MHJ
Project Number: 2829E	Approved By: FDW
Date: March 3, 2002	

Figure 2

Site Map



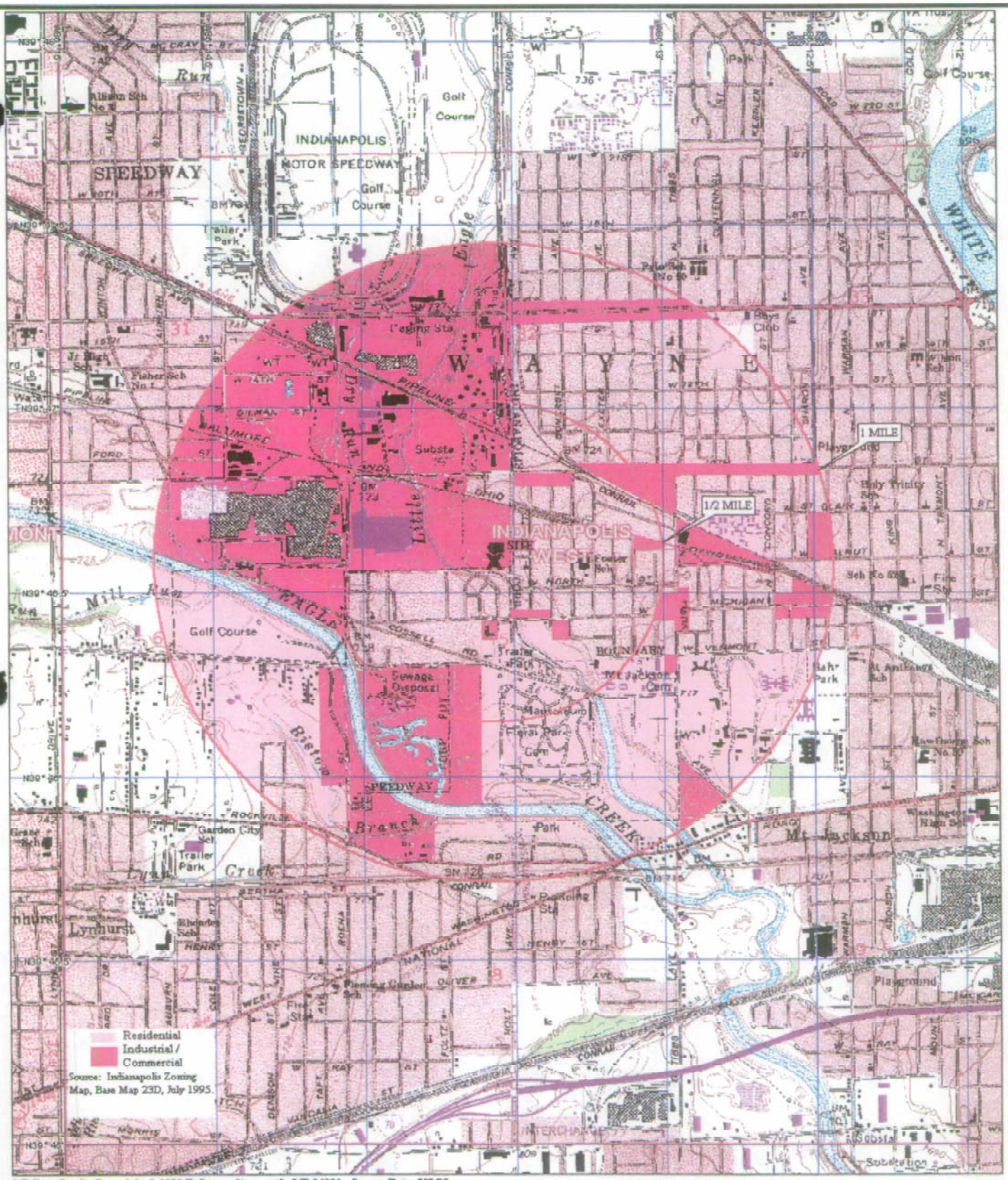
KERAMIDA ENVIRONMENTAL, INC.
ENGINEERING-CONSULTING-REMEDIATION

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
Scale: 1" = 200'±	Project Number: 2829
Date: March 13, 2002	Prepared By: SmT
Approved By: Frank West	

Figure 3

Expanded Site Map

File No.: 2829NEW.DWG



3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS

693 ft Scale: 1 : 24,000 Detail: 13-0 Datum: WGS84

KERAMIDA Environmental, Inc.
330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 FAX (317) 685-6610

Figure 4
Site and Surrounding Area Use Map
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
700 North Olin Avenue
Indianapolis, IN

Prepared by: Stan Hunnicutt
Approved by: Frank West
Date: 12/04/2001
Project Number: 2829 E

N.

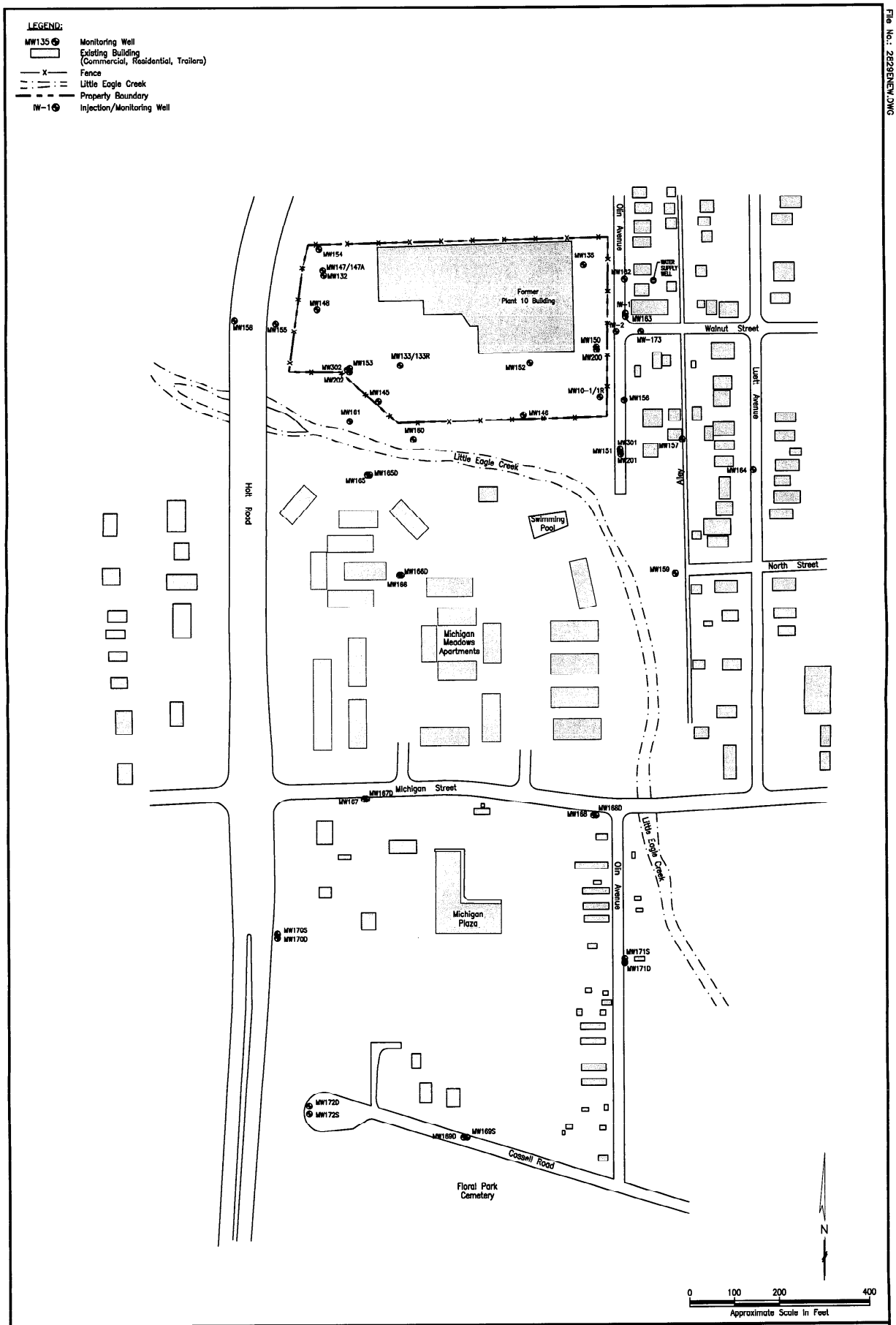
Figure 5
Human Health Conceptual Site Model
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
KERAMIDA Project No. 2829E

Exposure Pathways					Receptors			
Primary Source	Primary Release Mechanism	Secondary Source	Secondary Release Mechanism	Exposure Route	Industrial Workers	Construction Workers	Residents	Recreational Users
Industrial operations	Spills and other releases	Surface soil	Dust and/or volatile emissions	Ingestion		•		
				Inhalation	•	•		
				Dermal		•		
Buried waste	Leaching	Subsurface soil		Ingestion		•		
				Inhalation	•	•		
				Dermal		•		
		Groundwater		Ingestion			•	
				Inhalation	•		•	
				Dermal			•	
			Discharge to surface water	Ingestion				•
				Inhalation				•
				Dermal				•
			Discharge to sediment	Ingestion				•
				Inhalation				
				Dermal				•

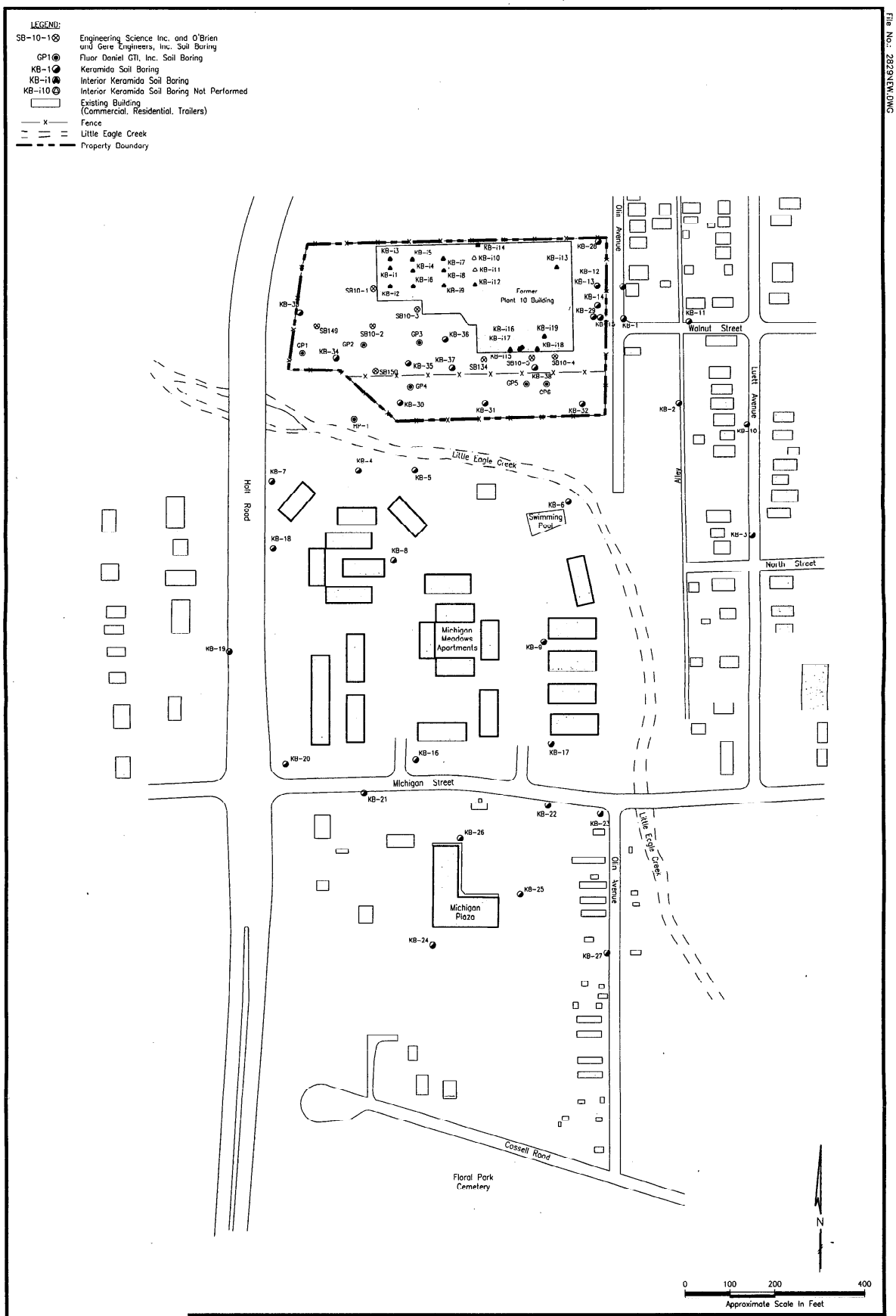
Figure 6
Ecological Conceptual Site Model
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
KERAMIDA Project No. 2829E

Primary Source	Primary Release Mechanism	Secondary Source	Exposure Route	Potential Receptors: Plants	Invertebrates	Herpetofauna	Fish	Birds	Mammals
Industrial operations	Spills and other releases	Surface soil	Uptake	•					
			Ingestion		•	•		•	•
			Inhalation		•	•		•	•
			Dermal		•	•		•	•
		Subsurface soil	Uptake	•					
			Ingestion		•	•			•
			Inhalation		•	•			•
			Dermal		•	•			•
Buried waste	Leaching	Surface Water (via groundwater discharge)	Uptake	•					
			Ingestion		•	•	•	•	•
			Inhalation			•		•	•
			Dermal		•	•	•	•	•
		Sediment (via groundwater discharge)	Uptake	•					
			Ingestion		•	•	•	•	•
			Inhalation						
			Dermal		•	•	•	•	•

File No.: 2829ENEW.DWG

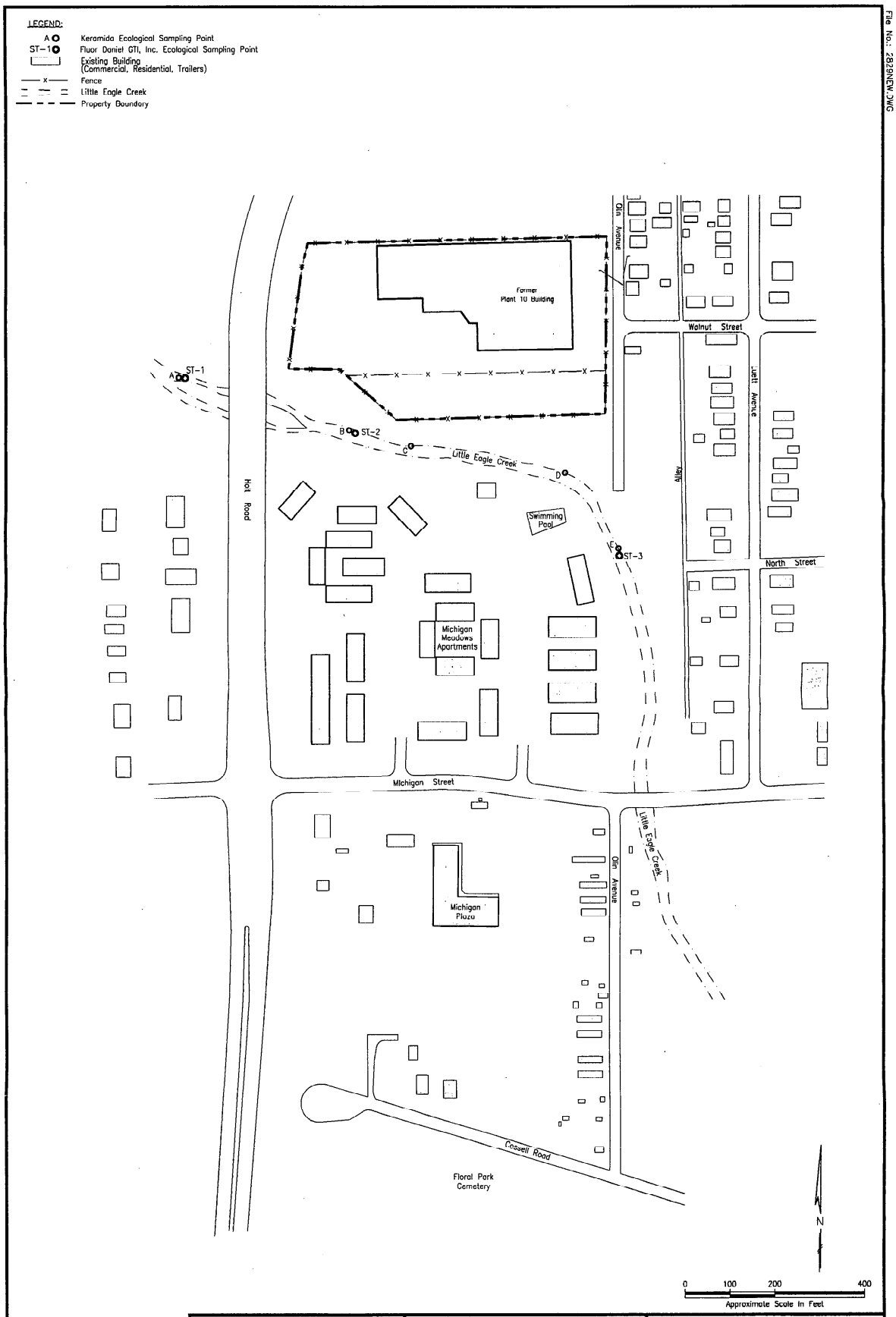


KERAMIDA ENVIRONMENTAL, INC. ENGINEERING-CONSULTING-REMEDIATION	Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	**Figure 7**
	Scale: 1" = 200'± | Project Number: 2829	Monitoring Well Location Map
	Date: Sept. 25, 2002 | Prepared By: SmT	
	Approved By: R. S. Fedorchak, P.E.	



File No.: 2829NEW.DWG

KERAMIDA ENVIRONMENTAL, INC. ENGINEERING-CONSULTING-REMEDIATION	Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	**Figure 8** **Soil Boring Location Map**
	Scale: 1" = 200'± | Project Number: 2829	
	Date: March 13, 2002 | Prepared By: SmT	
	Approved By: Frank West	



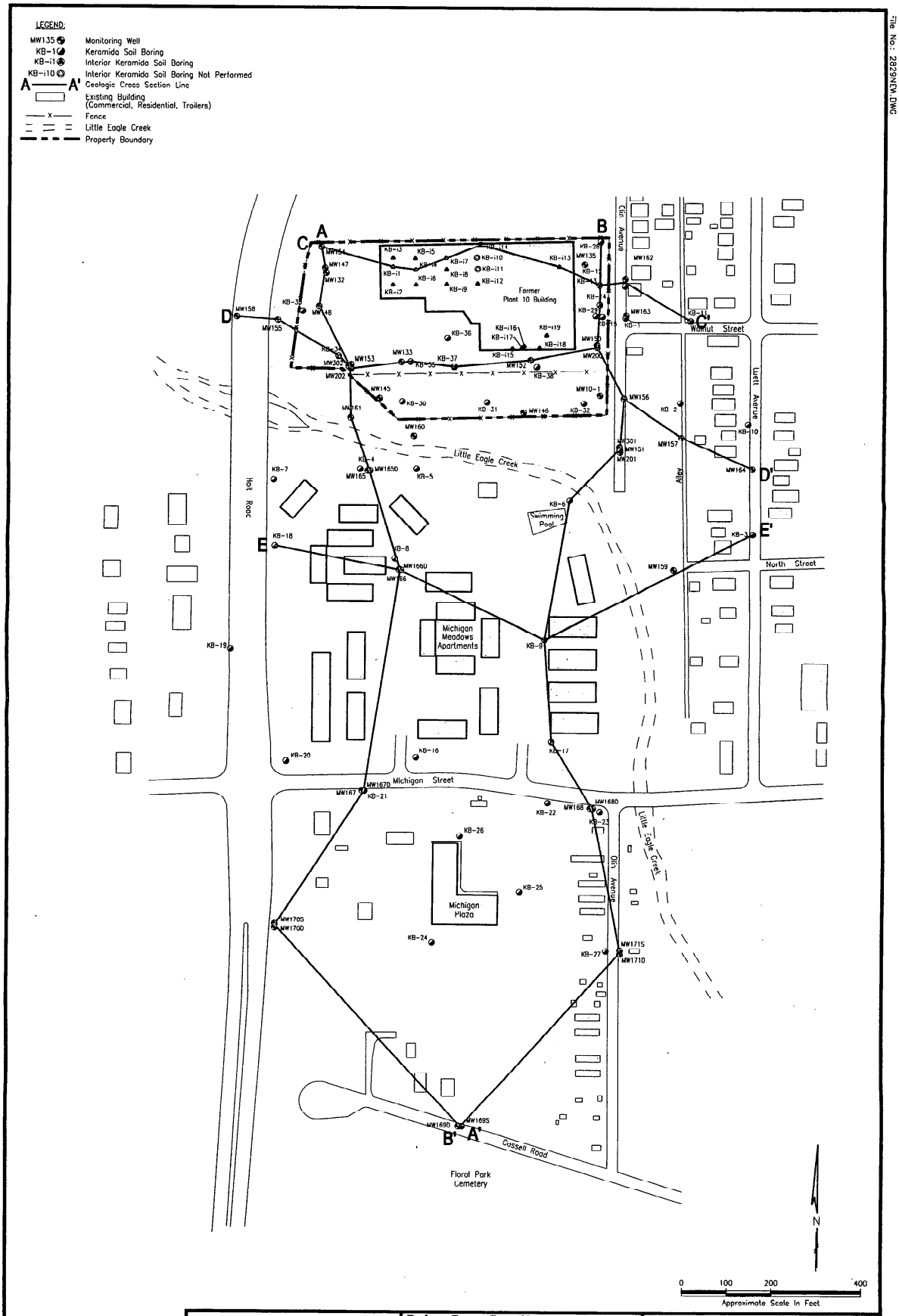
File No.: 2829NEW.DWG

KERAMIDA ENVIRONMENTAL, INC.
ENGINEERING-CONSULTING-REMEDIATION

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
Scale: 1" = 200'±	Project Number: 2829
Date: March 13, 2002	Prepared By: SmT
Approved By: Frank West	

Figure 9

Ecological Sample Location Map



File No.: 2829NEW.DWG

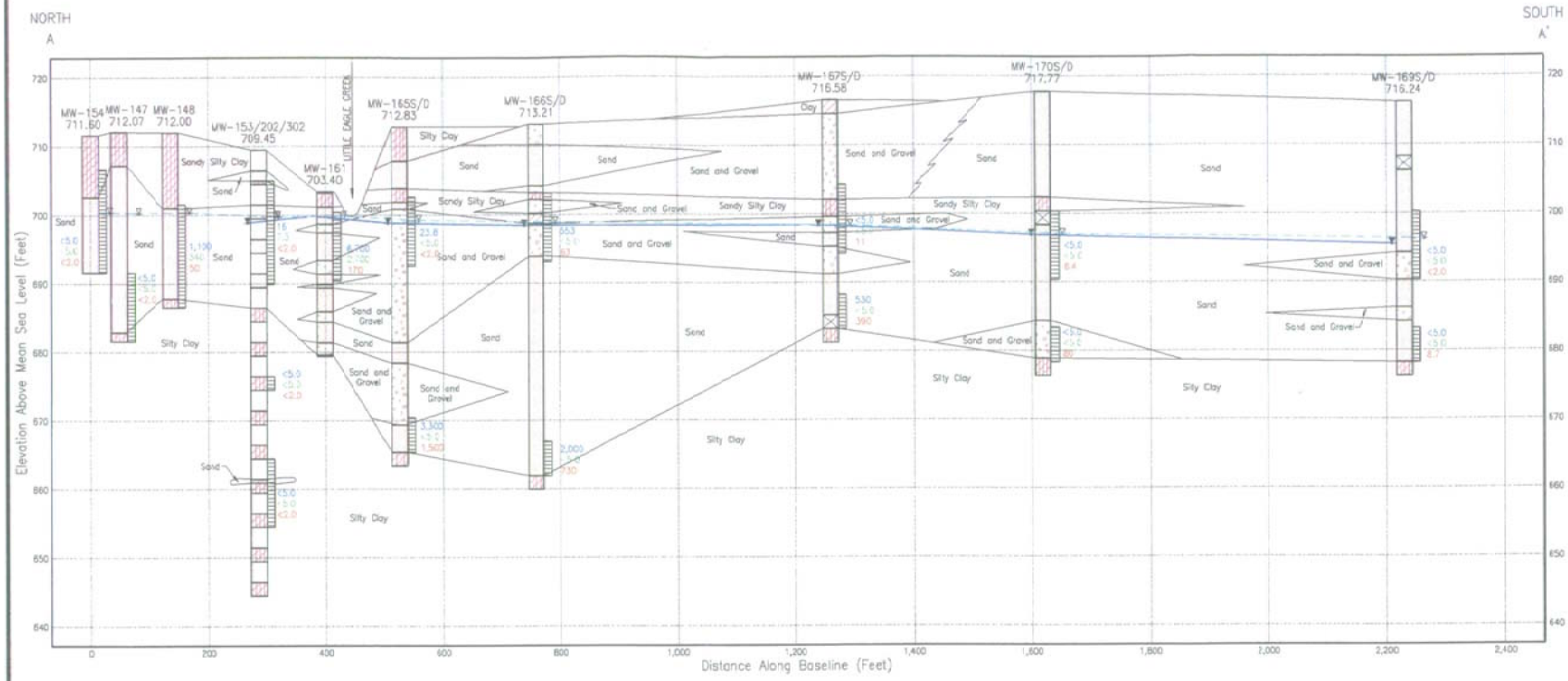
KERAMIDA ENVIRONMENTAL, INC.
PROGRESSIVE CONSULTING-REMEDIATION

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
Scale: 1" = 200'±	Project Number: 2829
Date: March 13, 2002	Prepared By: SmT
Approved By: Frank West	

Figure 10

Cross-Section Location Map

File No.: 2829AA.DWG



Lithology Graphics

- Blind Drilled
- Clay
- Fill
- No Recovery
- Rock
- Sand
- Sand and Gravel
- Sandy Clay
- Sandy Silt
- Sandy Silty Clay
- Silt
- Silty Clay
- Silty Sand

Well Graphics

- Screened Interval
- Measured Groundwater Elevation (Deep Wells) – 01/30/02
- Measured Groundwater Elevation (Shallow Wells) – 01/30/02

Groundwater Analytical Data (ug/L)

170 cis-1,2 Dichloroethene
112 Trichloroethene
6.7 Vinyl Chloride

Note: Analyte concentrations are from geoprobe borings or from the most recent sampling event at each monitoring well.

Graphics

- Geoprobe Groundwater Sample Interval
- 711.72 Ground Elevation (Feet)
- Shallow Well Groundwater Potentiometric Surface Level
- Deep Well Groundwater Potentiometric Surface Level
- Inferred Lithologic Contact

General Note:

Subsurface conditions shown between boring locations are interpreted, actual conditions may vary.

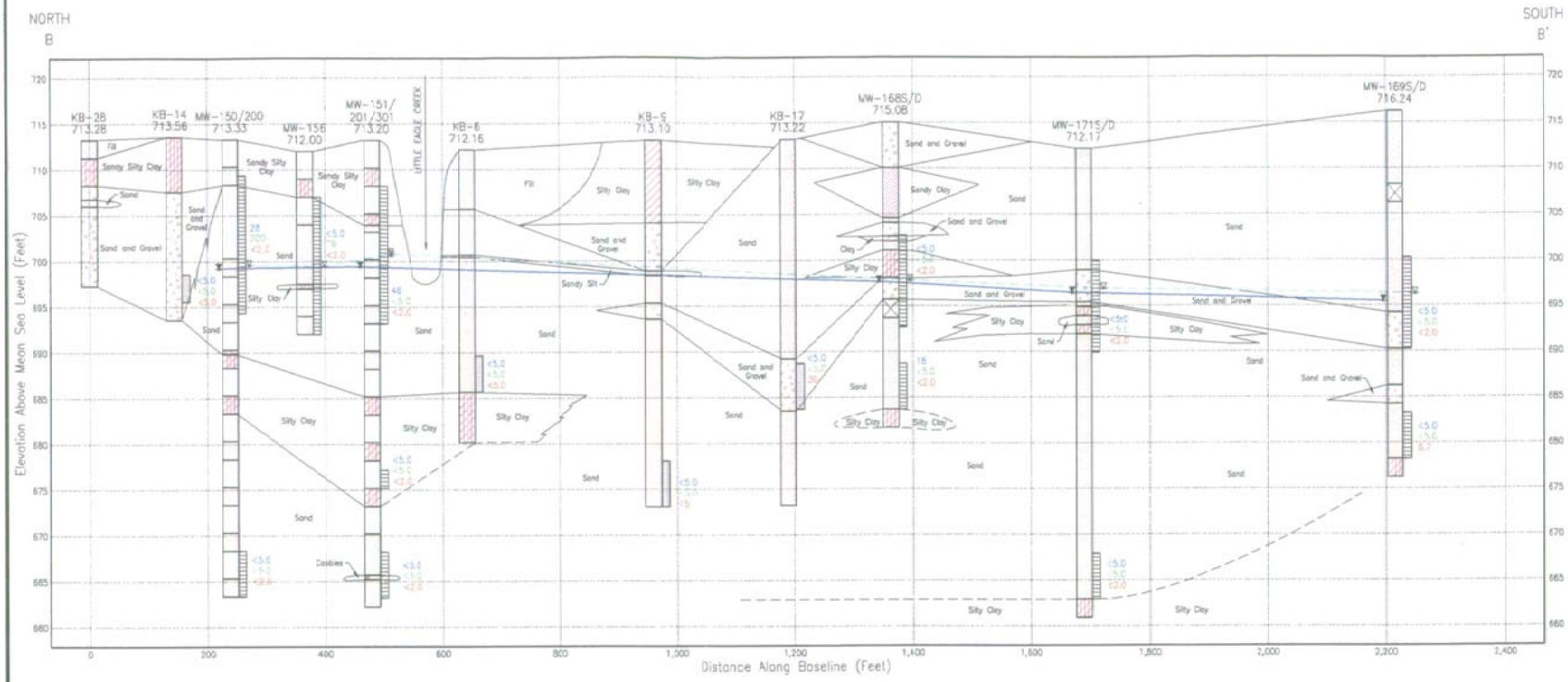
KERAMIDA ENVIRONMENTAL, INC.
ENGINEERING-CONSULTING-REMEDIATION

Project:	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana
Scale: As Shown, Vertical Exaggeration: 12	
Project Number: 2829	Date: March 13, 2002
Prepared By: SmT	Approved By: Frank West

Figure 10a

Geologic Cross-Section A-A'

File No.: 2829BB.DWG



Lithology Graphics

- Blind Drilled
- Clay
- Fill
- No Recovery
- Rock
- Sand
- Sand and Gravel
- Sandy Clay
- Sandy Silt
- Sandy Silty Clay
- Silt
- Silty Clay
- Silty Sand

Well Graphics

- Screened Interval
- Measured Groundwater Elevation (Deep Wells) – 01/30/02
- Measured Groundwater Elevation (Shallow Wells) – 01/30/02

Groundwater Analytical Data (ug/L)

- 170 cis-1,2 Dichloroethene
- 2 Trichloroethene
- 67 Vinyl Chloride

Note: Analyte concentrations are from geoprobe borings or from the most recent sampling event at each monitoring well.

Graphics

- Geoprobe Groundwater Sample Interval
- 711.72 Ground Elevation (Feet)
- Shallow Well Groundwater Potentiometric Surface Level
- Deep Well Groundwater Potentiometric Surface Level
- Inferred Lithologic Contact

General Note:

Subsurface conditions shown between boring locations are interpreted, actual conditions may vary.

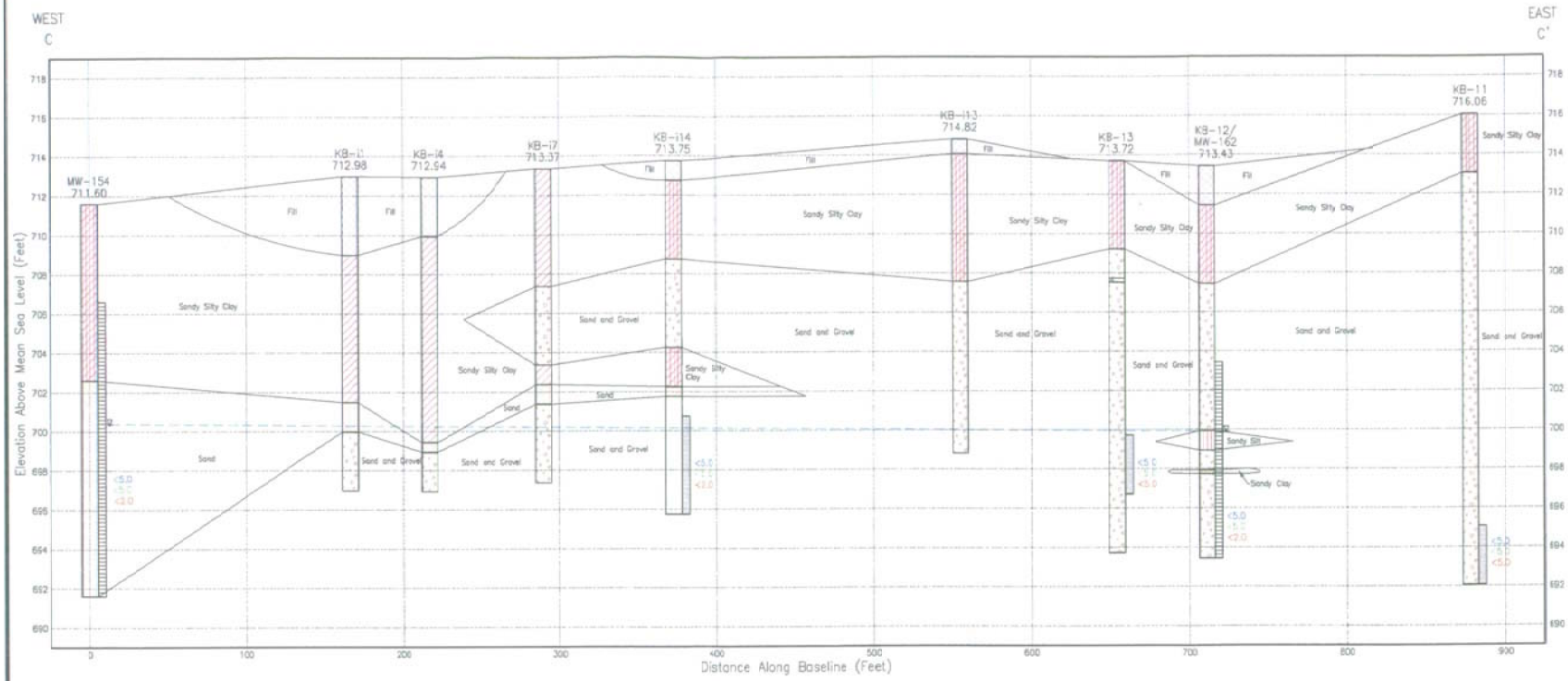
KERAMIDA ENVIRONMENTAL, INC.
ENGINEERING-CONSULTING-REMEDIATION

Project:	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana
Scale: As Shown, Vertical Exaggeration: 16	
Project Number: 2829	Date: March 13, 2002
Prepared By: SmT	Approved By: Frank West

Figure 10b

Geologic Cross-Section B-B'

File No.: 2829CC.DWG



Lithology Graphics

- Blind Drilled
- Clay
- Fill
- No Recovery
- Rock
- Sand
- Sand and Gravel
- Sandy Clay
- Sandy Silt
- Sandy Silty Clay
- Silt
- Silty Clay
- Silty Sand

Well Graphics

- Screened Interval
- Measured Groundwater Elevation (Deep Wells) – 01/30/02
- Measured Groundwater Elevation (Shallow Wells) – 01/30/02

Groundwater Analytical Data (ug/L)

- 170 cis-1,2 Dichloroethene
- 2 Tetrachloroethene
- 6.7 Vinyl Chloride

Note: Analyte concentrations are from geoprobe borings or from the most recent sampling event at each monitoring well.

Graphics

- Geoprobe Groundwater Sample Interval
- 711.72 Ground Elevation (Feet)
- Shallow Well Groundwater Potentiometric Surface Level
- Deep Well Groundwater Potentiometric Surface Level
- Inferred Lithologic Contact

General Note:

Subsurface conditions shown between boring locations are interpreted, actual conditions may vary.

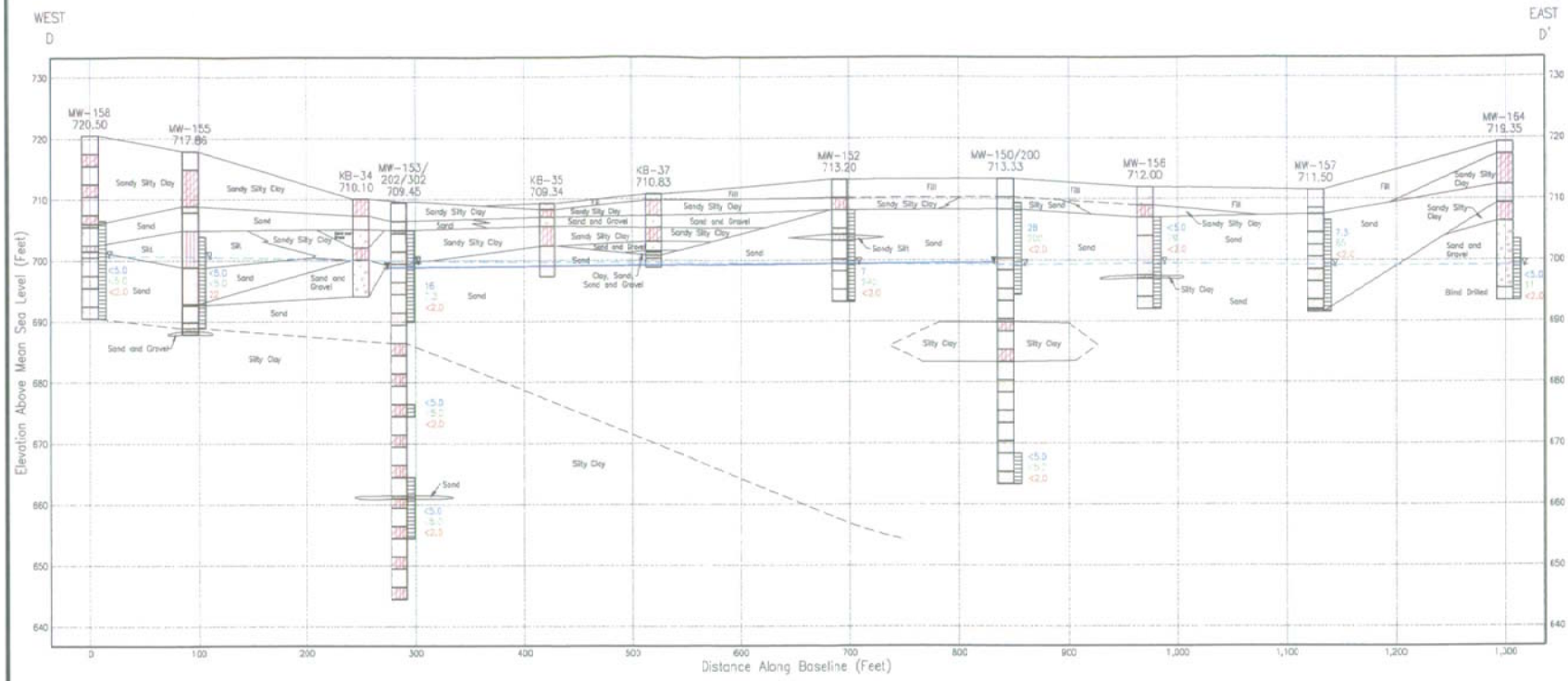
KERAMIDA ENVIRONMENTAL, INC.
ENGINEERING-CONSULTING-REMEDIATION

Project:	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana
Scale: As Shown, Vertical Exaggeration: 13.64	
Project Number: 2829	Date: March 13, 2002
Prepared By: SmT	Approved By: Frank West

Figure 10c

Geologic Cross-Section C-C'

File No.: 2829DD.DWG



Lithology Graphics

- Blind Drilled
- Clay
- Fill
- No Recovery
- Rock
- Sand
- Sand and Gravel
- Sandy Clay
- Sandy Silt
- Sandy Silty Clay
- Silt
- Silty Clay
- Silty Sand

Well Graphics

- Screened Interval
- Measured Groundwater Elevation (Deep Wells) – 01/30/02
- Measured Groundwater Elevation (Shallow Wells) – 01/30/02

Groundwater Analytical Data (ug/L)

170 cis-1,2 Dichloroethene
<5.0 Trichloroethene
6.7 Vinyl Chloride

Note: Analyte concentrations are from geoprobe borings or from the most recent sampling event at each monitoring well.

Graphics

- Geoprobe Groundwater Sample Interval
- 711.72 Ground Elevation (Feet)
- Shallow Well Groundwater Potentiometric Surface Level
- Deep Well Groundwater Potentiometric Surface Level
- Inferred Lithologic Contact

General Note:

Subsurface conditions shown between boring locations are interpreted, actual conditions may vary.

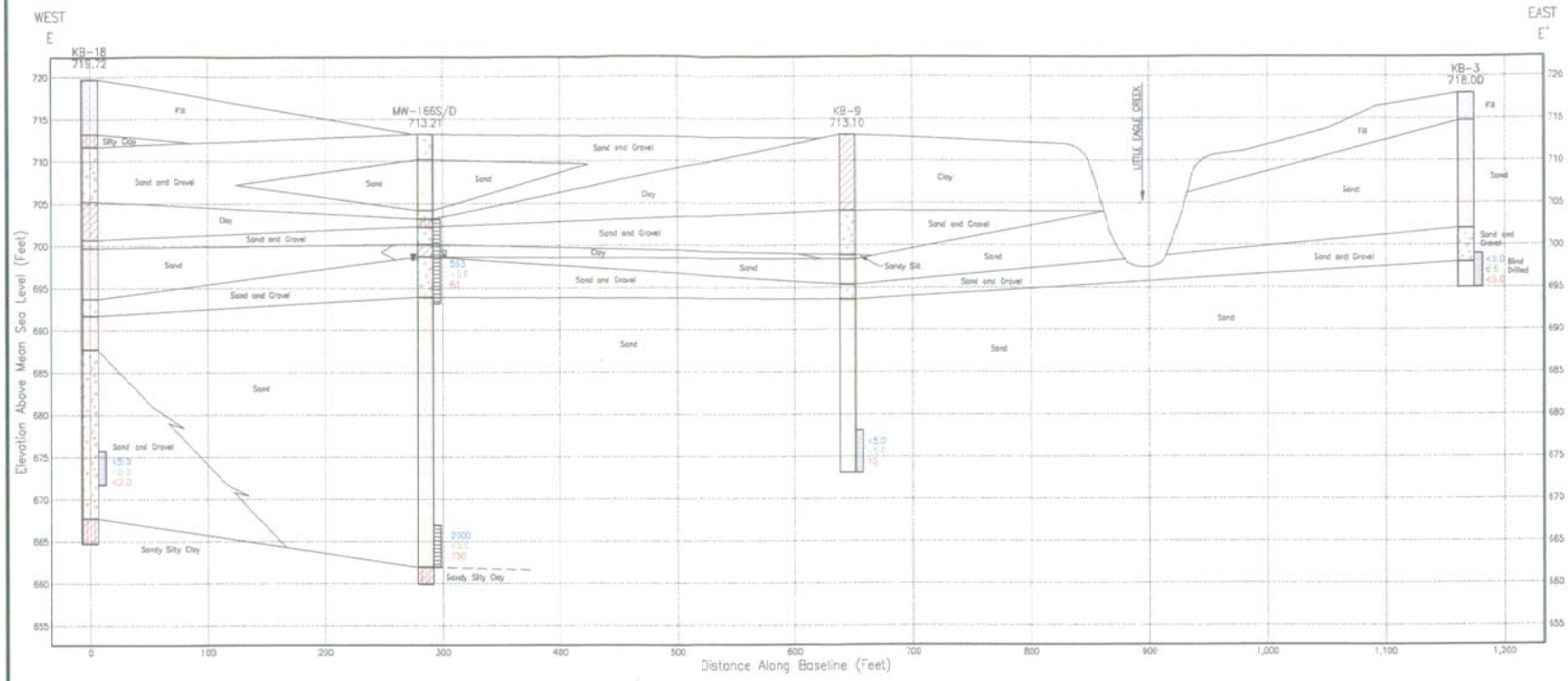
KERAMIDA ENVIRONMENTAL, INC.
ENGINEERING-CONSULTING-REMEDIATION

Project:	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana
Scale: As Shown, Vertical Exaggeration: 5.65	
Project Number: 2829	Date: March 13, 2002
Prepared By: SmT	Approved By: Frank West

Figure 10d

Geologic Cross-Section D-D'

File No.: 2829EE.DWG



Lithology Graphics

- Blind Drilled
- Clay
- Fill
- No Recovery
- Rock
- Sand
- Sand and Gravel
- Sandy Clay
- Sandy Silt
- Sandy Silty Clay
- Silt
- Silty Clay
- Silty Sand

Well Graphics

- Screened Interval
- Measured Groundwater Elevation (Deep Wells) – 01/30/02
- Measured Groundwater Elevation (Shallow Wells) – 01/30/02

Groundwater Analytical Data (µg/L)

170 cis-1,2 Dichloroethene
112 Tetrachloroethene
6.7 Vinyl Chloride

Note: Analyte concentrations are from geoprobe borings or from the most recent sampling event at each monitoring well.

Graphics

- Geoprobe Groundwater Sample Interval
- 711.72 Ground Elevation (Feet)
- Shallow Well Groundwater Potentiometric Surface Level
- Deep Well Groundwater Potentiometric Surface Level
- Inferred Lithologic Contact

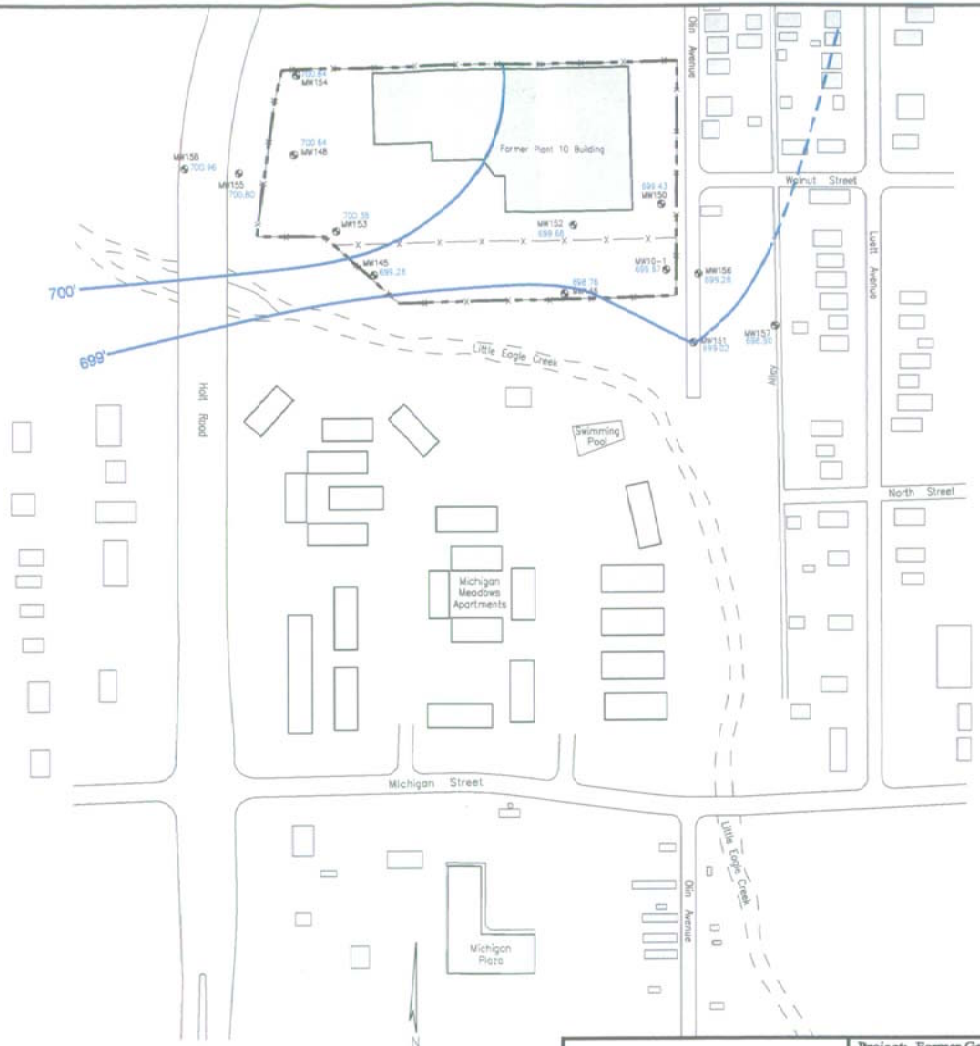
General Note:

Subsurface conditions shown between boring locations are interpreted, actual conditions may vary.

KERAMIDA ENVIRONMENTAL, INC.
ENGINEERING-CONSULTING-REMEDIATION

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	Figure 10e
Scale: As Shown, Vertical Exaggeration: 8	Geologic Cross-Section E-E'
Project Number: 2829 Date: March 13, 2002	
Prepared By: SmT Approved By: Frank West	

File No.: 2829F11A.DWG



LEGEND:

- MW135 — Monitoring Well
- Existing Building (Commercial, Residential, Trailers)
- Fence
- Little Eagle Creek
- Property Boundary
- 699.97 — Groundwater Elevation (Feet Above Mean Sea Level)
- 699' — Contour Interval (Feet Above Mean Sea Level)
- 699' — Inferred Contour Interval (Feet Above Mean Sea Level)

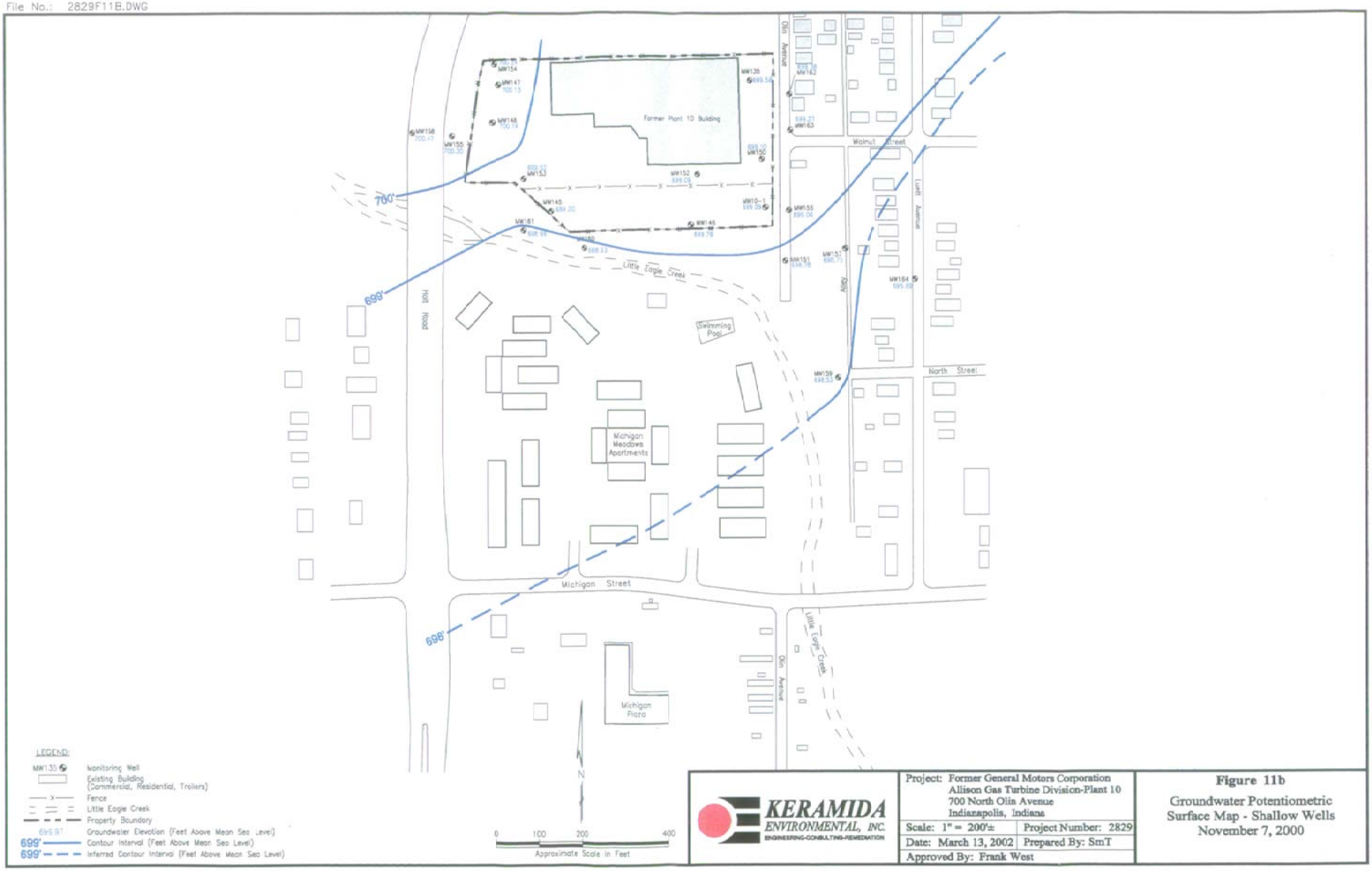
0 100 200 400
Approximate Scale in Feet

KERAMIDA ENVIRONMENTAL, INC.
ENGINEERING-CONSULTING-REMEDIATION

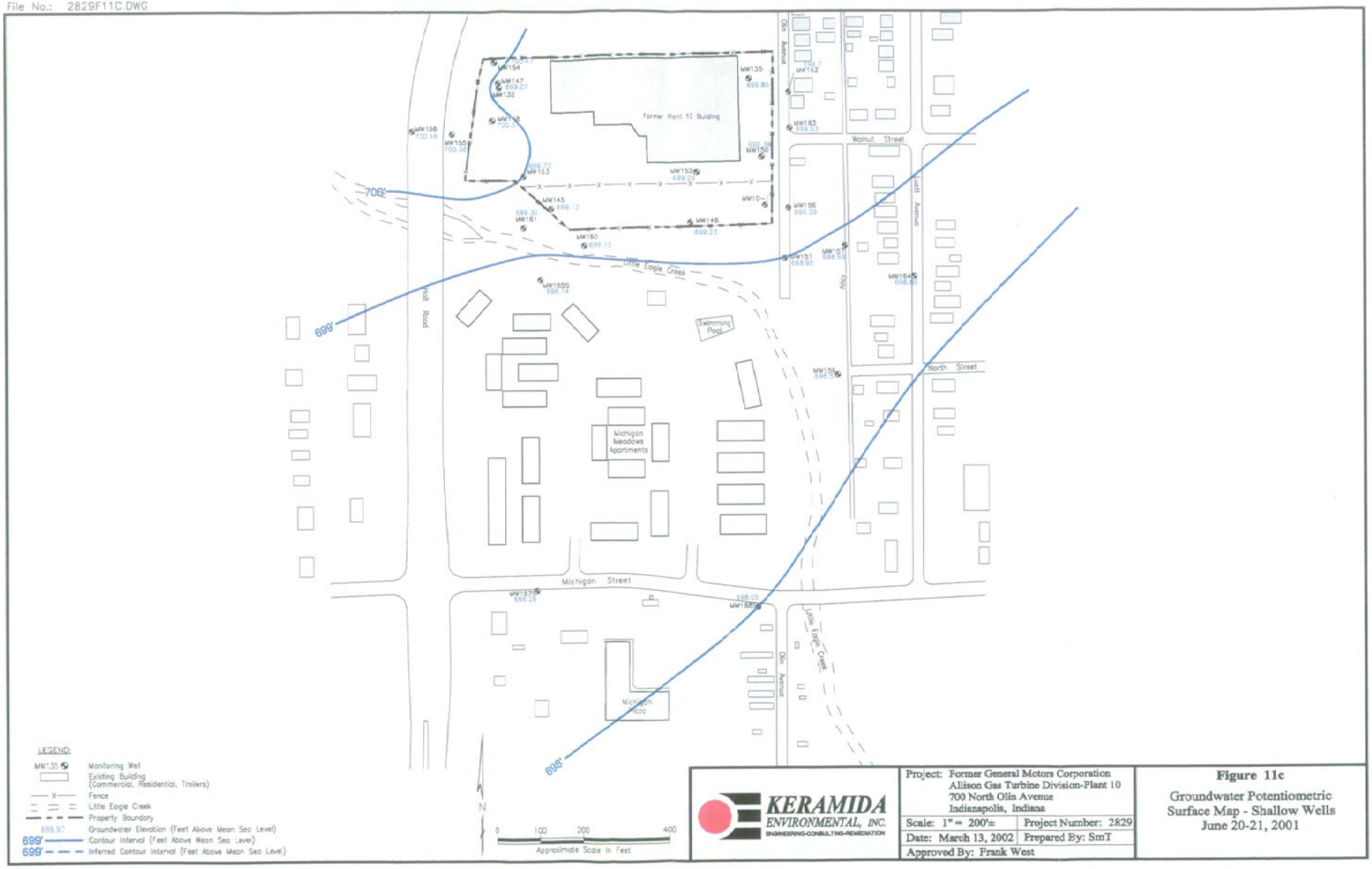
Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
Scale: 1" = 200'±	Project Number: 2829
Date: March 13, 2002	Prepared By: SmT
Approved By: Frank West	

Figure 11a
Groundwater Potentiometric Surface Map - Shallow Wells
February 28, 2000

File No.: 2829F11B.DWG



File No.: 2829F11C.DWG

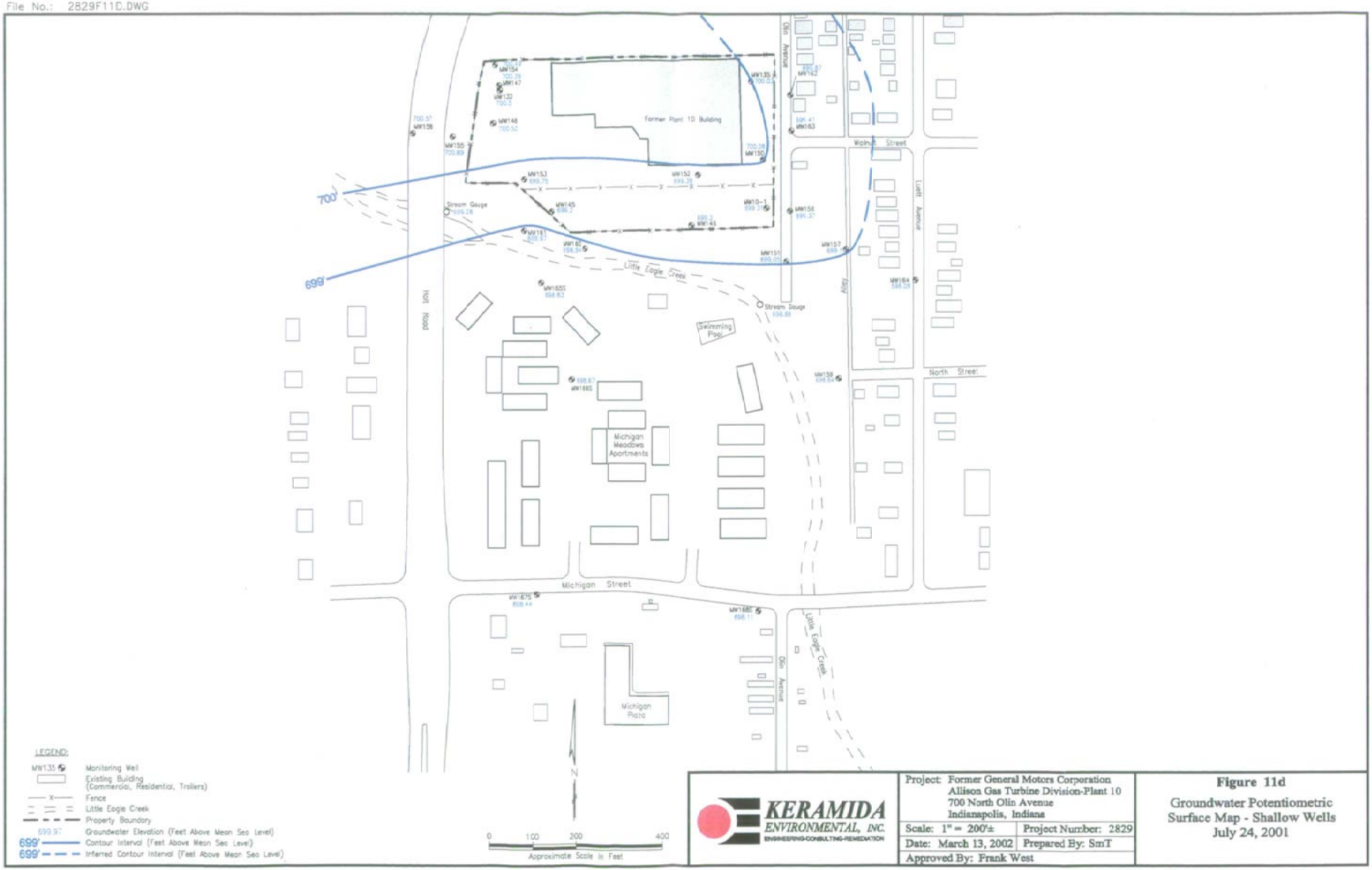


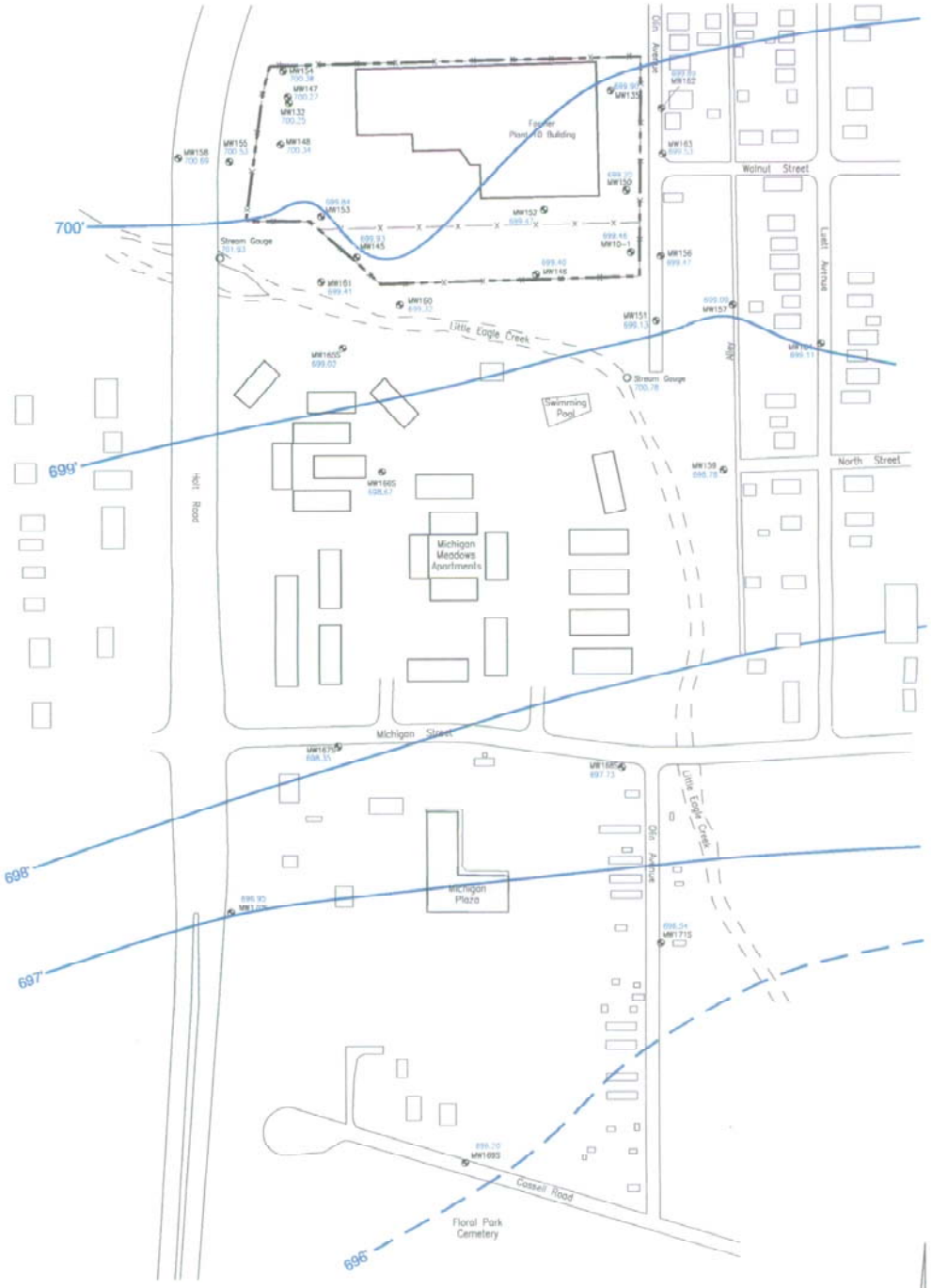
KERAMIDA ENVIRONMENTAL, INC.
ENGINEERING-CONSULTING-REMEDIATION

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
Scale: 1" = 200'±	Project Number: 2829
Date: March 13, 2002	Prepared By: SmT
Approved By: Frank West	

Figure 11c
Groundwater Potentiometric Surface Map - Shallow Wells
June 20-21, 2001

File No.: 2829F11D.DWG





LEGEND:

- MW135 — Monitoring Well
- Existing Building (Commercial, Residential, Trailers)
- Fence
- Little Eagle Creek
- Property Boundary
- 699.91 — Groundwater Elevation (Feet Above Mean Sea Level)
- 699' — Contour Interval (Feet Above Mean Sea Level)
- 699' — Inferred Contour Interval (Feet Above Mean Sea Level)

0 100 200 400
Approximate Scale In Feet

KERAMIDA ENVIRONMENTAL, INC.
ENGINEERING-CONSULTING-REMEDIATION

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
Scale: 1" = 200'±	Project Number: 2829
Date: March 13, 2002	Prepared By: SmT
Approved By: Frank West	

Figure 11e
Groundwater Potentiometric Surface Map - Shallow Wells
January 30, 2002

File No. 2829F11E.dwg

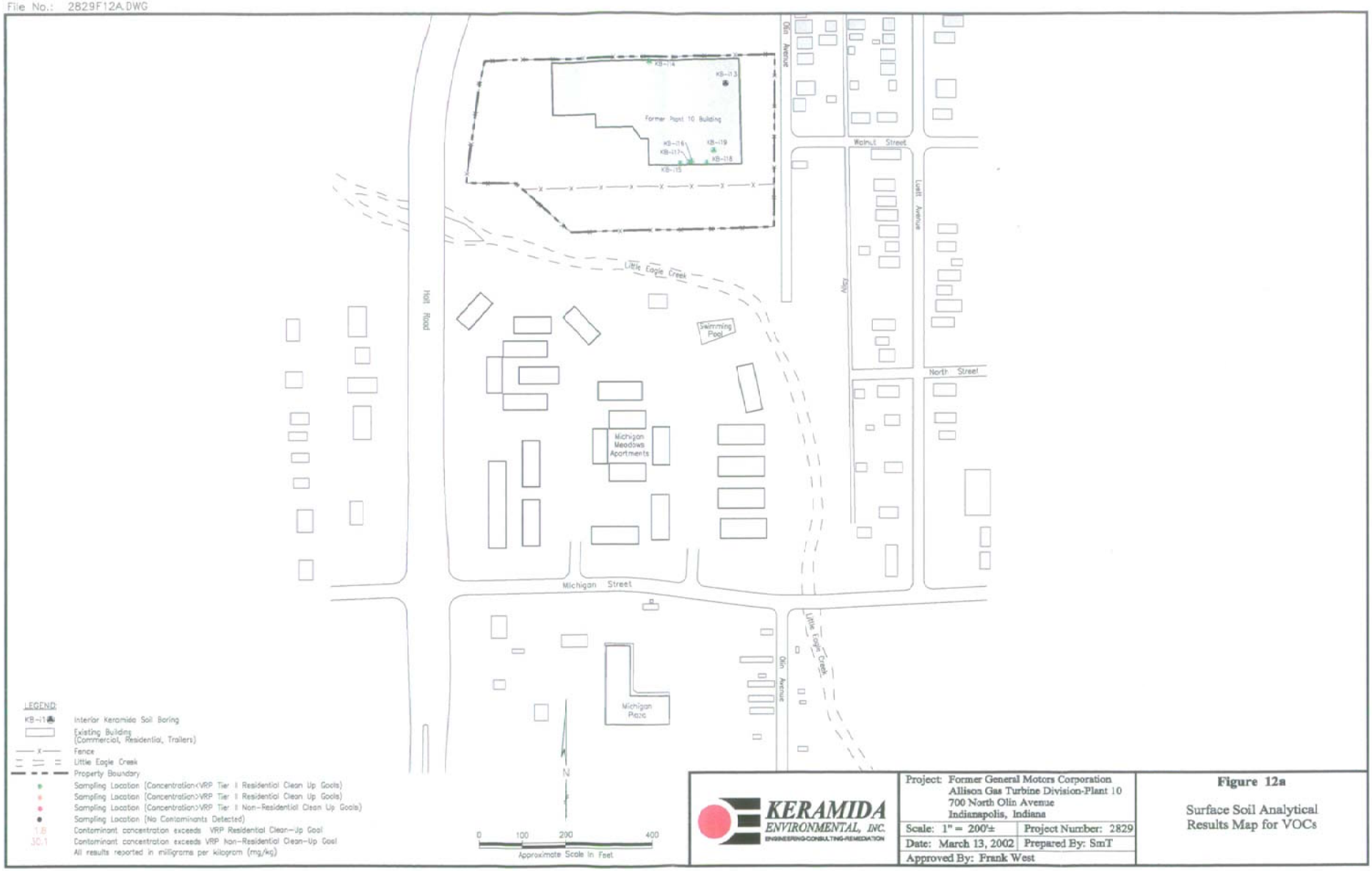
KERAMIDA ENVIRONMENTAL, INC.

Project: Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

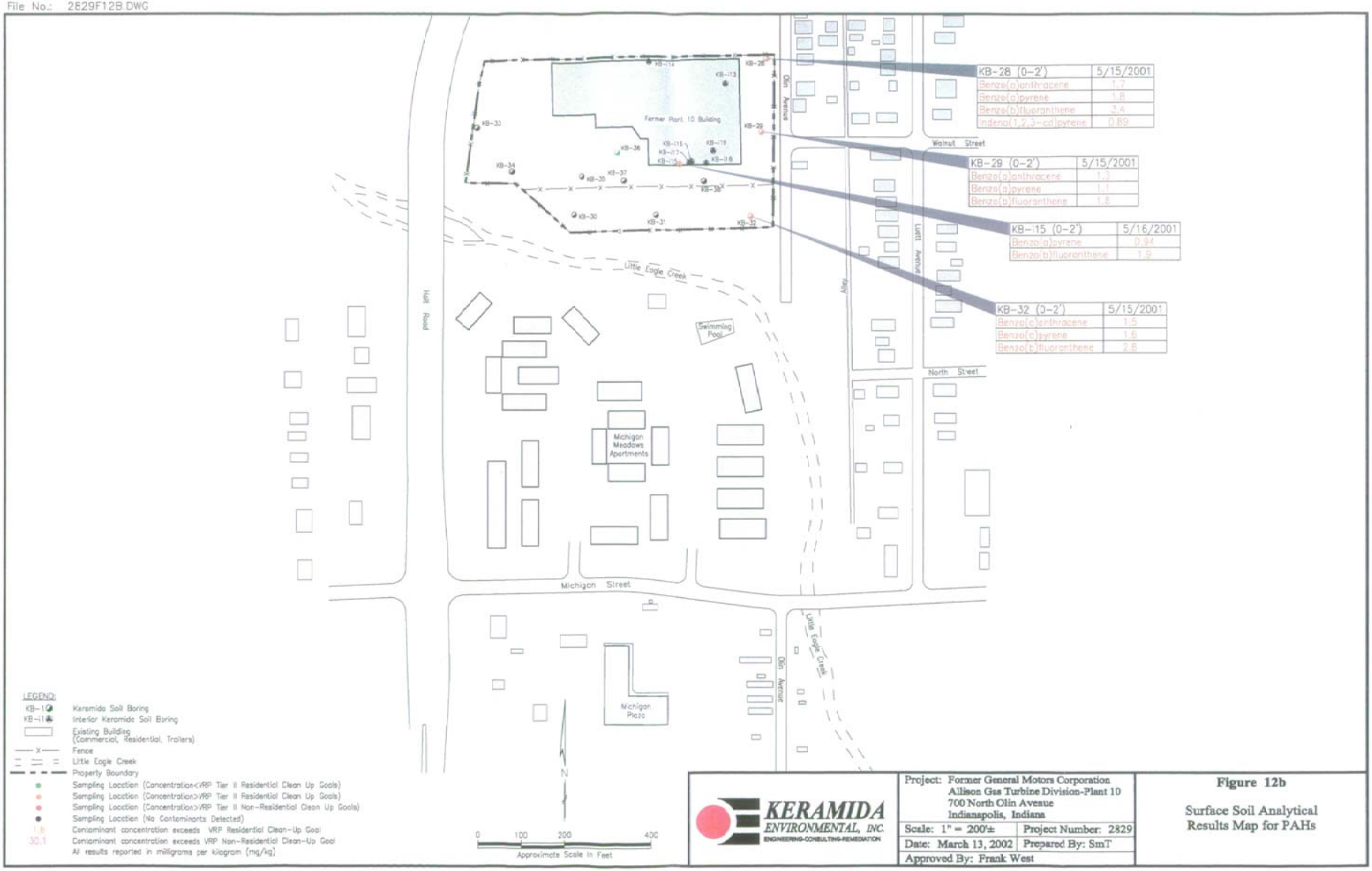
Scale: 1" = 200'± | Project Number: 2829
Date: March 13, 2002 | Prepared By: SmT
Approved By: Frank West

Figure 11f
Groundwater Potentiometric Surface Map - Deep Wells
January 30, 2002

File No.: 2829F12A.DWG



File No.: 2829F12B.DWG



LEGEND

MW- MONITORING WELL

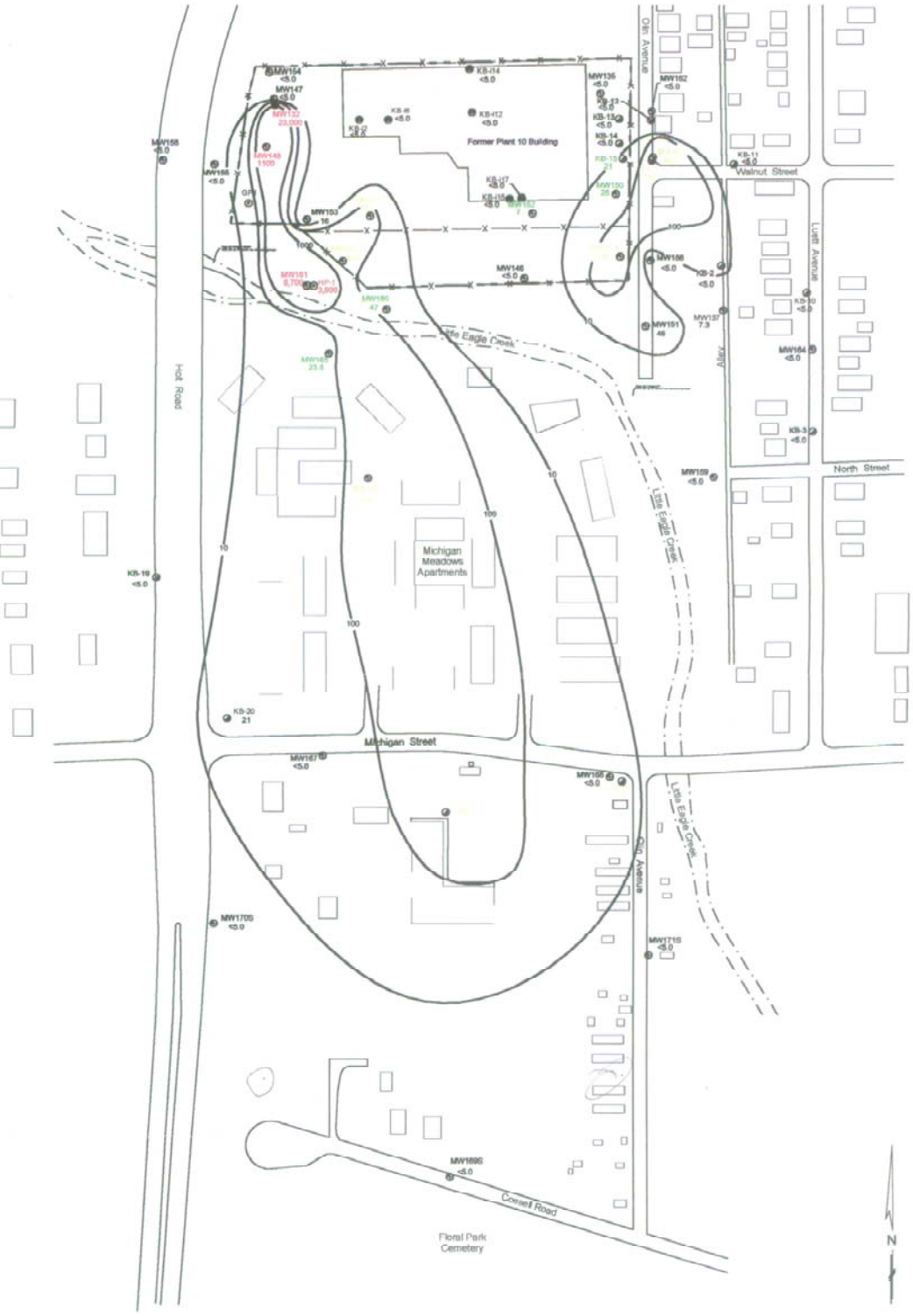
KB-1 KERAMIDA GEOPROBE BORING

Property Boundary

1100 Detected Compound Exceeds the VRP Tier II Non-Residential Cleanup Goal

27 Detected Compound is Below the VRP Tier II Non-Residential Cleanup Goal

Analytical Results in ug/L



0 100 200 400

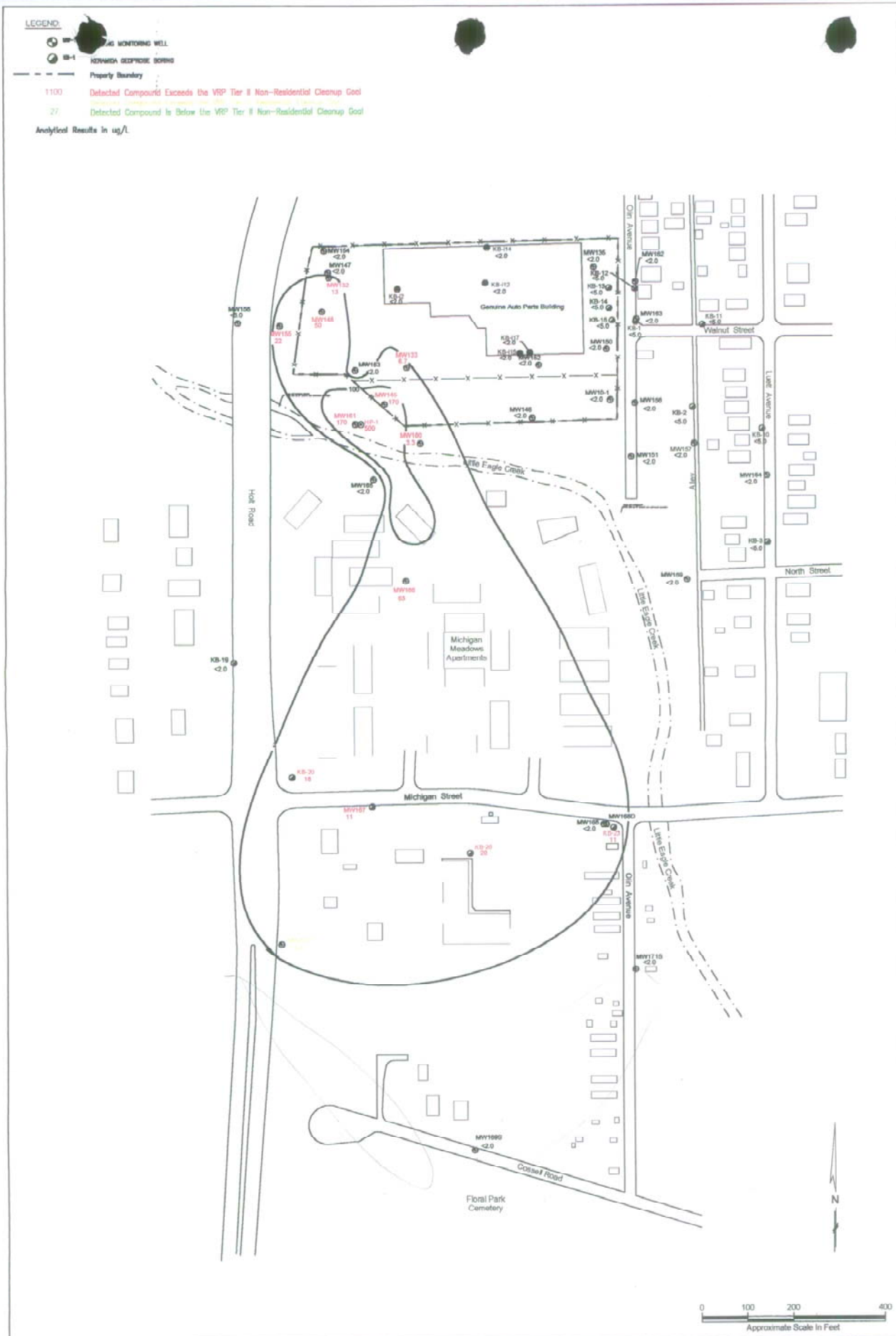
Approximate Scale In Feet

KERAMIDA ENVIRONMENTAL, INC.

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
Scale: 1" = 200'±	Prepared By: MHJ
Project Number: 2829	Approved By: FDW
Date: March 4, 2002	

Figure 20a

Dissolved cis-1,2-DCE Groundwater Plume Map-Shallow Zone



KERAMIDA ENVIRONMENTAL, INC.	Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	**Figure 22a** Dissolved Vinyl Choride Groundwater Plume Map-Shallow Zone
	Scale: 1" = 200'± / Prepared By: MHJ	
	Project Number: 2829 / Approved By: FDW	
	Date: March 5, 2002	

LEGEND:

MW-1 MONITORING WELL

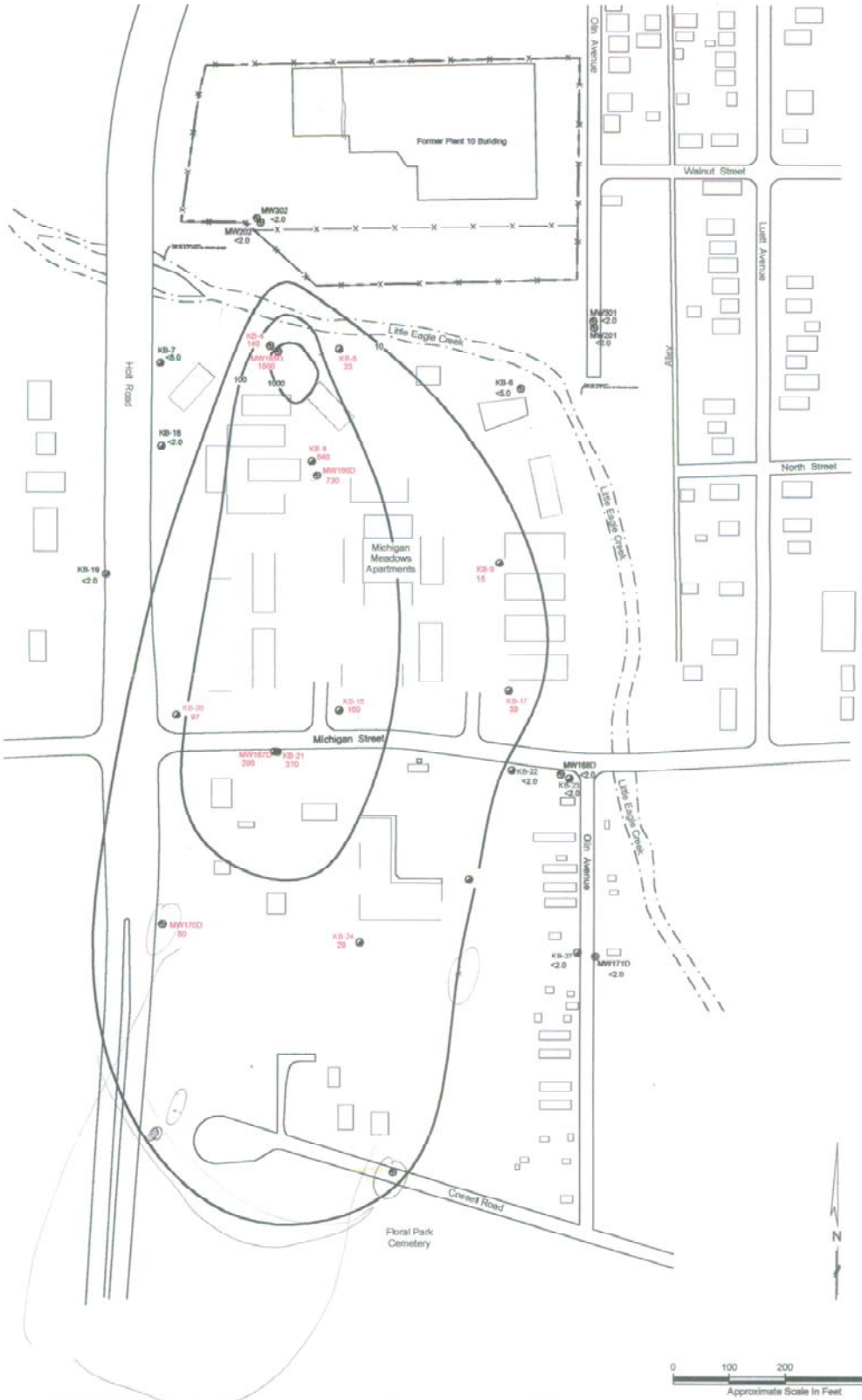
KB-1 KERAMIDA GEOPROBE BORING

Property Boundary

1100 Detected Compound Exceeds the VRP Tier II Non-Residential Cleanup Goal

27 Detected Compound Is Below the VRP Tier II Non-Residential Cleanup Goal

Analytical Results in ug/L



KERAMIDA ENVIRONMENTAL, INC.

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
Scale: 1" = 200'±	Prepared By: MHJ
Project Number: 2829	Approved By: FDW
Date: March 5, 2002	

Figure 22b

Dissolved Vinyl Chloride Groundwater Plume Map-Deep Zone

LEGEND

MW-1 MONITORING WELL

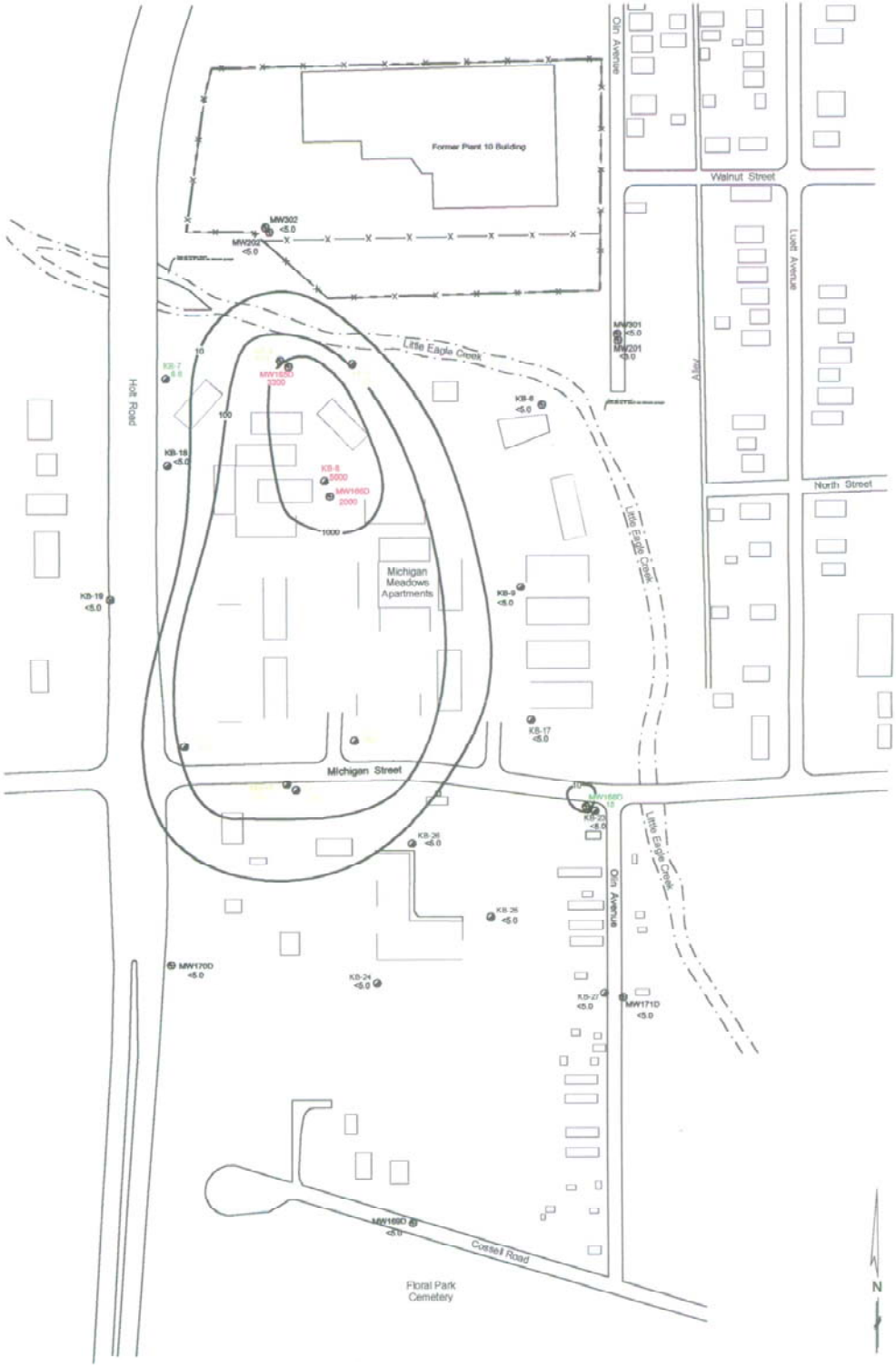
KB-1 KERAMIDA GEOPROBE BORING

Property Boundary

1100 Detected Compound Exceeds the VRP Tier II Non-Residential Cleanup Goal

27 Detected Compound is Below the VRP Tier II Non-Residential Cleanup Goal

Analytical Results in ug/L



0 100 200 400

Approximate Scale In Feet

KERAMIDA ENVIRONMENTAL, INC.

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
Scale: 1" = 200'±	Prepared By: MHJ
Project Number: 2829	Approved By: FDW
Date: March 5, 2002	

Figure 20b

Dissolved cis-1,2-DCE Groundwater Plume Map-Deep Zone

LEGEND:

MW-[illegible] MONITORING WELL

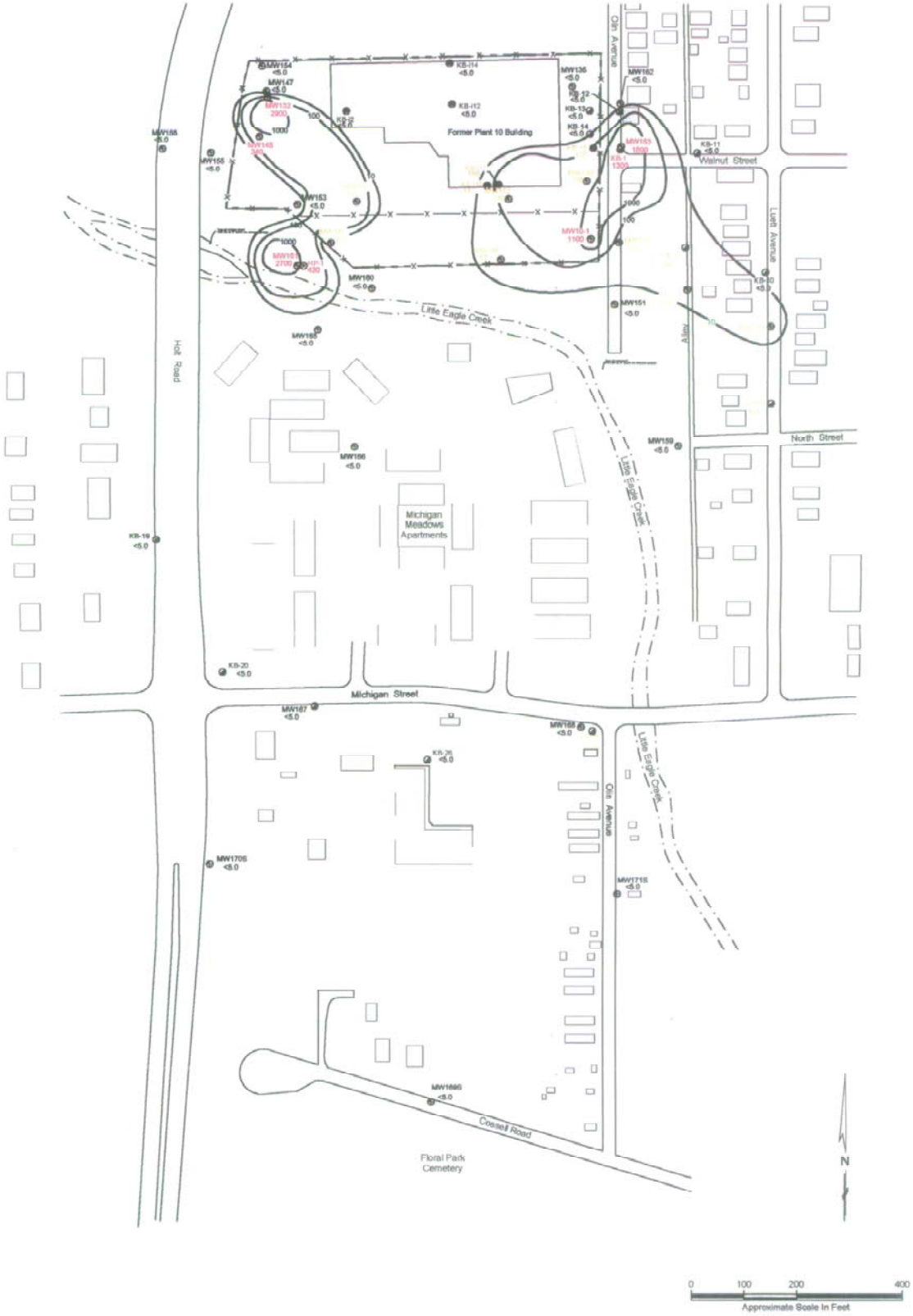
KB-1 KERAMIDA GEOPROBE BORING

Property Boundary

1100 Detected Compound Exceeds the VRP Tier II Non-Residential Cleanup Goal

27 Detected Compound is Below the VRP Tier II Non-Residential Cleanup Goal

Analytical Results in ug/L



KERAMIDA ENVIRONMENTAL, INC.	Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	**Figure 21a** Dissolved TCE Groundwater Plume Map-Shallow Zone
	Scale: 1" = 200'± / Prepared By: MHJ	
	Project Number: 2829 / Approved By: FDW	
	Date: March 5, 2002	

LEGEND:

MW-[illegible] MONITORING WELL

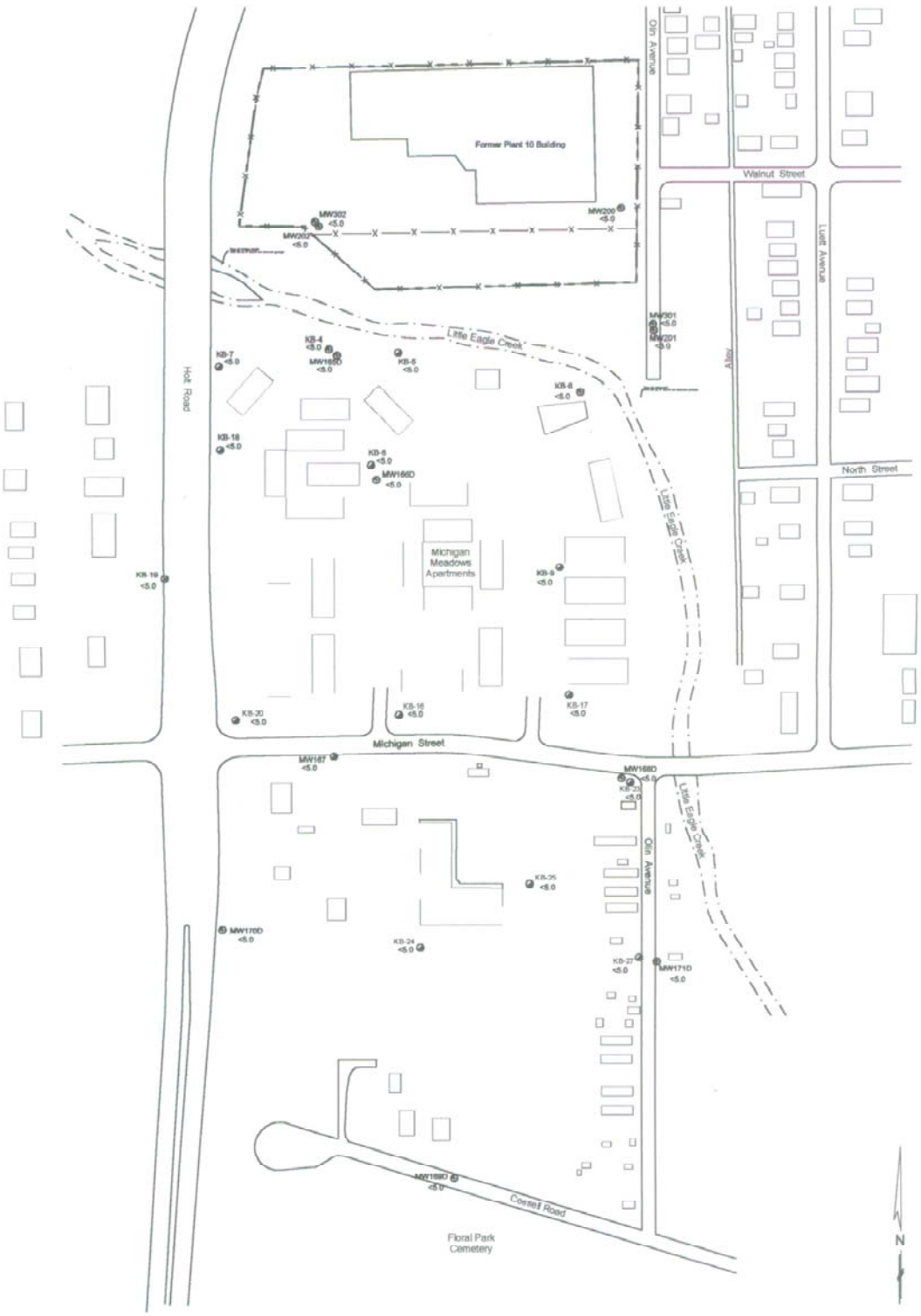
KB-1 KERAMIDA GEOPROBE BORING

Property Boundary

1100 Detected Compound Exceeds the VRP Tier II Non-Residential Cleanup Goal

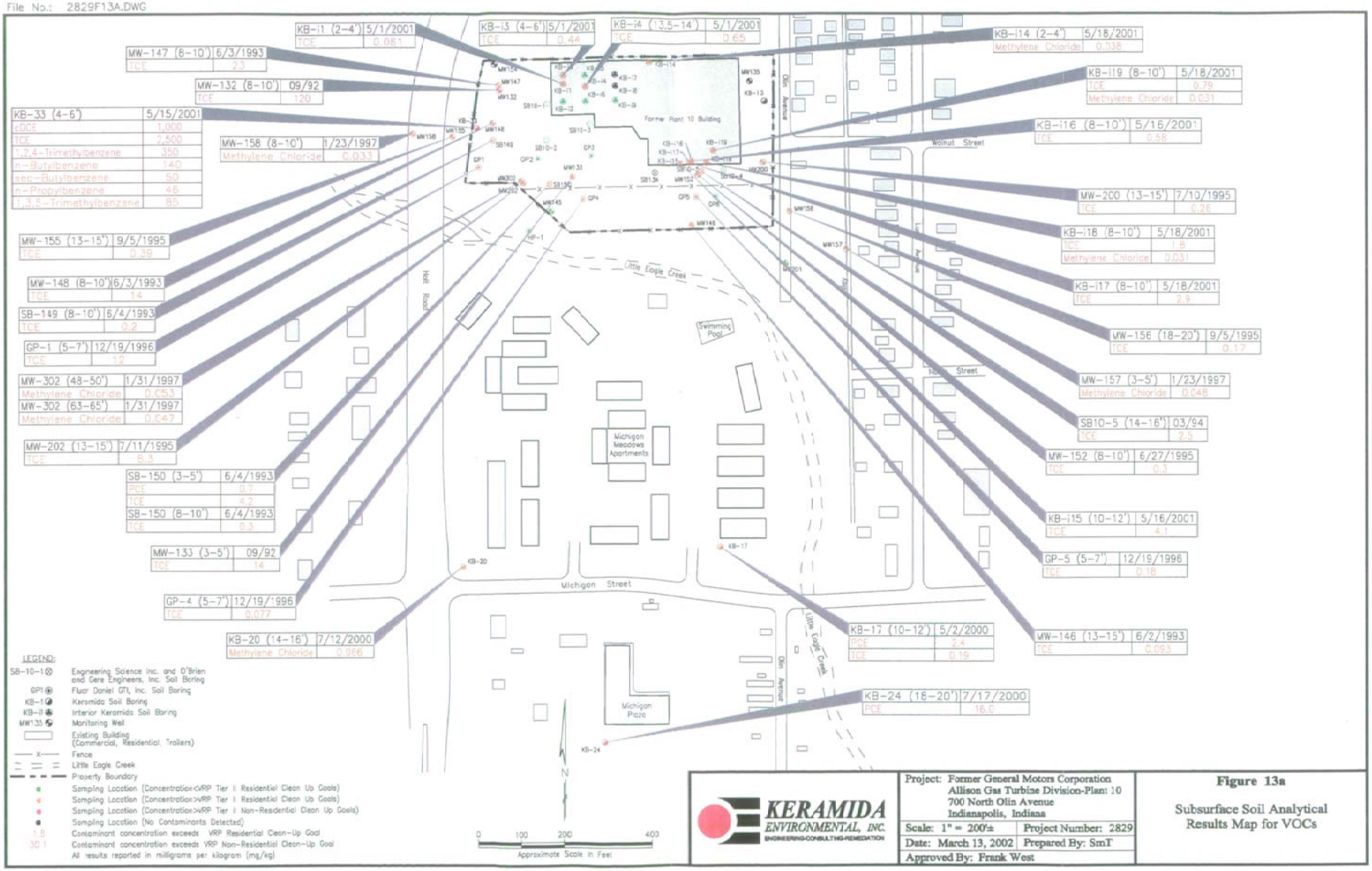
27 Detected Compound Is Below the VRP Tier II Non-Residential Cleanup Goal

Analytical Results in ug/L



KERAMIDA ENVIRONMENTAL, INC.	Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	**Figure 21b** Dissolved TCE Groundwater Plume Map- Deep Zone
	Scale: 1" = 200'± / Prepared By: MHJ	
	Project Number: 2829 / Approved By: FDW	
	Date: March 5, 2002	

File No.: 2829F13A.DWG



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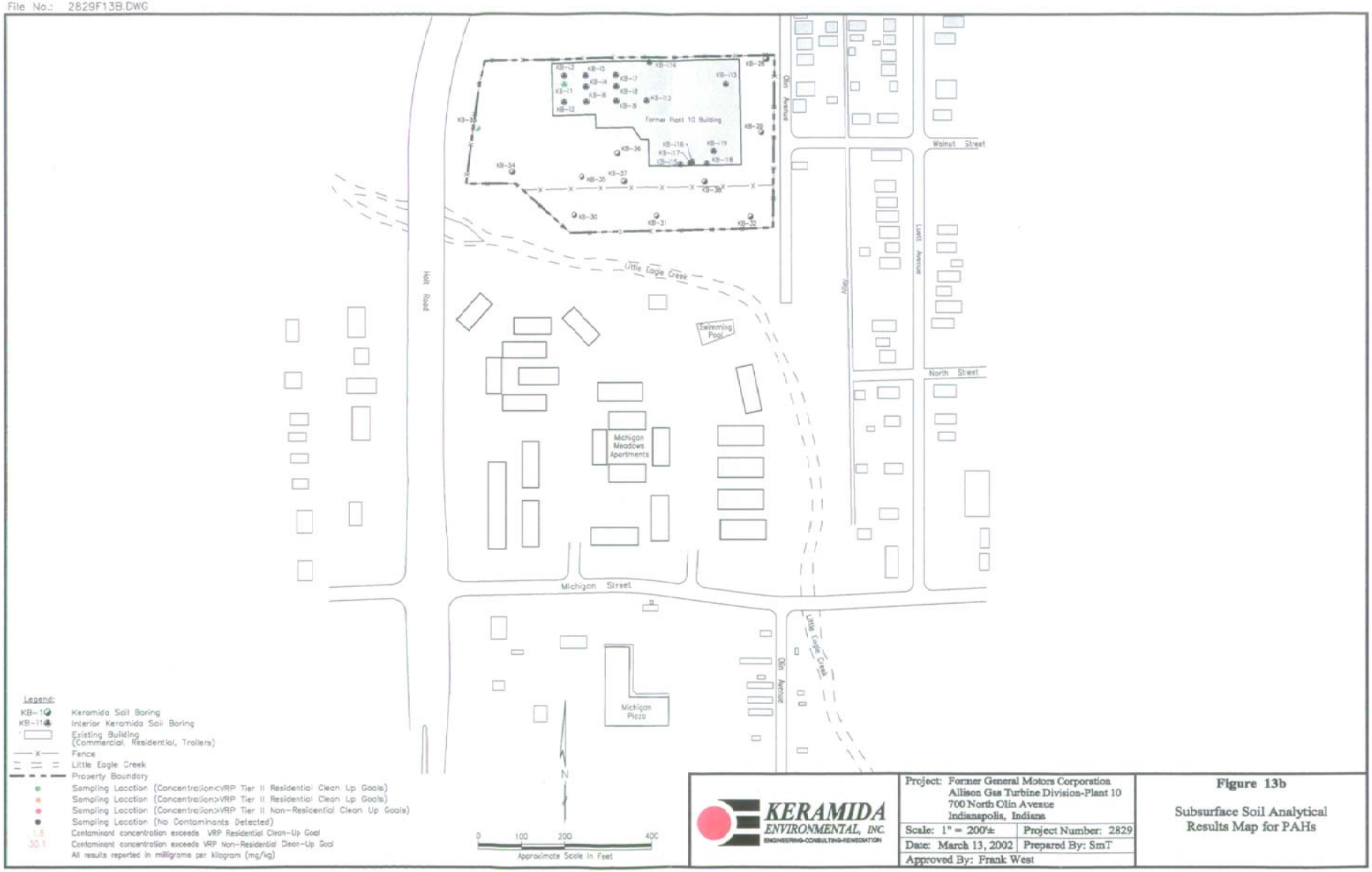

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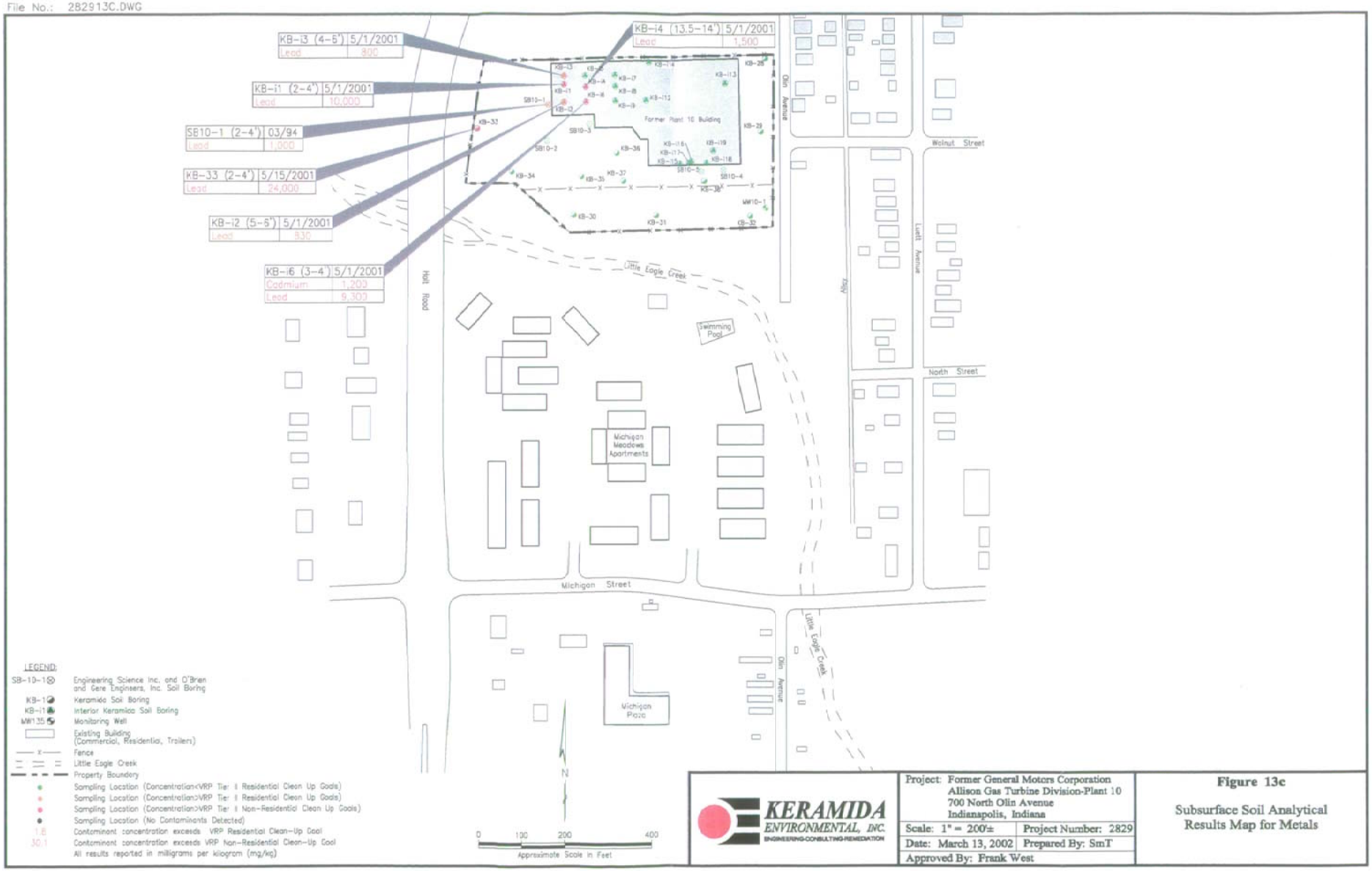
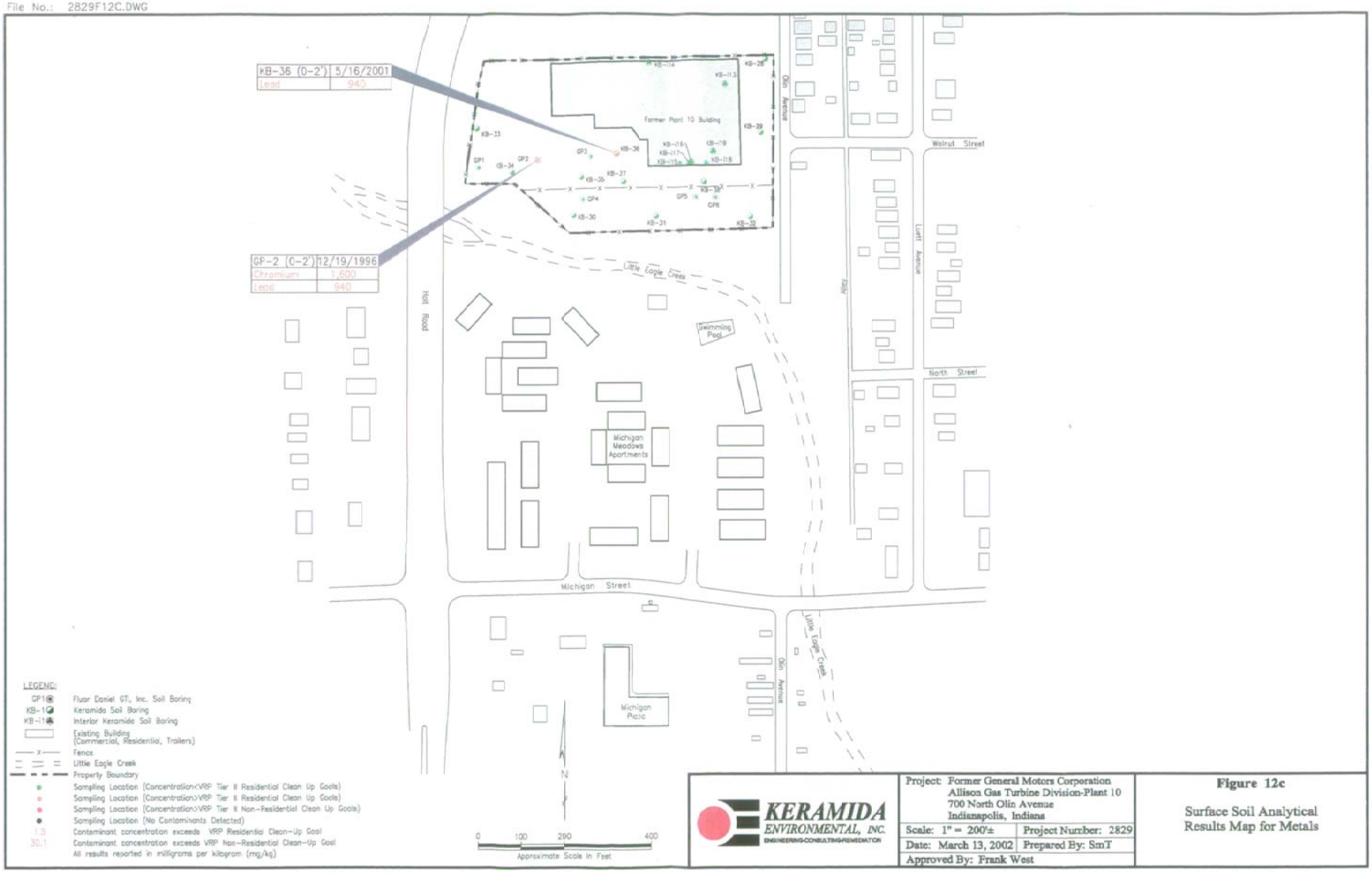
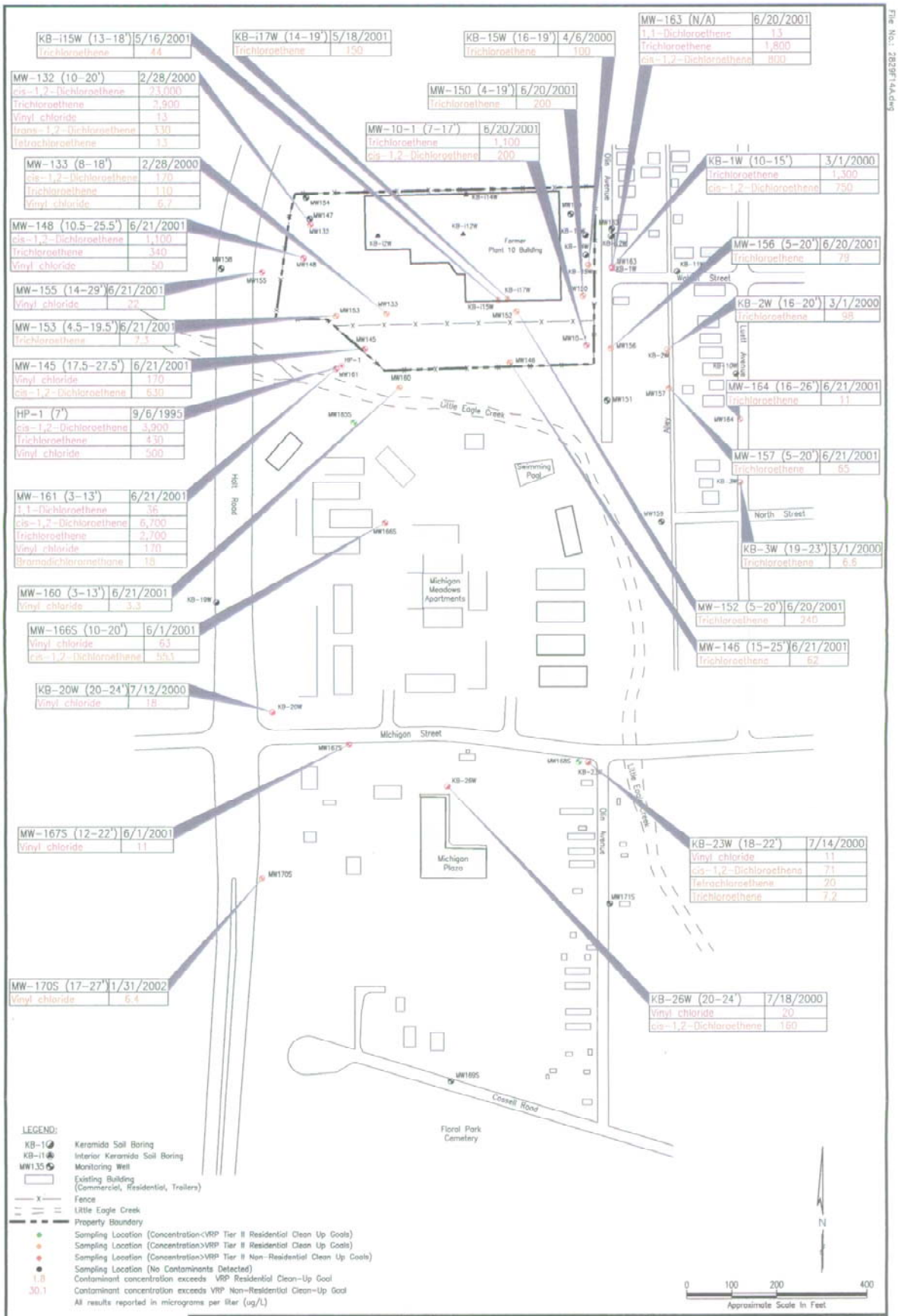


File No.: 2829F12C.DWG





File No.: 2829F14A.dwg

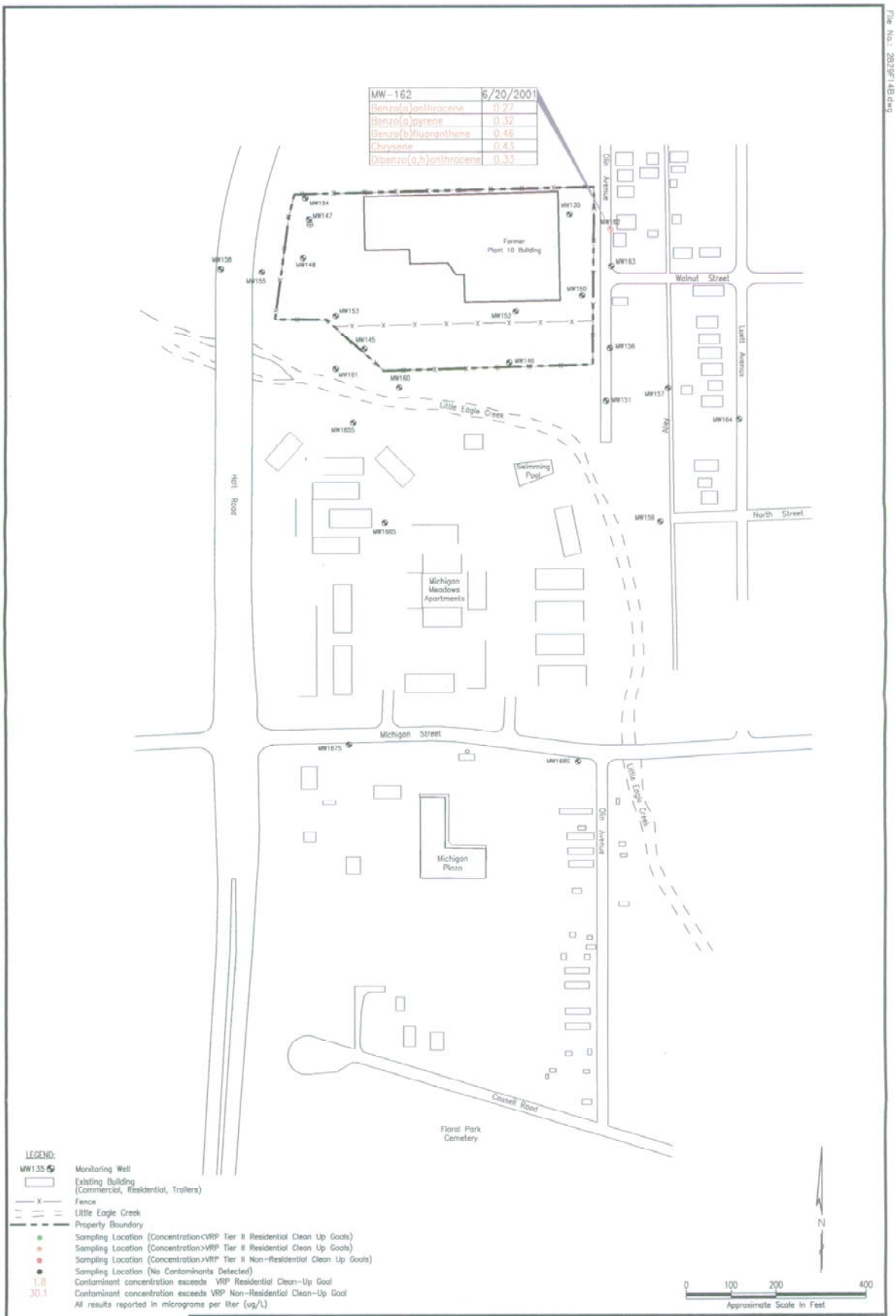
KERAMIDA ENVIRONMENTAL, INC.
ENGINEERING-CONSULTING-REMEDIATION

Project: Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

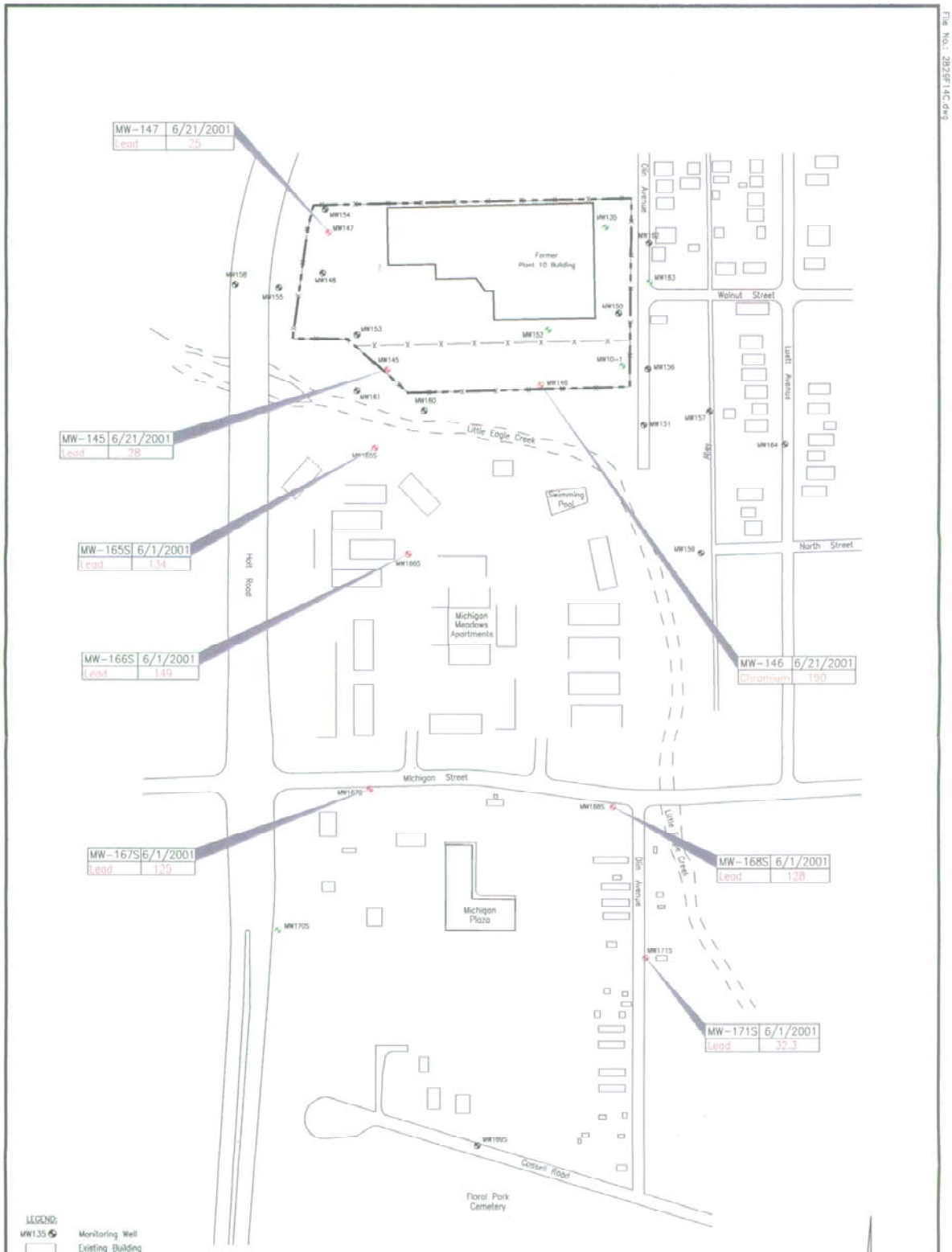
Scale: 1" = 200'± | Project Number: 2829
Date: March 13, 2002 | Prepared By: SmT
Approved By: Frank West

Figure 14a

Shallow Groundwater Analytical Results Map for VOCs



File No.: 2829F14B.dwg



KERAMIDA ENVIRONMENTAL, INC.
ENGINEERING-CONSULTING-REMEDIATION

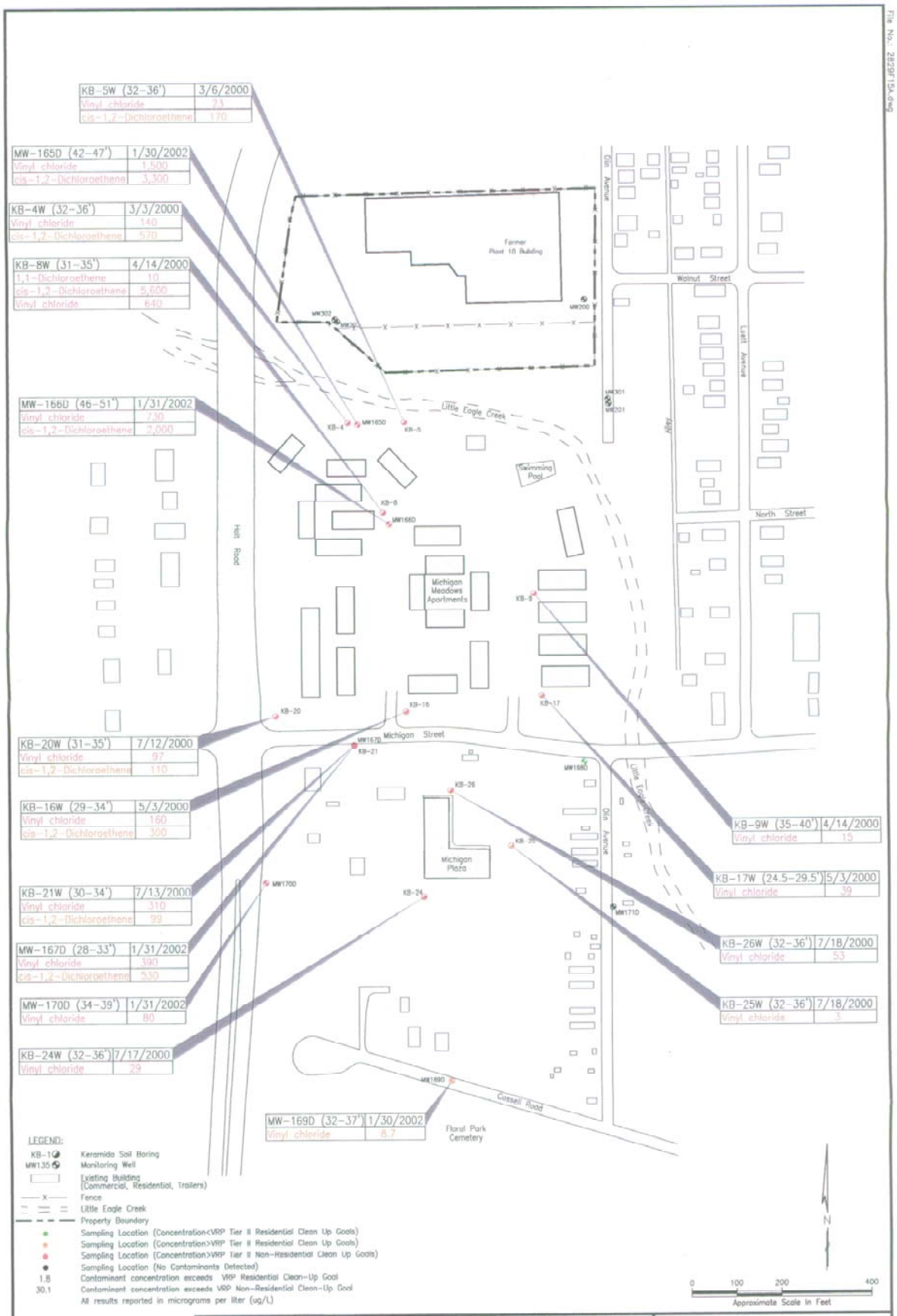
Project: Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

Scale: 1" = 200'± | Project Number: 2829
Date: March 13, 2002 | Prepared By: SmT
Approved By: Frank West

Figure 14c

Shallow Groundwater Analytical Results Map for Metals

File No. 2829F14C.dwg



KERAMIDA ENVIRONMENTAL, INC.
ENGINEERING-CONSULTING-REMEDIATION

Project: Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

Scale: 1" = 200'± | Project Number: 2829
Date: March 13, 2002 | Prepared By: SmT
Approved By: Frank West

Figure 15a

Deep Groundwater Analytical Results Map for VOCs

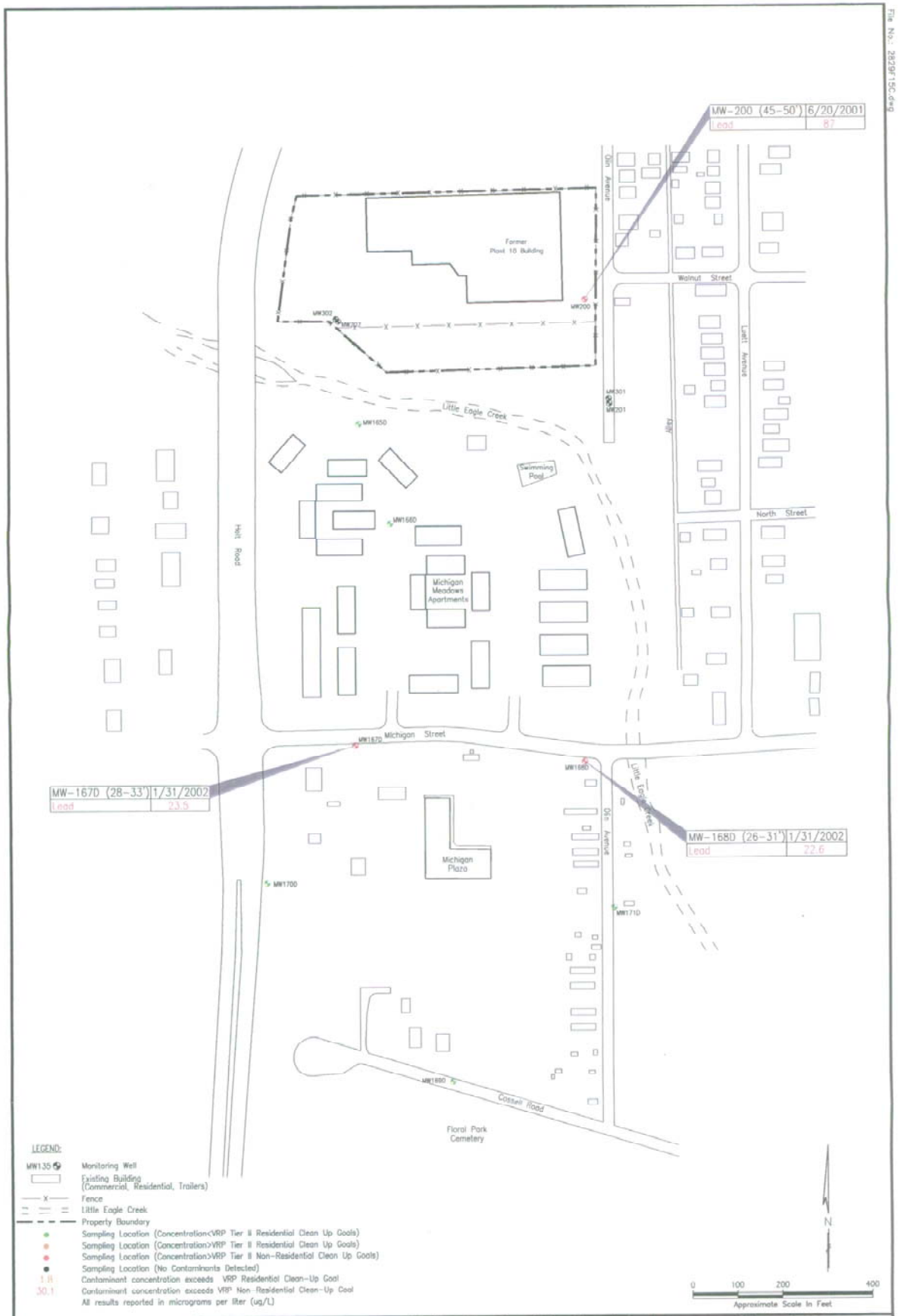
File No.: 2829F15A.dwg

KERAMIDA ENVIRONMENTAL, INC.
ENGINEERING-CONSULTING-REMEDIATION

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
Scale: 1" = 200'±	Project Number: 2829
Date: March 13, 2002	Prepared By: SmT
Approved By: Frank West	

Figure 15b

Deep Groundwater Analytical Results Map for PAHs



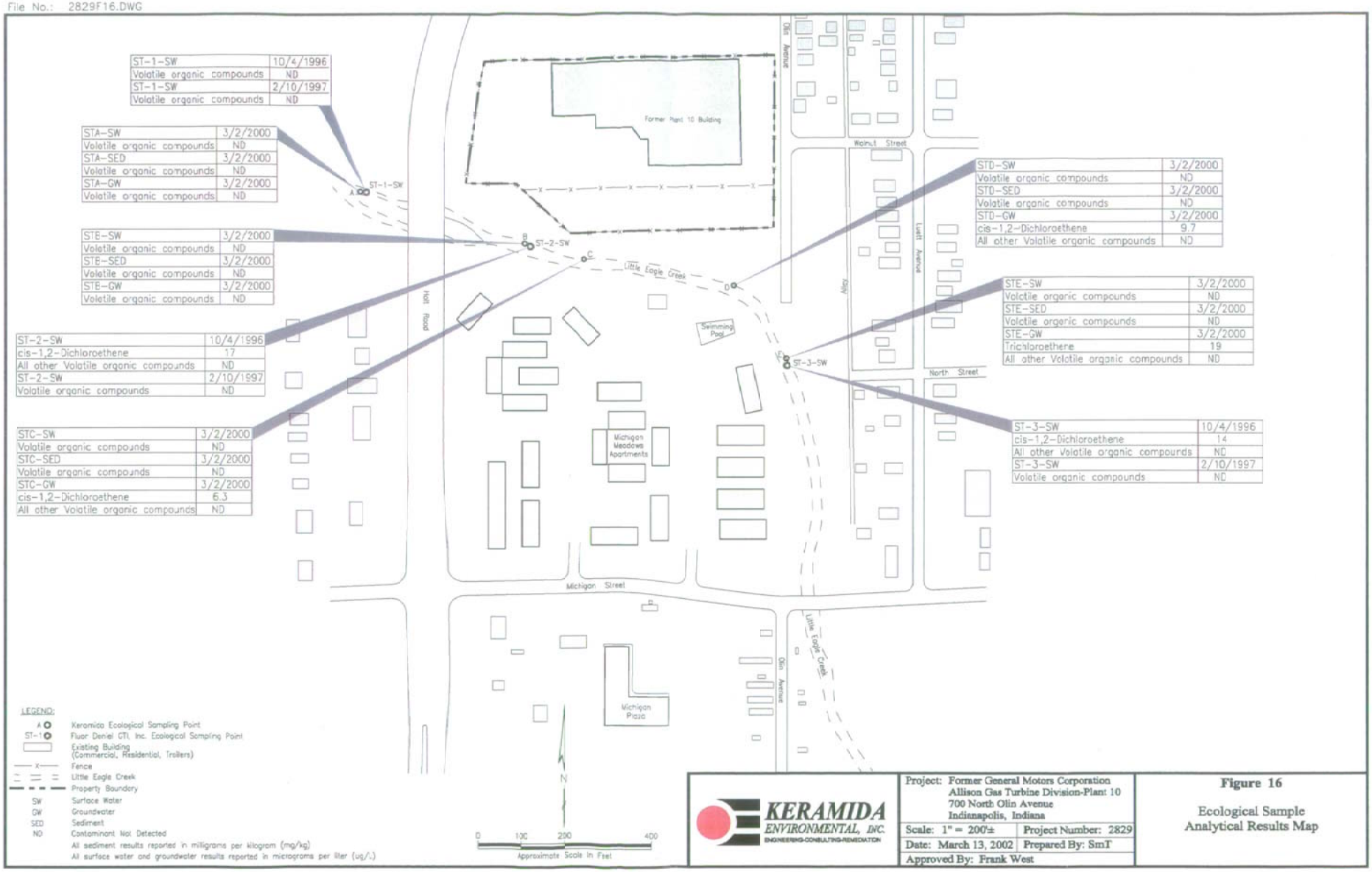
KERAMIDA ENVIRONMENTAL, INC.
ENGINEERING-CONSULTING-REMEDIATION

Project: Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana	
Scale: 1" = 200'±	Project Number: 2829
Date: March 13, 2002	Prepared By: SmT
Approved By: Frank West	

Figure 15c

Deep Groundwater Analytical Results Map for Metals

File No.: 2829F16.DWG



ST-1-SW	10/4/1996
Volatile organic compounds	ND
ST-1-SW	2/10/1997
Volatile organic compounds	ND

STA-SW	3/2/2000
Volatile organic compounds	ND
STA-SED	3/2/2000
Volatile organic compounds	ND
STA-GW	3/2/2000
Volatile organic compounds	ND

STB-SW	3/2/2000
Volatile organic compounds	ND
STB-SED	3/2/2000
Volatile organic compounds	ND
STB-GW	3/2/2000
Volatile organic compounds	ND

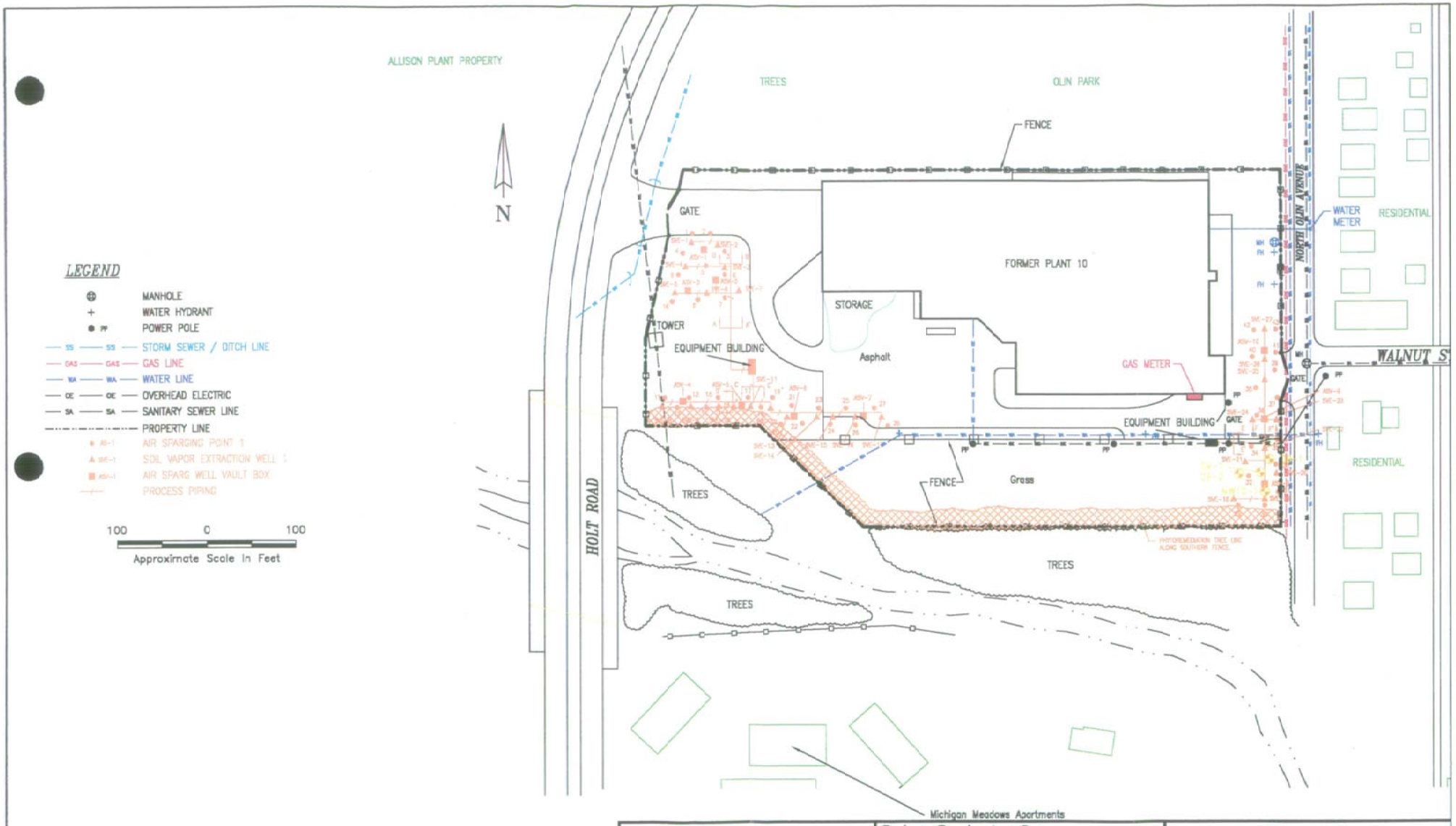
ST-2-SW	10/4/1996
cis-1,2-Dichloroethene	17
All other Volatile organic compounds	ND
ST-2-SW	2/10/1997
Volatile organic compounds	ND

STC-SW	3/2/2000
Volatile organic compounds	ND
STC-SED	3/2/2000
Volatile organic compounds	ND
STC-GW	3/2/2000
cis-1,2-Dichloroethene	6.3
All other Volatile organic compounds	ND

STD-SW	3/2/2000
Volatile organic compounds	ND
STD-SED	3/2/2000
Volatile organic compounds	ND
STD-GW	3/2/2000
cis-1,2-Dichloroethene	9.7
All other Volatile organic compounds	ND

STE-SW	3/2/2000
Volatile organic compounds	ND
STE-SED	3/2/2000
Volatile organic compounds	ND
STE-GW	3/2/2000
Trichloroethene	19
All other Volatile organic compounds	ND

ST-3-SW	10/4/1996
cis-1,2-Dichloroethene	14
All other Volatile organic compounds	ND
ST-3-SW	2/10/1997
Volatile organic compounds	ND

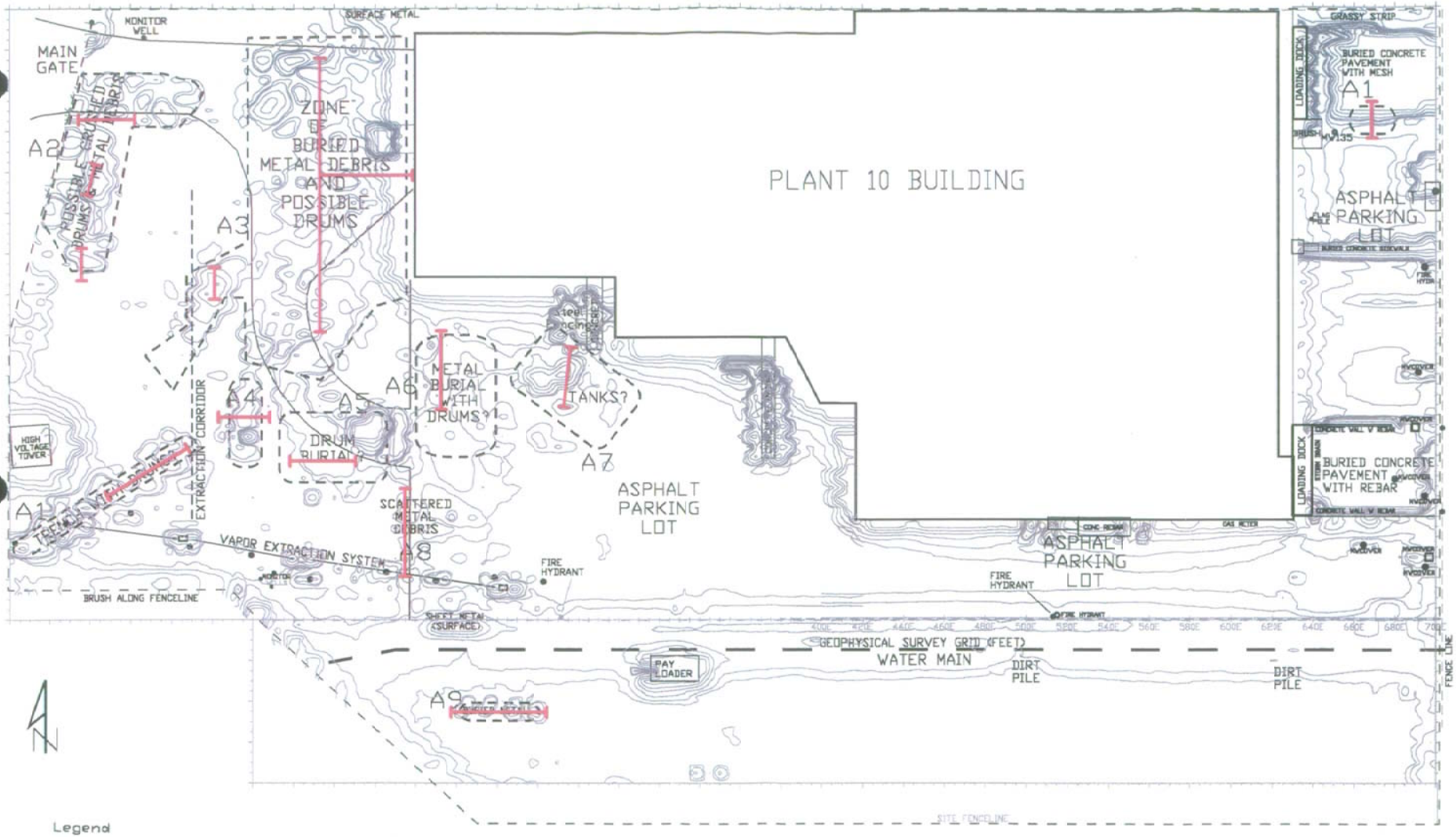


KERAMIDA ENVIRONMENTAL, INC.

Project: Genuine Auto Parts Holt Avenue Indianapolis, Indiana	
Scale: 1" = 100'	Prepared By: MHJ
Project Number: 2829E	Approved By: FDW
Date: March 3, 2002	

Figure 17

Groundwater and Phyto-Remediation System Layout



Legend

Geophysical Data Source: Geophysical Survey for buried materials at Allison Engine Company Plant 10 Site. Geosphere, Inc. September 2000

Test Trench

A7 Area of Geophysical Anomaly

-50 -30 -20 -10 -4 -2 2 4 10 20 30 40 60

EM31 INPHASE METAL (parts per thousand)

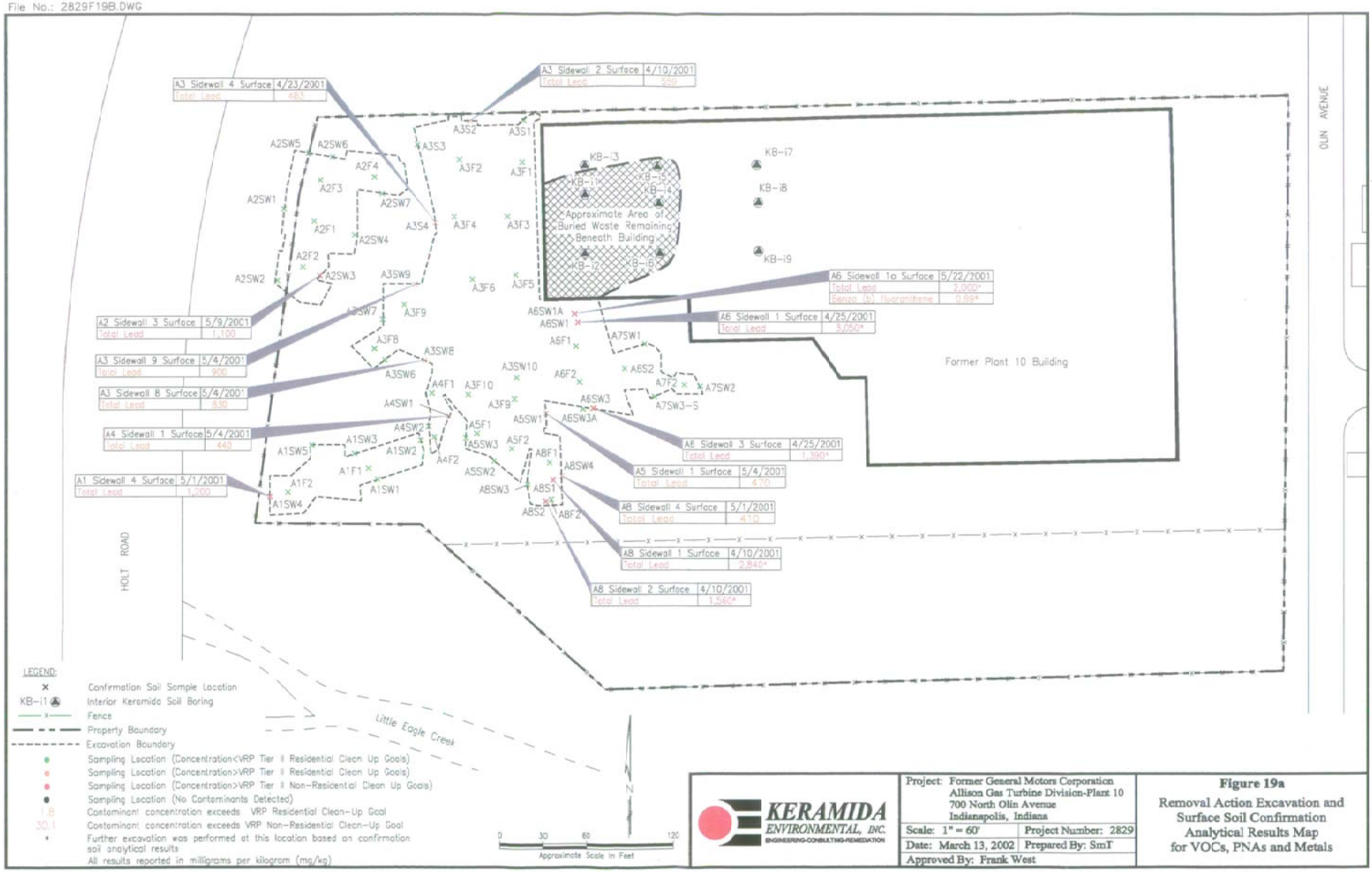
KERAMIDA ENVIRONMENTAL, INC.

Project: Genuine Auto Parts Holt Avenue Indianapolis, Indiana	
Scale: 1" = 100'	Prepared By: MHJ
Project Number: 2829E	Approved By: FDW
Date: March 6, 2002	

Figure 18

Geophysical Anomalies and Test Trench Location Map

File No.: 2829F19B.DWG



File No.: 2829F19B.DWG

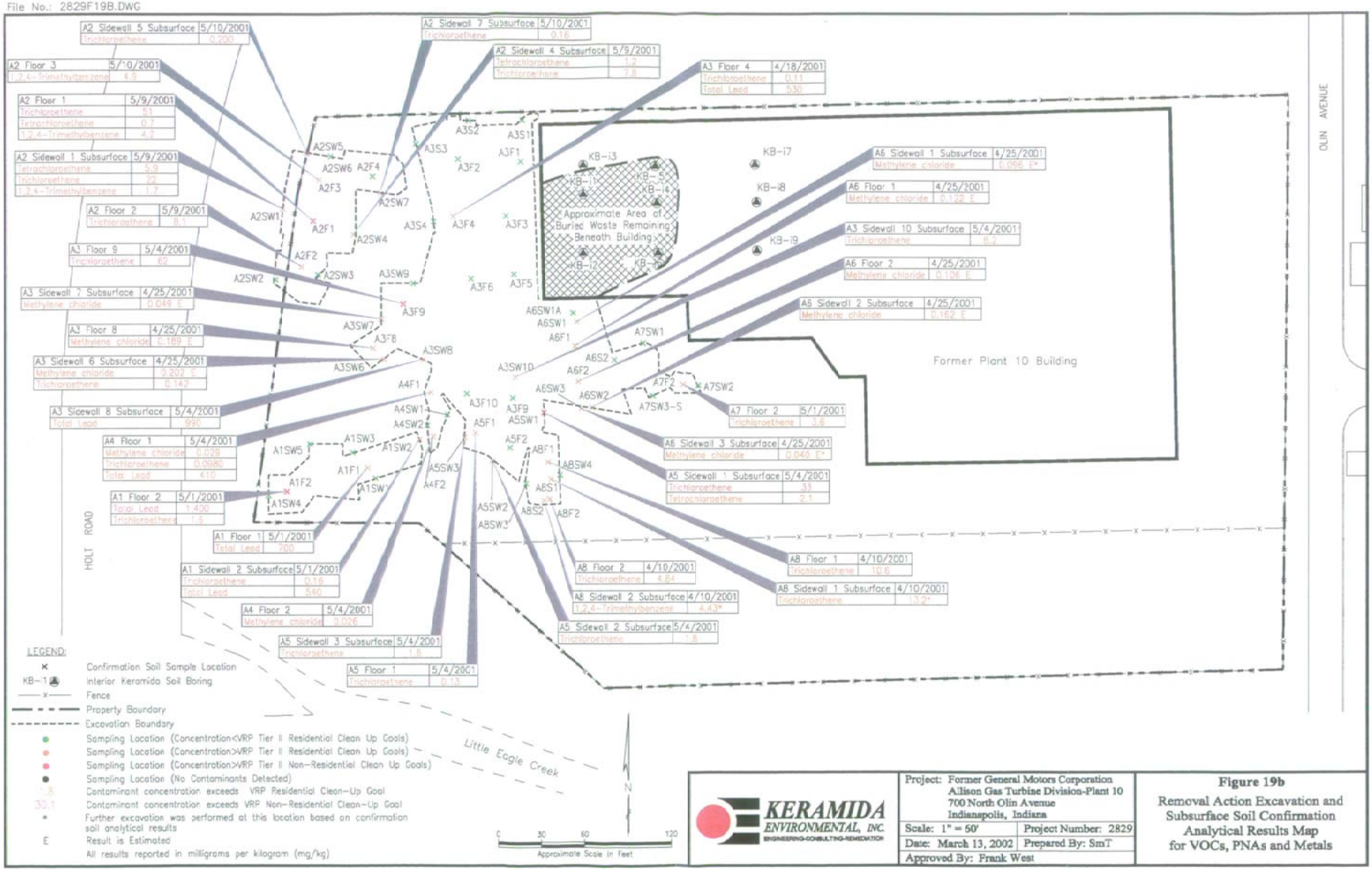


Table 1
Water Level Data Summary
Former Genuine Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet)	Ground Elevation[1] (feet)	Screen Interval (feet)	Screen Depth (feet)	Date Gauged	DTW (feet)	GW Elevation (feet)
MW10-1	714.04	NA	7-17	707.04-697.04	07/14/95	14.07	699.97
					09/11/95	14.25	699.79
					02/05/97	12.75	701.29
					11/22/99	14.53	699.51
					02/28/00	14.37	699.67
	713.71	712.30	7-17	706.71-696.71	11/07/00	14.62	699.09
					06/21/01	NA	NA
					07/24/01	14.40	699.31
					01/30/02	14.25	699.46
MW-132	712.17	NA	10-20	702.17-692.17	07/14/95	11.39	700.78
					09/11/95	11.49	700.68
					02/05/97	10.25	701.92
					02/26/97	11.17	701.00
					11/22/99	12.15	700.02
					02/28/00	10.76	701.41
	712.19	712.70	10-20	702.19-692.19	11/07/00	dry	NA
					06/21/01	NA	NA
	712.22	712.57	10-20	702.22-692.22	07/24/01	11.72	700.50
					01/30/02	11.97	700.25
MW-133	708.79	NA	8-18	700.79-690.79	09/11/95	8.84	699.95
					02/05/97	7.29	701.50
					11/22/99	8.34	700.45
					02/28/00	8.61	700.18
	708.83	709.10	8-18	700.83-690.83	11/07/00	NA	NA
					06/21/01	NA	NA
					07/24/01	NA	NA
					01/30/02	NA	NA
MW-135	713.69	NA	10-20	703.69-693.69	07/14/95	13.26	700.43
					09/11/95	13.66	700.03
					02/05/97	11.96	701.73
					02/26/97	12.47	701.22
					11/22/99	14.20	699.49
					02/28/00	14.05	699.64
	713.70	714.10	10-20	703.70-693.70	11/07/00	14.12	699.58
					06/20/01	13.85	699.85
					07/24/01	13.67	700.03
					01/30/02	13.80	699.90
MW-145	707.90	NA	18-28	689.90-679.90	07/14/95	8.85	699.05
					09/11/95	8.85	699.05
					02/05/97	7.43	700.47
					11/22/99	9.10	699.80
					02/28/00	8.62	699.28
	707.94	709.00	18-28	689.94-679.94	11/07/00	8.74	699.20
					06/21/01	8.82	699.12
	707.98	708.64	18-28	689.98-679.98	07/24/01	8.78	699.20
					01/30/02	8.05	699.93

Table 1
Water Level Data Summary
Former Genuine Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation (1) (feet)	Ground Elevation(1) (feet)	Screen Interval (feet)	Screen Depth (feet)	Date Gauged	DTW (feet)	GW Elevation (feet)
MW-146	708.67	NA	15-25	693.67-683.67	07/14/95	9.41	699.26
					09/11/95	9.44	699.23
					02/05/97	7.95	700.72
					11/22/99	9.73	698.94
					02/28/00	9.91	698.76
	708.71	709.10	15-25	693.71-683.71	11/07/00	8.95	699.76
					06/21/01	9.48	699.23
					07/24/01	9.51	699.20
					01/30/02	9.31	699.40
MW-147	711.88	NA	20-30	691.88-681.88	07/14/95	11.09	700.79
					09/11/95	11.20	700.68
					02/05/97	9.91	701.97
					11/22/99	11.49	700.39
					02/28/00	11.44	700.44
	711.53	711.60	20-30	691.53-681.53	11/07/00	11.40	700.13
					06/21/01	12.46	699.07
	711.61	712.07	20-30	691.61-681.61	07/24/01	11.22	700.39
					01/30/02	11.34	700.27
MW-148	711.00	NA	10.5-25.5	700.50-685.50	07/14/95	10.43	700.57
					09/11/95	10.50	700.50
					02/05/97	8.25	702.75
					02/26/97	10.15	700.85
					11/22/99	11.50	699.50
					02/28/00	10.36	700.64
	711.04	712.00	10.5-25.5	700.54-685-51	11/07/00	10.90	700.14
					06/21/01	10.73	700.31
	711.07	712.00	10.5-25.5	700.57-685.57	07/24/01	10.55	700.52
					01/30/02	10.73	700.34
MW-150	712.93	NA	4-19	708.93-693.93	09/11/95	13.30	699.63
					02/05/97	11.75	701.18
					11/22/99	13.57	699.36
					02/28/00	13.50	699.43
	712.90	713.30	4-19	708.90-693.90	11/07/00	13.80	699.10
					06/20/01	13.51	699.39
	712.96	713.38	4-19	708.96-693.96	07/24/01	12.88	700.08
					01/30/02	13.76	699.20
MW-151	712.96	NA	5-20	707.96-692.96	07/14/95	13.93	699.03
					09/11/95	14.04	698.92
					02/05/97	12.80	700.16
					11/22/99	13.97	698.99
					02/28/00	13.94	699.02
	712.93	713.20	5-20	707.93-692.93	11/07/00	14.15	698.78
					06/20/01	13.98	698.95
					07/24/01	13.88	699.05
					01/30/02	13.80	699.13

Table 1
Water Level Data Summary
Former Genuine Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet)	Ground Elevation[1] (feet)	Screen Interval (feet)	Screen Depth (feet)	Date Gauged	DTW (feet)	GW Elevation (feet)
MW-152	713.06	NA	5-20	708.06-698.06	07/14/95	13.45	699.61
					09/11/95	13.57	699.49
					02/05/97	12.21	700.85
					02/26/97	12.92	700.14
					11/22/99	13.90	699.16
					02/28/00	13.38	699.68
	712.93	713.20	5-20	707.93-697-93	11/07/00	13.84	699.09
					06/20/01	13.64	699.29
					07/24/01	13.54	699.39
					01/30/02	13.46	699.47
MW-153	711.64	NA	4.5-19.5	707.14-692.14	07/14/95	11.77	699.87
					09/11/95	11.76	699.88
					02/05/97	9.78	701.86
					02/26/97	11.14	700.50
					11/22/99	12.25	699.39
					02/28/00	11.26	700.38
	711.67	709.30	4.5-19.5	707.67-692.67	11/07/00	12.15	699.52
					06/21/01	11.95	699.72
					07/24/01	11.92	699.75
					01/30/02	11.83	699.84
MW-154	714.22	NA	5-20	709.22-699.22	07/14/95	13.31	700.91
					09/11/95	13.42	700.80
					02/05/97	12.17	702.05
					02/26/97	13.07	701.15
					11/22/99	14.11	700.11
					02/28/00	13.38	700.84
	714.26	711.60	5-20	709.26-699.26	11/07/00	14.02	700.24
					06/21/01	13.79	700.47
					07/24/01	13.77	700.49
					01/30/02	13.88	700.38
MW-155	717.52	NA	14-29	703.52-688.52	09/11/95	16.78	700.74
					02/05/97	15.71	701.81
					02/26/97	16.70	700.82
					11/22/99	17.53	699.99
					02/28/00	16.72	700.80
	717.61	717.80	14-29	703.61-688.61	11/07/00	17.31	700.30
					06/21/01	17.25	700.36
	717.61	717.86	14-29	703.61-688.61	07/24/01	16.92	700.69
					01/30/02	17.08	700.53
MW-156	711.69	NA	5-20	706.69-691.69	09/11/95	12.21	699.48
					02/05/97	10.65	701.04
					11/22/99	12.52	699.17
					02/28/00	12.41	699.28
	711.72	712.00	5-20	706.72-691.72	11/07/00	12.66	699.06
					06/20/01	12.43	699.29
					07/24/01	12.35	699.37
					01/30/02	12.25	699.47

Table 1
Water Level Data Summary
Former Genuine Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet)	Ground Elevation[1] (feet)	Screen Interval (feet)	Screen Depth (feet)	Date Gauged	DTW (feet)	GW Elevation (feet)
MW-157	711.30	NA	5-20	706.30-691.30	02/05/97	10.71	700.59
					02/26/97	11.14	700.16
					11/22/99	NA	NA
					02/28/00	12.40	698.90
	711.27	711.50	5-20	706.27-691.27	11/07/00	12.55	698.72
					06/21/01	12.34	698.93
					07/24/01	12.17	699.10
					01/30/02	12.18	699.09
MW-158	720.05	NA	14-29	706.05-691.05	02/05/97	17.95	702.10
					02/26/97	19.14	700.91
					11/22/99	19.84	700.21
					02/28/00	19.09	700.96
	720.12	720.50	14-29	706.12-691.12	11/07/00	19.65	700.47
					06/21/01	19.66	700.46
					07/24/01	19.55	700.57
					01/30/02	19.43	700.69
MW-159					02/28/00	11.19	698.81[3]
	710.00	710.40	NA	NA	11/07/00	11.47	698.53
					06/21/01	11.43	698.57
					07/24/01	11.36	698.64
					01/30/02	11.22	698.78
MW-160	701.1[4]	701.35[4]	3-13	698.10-688.10	11/07/00	2.17	698.93
					06/21/01	1.95	699.15
					07/24/01	2.16	698.94
					01/30/02	1.78	699.32
MW-161	702.99[4]	703.38[4]	3-13	699.99-689.99	11/07/00	4.01	698.98
					06/21/01	3.69	699.30
					07/24/01	4.02	698.97
					1/30/02	3.58	699.41
MW-162	712.95	713.43	10-20	702.95-692.95	11/07/00	13.57	699.38
					06/20/01	13.25	699.70
	712.95	713.43	10-20	702.95-692.95	07/24/01	13.08	699.87
					01/30/02	13.06	699.89
MW-163	712.36	712.90	10-20	702.36-692.36	11/07/00	13.15	699.21
					06/20/01	12.83	699.53
	712.36	712.90	10-20	702.36-692.36	07/24/01	12.95	699.41
					01/30/02	12.83	699.53
MW-164	718.56	719.35	16-26	702.56-692.56	11/07/00	19.87	695.69
					06/21/01	19.67	698.89
	718.56	719.35	16-26	702.56-692.56	07/24/01	19.47	696.09
					01/30/02	19.45	699.11
MW-165S	712.54	712.88	10-20	702.54-692.54	06/21/01	13.80	698.74
	712.54	712.88	10-20	702.54-692.54	07/24/01	13.71	698.83
					01/30/02	13.52	699.02
MW-165D	712.34	712.78	42-47	670.34-665.34	01/30/02	13.33	699.01
MW-166S	712.99	713.38	10-20	702.99-692.99	07/24/01	14.32	698.67
					01/30/02	14.32	698.67
MW-166D	712.76	713.04	46-51	666.76-661.76	01/30/02	14.10	698.66

Table 1
Water Level Data Summary
Former Genuine Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet)	Ground Elevation[1] (feet)	Screen Interval (feet)	Screen Depth (feet)	Date Gauged	DTW (feet)	GW Elevation (feet)
MW-167S	716.25	716.55	12-22	704.25-694.25	06/21/01	17.99	698.26
	716.25	716.55	12-22	704.25-694.25	07/24/01	17.81	698.44
					01/30/02	17.90	698.35
MW-167D	716.25	716.60	28-33	688.25-683.25	01/30/02	17.90	698.35
MW-168S	715.71	716.12	12-22	703.71-693.71	06/21/01	17.66	698.05
	715.71	716.12	12-22	703.71-693.71	07/24/01	17.60	698.11
	714.79	715.06	12-22	703.06-693.06	01/30/02	17.06	697.73
MW-168D	714.71	715.09	26-31	688.71-683.71	01/30/02	17.00	697.71
MW-169S	715.95	716.25	15-25	700.95-690.95	01/30/02	19.75	696.20
MW-169D	715.23	716.23	32-37	683.23-678.23	01/30/02	19.65	695.58
MW-170S	717.40	717.77	17-27	700.40-690.40	01/30/02	20.45	696.95
MW-170D	717.34	717.76	34-39	683.34-678.34	01/30/02	20.40	696.94
MW-171S	711.83	712.19	12-22	699.83-689.83	01/30/02	15.29	696.54
MW-171D	711.88	712.15	44-49	667.88-662.88	01/30/02	15.73	696.15
MW-200	713.03	NA	45-50	668.03-663.03	07/14/95	14.20	698.83
					02/05/97	11.96	701.07
					11/22/99	13.87	699.16
					02/28/00	13.53	699.50
	713.00	713.20	45-50	668.00-663.00	11/07/00	13.95	699.05
					06/20/01	13.71	699.29
	713.06	713.28	45-50	668.06-663.06	07/24/01	13.63	699.43
					01/30/02	13.48	699.58
MW-201	712.29	NA	36-38	676.29-674.29	07/14/95	13.15	699.14
					09/11/95	12.99	699.30
					02/05/97	11.65	700.64
					02/26/97	12.12	700.17
					11/22/99	12.13	700.16
					02/28/00	13.14	699.15
	712.25	713.20	36-38	676.25-674.25	11/07/00	13.08	699.17
					06/20/01	12.94	699.31
					07/24/01	14.12	698.13
					01/30/02	12.08	700.17
MW-202	711.88	NA	33-35	678.88-676.88	07/14/95	22.78	689.10
					09/11/95	12.33	699.55
					02/05/97	11.20	700.68
					02/26/97	12.29	699.59
					11/22/99	12.07	699.81
					02/28/00	11.96	699.92
	711.86	709.30	33-35	678.86-676.86	11/07/00	12.68	699.18
					06/21/01	12.46	699.40
					07/24/01	12.36	699.50
					01/30/02	12.39	699.47
MW-301	712.75	NA	45-50	667.75-662.75	02/05/97	11.75	701.00
					11/22/99	13.77	698.98
					02/28/00	13.50	699.25
	712.75	713.20	45-50	667.75-662.75	11/07/00	13.76	698.99
					06/20/01	13.57	699.18
					07/24/01	13.59	699.16
					01/30/02	13.31	699.44

Table 1
Water Level Data Summary
Former Genuine Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation [1] (feet)	Ground Elevation[1] (feet)	Screen Interval (feet)	Screen Depth (feet)	Date Gauged	DTW (feet)	GW Elevation (feet)
MW-302	711.54	NA	45-55	666.54-656.54	02/05/97	11.26	700.28
					02/26/97	12.33	699.21
					11/22/99	13.26	698.28
					02/28/00	12.70	698.84
	711.60	709.60	45-55	666.60-656.60	11/07/00	13.00	698.60
					06/21/01	12.99	698.61
					07/24/01	12.82	698.78
					01/30/02	12.61	698.99
Holt	702.23[5]	NA	NA	NA	11/22/99	NA	702.25
					02/28/00	NA	NA
					11/07/00	NA	NA
					06/21/01	NA	NA
					07/24/01	2.95	699.28
					01/30/02	0.30	701.93
Olin	701.43[5]	NA	NA	NA	11/22/99	NA	701.39
					02/28/00	NA	NA
					11/07/00	NA	NA
					06/21/01	NA	NA
					07/24/01	2.74	698.69
					01/30/02	0.65	700.78

NA Information is not available

[1]For wells surveyed more than once, subsequent survey information is listed with the first gauging event following the survey.

[2]Top of Casing elevation not available. Water depth calculated from ground elevation.

[3]Survey Data from 11-7-00 was used to calculate the groundwater elevation

[4]Survey data from 3-6-02 was used to calculate all groundwater and screen elevations

[5]Elevation of three foot mark on stream guage, surveyed 3-6-02

Table 2
Groundwater Elevation Fluctuations
Former Genuine Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	Gauging Date	Minimum Groundwater Elevation (ft)	Maximum Groundwater Elevation (ft)	Groundwater Elevation Fluctuation (ft)	Average Groundwater Elevation (ft)
MW10-1	11/07/00	699.09		2.20	699.76
	02/05/97		701.29		
MW-132	11/22/99	700.02		1.90	700.82
	02/05/97		701.92		
MW-133	09/11/95	699.95		1.55	700.52
	02/05/97		701.50		
MW-135	11/22/99	699.49		2.24	700.19
	02/05/97		701.73		
MW-145	07/14/95	699.05		1.42	699.46
	09/11/95				
	02/05/97		700.47		
MW-146	02/28/00	698.76		1.96	699.39
	02/05/97		700.72		
MW-147	06/21/01	699.07		2.90	700.46
	02/05/97		701.97		
MW-148	11/22/99	699.50		3.25	700.61
	02/05/97		702.75		
MW-150	11/07/00	699.10		2.08	699.67
	02/05/97		701.18		
MW-151	11/07/00	698.78		1.38	699.11
	02/05/97		700.16		
MW-152	11/07/00	699.09		1.76	699.62
	02/05/97		700.85		
MW-153	11/22/99	699.39		2.47	700.07
	02/05/97		701.86		
MW-154	11/22/99	700.11		1.94	700.74
	02/05/97		702.05		
MW-155	11/22/99	699.99		1.82	700.67
	02/05/97		701.81		
MW-156	11/07/00	699.06		1.98	699.52
	02/05/97		701.04		
MW-157	11/07/00	698.72		1.87	699.36
	02/05/97		700.59		
MW-158	11/22/99	700.21		1.89	700.80
	02/05/97		702.10		
MW-159	11/07/00	698.53		0.28	698.67
	02/28/00		698.81		

Table 2
Groundwater Elevation Fluctuations
Former Genuine Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	Gauging Date	Minimum Groundwater Elevation (ft)	Maximum Groundwater Elevation (ft)	Groundwater Elevation Fluctuation (ft)	Average Groundwater Elevation (ft)
MW-160	11/07/00	698.93		0.39	699.09
	01/30/02		699.32		
MW-161	07/24/01	698.97		0.44	699.17
	1/30/02		699.41		
MW-162	11/07/00	699.38		0.51	699.71
	01/30/02		699.89		
MW-163	11/07/00	699.21		0.32	699.42
	06/20/01		699.53		
MW-164	11/07/00	695.69		3.42	697.45
	01/30/02		699.11		
MW-165S	06/21/01	698.74		0.28	698.86
	01/30/02		699.02		
MW-165D	01/30/02	699.01	699.01	0.00	699.01
MW-166S	07/24/01	698.67		0.00	698.67
	01/30/02		698.67		
MW-166D	01/30/02	698.66	698.66	0.00	698.66
MW-167S	06/21/01	698.26		0.18	698.35
	07/24/01		698.44		
MW-167D	01/30/02	698.35	698.35	0.00	698.35
MW-168S	01/30/02	697.73		0.38	697.96
	07/24/01		698.11		
MW-168D	01/30/02	697.71	697.71	0.00	697.71
MW-169S	01/30/02	696.20	696.20	0.00	696.20
MW-169D	01/30/02	695.58	695.58	0.00	695.58
MW-170S	01/30/02	696.95	696.95	0.00	696.95
MW-170D	01/30/02	696.94	696.94	0.00	696.94
MW-171S	01/30/02	696.54	696.54	0.00	696.54
MW-171D	01/30/02	696.15	696.15	0.00	696.15
MW-200	07/14/95	698.83		2.24	699.49
	02/05/97		701.07		
MW-201	07/24/01	698.13		2.51	699.53
	02/05/97		700.64		
MW-202	07/14/95	689.10		11.58	698.62
	02/05/97		700.68		
MW-301	11/22/99	698.98		2.02	699.43
	02/05/97		701.00		
MW-302	11/22/99	698.28		2.00	698.95
	02/05/97		700.28		

Table 2
Groundwater Elevation Fluctuations
Former Genuine Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	Gauging Date	Minimum Groundwater Elevation (ft)	Maximum Groundwater Elevation (ft)	Groundwater Elevation Fluctuation (ft)	Average Groundwater Elevation (ft)
Holt	07/24/01	699.28		2.97	701.15
	11/22/99		702.25		
Olin	07/24/01	698.69		2.70	700.29
	11/22/99		701.39		

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Calculated Vertical Hydraulic Gradients
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Date	Well ID	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Mid-screen Elevation (ft)	Groundwater Elevation (ft)	Mid-screen Distance (ft)	Groundwater Elevation Difference (ft)	Vertical Gradient
02/05/1997	MW-150	708.93	693.93	701.43	701.18	35.90	-0.11	-0.0031
	MW-200	668.03	663.03	665.53	701.07			
11/22/1999	MW-150	708.93	693.93	701.43	699.36	35.90	-0.20	-0.0056
	MW-200	668.03	663.03	665.53	699.16			
02/28/2000	MW-150	708.93	693.93	701.43	699.43	35.90	0.07	0.0019
	MW-200	668.03	663.03	665.53	699.50			
11/07/2000	MW-150	708.90	693.90	701.40	699.10	35.90	-0.05	-0.0014
	MW-200	668.00	663.00	665.50	699.05			
06/20/2001	MW-150	708.90	693.90	701.40	699.39	35.90	-0.10	-0.0028
	MW-200	668.00	663.00	665.50	699.29			
07/24/2001	MW-150	708.96	693.96	701.46	700.08	35.90	-0.65	-0.0181
	MW-200	668.06	663.06	665.56	699.43			
01/30/2002	MW-150	708.96	693.96	701.46	699.20	35.90	0.38	0.0106
	MW-200	668.06	663.06	665.56	699.58			
07/14/1995	MW-151	707.96	692.96	700.46	699.03	25.17	0.11	0.0044
	MW-201	676.29	674.29	675.29	699.14			
09/11/1995	MW-151	707.96	692.96	700.46	698.92	25.17	0.38	0.0151
	MW-201	676.29	674.29	675.29	699.30			
02/05/1997	MW-151	707.96	692.96	700.46	700.16	25.17	0.48	0.0191
	MW-201	676.29	674.29	675.29	700.64			
11/22/1999	MW-151	707.96	692.96	700.46	698.99	25.17	1.17	0.0465
	MW-201	676.29	674.29	675.29	700.16			
02/28/2000	MW-151	707.96	692.96	700.46	699.02	25.17	0.13	0.0052
	MW-201	676.29	674.29	675.29	699.15			

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Calculated Vertical Hydraulic Gradients
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Date	Well ID	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Mid-screen Elevation (ft)	Groundwater Elevation (ft)	Mid-screen Distance (ft)	Groundwater Elevation Difference (ft)	Vertical Gradient
11/07/2000	MW-151	707.93	692.93	700.43	698.78	25.18	0.39	0.0155
	MW-201	676.25	674.25	675.25	699.17			
06/20/2001	MW-151	707.93	692.93	700.43	698.95	25.18	0.36	0.0143
	MW-201	676.25	674.25	675.25	699.31			
07/24/2001	MW-151	707.93	692.93	700.43	699.05	25.18	-0.92	-0.0365
	MW-201	676.25	674.25	675.25	698.13			
01/30/2002	MW-151	707.93	692.93	700.43	699.13	25.18	1.04	0.0413
	MW-201	676.25	674.25	675.25	700.17			
02/05/1997	MW-151	707.96	692.96	700.46	700.16	35.21	0.84	0.0239
	MW-301	667.75	662.75	665.25	701.00			
11/22/1999	MW-151	707.96	692.96	700.46	698.99	35.21	-0.01	-0.0003
	MW-301	667.75	662.75	665.25	698.98			
02/28/2000	MW-151	707.96	692.96	700.46	699.02	35.21	0.23	0.0065
	MW-301	667.75	662.75	665.25	699.25			
11/07/2000	MW-151	707.93	692.93	700.43	698.78	35.18	0.21	0.0060
	MW-301	667.75	662.75	665.25	698.99			
06/20/2001	MW-151	707.93	692.93	700.43	698.95	35.18	0.23	0.0065
	MW-301	667.75	662.75	665.25	699.18			
07/24/2001	MW-151	707.93	692.93	700.43	699.05	35.18	0.11	0.0031
	MW-301	667.75	662.75	665.25	699.16			
01/30/2002	MW-151	707.93	692.93	700.43	699.13	35.18	0.31	0.0088
	MW-301	667.75	662.75	665.25	699.44			
02/05/1997	MW-201	676.29	674.29	675.29	700.64	10.04	0.36	0.0359
	MW-301	667.75	662.75	665.25	701.00			

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Calculated Vertical Hydraulic Gradients
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Date	Well ID	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Mid-screen Elevation (ft)	Groundwater Elevation (ft)	Mid-screen Distance (ft)	Groundwater Elevation Difference (ft)	Vertical Gradient
11/22/1999	MW-201	676.29	674.29	675.29	700.16	10.04	-1.18	-0.1175
	MW-301	667.75	662.75	665.25	698.98			
02/28/2000	MW-201	676.29	674.29	675.29	699.15	10.04	0.10	0.0100
	MW-301	667.75	662.75	665.25	699.25			
11/07/2000	MW-201	676.25	674.25	675.25	699.17	10.00	-0.18	-0.0180
	MW-301	667.75	662.75	665.25	698.99			
06/20/2001	MW-201	676.25	674.25	675.25	699.31	10.00	-0.13	-0.0130
	MW-301	667.75	662.75	665.25	699.18			
07/24/2001	MW-201	676.25	674.25	675.25	698.13	10.00	1.03	0.1030
	MW-301	667.75	662.75	665.25	699.16			
01/30/2002	MW-201	676.25	674.25	675.25	700.17	10.00	-0.73	-0.0730
	MW-301	667.75	662.75	665.25	699.44			
07/14/1995	MW-153	707.14	692.14	699.64	699.87	21.76	-10.77	-0.4949
	MW-202	678.88	676.88	677.88	689.10			
09/11/1995	MW-153	707.14	692.14	699.64	699.88	21.76	-0.33	-0.0152
	MW-202	678.88	676.88	677.88	699.55			
02/05/1997	MW-153	707.14	692.14	699.64	701.86	21.76	-1.18	-0.0542
	MW-202	678.88	676.88	677.88	700.68			
02/26/1997	MW-153	707.14	692.14	699.64	700.50	21.76	-0.91	-0.0418
	MW-202	678.88	676.88	677.88	699.59			
11/22/1999	MW-153	707.14	692.14	699.64	699.39	21.76	0.42	0.0193
	MW-202	678.88	676.88	677.88	699.81			
02/28/2000	MW-153	707.14	692.14	699.64	700.38	21.76	-0.46	-0.0211
	MW-202	678.88	676.88	677.88	699.92			

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Calculated Vertical Hydraulic Gradients
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Date	Well ID	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Mid-screen Elevation (ft)	Groundwater Elevation (ft)	Mid-screen Distance (ft)	Groundwater Elevation Difference (ft)	Vertical Gradient
11/07/2000	MW-153	707.67	692.67	700.17	699.52	22.31	-0.34	-0.0152
	MW-202	678.86	676.86	677.86	699.18			
06/21/2000	MW-153	707.67	692.67	700.17	699.72	22.31	-0.32	-0.0143
	MW-202	678.86	676.86	677.86	699.40			
07/24/2001	MW-153	707.67	692.67	700.17	699.75	22.31	-0.25	-0.0112
	MW-202	678.86	676.86	677.86	699.50			
01/30/2002	MW-153	707.67	692.67	700.17	699.84	22.31	-0.37	-0.0166
	MW-202	678.86	676.86	677.86	699.47			
02/05/1997	MW-153	707.14	692.14	699.64	701.86	38.10	-1.58	-0.0415
	MW-302	666.54	656.54	661.54	700.28			
02/26/1997	MW-153	707.14	692.14	699.64	700.50	38.10	-1.29	-0.0339
	MW-302	666.54	656.54	661.54	699.21			
11/22/1999	MW-153	707.14	692.14	699.64	699.39	38.10	-1.11	-0.0291
	MW-302	666.54	656.54	661.54	698.28			
02/28/2000	MW-153	707.14	692.14	699.64	700.38	38.10	-1.54	-0.0404
	MW-302	666.54	656.54	661.54	698.84			
11/07/2000	MW-153	707.67	692.67	700.17	699.52	38.57	-0.92	-0.0239
	MW-302	666.60	656.60	661.60	698.60			
06/21/2000	MW-153	707.67	692.67	700.17	699.72	38.57	-1.11	-0.0288
	MW-302	666.60	656.60	661.60	698.61			
07/24/2001	MW-153	707.67	692.67	700.17	699.75	38.57	-0.97	-0.0251
	MW-302	666.60	656.60	661.60	698.78			
01/30/2002	MW-153	707.67	692.67	700.17	699.84	38.57	-0.85	-0.0220
	MW-302	666.60	656.60	661.60	698.99			

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Calculated Vertical Hydraulic Gradients
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Date	Well ID	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Mid-screen Elevation (ft)	Groundwater Elevation (ft)	Mid-screen Distance (ft)	Groundwater Elevation Difference (ft)	Vertical Gradient
02/05/1997	MW-202	678.88	676.88	677.88	700.68	16.34	-0.40	-0.0245
	MW-302	666.54	656.54	661.54	700.28			
02/26/1997	MW-202	678.88	676.88	677.88	699.59	16.34	-0.38	-0.0233
	MW-302	666.54	656.54	661.54	699.21			
11/22/1999	MW-202	678.88	676.88	677.88	699.81	16.34	-1.53	-0.0936
	MW-302	666.54	656.54	661.54	698.28			
02/28/2000	MW-202	678.88	676.88	677.88	699.92	16.34	-1.08	-0.0661
	MW-302	666.54	656.54	661.54	698.84			
11/07/2000	MW-202	678.86	676.86	677.86	699.18	16.26	-0.58	-0.0357
	MW-302	666.60	656.60	661.60	698.60			
06/21/2000	MW-202	678.86	676.86	677.86	699.40	16.26	-0.79	-0.0486
	MW-302	666.60	656.60	661.60	698.61			
07/24/2001	MW-202	678.86	676.86	677.86	699.50	16.26	-0.72	-0.0443
	MW-302	666.60	656.60	661.60	698.78			
01/30/2002	MW-202	678.86	676.86	677.86	699.47	16.26	-0.48	-0.0295
	MW-302	666.60	656.60	661.60	698.99			
01/30/2002	MW-165S	702.54	692.54	697.54	699.02	29.70	-0.01	-0.0003
	MW-165D	670.34	665.34	667.84	699.01			
01/30/2002	MW-166S	702.99	692.99	697.99	698.67	33.73	-0.01	-0.0003
	MW-166D	666.76	661.76	664.26	698.66			
01/30/2002	MW-167S	704.25	694.25	699.25	698.35	13.50	0.00	0.0000
	MW-167D	688.25	683.25	685.75	698.35			

T[illegible] 3a

Calculated Vertical Hydraulic Gradients
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Date	Well ID	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Mid-screen Elevation (ft)	Groundwater Elevation (ft)	Mid-screen Distance (ft)	Groundwater Elevation Difference (ft)	Vertical Gradient
01/30/2002	MW-168S	703.06	693.06	698.06	697.73	11.85	-0.02	-0.0017
	MW-168D	688.71	683.71	686.21	697.71			
01/30/2002	MW-169S	700.95	690.95	695.95	696.20	15.22	-0.62	-0.0407
	MW-169D	683.23	678.23	680.73	695.58			
01/30/2002	MW-170S	700.40	690.40	695.40	696.95	14.56	-0.01	-0.0007
	MW-170D	683.34	678.34	680.84	696.94			
01/30/2002	MW-171S	699.83	689.83	694.83	696.54	29.45	-0.39	-0.0132
	MW-171D	667.88	662.88	665.38	696.15			

Table 3b
Calculated Horizontal Hydraulic Gradients
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Gauging Date	Well Type	Contour Interval	Groundwater Elevation Difference (ft)	Horizontal Distance Between Contour Lines (ft)	Horizontal Gradient
February 28, 2000	Shallow	699-701	2.00	76.90	0.0260
		699-701	2.00	500.00	0.0040
November 7, 2000	Shallow	699-700	1.00	153.85	0.0065
		699-700	1.00	884.61	0.0011
June 21, 2001	Shallow	698-700	2.00	1038.46	0.0019
		698-700	2.00	1192.31	0.0017
July 24, 2001	Shallow	699-701	2.00	153.85	0.0130
		699-701	2.00	280.77	0.0071
January 30, 2002	Shallow	697-700	3.00	1069.23	0.0028
		697-700	3.00	1392.31	0.0022
				Average:	0.0066
January 30, 2002	Deep	696-699	3.00	1169.23	0.0026
		696-699	3.00	1207.69	0.0025
				Average:	0.0025

Table 4a
Surface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane (Methyl Bromide)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene
KB-i13	5/16/01	0-2	293160	<0.120	<0.300	<0.300	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.012	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
KB-i14	5/18/01	0-2	293308	<0.120	<0.300	<0.300	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.012	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061
KB-i15	5/16/01	0-2	293163	<0.110	<0.260	<0.260	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
KB-i16	5/16/01	1.5-2	293168	<0.110	<0.280	<0.280	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
KB-i17	5/18/01	0-2	293303	<0.110	<0.280	<0.280	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
KB-i17 Dup	5/18/01	0-2	293304	<0.110	<0.280	<0.280	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
KB-i18	5/18/01	0-2	293305	<0.110	<0.270	<0.270	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
KB-i18 Dup	5/18/01	0-2	293306	<0.110	<0.270	<0.270	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
KB-i19	5/18/01	0-2	293307	<0.120	<0.290	<0.290	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059
Tier II Residential Cleanup Goals Surface Soil[1]				1,000	NA	NA	22.07	NA	NA	10.3[2]	NA	NA	1,000[2]	1,000[2]	1,000[2]	1,000[2]	NA	1,000[2]
Tier II Non-Residential Cleanup Goals Surface Soil[1]				1,000	NA	NA	16.63	NA	NA	101[2]	NA	NA	1,000[2]	1,000[2]	1,000[2]	1,000[2]	NA	1,000[2]

Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds

Samples analyzed using EPA SW-846 Method 8260

mg/kg = milligrams per kilogram

NA = Not Applicable

*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996

[2] Calculated using surrogate toxicity values and Tier II equations

[3] Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 4a
Surface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane (Methyl Chloride)	2-Chlortoluene	4-Chlorotoluene	2-Chloroethyl vinyl ether	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	Dibromomethane (Methylene Bromide)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	trans-1,4-Dichloro-2-butene
KB-i13	5/16/01	0-2	293160	<0.0060	<0.012	<0.024	<0.012	<0.0060	<0.0060	<0.060	<0.012	<0.0060	<0.012	<0.0060	<0.0060	<0.0060	<0.012	<0.060
KB-i14	5/18/01	0-2	293308	<0.0061	<0.012	<0.024	<0.012	<0.0061	<0.0061	<0.061	<0.012	<0.0061	<0.012	<0.0061	<0.0061	<0.0061	<0.012	<0.061
KB-i15	5/16/01	0-2	293163	<0.0053	<0.011	<0.021	<0.011	<0.0053	<0.0053	<0.053	<0.011	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.053
KB-i16	5/16/01	1.5-2	293168	<0.0056	<0.011	<0.022	<0.011	<0.0056	<0.0056	<0.056	<0.011	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.056
KB-i17	5/18/01	0-2	293303	<0.0056	<0.011	<0.022	<0.011	<0.0056	<0.0056	<0.056	<0.011	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.056
KB-i17 Dup	5/18/01	0-2	293304	<0.0056	<0.011	<0.022	<0.011	<0.0056	<0.0056	<0.056	<0.011	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.056
KB-i18	5/18/01	0-2	293305	<0.0053	<0.011	<0.021	<0.011	<0.0053	<0.0053	<0.053	<0.011	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.053
KB-i18 Dup	5/18/01	0-2	293306	<0.0054	<0.010	<0.021	<0.010	<0.0054	<0.0054	<0.054	<0.011	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.054
KB-i19	5/18/01	0-2	293307	<0.0059	<0.012	<0.024	<0.012	<0.0059	<0.0059	<0.059	<0.012	<0.0059	<0.012	<0.0059	<0.0059	<0.0059	<0.012	<0.059
Tier II Residential Cleanup Goals Surface Soil[1]				NA	NA	104.92	NA	NA	NA	NA	NA	NA	NA	10,000	NA	26.67	NA	NA
Tier II Non-Residential Cleanup Goals Surface Soil[1]				NA	1,000	5.28	NA	NA	NA	NA	NA	NA	NA	10,000	NA	2,416.67	NA	NA

Detected compound is below the VRP Tier II Residential Cleanup Goal
VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
mg/kg = milligrams per kilogram
NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.
[3] Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 4a
Surface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethylene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Ethyl methacrylate	2-Hexanone	Hexachlorobutadiene
KB-i13	5/16/01	0-2	293160	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.012	<0.060	<0.0060
KB-i14	5/18/01	0-2	293308	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.012	<0.061	<0.0061
KB-i15	5/16/01	0-2	293163	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.053	<0.0053
KB-i16	5/16/01	1.5-2	293168	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.056	<0.0056
KB-i17	5/18/01	0-2	293303	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.056	<0.0056
KB-i17 Dup	5/18/01	0-2	293304	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.056	<0.0056
KB-i18	5/18/01	0-2	293305	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.053	<0.0053
KB-i18 Dup	5/18/01	0-2	293306	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054
KB-i19	5/18/01	0-2	293307	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.059	<0.0059
Tier II Residential Cleanup Goals Surface Soil[1]				1,000	7.03	1.07	1,000	1,000[2]	NA	NA	NA	1,000[2]	NA	NA	1,000	NA	NA	8.21
Tier II Non-Residential Cleanup Goals Surface Soil[1]				973.47	5.27	0.15	1,000	1,000[2]	NA	NA	NA	1,000[2]	NA	NA	1,000	NA	NA	1.78

Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds

Samples analyzed using EPA SW-846 Method 8260

mg/kg = milligrams per kilogram

NA = Not Applicable

*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996

[2] Calculated using surrogate toxicity values and Tier II equations.

[3] Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 4a
Surface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Iodomethane	Isopropylbenzene	p-Isopropyltoluene	Methylene chloride	Methyl Ethyl Ketone	Methyl(tert) butyl ether (MTBE)	4-Methyl-2-pentanone (MIBK)	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethylene	Toluene	1,2,3-Trichlorobenzene
KB-i13	5/16/01	0-2	293160	<0.012	<0.0060	<0.0060	<0.030	<0.060	<0.012	<0.060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
KB-i14	5/18/01	0-2	293308	<0.012	<0.0061	<0.0061	0.037	<0.061	<0.012	<0.061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061
KB-i15	5/16/01	0-2	293163	<0.011	<0.0053	<0.0053	<0.026	<0.053	<0.011	<0.053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
KB-i16	5/16/01	1.5-2	293168	<0.011	<0.0056	<0.0056	<0.028	<0.056	<0.011	<0.056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
KB-i17	5/18/01	0-2	293303	<0.011	<0.0056	<0.0056	0.036	<0.056	<0.011	<0.056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	0.016	<0.0056	<0.0056
KB-i17 Dup	5/18/01	0-2	293304	<0.011	<0.0056	<0.0056	0.034	<0.056	<0.011	<0.056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	0.02	<0.0056	<0.0056
KB-i18	5/18/01	0-2	293305	<0.011	<0.0053	<0.0053	0.034	<0.053	<0.011	<0.053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
KB-i18 Dup	5/18/01	0-2	293306	<0.011	<0.0054	<0.0054	0.027	<0.054	<0.011	<0.054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
KB-i19	5/18/01	0-2	293307	<0.012	<0.0059	<0.0059	<0.029	<0.059	<0.012	<0.059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059
Tier II Residential Cleanup Goals Surface Soil[1]				NA	1,000[2]	1,000[2]	85.3[2]	1,000	0.35	1,000	10,000	1,000[2]	NA	24.62	3.20	12.56	1,000	NA
Tier II Non-Residential Cleanup Goals Surface Soil[1]				NA	647[2]	1,000[2]	816[2]	1,000	5.6	1,000	10,000	1,000[2]	410,000[3]	75.91	75.41	101.23	1,000	NA

Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds

Samples analyzed using EPA SW-846 Method 8260

mg/kg = milligrams per kilogram

NA = Not Applicable

*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996

[2] Calculated using surrogate toxicity values and Tier II equations.

[3] Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 4a
Surface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethylene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	Vinyl chloride	Xylenes, Total
KB-i13	5/16/01	0-2	293160	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.012	<0.012	<0.0060
KB-i14	5/18/01	0-2	293308	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.012	<0.012	<0.0061
KB-i15	5/16/01	0-2	293163	<0.0053	<0.0053	<0.0053	0.023	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.011	<0.0053
KB-i16	5/16/01	1.5-2	293168	<0.0056	<0.0056	<0.0056	0.11	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.011	<0.0056
KB-i17	5/18/01	0-2	293303	<0.0056	<0.0056	<0.0056	0.7	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.011	<0.0056
KB-i17 Dup	5/18/01	0-2	293304	<0.0056	<0.0056	<0.0056	0.49	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.011	<0.0056
KB-i18	5/18/01	0-2	293305	<0.0053	<0.0053	<0.0053	0.1	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.011	<0.0053
KB-i18 Dup	5/18/01	0-2	293306	<0.0054	<0.0054	<0.0054	0.13	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.011	<0.0054
KB-i19	5/18/01	0-2	293307	<0.0059	<0.0059	<0.0059	0.034	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.012	<0.0059
Tier II Residential Cleanup Goals Surface Soil[1]				2,700	1,000	11.23	58.18	1,000[2]	NA	1,000[2]	1,000[2]	NA	0.034	1,000
Tier II Non-Residential Cleanup Goals Surface Soil[1]				10,000	1,000	22.74	24.97	1,000[2]	NA	1,000[2]	435[2]	NA	0.02	1,000

Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds

Samples analyzed using EPA SW-846 Method 8260

mg/kg = milligrams per kilogram

NA = Not Applicable

*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996

[2] Calculated using surrogate toxicity values and Tier II equations.

[3] Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 4b
Surface Soil Analytical Results for PAHs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
KB-28	5/15/01	0-2	293129	<0.35	<0.35	<0.35	1.7	1.8	3.4	<0.35	1	1.9	<0.35	3.2	<0.35	0.89	<0.35	1.3	3.1
KB-29	5/15/01	0-2	293131	<0.39	<0.39	0.62	1.3	1.1	1.8	<0.39	0.65	1.4	<0.39	2.8	<0.39	0.59	<0.39	2.1	2.6
KB-29 Dup.	5/15/01	0-2	293132	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
KB-30	5/15/01	0-2	293135	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
KB-31	5/15/01	0-2	293137	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
KB-32	5/15/01	0-2	293139	<0.39	<0.39	<0.39	1.5	1.6	2.8	<0.39	0.88	1.6	<0.39	2.7	<0.39	0.72	<0.39	1.1	2.4
KB-33	5/15/01	0-2	293144	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
KB-34	5/16/01	0-2	293147	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
KB-35	5/16/01	0-2	293149	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
KB-36	5/16/01	0-2	293152	<0.38	<0.38	<0.38	<0.38	0.61	0.8	0.41	0.49	0.43	<0.38	0.43	<0.38	<0.38	<0.38	<0.38	0.57
KB-37	5/16/01	0-2	293155	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
KB-38	5/16/01	0-2	293157	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
KB-i13	5/16/01	0-2	293160	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
KB-i14	5/18/01	0-2	293308	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
KB-i15	5/16/01	0-2	293163	<0.35	0.41	<0.35	0.41	0.94	1.9	<0.35	0.87	0.6	<0.35	0.49	<0.35	0.6	<0.35	<0.35	0.59
KB-i16	5/16/01	1.5-2	293168	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
KB-i17	5/18/01	0-2	293303	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
KB-i17 Dup.	5/18/01	0-2	293304	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
KB-i18	5/18/01	0-2	293305	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
KB-i18 Dup.	5/18/01	0-2	293306	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
KB-i19	5/18/01	0-2	293307	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
Tier II Residential Cleanup Goals Surface Soil[1]				10,000	5,400[2]	10,000	0.88	0.66	0.88	1,620[2]	8.77	87.67	0.66	2,160	10,000	0.88	10,000	260[3]	8,100
Tier II Non-Residential Cleanup Goals Surface Soil[1]				10,000	4,570[2]	10,000	79.45	7.94	79.45	10,000[2]	794.52	7,945.21	7.95	10,000	10,000	79.45	10,000	260[3]	10,000

Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compounds is below the VRP Tier II Residential Cleanup Goal
PAHs = Polynuclear Aromatic Hydrocarbons
Samples analyzed using EPA SW-846 Method 8310
mg/kg = micrograms per kilogram NA = Not Applicable
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1995
[2] Calculated using surrogate toxicity values and Tier II equations.
[3] Tier I Health Protective Levels for Phenanthrene, Iodomethane and Acrolein Technical Memo by Indiana Voluntary Remediation Program, Dated 4/21/98

Table 4c
Surface Soil Analytical Results for Metals (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium	Total Chromium	Total Copper	Total Lead	Total Mercury	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Zinc
GP-1	12/19/96	0-2	W6120376-01	<20	<40	NA	<0.50	<2.0	5.5	9	21	<0.25	7.7	<20	<2.0	<20	39
GP-2	12/19/96	0-2	W6120376-03	<20	<40	NA	<0.50	4.1	1,600	510	940	<0.25	28	<20	<2.0	<20	880
GP-3	12/19/96	0-2	W6120376-05	<20	<40	NA	0.61	<2.0	16	21	9	<0.25	21	<20	<2.0	<20	60
GP-4	12/19/96	0-2	W6120376-07	<20	<40	NA	<0.50	<2.0	10	12	10	<0.25	12	<20	<2.0	<20	42
GP-5	12/19/96	0-2	W6120376-09	<20	<40	NA	<0.50	<2.0	9.7	7.4	13	<0.25	8.5	<20	<2.0	<20	36
GP-6	12/19/96	0-2	W6120376-11	<20	<40	NA	<0.50	<2.0	17	14	8.6	<0.25	17	<20	<2.0	<20	37
KB-28	5/15/01	0-2	293129	NA	NA	NA	NA	<0.54	8.3	NA	29	NA	NA	NA	NA	NA	NA
KB-29	5/15/01	0-2	293131	NA	NA	NA	NA	<0.59	13	NA	8.6	NA	NA	NA	NA	NA	NA
KB-29 Dup.	5/15/01	0-2	293132	NA	NA	NA	NA	<0.60	17	NA	<4.8	NA	NA	NA	NA	NA	NA
KB-30	5/15/01	0-2	293135	NA	NA	NA	NA	0.97	11	NA	100	NA	NA	NA	NA	NA	NA
KB-31	5/15/01	0-2	293137	NA	NA	NA	NA	<0.60	13	NA	<4.8	NA	NA	NA	NA	NA	NA
KB-32	5/15/01	0-2	293139	NA	NA	NA	NA	<0.59	15	NA	38	NA	NA	NA	NA	NA	NA
KB-33	5/15/01	0-2	293144	NA	NA	NA	NA	<0.56	16	NA	70	NA	NA	NA	NA	NA	NA
KB-34	5/16/01	0-2	293147	NA	NA	NA	NA	<0.57	11	NA	18	NA	NA	NA	NA	NA	NA
KB-35	5/16/01	0-2	293149	NA	NA	NA	NA	<0.55	18	NA	150	NA	NA	NA	NA	NA	NA
KB-36	5/16/01	0-2	293152	NA	NA	NA	NA	1.7	27	NA	940	NA	NA	NA	NA	NA	NA
KB-37	5/16/01	0-2	293155	NA	NA	NA	NA	<0.57	15	NA	<4.5	NA	NA	NA	NA	NA	NA
KB-38	5/16/01	0-2	293157	NA	NA	NA	NA	<0.57	13	NA	13	NA	NA	NA	NA	NA	NA
KB-i13	5/16/01	0-2	293160	NA	NA	NA	NA	<0.60	14	NA	<4.8	NA	NA	NA	NA	NA	NA
KB-i14	5/18/01	0-2	293308	NA	NA	NA	NA	<0.61	17	NA	<4.9	NA	NA	NA	NA	NA	NA
KB-i15	5/16/01	0-2	293163	NA	NA	NA	NA	<0.53	11	NA	<4.2	NA	NA	NA	NA	NA	NA
KB-i16	5/16/01	1.5-2	293168	NA	NA	NA	NA	<0.56	9.8	NA	<4.4	NA	NA	NA	NA	NA	NA
KB-i17	5/18/01	0-2	293303	NA	NA	NA	NA	<0.56	9.8	NA	<4.4	NA	NA	NA	NA	NA	NA
KB-i17 Dup.	5/18/01	0-2	293304	NA	NA	NA	NA	<0.56	8.8	NA	<4.4	NA	NA	NA	NA	NA	NA
KB-i18	5/18/01	0-2	293305	NA	NA	NA	NA	<0.53	11	NA	<4.3	NA	NA	NA	NA	NA	NA
KB-i18 Dup.	5/18/01	0-2	293306	NA	NA	NA	NA	<0.54	10	NA	<4.3	NA	NA	NA	NA	NA	NA
KB-i19	5/18/01	0-2	293307	NA	NA	NA	NA	<0.60	16	NA	<4.8	NA	NA	NA	NA	NA	NA
Tier II Residential Cleanup Goals Surface Soil[1]				NA	81	10,000	0.5	135	1,350	9,990[3]	400[4]	16.2	5,400	1,350	1,350	NA	NA
Tier II Non-Residential Cleanup Goals Surface Soil[1]				NA	612	10,000	13.49	1,020	10,000	378,000[3]	1,000[4]	122.4	10,000	10,000	10,000	NA	NA
Common Background Ranges[2]				NA	1.0 - 40	100 - 3,500	NA	0.01 - 70	5.0 - 3,000	NA	2 - 200	0.01 - 4.15	NA	0.1 - 2.0	0.1 - 50	NA	NA

Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal
Samples analyzed using EPA Method Series 6000/7000
mg/kg = milligrams per kilogram NA = Not Applicable

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F
Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996

[2] Source: James Dragun. The Soil Chemistry of Hazardous Materials Table 3.1 Native Soil Concentration of Various Elements p.229, 1998

[3] Calculated using surrogate toxicity values and Tier II equations.

[4] IDEM VRP Interoffice Memo dated on January 26, 1998

Table 3a

Subsurface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allication Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane (Methyl Bromide)	n Butylbenzene
GP-1	12/19/96	5-7	W6120376-02	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
GP-2	12/19/96	5-7	W6120376-04	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
GP-3	12/19/96	5-7	W6120376-06	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
GP-4	12/19/96	5-7	W6120376-08	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
GP-5	12/19/96	5-7	W6120376-10	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
GP-6	12/19/96	5-7	W6120376-12	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
HP-1	9/6/95	3-5	W5090064-04	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
KB-17	5/2/00	10-12	265075	<0.100	<0.25	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
KB-20	7/12/00	14-16	270505	<0.100	<0.25	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
KB-24	7/17/00	18-20	271016	<0.100	<0.25	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
KB-33	5/15/01	4-6	293128	<54	<130	<130	<2.6	<2.6	<2.6	<2.6	<2.6	<5.4	140
KB-i1	5/1/01	2-4	291956	<0.120	<0.290	<0.290	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.0059
KB-i1	5/1/01	4-6	291957	<0.120	<0.290	<0.290	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.0059
KB-i2	5/1/01	5-6	291958	0.12	<0.290	<0.290	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.012	<0.0058
KB-i3	5/1/01	4-6	291959	<0.120	<0.290	<0.290	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.0059
KB-i4	5/1/01	4-6	291960	<0.120	<0.310	<0.310	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.012	<0.0062
KB-i4	5/1/01	13.5-14	291961	<0.110	<0.270	<0.270	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054
KB-i5	5/1/01	4-6	291962	<0.120	<0.300	<0.300	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.012	<0.0061
KB-i6	5/1/01	3-4	291963	<0.120	<0.310	<0.310	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.012	0.0067
KB-i6	5/1/01	4-6	291964	<0.120	<0.300	<0.300	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.012	<0.0061
KB-i7	5/1/01	2-4	291965	<0.120	<0.300	<0.300	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.012	<0.0060
KB-i8	5/1/01	2-4	291966	<0.120	<0.300	<0.300	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.012	<0.0060
KB-i9	5/1/01	2-4	291967	0.27	<0.300	<0.300	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.012	<0.0060
KB-i12	5/1/01	2-4	291968	<0.120	<0.300	<0.300	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.012	<0.0060
KB-i13	5/16/01	2-4	293161	<0.110	<0.290	<0.290	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.0057
KB-i14	5/18/01	2-4	293309	<0.130	<0.320	<0.320	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.013	<0.0065
KB-i15	5/16/01	10-12	293165	<0.110	<0.280	<0.280	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.0057
KB-i15 Dup	5/16/01	10-12	293166	<0.110	<0.280	<0.280	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056
KB-i16	5/16/01	8-10	293170	<0.110	<0.270	<0.270	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054
KB-i17	5/18/01	8-10	293312	<0.480	<1.20	<1.20	<0.024	<0.024	<0.024	<0.024	<0.024	<0.049	<0.024
KB-i17 Dup	5/18/01	8-10	293313	<0.510	<1.30	<1.30	<0.026	<0.026	<0.026	<0.026	<0.026	<0.051	<0.026
KB-i18	5/18/01	8-10	293317	<0.100	<0.260	<0.260	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.010	<0.0052
KB-i19	5/18/01	8-10	293318	<0.110	<0.260	<0.260	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.0053
MW-152	6/27/95	8-10	W5060414-04	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
MW-152	6/28/95	18-20	W5060414-01	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
MW-154	6/29/95	8-10	W5060414-02	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
MW-154	6/29/95	18-20	W5060414-03	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
MW-155	9/5/95	13-15	W5090064-01	<0.100	NA	NA	<0.025	NA	NA	<0.025	<0.025	<0.050	NA
MW-155	9/5/95	28-30	W5090064-02	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
MW-156	9/5/95	18-20	W5090064-03	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
MW-157	1/23/97	3-5	W7010365-01	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
MW-158	1/23/97	8-10	W7010365-02	0.074	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
MW-200	7/10/95	13-15	W5070142-01	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
MW-200	7/14/95	48-50	W5070171-01	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
MW-201	7/11/95	18-20	W5070142-02	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
MW-201	7/11/95	38-40	W5070142-04	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
MW-202	7/11/95	13-15	W5070142-03	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
MW-202	7/11/95	33-35	W5070142-05	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
MW-302	1/31/97	48-50	W7010425-02	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
MW-302	1/31/97	63-65	W7010425-03	<0.020	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.010	NA
SB10-1	3/1994	2-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB10-2	3/1994	6-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB10-3	3/1994	4-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB10-4	3/1994	6-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB10-5	3/1994	14-16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-132	9/1992	8-10	NA	<6.3	NA	NA	<3.1	NA	NA	NA	NA	NA	NA
SB-133	9/1992	3-5	NA	<1.3	NA	NA	<0.63	NA	NA	NA	NA	NA	NA
SB-134	9/1992	8-10	NA	<0.01	NA	NA	<0.005	NA	NA	NA	NA	NA	NA
SB-135	9/1992	8-10	NA	<0.01	NA	NA	<0.005	NA	NA	NA	NA	NA	NA
SB-135 Dup	9/1992	8-10	NA	<0.01	NA	NA	<0.005	NA	NA	NA	NA	NA	NA
SB-145	6/2/93	13-15	69803	<2	<5	<5	<0.1	NA	NA	<0.1	<0.1	<0.5	NA
SB-145 Dup	6/2/93	13-15	69804	<2	<5	<5	<0.1	NA	NA	<0.1	<0.1	<0.5	NA
SB-145	6/2/93	23-30	69805	<0.02	<0.01	<0.01	<0.005	NA	NA	<0.005	<0.005	<0.01	NA
SB-146	6/2/93	13-15	69806	<0.02	<0.01	<0.01	<0.005	NA	NA	<0.005	<0.005	<0.01	NA
SB-146	6/2/93	23-25	69807	<0.02	<0.01	<0.01	<0.005	NA	NA	<0.005	<0.005	<0.01	NA
SB-147	6/3/93	8-10	69873	<2	<5	<5	<0.1	NA	NA	<0.1	<0.1	<0.5	NA
SB-147	6/3/93	28-30	69874	<0.02	<0.01	<0.01	<0.005	NA	NA	<0.005	<0.005	<0.01	NA
SB-148	6/3/93	8-10	69875	<2	<5	<5	<0.1	NA	NA	<0.1	<0.1	<0.5	NA
SB-148	6/3/93	23-25	69876	<0.02	<0.01	<0.01	<0.005	NA	NA	<0.005	<0.005	<0.01	NA
SB-149	6/4/93	8-10	69945	<2	<5	<5	<0.1	NA	NA	<0.1	<0.1	<0.5	NA
SB-150	6/4/93	3-5	69946	<2	<5	<5	<0.1	NA	NA	<0.1	<0.1	<0.5	NA
SB-150	6/4/93	8-10	69947	<2	<5	<5	<0.1	NA	NA	<0.1	<0.1	<0.5	NA
Tier II Residential Cleanup Goals Subsurface Soil[1]				22.793	NA	NA	0.059	NA	NA	0.000389[2]	NA	NA	33.5[2]
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]				136.29	NA	NA	4.77	NA	NA	0.692[2]	NA	NA	972[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds mg/kg = milligrams per kilogram
Samples analyzed using EPA SW-846 Method 8260 NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.
[3] Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Tab...a

Subsurface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allication Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane (Methyl Chloride)	2-Chlorotoluene	4-Chlorotoluene	2-Chloroethyl vinyl ether	1,2-Dibromo-3-Chloropropane
GP-1	12/19/96	5-7	W6120376-02	NA	NA	0.0072	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
GP-2	12/19/96	5-7	W6120376-04	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
GP-3	12/19/96	5-7	W6120376-06	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
GP-4	12/19/96	5-7	W6120376-08	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
GP-5	12/19/96	5-7	W6120376-10	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
GP-6	12/19/96	5-7	W6120376-12	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
HP-1	9/6/95	3-5	W5090064-04	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
KB-17	5/2/00	10-12	265075	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.020	<0.010	<0.005	<0.005	<0.050	<0.010
KB-20	7/12/00	14-16	270303	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.010	<0.020	<0.010	<0.005	<0.005	<0.050	<0.010
KB-24	7/17/00	18-20	271016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.020	<0.010	<0.005	<0.005	<0.050	<0.010
KB-33	5/15/01	4-6	293128	50	<2.6	<2.6	<2.6	<2.6	<2.6	<5.4	<11	<5.4	<2.6	<2.6	<26	<5.4
KB-i1	5/1/01	2-4	291956	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.024	<0.012	<0.0059	<0.0059	<0.059	<0.012
KB-i1	5/1/01	4-6	291957	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.024	<0.012	<0.0059	<0.0059	<0.059	<0.012
KB-i2	5/1/01	5-6	291958	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.012	<0.023	<0.012	<0.0058	<0.0058	<0.058	<0.012
KB-i3	5/1/01	4-6	291959	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.024	<0.012	<0.0059	<0.0059	<0.059	<0.012
KB-i4	5/1/01	4-6	291960	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.012	<0.025	<0.012	<0.0062	<0.0062	<0.062	<0.012
KB-i4	5/1/01	13.5-14	291961	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054	<0.0054	<0.054	<0.011
KB-i5	5/1/01	4-6	291962	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.012	<0.024	<0.012	<0.0061	<0.0061	<0.061	<0.012
KB-i6	5/1/01	3-4	291963	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.012	<0.025	<0.012	<0.0062	<0.0062	<0.062	<0.012
KB-i6	5/1/01	4-6	291964	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.012	<0.024	<0.012	<0.0061	<0.0061	<0.061	<0.012
KB-i7	5/1/01	2-4	291965	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.012	<0.024	<0.012	<0.0060	<0.0060	<0.060	<0.012
KB-i8	5/1/01	2-4	291966	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.012	<0.024	<0.012	<0.0060	<0.0060	<0.060	<0.012
KB-i9	5/1/01	2-4	291967	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.012	<0.024	<0.012	<0.0060	<0.0060	<0.060	<0.012
KB-i12	5/1/01	2-4	291968	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.012	<0.024	<0.012	<0.0060	<0.0060	<0.060	<0.012
KB-i13	5/16/01	2-4	293161	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.023	<0.011	<0.0057	<0.0057	<0.057	<0.011
KB-i14	5/18/01	2-4	293309	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.013	<0.026	<0.013	<0.0065	<0.0065	<0.065	<0.013
KB-i15	5/16/01	10-12	293165	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.023	<0.011	<0.0057	<0.0057	<0.057	<0.011
KB-i15 Dup	5/16/01	10-12	293166	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.022	<0.011	<0.0056	<0.0056	<0.056	<0.011
KB-i16	5/16/01	8-10	293170	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054	<0.0054	<0.054	<0.011
KB-i17	5/18/01	8-10	293312	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.049	<0.097	<0.049	<0.024	<0.024	<0.240	<0.049
KB-i17 Dup	5/18/01	8-10	293313	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.051	<0.100	<0.051	<0.026	<0.026	<0.260	<0.051
KB-i18	5/18/01	8-10	293317	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.010	<0.021	<0.010	<0.0052	<0.0052	<0.052	<0.010
KB-i19	5/18/01	8-10	293318	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.021	<0.011	<0.0053	<0.0053	<0.053	<0.011
MW-152	6/27/95	8-10	W5060414-04	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
MW-152	6/28/95	18-20	W5060414-01	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
MW-154	6/29/95	8-10	W5060414-02	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
MW-154	6/29/95	18-20	W5060414-03	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
MW-155	9/5/95	13-15	W5090064-01	NA	NA	<0.025	<0.025	<0.025	NA	<0.050	<0.025	<0.050	NA	NA	<0.050	NA
MW-155	9/5/95	28-30	W5090064-02	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
MW-156	9/5/95	18-20	W5090064-03	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
MW-157	1/23/97	3-5	W7010365-01	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
MW-158	1/23/97	8-10	W7010365-02	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
MW-200	7/10/95	13-15	W5070142-01	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
MW-200	7/14/95	48-50	W5070171-01	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
MW-201	7/11/95	18-20	W5070142-02	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
MW-201	7/11/95	38-40	W5070142-04	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
MW-202	7/11/95	13-15	W5070142-03	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
MW-202	7/11/95	33-35	W5070142-05	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
MW-302	1/31/97	48-50	W7010425-02	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
MW-302	1/31/97	63-65	W7010425-03	NA	NA	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.010	NA	NA	<0.010	NA
SB10-1	3/1994	2-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB10-2	3/1994	6-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB10-3	3/1994	4-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB10-4	3/1994	6-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB10-5	3/1994	14-16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-132	9/1992	8-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-133	9/1992	3-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-134	9/1992	8-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-135	9/1992	8-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-135 Dup	9/1992	8-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-145	6/2/93	13-15	69803	NA	NA	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<1.0	NA	NA	<0.5	<1.0
SB-145 Dup	6/2/93	13-15	69804	NA	NA	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<1.0	NA	NA	<0.5	<1.0
SB-145	6/2/93	23-30	69805	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	NA	NA	<0.01	<0.01
SB-146	6/2/93	13-15	69806	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	NA	NA	<0.01	<0.01
SD-146	6/2/93	23-25	69807	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	NA	NA	<0.01	<0.01
SB-147	6/3/93	8-10	69873	NA	NA	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<1.0	NA	NA	<0.5	<1.0
SB-147	6/3/93	28-30	69874	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	NA	NA	<0.01	<0.01
SB-148	6/3/93	8-10	69875	NA	NA	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<1.0	NA	NA	<0.5	<1.0
SB-148	6/3/93	23-25	69876	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	NA	NA	<0.01	<0.01
SB-149	6/4/93	8-10	69945	NA	NA	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<1.0	NA	NA	<0.5	<1.0
SB-150	6/4/93	3-5	69946	NA	NA	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<1.0	NA	NA	<0.5	<1.0
SB-150	6/4/93	8-10	69947	NA	NA	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<1.0	NA	NA	<0.5	<1.0
Tier II Residential Cleanup Goals Subsurface Soil[1]				30.1[2]	22.0[2]	182[2]	NA	11.1[2]	NA	1,000	2.082	NA	NA	NA	NA	NA
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]				725[2]	868[2]	1,300[2]	NA	803[2]	NA	1,000	20.33	NA	NA	NA	NA	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds mg/kg = milligrams per kilogram
Samples analyzed using EPA SW-846 Method 8260 NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.
[3] Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 3a
Subsurface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allication Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	1,2-Dibromoethane	Dibromomethane (Methylene Bromide)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	trans-1,4-Dichloro-2-butene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethylene
GP-1	12/19/96	5-7	W6120376-02	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
GP-2	12/19/96	5-7	W6120376-04	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
GP-3	12/19/96	5-7	W6120376-06	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
GP-4	12/19/96	5-7	W6120376-08	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
GP-5	12/19/96	5-7	W6120376-10	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
GP-6	12/19/96	5-7	W6120376-12	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
HP-1	9/6/95	3-5	W5090064-04	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
KB-17	5/2/00	10-12	265075	<0.005	<0.010	<0.005	<0.005	<0.005	<0.010	<0.050	<0.005	<0.005	<0.005
KB-20	7/12/00	14-16	270505	<0.005	<0.010	<0.005	<0.005	<0.005	<0.010	<0.050	<0.005	<0.005	<0.005
KB-24	7/17/00	18-20	271016	<0.005	<0.010	<0.005	<0.005	<0.005	<0.010	<0.050	<0.005	<0.005	<0.005
KB-33	5/15/01	4-6	293128	<2.6	<5.4	<2.6	<2.6	<2.6	<5.4	<26	<2.6	<2.6	<2.6
KB-i1	5/1/01	2-4	291956	<0.0059	<0.012	<0.0059	<0.0059	<0.0059	<0.012	<0.059	<0.0059	<0.0059	<0.0059
KB-i1	5/1/01	4-6	291957	<0.0059	<0.012	<0.0059	<0.0059	<0.0059	<0.012	<0.059	<0.0059	<0.0059	<0.0059
KB-i2	5/1/01	5-6	291958	<0.0058	<0.012	<0.0058	<0.0058	<0.0058	<0.012	<0.058	<0.0058	<0.0058	<0.0058
KB-i3	5/1/01	4-6	291959	<0.0059	<0.012	<0.0059	<0.0059	<0.0059	<0.012	<0.059	<0.0059	<0.0059	<0.0059
KB-i4	5/1/01	4-6	291960	<0.0062	<0.012	<0.0062	<0.0062	<0.0062	<0.012	<0.062	<0.0062	<0.0062	<0.0062
KB-i4	5/1/01	13.5-14	291961	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.0054	<0.0054
KB-i5	5/1/01	4-6	291962	<0.0061	<0.012	<0.0061	<0.0061	<0.0061	<0.012	<0.061	<0.0061	<0.0061	<0.0061
KB-i6	5/1/01	3-4	291963	<0.0062	<0.012	<0.0062	<0.0062	<0.0062	<0.012	<0.062	<0.0062	<0.0062	<0.0062
KB-i6	5/1/01	4-6	291964	<0.0061	<0.012	<0.0061	<0.0061	<0.0061	<0.012	<0.061	<0.0061	<0.0061	<0.0061
KB-i7	5/1/01	2-4	291965	<0.0060	<0.012	<0.0060	<0.0060	<0.0060	<0.012	<0.060	<0.0060	<0.0060	<0.0060
KB-i8	5/1/01	2-4	291966	<0.0060	<0.012	<0.0060	<0.0060	<0.0060	<0.012	<0.060	<0.0060	<0.0060	<0.0060
KB-i9	5/1/01	2-4	291967	<0.0060	<0.012	<0.0060	<0.0060	<0.0060	<0.012	<0.060	<0.0060	<0.0060	<0.0060
KB-i12	5/1/01	2-4	291968	<0.0060	<0.012	<0.0060	<0.0060	<0.0060	<0.012	<0.060	<0.0060	<0.0060	<0.0060
KB-i13	5/16/01	2-4	293161	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.057	<0.0057	<0.0057	<0.0057
KB-i14	5/18/01	2-4	293309	<0.0065	<0.013	<0.0065	<0.0065	<0.0065	<0.013	<0.065	<0.0065	<0.0065	<0.0065
KB-i15	5/16/01	10-12	293165	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.057	<0.0057	<0.0057	<0.0057
KB-i15 Dup	5/16/01	10-12	293166	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.056	<0.0056	<0.0056	<0.0056
KB-i16	5/16/01	8-10	293170	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.0054	<0.0054
KB-i17	5/18/01	8-10	293312	<0.024	<0.049	<0.024	<0.024	<0.024	<0.049	<0.240	<0.024	<0.024	<0.024
KB-i17 Dup	5/18/01	8-10	293313	<0.026	<0.051	<0.026	<0.026	<0.026	<0.051	<0.260	<0.026	<0.026	<0.026
KB-i18	5/18/01	8-10	293317	<0.0052	<0.010	<0.0052	<0.0052	<0.0052	<0.010	<0.052	<0.0052	<0.0052	<0.0052
KB-i19	5/18/01	8-10	293318	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.053	<0.0053	<0.0053	<0.0053
MW-152	6/27/95	8-10	W5060414-04	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
MW-152	6/28/95	18-20	W5060414-01	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
MW-154	6/29/95	8-10	W5060414-02	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
MW-154	6/29/95	18-20	W5060414-03	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
MW-155	9/5/95	13-15	W5090064-01	NA	<0.025	<0.050	<0.050	<0.050	NA	NA	<0.025	<0.025	<0.025
MW-155	9/5/95	28-30	W5090064-02	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
MW-156	9/5/95	18-20	W5090064-03	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
MW-157	1/23/97	3-5	W7010365-01	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
MW-158	1/23/97	8-10	W7010365-02	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
MW-200	7/10/95	13-15	W5070142-01	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
MW-200	7/14/95	48-50	W5070171-01	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
MW-201	7/11/95	18-20	W5070142-02	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
MW-201	7/11/95	38-40	W5070142-04	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
MW-202	7/11/95	13-15	W5070142-03	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
MW-202	7/11/95	33-35	W5070142-05	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
MW-302	1/31/97	48-50	W7010425-02	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
MW-302	1/31/97	63-65	W7010425-03	NA	<0.005	<0.010	<0.010	<0.010	NA	NA	<0.005	<0.005	<0.005
SB10-1	3/1994	2-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB10-2	3/1994	6-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB10-3	3/1994	4-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB10-4	3/1994	6-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB10-5	3/1994	14-16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-132	9/1992	8-10	NA	NA	NA	NA	NA	NA	NA	NA	<3.1	<3.1	NA
SB-133	9/1992	3-5	NA	NA	NA	NA	NA	NA	NA	NA	<0.63	<0.63	NA
SB-134	9/1992	8-10	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005	NA
SB-135	9/1992	8-10	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005	NA
SB-135 Dup	9/1992	8-10	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005	NA
SB-145	6/2/93	13-15	69803	<0.1	<1.0	<0.1	<0.1	<0.1	<1	NA	<0.1	<0.1	<0.1
SB-145 Dup	6/2/93	13-15	69804	<0.1	<1.0	<0.1	<0.1	<0.1	<1	NA	<0.1	<0.1	<0.1
SB-145	6/2/93	23-30	69805	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	NA	<0.005	<0.005	<0.005
SB-146	6/2/93	13-15	69806	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	NA	<0.005	<0.005	<0.005
SB-146	6/2/93	23-25	69807	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	NA	<0.005	<0.005	<0.005
SB-147	6/3/93	8-10	69873	<0.1	<1.0	<0.1	<0.1	<0.1	<1	NA	<0.1	<0.1	<0.1
SB-147	6/3/93	28-30	69874	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	NA	<0.005	<0.005	<0.005
SB-148	6/3/93	8-10	69875	<0.1	<1.0	<0.1	<0.1	<0.1	<1	NA	<0.1	<0.1	<0.1
SB-148	6/3/93	23-25	69876	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	NA	<0.005	<0.005	<0.005
SB-149	6/4/93	8-10	69945	<0.1	<1.0	<0.1	<0.1	<0.1	<1	NA	<0.1	<0.1	<0.1
SB-150	6/4/93	3-5	69946	<0.1	<1.0	<0.1	<0.1	<0.1	<1	NA	<0.1	<0.1	<0.1
SB-150	6/4/93	8-10	69947	<0.1	<1.0	<0.1	<0.1	<0.1	<1	NA	<0.1	<0.1	<0.1
Tier II Residential Cleanup Goals Subsurface Soil[1]				NA	NA	2,524.23	NA	0.897	NA	NA	40.074	0.025	0.084
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]				NA	NA	10,000	NA	34.67	NA	NA	1,000	0.37	0.080

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds mg/kg = milligrams per kilogram
Samples analyzed using EPA SW-846 Method 8260 NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.
[3] Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Tab... .a

Subsurface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allication Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
GP-1	12/19/96	5-7	W6120376-02	2.7	0.025	<0.005	NA	NA	NA	<0.005	<0.005
GP-2	12/19/96	5-7	W6120376-04	0.13	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
GP-3	12/19/96	5-7	W6120376-06	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
GP-4	12/19/96	5-7	W6120376-08	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
GP-5	12/19/96	5-7	W6120376-10	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
GP-6	12/19/96	5-7	W6120376-12	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
HP-1	9/6/95	3-5	W5090064-04	0.04	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
KB-17	5/2/00	10-12	265075	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
KB-20	7/12/00	14-16	270505	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
KB-24	7/17/00	18-20	271016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
KB-33	5/15/01	4-6	293128	1,000	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6
KB-i1	5/1/01	2-4	291956	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059
KB-i1	5/1/01	4-6	291957	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059
KB-i2	5/1/01	5-6	291958	0.051	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058
KB-i3	5/1/01	4-6	291959	0.16	0.013	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059
KB-i4	5/1/01	4-6	291960	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062
KB-i4	5/1/01	13.5-14	291961	0.0094	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
KB-i5	5/1/01	4-6	291962	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061
KB-i6	5/1/01	3-4	291963	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062
KB-i6	5/1/01	4-6	291964	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061
KB-i7	5/1/01	2-4	291965	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
KB-i8	5/1/01	2-4	291966	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
KB-i9	5/1/01	2-4	291967	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
KB-i12	5/1/01	2-4	291968	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
KB-i13	5/16/01	2-4	293161	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057
KB-i14	5/18/01	2-4	293309	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065
KB-i15	5/16/01	10-12	293165	0.015	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057
KB-i15 Dup	5/16/01	10-12	293166	0.014	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
KB-i16	5/16/01	8-10	293170	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
KB-i17	5/18/01	8-10	293312	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024
KB-i17 Dup	5/18/01	8-10	293313	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026
KB-i18	5/18/01	8-10	293317	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
KB-i19	5/18/01	8-10	293318	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
MW-152	6/27/95	8-10	W5060414-04	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
MW-152	6/28/95	18-20	W5060414-01	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
MW-154	6/29/95	8-10	W5060414-02	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
MW-154	6/29/95	18-20	W5060414-03	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
MW-155	9/5/95	13-15	W5090064-01	3.5	<0.025	<0.025	NA	NA	NA	<0.025	<0.025
MW-155	9/5/95	28-30	W5090064-02	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
MW-156	9/5/95	18-20	W5090064-03	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
MW-157	1/23/97	3-5	W7010365-01	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
MW-158	1/23/97	8-10	W7010365-02	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
MW-200	7/10/95	13-15	W5070142-01	0.033	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
MW-200	7/14/95	48-50	W5070171-01	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
MW-201	7/11/95	18-20	W5070142-02	0.09	0.011	<0.005	NA	NA	NA	<0.005	<0.005
MW-201	7/11/95	38-40	W5070142-04	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
MW-202	7/11/95	13-15	W5070142-03	1.1	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
MW-202	7/11/95	33-35	W5070142-05	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
MW-302	1/31/97	48-50	W7010425-02	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
MW-302	1/31/97	63-65	W7010425-03	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
SB10-1	3/1994	2-4	NA	0.004*	0.004*	NA	NA	NA	NA	NA	NA
SB10-2	3/1994	6-8	NA	0.49*	0.49*	NA	NA	NA	NA	NA	NA
SB10-3	3/1994	4-6	NA	0.071*	0.071*	NA	NA	NA	NA	NA	NA
SB10-4	3/1994	6-8	NA	<0.120*	<0.120*	NA	NA	NA	NA	NA	NA
SB10-5	3/1994	14-16	NA	<0.120*	<0.120*	NA	NA	NA	NA	NA	NA
SB-132	9/1992	8-10	NA	12	12	NA	NA	NA	NA	NA	NA
SB-133	9/1992	3-5	NA	<0.63	<0.630	NA	NA	NA	NA	NA	NA
SB-134	9/1992	8-10	NA	<0.005	<0.005	NA	NA	NA	NA	NA	NA
SB-135	9/1992	8-10	NA	<0.005	<0.005	NA	NA	NA	NA	NA	NA
SB-135 Dup	9/1992	8-10	NA	<0.005	<0.005	NA	NA	NA	NA	NA	NA
SB-145	6/2/93	13-15	69803	1.2	<0.1	<0.1	NA	NA	NA	<0.1	<0.1
SB-145 Dup	6/2/93	13-15	69804	0.6	<0.600	<0.1	NA	NA	NA	<0.1	<0.1
SB-145	6/2/93	23-30	69805	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
SB-146	6/2/93	13-15	69806	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
SB-146	6/2/93	23-25	69807	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
SB-147	6/3/93	8-10	69873	1.0	<0.1	<0.1	NA	NA	NA	<0.1	<0.1
SB-147	6/3/93	28-30	69874	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
SB-148	6/3/93	8-10	69875	0.9	<0.1	<0.1	NA	NA	NA	<0.1	<0.1
SB-148	6/3/93	23-25	69876	0.015	<0.005	<0.005	NA	NA	NA	<0.005	<0.005
SB-149	6/4/93	8-10	69945	1.4	<0.1	<0.1	NA	NA	NA	<0.1	<0.1
SB-150	6/4/93	3-5	69946	1.8	<0.1	<0.1	NA	NA	NA	<0.1	<0.1
SB-150	6/4/93	8-10	69947	1.8	<0.1	<0.1	NA	NA	NA	<0.1	<0.1
Tier II Residential Cleanup Goals Subsurface Soil[1]				17.14	3.23[2]	NA	NA	NA	0.00764[2]	NA	NA
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]				102.49	193[2]	NA	NA	NA	1.36[2]	NA	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds mg/kg = milligrams per kilogram
Samples analyzed using EPA SW-846 Method 8260 NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.
[3] Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 2a
Subsurface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allication Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Ethylbenzene	Ethyl methacrylate	2-Hexanone	Hexachlorobutadiene	Iodomethane	Isopropylbenzene	p-Isopropyltoluene	Methylene chloride	Methyl Ethyl Ketone	Methyl(tert) butyl ether (MTBE)	4-Methyl-2-pentanone (MIBK)
GP-1	12/19/96	5-7	W6120376-02	<0.005	NA	<0.020	NA	NA	NA	NA	<0.010	<0.020	NA	<0.020
GP-2	12/19/96	5-7	W6120376-04	<0.005	NA	<0.020	NA	NA	NA	NA	0.015	<0.020	NA	<0.020
GP-3	12/19/96	5-7	W6120376-06	<0.005	NA	<0.020	NA	NA	NA	NA	<0.010	<0.020	NA	<0.020
GP-4	12/19/96	5-7	W6120376-08	<0.005	NA	<0.020	NA	NA	NA	NA	<0.010	<0.020	NA	<0.020
GP-5	12/19/96	5-7	W6120376-10	<0.005	NA	<0.020	NA	NA	NA	NA	0.015	<0.020	NA	<0.020
GP-6	12/19/96	5-7	W6120376-12	<0.005	NA	<0.020	NA	NA	NA	NA	<0.010	<0.020	NA	<0.020
HP-1	9/6/95	3-5	W5090064-04	<0.005	NA	<0.020	NA	NA	NA	NA	<0.010	<0.020	NA	<0.020
KB-17	5/2/00	10-12	265075	<0.005	<0.010	<0.050	<0.005	NA	<0.005	<0.005	<0.025	<0.050	NA	<0.050
KB-20	7/12/00	14-16	270505	<0.005	<0.010	<0.050	<0.005	<0.010	<0.005	<0.005	0.066	<0.050	<0.010	<0.050
KB-24	7/17/00	18-20	271016	<0.005	<0.010	<0.050	<0.005	<0.010	<0.005	<0.005	<0.025	<0.100	<0.010	<0.050
KB-33	3/13/01	4-6	293128	12	<5.4	<26	<2.6	<5.4	18	56	<13	<26	<5.4	<26
KB-i1	5/1/01	2-4	291956	<0.0059	<0.012	<0.059	<0.0059	<0.012	<0.0059	<0.0059	<0.029	<0.059	<0.012	<0.059
KB-i1	5/1/01	4-6	291957	<0.0059	<0.012	<0.059	<0.0059	<0.012	<0.0059	<0.0059	<0.029	<0.059	<0.012	<0.059
KB-i2	5/1/01	5-6	291958	<0.0058	<0.012	<0.058	<0.0058	<0.012	<0.0058	<0.0058	<0.029	<0.058	<0.012	<0.058
KB-i3	5/1/01	4-6	291959	<0.0059	<0.012	<0.059	<0.0059	<0.012	<0.0059	<0.0059	<0.029	<0.059	<0.012	<0.059
KB-i4	5/1/01	4-6	291960	<0.0062	<0.012	<0.062	<0.0062	<0.012	<0.0062	<0.0062	<0.031	<0.062	<0.012	<0.062
KB-i4	5/1/01	13.5-14	291961	<0.0054	<0.011	<0.054	<0.0054	<0.011	<0.0054	<0.0054	<0.027	<0.054	<0.011	<0.054
KB-i5	5/1/01	4-6	291962	<0.0061	<0.012	<0.061	<0.0061	<0.012	<0.0061	<0.0061	<0.030	<0.061	<0.012	<0.061
KB-i6	5/1/01	3-4	291963	<0.0062	<0.012	<0.062	<0.0062	<0.012	<0.0062	<0.0062	<0.031	<0.062	<0.012	<0.062
KB-i6	5/1/01	4-6	291964	<0.0061	<0.012	<0.061	<0.0061	<0.012	<0.0061	<0.0061	<0.030	<0.061	<0.012	<0.061
KB-i7	5/1/01	2-4	291965	<0.0060	<0.012	<0.060	<0.0060	<0.012	<0.0060	<0.0060	<0.030	<0.060	<0.012	<0.060
KB-i8	5/1/01	2-4	291966	<0.0060	<0.012	<0.060	<0.0060	<0.012	<0.0060	<0.0060	<0.030	<0.060	<0.012	<0.060
KB-i9	5/1/01	2-4	291967	<0.0060	<0.012	<0.060	<0.0060	<0.012	<0.0060	<0.0060	<0.030	<0.060	<0.012	<0.060
KB-i12	5/1/01	2-4	291968	<0.0060	<0.012	<0.060	<0.0060	<0.012	<0.0060	0.028	<0.030	<0.060	<0.012	<0.060
KB-i13	5/16/01	2-4	293161	<0.0057	<0.011	<0.057	<0.0057	<0.011	<0.0057	<0.0057	<0.029	<0.057	<0.011	<0.057
KB-i14	5/18/01	2-4	293309	<0.0065	<0.013	<0.065	<0.0065	<0.013	<0.0065	<0.0065	0.038	<0.065	<0.013	<0.065
KB-i15	5/16/01	10-12	293165	<0.0057	<0.011	<0.057	<0.0057	<0.011	<0.0057	<0.0057	<0.028	<0.057	<0.011	<0.057
KB-i15 Dup	5/16/01	10-12	293166	<0.0056	<0.011	<0.056	<0.0056	<0.011	<0.0056	<0.0056	<0.028	<0.056	<0.011	<0.056
KB-i16	5/16/01	8-10	293170	<0.0054	<0.011	<0.054	<0.0054	<0.011	<0.0054	<0.0054	<0.027	<0.054	<0.011	<0.054
KB-i17	5/18/01	8-10	293312	<0.024	<0.049	<0.240	<0.024	<0.049	<0.024	<0.024	<0.120	<0.240	<0.049	<0.240
KB-i17 Dup	5/18/01	8-10	293313	<0.026	<0.051	<0.260	<0.026	<0.051	<0.026	<0.026	<0.130	<0.260	<0.051	<0.260
KB-i18	5/18/01	8-10	293317	<0.0052	<0.010	<0.052	<0.0052	<0.010	<0.0052	<0.0052	0.031	<0.052	<0.010	<0.052
KB-i19	5/18/01	8-10	293318	<0.0053	<0.011	<0.053	<0.0053	<0.011	<0.0053	<0.0053	0.031	<0.053	<0.011	<0.053
MW-152	6/27/95	8-10	W5060414-04	<0.005	NA	<0.020	NA	NA	NA	NA	<0.010	<0.02	NA	<0.020
MW-152	6/28/95	18-20	W5060414-01	<0.005	NA	<0.020	NA	NA	NA	NA	<0.010	<0.02	NA	<0.020
MW-154	6/29/95	8-10	W5060414-02	<0.005	NA	<0.020	NA	NA	NA	NA	<0.010	<0.02	NA	<0.020
MW-154	6/29/95	18-20	W5060414-03	<0.005	NA	<0.020	NA	NA	NA	NA	<0.010	<0.02	NA	<0.020
MW-155	9/5/95	13-15	W5090064-01	<0.025	NA	<0.100	NA	NA	NA	NA	<0.050	<0.100	NA	<0.100
MW-155	9/5/95	28-30	W5090064-02	<0.005	NA	<0.020	NA	NA	NA	NA	<0.010	<0.02	NA	<0.020
MW-156	9/5/95	18-20	W5090064-03	<0.005	NA	<0.020	NA	NA	NA	NA	<0.010	<0.02	NA	<0.020
MW-157	1/23/97	3-5	W7010365-01	<0.005	NA	<0.020	NA	NA	NA	NA	0.048	<0.02	NA	<0.020
MW-158	1/23/97	8-10	W7010365-02	<0.005	NA	<0.020	NA	NA	NA	NA	0.033	<0.02	NA	<0.020
MW-200	7/10/95	13-15	W5070142-01	<0.005	NA	<0.020	NA	NA	NA	NA	<0.010	<0.02	NA	<0.020
MW-200	7/14/95	48-50	W5070171-01	<0.005	NA	<0.020	NA	NA	NA	NA	<0.010	<0.02	NA	<0.020
MW-201	7/11/95	18-20	W5070142-02	<0.005	NA	<0.020	NA	NA	NA	NA	<0.010	<0.02	NA	<0.020
MW-201	7/11/95	38-40	W5070142-04	<0.005	NA	<0.020	NA	NA	NA	NA	<0.010	<0.02	NA	<0.020
MW-202	7/11/95	13-15	W5070142-03	<0.005	NA	<0.020	NA	NA	NA	NA	<0.010	<0.02	NA	<0.020
MW-202	7/11/95	33-35	W5070142-05	<0.005	NA	<0.020	NA	NA	NA	NA	<0.010	<0.02	NA	<0.020
MW-302	1/31/97	48-50	W7010425-02	<0.005	NA	<0.020	NA	NA	NA	NA	0.053	<0.02	NA	<0.020
MW-302	1/31/97	63-65	W7010425-03	<0.005	NA	<0.020	NA	NA	NA	NA	0.047	<0.02	NA	<0.020
SB10-1	3/1994	2-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB10-2	3/1994	6-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB10-3	3/1994	4-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB10-4	3/1994	6-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB10-5	3/1994	14-16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-132	9/1992	8-10	NA	<3.1	NA	NA	NA	NA	NA	NA	<3.1	NA	NA	NA
SB-133	9/1992	3-5	NA	<0.63	NA	NA	NA	NA	NA	NA	<0.630	NA	NA	NA
SB-134	9/1992	8-10	NA	<0.005	NA	NA	NA	NA	NA	NA	<0.005	NA	NA	NA
SB-135	9/1992	8-10	NA	<0.005	NA	NA	NA	NA	NA	NA	<0.005	NA	NA	NA
SB-135 Dup	9/1992	8-10	NA	<0.005	NA	NA	NA	NA	NA	NA	<0.005	NA	NA	NA
SB-145	6/2/93	13-15	69803	<0.1	<1.0	<1	NA	<1.0	NA	NA	<1.0	<1	NA	<1
SB-145 Dup	6/2/93	13-15	69804	<0.1	<1.0	<1	NA	<1.0	NA	NA	<1.0	<1	NA	<1
SB-145	6/2/93	23-30	69805	<0.005	<0.01	<0.01	NA	<0.01	NA	NA	0.018	<0.01	NA	<0.01
SB-146	6/2/93	13-15	69806	<0.005	<0.01	<0.01	NA	<0.01	NA	NA	0.012	<0.01	NA	<0.01
SB-146	6/2/93	23-25	69807	<0.005	<0.01	<0.01	NA	<0.01	NA	NA	0.015	<0.01	NA	<0.01
SB-147	6/3/93	8-10	69873	<0.1	<1.0	<1	NA	<1.0	NA	NA	<1.0	<1	NA	<1
SB-147	6/3/93	28-30	69874	<0.005	<0.01	<0.01	NA	<0.01	NA	NA	0.021	<0.01	NA	<0.01
SB-148	6/3/93	8-10	69875	<0.1	<1.0	<1	NA	<1.0	NA	NA	<1.0	<1	NA	<1
SB-148	6/3/93	23-25	69876	<0.005	<0.01	<0.01	NA	<0.01	NA	NA	<0.01	<0.01	NA	<0.01
SB-149	6/4/93	8-10	69945	<0.1	<1.0	<1	NA	<1.0	NA	NA	<1.0	<1	NA	<1
SB-150	6/4/93	3-5	69946	<0.1	<1.0	<1	NA	<1.0	NA	NA	<1.0	<1	NA	<1
SB-150	6/4/93	8-10	69947	<0.1	<1.0	<1	NA	<1.0	NA	NA	<1.0	<1	NA	<1
Tier II Residential Cleanup Goals Subsurface Soil[1]				834.372	NA	NA	6.777	NA	185[2]	441[2]	0.0255[2]	11.62	0.35	68.147
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]				1,000	NA	NA	31.18	NA	185[2]	1,000[2]	10.9[2]	146.24	5.6	407.48

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal
VOCs = Volatile Organic Compounds mg/kg = milligrams per kilogram
Samples analyzed using EPA SW-846 Method 8260 NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.
[3] Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Tab.. ..a

Subsurface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allication Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloro-ethane	1,1,2,2-Tetrachloro-ethane	Tetrachloroethylene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethylene
GP-1	12/19/96	5-7	W6120376-02	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	12
GP-2	12/19/96	5-7	W6120376-04	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005
GP-3	12/19/96	5-7	W6120376-06	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005
GP-4	12/19/96	5-7	W6120376-08	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	0.077
GP-5	12/19/96	5-7	W6120376-10	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	0.18
GP-6	12/19/96	5-7	W6120376-12	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	0.041
HP-1	9/6/95	3-5	W5090064-04	NA	NA	<0.005	NA	<0.005	0.017	<0.005	NA	NA	<0.005	<0.005	<0.005
KB-17	5/2/00	10-12	265075	<0.005	<0.005	<0.005	<0.005	<0.005	2.4	<0.005	<0.005	<0.005	<0.005	<0.005	0.19
KB-20	7/12/00	14-16	270505	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.014	<0.005	<0.005	<0.005	<0.005	<0.005
KB-24	7/17/00	18-20	271016	<0.005	<0.005	<0.005	<0.005	<0.005	16.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
KB-33	5/15/01	4-6	293128	65	46	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	2,500
KB-i1	5/1/01	2-4	291956	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	0.081
KB-i1	5/1/01	4-6	291957	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059
KB-i2	5/1/01	5-6	291958	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	0.0074
KB-i3	5/1/01	4-6	291959	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	0.44
KB-i4	5/1/01	4-6	291960	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062
KB-i4	5/1/01	13.5-14	291961	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.65
KB-i5	5/1/01	4-6	291962	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	0.01
KB-i6	5/1/01	3-4	291963	0.015	<0.0062	<0.0062	<0.0062	<0.0062	0.062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	0.032
KB-i6	5/1/01	4-6	291964	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	0.011	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	0.016
KB-i7	5/1/01	2-4	291965	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
KB-i8	5/1/01	2-4	291966	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
KB-i9	5/1/01	2-4	291967	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
KB-i12	5/1/01	2-4	291968	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
KB-i13	5/16/01	2-4	293161	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057
KB-i14	5/18/01	2-4	293309	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065
KB-i15	5/16/01	10-12	293165	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	4.1
KB-i15 Dup	5/16/01	10-12	293166	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	2.9
KB-i16	5/16/01	8-10	293170	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.58
KB-i17	5/18/01	8-10	293312	<0.024	<0.024	<0.024	<0.024	<0.024	0.036	<0.024	<0.024	<0.024	<0.024	<0.024	2.9
KB-i17 Dup	5/18/01	8-10	293313	<0.026	<0.026	<0.026	<0.026	<0.026	0.045	<0.026	<0.026	<0.026	<0.026	<0.026	3.8
KB-i18	5/18/01	8-10	293317	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	1.8
KB-i19	5/18/01	8-10	293318	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	0.79
MW-152	6/27/95	8-10	W5060414-04	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	0.3
MW-152	6/28/95	18-20	W5060414-01	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005
MW-154	6/29/95	8-10	W5060414-02	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005
MW-154	6/29/95	18-20	W5060414-03	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005
MW-155	9/5/95	13-15	W5090064-01	NA	NA	<0.025	NA	<0.025	<0.025	<0.025	NA	NA	<0.025	<0.025	0.39
MW-155	9/5/95	28-30	W5090064-02	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005
MW-156	9/5/95	18-20	W5090064-03	NA	NA	<0.005	NA	<0.005	0.014	<0.005	NA	NA	<0.005	<0.005	0.17
MW-157	1/23/97	3-5	W7010365-01	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005
MW-158	1/23/97	8-10	W7010365-02	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005
MW-200	7/10/95	13-15	W5070142-01	NA	NA	<0.005	NA	<0.005	0.018	<0.005	NA	NA	<0.005	<0.005	0.26
MW-200	7/14/95	48-50	W5070171-01	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005
MW-201	7/11/95	18-20	W5070142-02	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005
MW-201	7/11/95	38-40	W5070142-04	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005
MW-202	7/11/95	13-15	W5070142-03	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	8.3
MW-202	7/11/95	33-35	W5070142-05	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	0.0068
MW-302	1/31/97	48-50	W7010425-02	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005
MW-302	1/31/97	63-65	W7010425-03	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	<0.005
SB10-1	3/1994	2-4	NA	NA	NA	NA	NA	NA	<0.001	<0.001	NA	NA	NA	NA	0.045
SB10-2	3/1994	6-8	NA	NA	NA	NA	NA	NA	<0.005	<0.005	NA	NA	NA	NA	0.029
SB10-3	3/1994	4-6	NA	NA	NA	NA	NA	NA	<0.001	<0.001	NA	NA	NA	NA	<0.001
SB10-4	3/1994	6-8	NA	NA	NA	NA	NA	NA	<0.120	<0.120	NA	NA	NA	NA	<0.120
SB10-5	3/1994	14-16	NA	NA	NA	NA	NA	NA	<0.120	<0.120	NA	NA	NA	NA	2.5
SB-132	9/1992	8-10	NA	NA	NA	NA	NA	NA	<3.1	<3.1	NA	NA	<3.1	NA	120
SB-133	9/1992	3-5	NA	NA	NA	NA	NA	NA	<0.630	<0.630	NA	NA	<0.63	NA	14
SB-134	9/1992	8-10	NA	NA	NA	NA	NA	NA	<0.005	<0.005	NA	NA	<0.005	NA	<0.005
SB-135	9/1992	8-10	NA	NA	NA	NA	NA	NA	<0.005	<0.005	NA	NA	<0.005	NA	<0.005
SB-135 Dup	9/1992	8-10	NA	NA	NA	NA	NA	NA	<0.005	<0.005	NA	NA	<0.005	NA	<0.005
SB-145	6/2/93	13-15	69803	NA	NA	<0.1	NA	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.1	<0.1
SB-145 Dup	6/2/93	13-15	69804	NA	NA	<0.1	NA	<0.1	<0.100	<0.01	NA	NA	<0.1	<0.1	<0.100
SB-145	6/2/93	23-30	69805	NA	NA	<0.005	NA	<0.005	<0.005	0.0068	NA	NA	<0.005	<0.005	<0.005
SB-146	6/2/93	13-15	69806	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005	0.093
SB-146	6/2/93	23-25	69807	NA	NA	<0.005	NA	<0.005	0.013	0.0015	NA	NA	<0.005	<0.005	<0.005
SB-147	6/3/93	8-10	69873	NA	NA	<0.1	NA	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.1	23
SB-147	6/3/93	28-30	69874	NA	NA	<0.005	NA	<0.005	<0.005	0.024	NA	NA	<0.005	<0.005	<0.005
SB-148	6/3/93	8-10	69875	NA	NA	<0.1	NA	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.1	14
SB-148	6/3/93	23-25	69876	NA	NA	<0.005	NA	<0.005	<0.005	0.012	NA	NA	<0.005	<0.005	0.014
SB-149	6/4/93	8-10	69945	NA	NA	<0.1	NA	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.1	0.2
SB-150	6/4/93	3-5	69946	NA	NA	<0.1	NA	<0.1	0.7	<0.1	NA	NA	<0.1	<0.1	4.2
SB-150	6/4/93	8-10	69947	NA	NA	<0.1	NA	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.1	0.3
Tier II Residential Cleanup Goals Subsurface Soil[1]				1,767.785	33.5[2]	NA	0.076	0.044	0.227	278.926	NA	235.033	229.642	0.035	0.076
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]				10,000	972[2]	410,000[3]	7.24	0.21	8.01	1,000	NA	1,405.37	1,000	1.05	25.73

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds mg/kg = milligrams per kilogram
Samples analyzed using EPA SW-846 Method 8260 NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
(1) Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
(2) Calculated using surrogate toxicity values and Tier II equations.
(3) Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Tab. 3a

Subsurface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allication Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	Vinyl chloride	Xylenes, Total
GP-1	12/19/96	5-7	W6120376-02	NA	NA	NA	NA	<0.020	0.04	<0.005
GP-2	12/19/96	5-7	W6120376-04	NA	NA	NA	NA	<0.020	<0.010	<0.005
GP-3	12/19/96	5-7	W6120376-06	NA	NA	NA	NA	<0.020	0.012	<0.005
GP-4	12/19/96	5-7	W6120376-08	NA	NA	NA	NA	<0.020	<0.010	<0.005
GP-5	12/19/96	5-7	W6120376-10	NA	NA	NA	NA	<0.020	<0.010	<0.005
GP-6	12/19/96	5-7	W6120376-12	NA	NA	NA	NA	<0.020	<0.010	<0.005
HP-1	9/6/95	3-5	W5090064-04	NA	NA	NA	NA	<0.020	<0.010	<0.005
KB-17	5/2/00	10-12	265075	<0.005	<0.005	<0.005	<0.005	NA	<0.010	<0.005
KB-20	7/12/00	14-16	270503	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	0.0068
KB-24	7/17/00	18-20	271016	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005
KB-33	5/15/01	4-6	293128	<2.6	<2.6	350	85	<3.4	<3.4	71
KB-i1	5/1/01	2-4	291956	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.012	<0.0059
KB-i1	5/1/01	4-6	291957	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.012	<0.0059
KB-i2	5/1/01	5-6	291958	<0.0058	<0.0058	<0.0058	<0.0058	<0.012	<0.012	<0.0058
KB-i3	5/1/01	4-6	291959	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.012	<0.0059
KB-i4	5/1/01	4-6	291960	<0.0062	<0.0062	<0.0062	<0.0062	<0.012	<0.012	<0.0062
KB-i4	5/1/01	13.5-14	291961	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.011	<0.0054
KB-i5	5/1/01	4-6	291962	<0.0061	<0.0061	<0.0061	<0.0061	<0.012	<0.012	<0.0061
KB-i6	5/1/01	3-4	291963	<0.0062	<0.0062	<0.0062	<0.0062	<0.012	<0.012	<0.0062
KB-i6	5/1/01	4-6	291964	<0.0061	<0.0061	<0.0061	<0.0061	<0.012	<0.012	<0.0061
KB-i7	5/1/01	2-4	291965	<0.0060	<0.0060	<0.0060	<0.0060	<0.012	<0.012	<0.0060
KB-i8	5/1/01	2-4	291966	<0.0060	<0.0060	<0.0060	<0.0060	<0.012	<0.012	<0.0060
KB-i9	5/1/01	2-4	291967	<0.0060	<0.0060	<0.0060	<0.0060	<0.012	<0.012	<0.0060
KB-i12	5/1/01	2-4	291968	<0.0060	<0.0060	<0.0060	<0.0060	<0.012	<0.012	<0.0060
KB-i13	5/16/01	2-4	293161	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.011	<0.0057
KB-i14	5/18/01	2-4	293309	<0.0065	<0.0065	<0.0065	<0.0065	<0.013	<0.013	<0.0065
KB-i15	5/16/01	10-12	293165	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.011	<0.0057
KB-i15 Dup	5/16/01	10-12	293166	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.011	<0.0056
KB-i16	5/16/01	8-10	293170	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.011	<0.0054
KB-i17	5/18/01	8-10	293312	<0.024	<0.024	<0.024	<0.024	<0.049	<0.049	<0.026
KB-i17 Dup	5/18/01	8-10	293313	<0.026	<0.026	<0.026	<0.026	<0.051	<0.051	<0.026
KB-i18	5/18/01	8-10	293317	<0.0052	<0.0052	<0.0052	<0.0052	<0.010	<0.010	<0.0052
KB-i19	5/18/01	8-10	293318	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.011	<0.0053
MW-152	6/27/95	8-10	W5060414-04	NA	NA	NA	NA	<0.020	<0.010	<0.005
MW-152	6/28/95	18-20	W5060414-01	NA	NA	NA	NA	<0.020	<0.010	<0.005
MW-154	6/29/95	8-10	W5060414-02	NA	NA	NA	NA	<0.020	<0.010	<0.005
MW-154	6/29/95	18-20	W5060414-03	NA	NA	NA	NA	<0.020	<0.010	<0.005
MW-155	9/5/95	13-15	W5090064-01	NA	NA	NA	NA	<0.100	0.06	<0.025
MW-155	9/5/95	28-30	W5090064-02	NA	NA	NA	NA	<0.020	<0.010	<0.005
MW-156	9/5/95	18-20	W5090064-03	NA	NA	NA	NA	<0.020	<0.010	<0.005
MW-157	1/23/97	3-5	W7010365-01	NA	NA	NA	NA	<0.020	<0.010	<0.005
MW-158	1/23/97	8-10	W7010365-02	NA	NA	NA	NA	<0.020	<0.010	<0.005
MW-200	7/10/95	13-15	W5070142-01	NA	NA	NA	NA	<0.020	<0.010	<0.005
MW-200	7/14/95	48-50	W5070171-01	NA	NA	NA	NA	<0.020	<0.010	<0.005
MW-201	7/11/95	18-20	W5070142-02	NA	NA	NA	NA	<0.020	<0.010	<0.005
MW-201	7/11/95	38-40	W5070142-04	NA	NA	NA	NA	<0.020	<0.010	<0.005
MW-202	7/11/95	13-15	W5070142-03	NA	NA	NA	NA	<0.020	0.024	<0.005
MW-202	7/11/95	33-35	W5070142-05	NA	NA	NA	NA	<0.020	<0.010	<0.005
MW-302	1/31/97	48-50	W7010425-02	NA	NA	NA	NA	<0.020	<0.010	<0.005
MW-302	1/31/97	63-65	W7010425-03	NA	NA	NA	NA	<0.020	<0.010	<0.005
SB10-1	3/1994	2-4	NA	NA	NA	NA	NA	NA	<0.001	<0.003
SB10-2	3/1994	6-8	NA	NA	NA	NA	NA	NA	<0.005	<0.016
SB10-3	3/1994	4-6	NA	NA	NA	NA	NA	NA	<0.001	<0.003
SB10-4	3/1994	6-8	NA	NA	NA	NA	NA	NA	<0.120	1.3
SB10-5	3/1994	14-16	NA	NA	NA	NA	NA	NA	<0.120	<0.360
SB-132	9/1992	8-10	NA	NA	NA	NA	NA	NA	<6.3	<3.1
SB-133	9/1992	3-5	NA	NA	NA	NA	NA	NA	<1.3	<0.630
SB-134	9/1992	8-10	NA	NA	NA	NA	NA	NA	<0.010	<0.005
SB-135	9/1992	8-10	NA	NA	NA	NA	NA	NA	<0.010	<0.005
SB-135 Dup	9/1992	8-10	NA	NA	NA	NA	NA	NA	<0.010	<0.005
SB-145	6/2/93	13-15	69803	<0.1	<1.0	NA	NA	<1	<0.5	<0.1
SB-145 Dup	6/2/93	13-15	69804	<0.1	<1.0	NA	NA	<1	<0.500	<0.100
SB-145	6/2/93	23-30	69805	<0.005	<0.01	NA	NA	<0.01	<0.01	<0.005
SB-146	6/2/93	13-15	69806	<0.005	<0.01	NA	NA	<0.01	<0.01	<0.005
SB-146	6/2/93	23-25	69807	<0.005	<0.01	NA	NA	<0.01	<0.01	<0.005
SB-147	6/3/93	8-10	69873	<0.1	<1.0	NA	NA	<1	<0.5	<0.1
SB-147	6/3/93	28-30	69874	<0.005	<0.01	NA	NA	<0.01	<0.01	<0.005
SB-148	6/3/93	8-10	69875	<0.1	<1.0	NA	NA	<1	<0.5	<0.1
SB-148	6/3/93	23-25	69876	<0.005	<0.01	NA	NA	<0.01	<0.01	<0.005
SB-149	6/4/93	8-10	69945	<0.1	<1.0	NA	NA	<1	<0.5	<0.1
SB-150	6/4/93	3-5	69946	<0.1	<1.0	NA	NA	<1	<0.5	0.4
SB-150	6/4/93	8-10	69947	<0.1	<1.0	NA	NA	<1	<0.5	<0.1
Tier II Residential Cleanup Goals Subsurface Soil[1]				281[2]	NA	1.59[2]	1.74[2]	NA	0.129	1,000
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]				1,000[2]	NA	306[2]	124[2]	NA	0.13	1,000

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds mg/kg = milligrams per kilogram
Samples analyzed using EPA SW-846 Method 8260 NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.
[3] Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 5b
Subsurface Soil Analytical Results for PAHs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
KB-28	5/15/01	2-4	293130	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
KB-29	5/15/01	10-12	293134	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
KB-30	5/15/01	2-4	293136	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
KB-31	5/15/01	2-4	293138	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
KB-32	5/15/01	8-10	293141	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
KB-33	5/15/01	8-10	293146	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	3.8	<0.36	<0.36
KB-33 Dup.	5/15/01	8-10	293173	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	2.7	<0.36	<0.36
KB-34	5/16/01	2-4	293148	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
KB-35	5/16/01	4-6	293151	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
KB-36	5/16/01	8-10	293154	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
KB-37	5/16/01	2-4	293156	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
KB-38	5/16/01	8-10	293159	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
KB-i1	5/1/01	2-4	291956	<0.39	<0.39	1.3	3.1	1.4	1.5	1.2	0.62	2.7	<0.39	8.8	<0.39	0.58	<0.39	4.9	7.5
KB-i1	5/1/01	4-6	291957	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
KB-i2	5/1/01	5-6	291958	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
KB-i3	5/1/01	4-6	291959	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
KB-i4	5/1/01	4-6	291960	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
KB-i4	5/1/01	13.5-14	291961	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
KB-i5	5/1/01	4-6	291962	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
KB-i6	5/1/01	3-4	291963	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1
KB-i6	5/1/01	4-6	291964	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
KB-i7	5/1/01	2-4	291965	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
KB-i8	5/1/01	2-4	291966	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
KB-i9	5/1/01	2-4	291967	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
KB-i12	5/1/01	2-4	291968	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
KB-i13	5/16/01	2-4	293161	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
KB-i14	5/18/01	2-4	293309	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
KB-i15	5/16/01	10-12	293165	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
KB-i15 Dup.	5/16/01	10-12	293166	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
KB-i16	5/16/01	8-10	293170	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
KB-i17	5/18/01	8-10	293312	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
KB-i17 Dup.	5/18/01	8-10	293313	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
KB-i18	5/18/01	8-10	293317	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
KB-i19	5/18/01	8-10	293318	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
Tier II Residential Cleanup Goals Subsurface Soil[1]				10,000	0.422[2]	10,000	103.881	69.849	354.977	6,330[2]	501.638	379.273	69.863	2,305.040	8,838.641	629.166	1,761.785	260[3]	10,000
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]				10,000	1,280[2]	10,000	103.88	69.85	354.98	8,760[2]	3,759.12	10,000	69.86	10,000	10,000	629.17	10,000	260[3]	10,000

Detected compounds is below the VRP Tier II Residential Cleanup Goal

PAHs = Polynuclear Aromatic Hydrocarbons mg/kg = micrograms per kilogram

Samples analyzed using EPA SW-846 Method 8310 NA = Not Applicable

(1) Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996

(2) Calculated using surrogate toxicity values and Tier II equations.

(3) Tier I Health Protective Levels for Phenanthrene, Iodomethane and Acrolein Technical Memo by Indiana Voluntary Remediation Program, Dated 4/21/98

Table 5c
Subsurface Soil Analytical Results for Metals (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium	Total Chromium	Total Copper	Total Lead
KB-28	5/15/01	2-4	293130	NA	NA	NA	NA	<0.59	11	NA	<4.7
KB-29	5/14/01	2-4	293133	NA	NA	NA	NA	<0.61	28	NA	<49
KB-30	5/15/01	2-4	293136	NA	NA	NA	NA	<0.55	8	NA	19
KB-31	5/15/01	2-4	293138	NA	NA	NA	NA	<0.57	8.2	NA	<4.6
KB-32	5/15/01	2-4	293140	NA	NA	NA	NA	<0.54	9.2	NA	<4.3
KB-33	5/15/01	2-4	293145	NA	NA	NA	NA	88	380	NA	24,000
KB-34	5/16/01	2-4	293148	NA	NA	NA	NA	<0.53	7.9	NA	12
KB-35	5/16/01	2-4	293150	NA	NA	NA	NA	<0.54	6.5	NA	5.1
KB-36	5/16/01	2-4	293153	NA	NA	NA	NA	<0.59	19	NA	<47.
KB-37	5/16/01	2-4	293156	NA	NA	NA	NA	<0.54	6.1	NA	<4.3
KB-38	5/16/01	2-4	293158	NA	NA	NA	NA	1.7	24	NA	<4.8
KB-i1	5/1/01	2-4	291956	NA	NA	NA	NA	6.1	240	NA	10,000
KB-i1	5/1/01	4-6	291957	NA	NA	NA	NA	2.6	16	NA	280
KB-i2	5/1/01	5-6	291958	NA	NA	NA	NA	8.3	27	NA	830
KB-i3	5/1/01	4-6	291959	NA	NA	NA	NA	5.1	21	NA	800
KB-i4	5/1/01	4-6	291960	NA	NA	NA	NA	<0.62	17	NA	11
KB-i4	5/1/01	13.5-14	291961	NA	NA	NA	NA	1.2	27	NA	1,500
KB-i5	5/1/01	4-6	291962	NA	NA	NA	NA	<0.61	16	NA	26
KB-i6	5/1/01	3-4	291963	NA	NA	NA	NA	1,200	640	NA	9,300
KB-i6	5/1/01	4-6	291964	NA	NA	NA	NA	1.7	15	NA	13
KB-i7	5/1/01	2-4	291965	NA	NA	NA	NA	<0.60	18	NA	11
KB-i8	5/1/01	2-4	291966	NA	NA	NA	NA	<0.60	13	NA	5
KB-i9	5/1/01	2-4	291967	NA	NA	NA	NA	<0.60	14	NA	<4.8
KB-i12	5/1/01	2-4	291968	NA	NA	NA	NA	1.7	10	NA	59
KB-i13	5/16/01	2-4	293161	NA	NA	NA	NA	<0.57	11	NA	13
KB-i14	5/18/01	2-4	293309	NA	NA	NA	NA	<0.65	26	NA	<52.
KB-i15	5/16/01	2-4	293164	NA	NA	NA	NA	<0.59	11	NA	<4.7
KB-i16	5/16/01	2-4	293169	NA	NA	NA	NA	<0.59	13	NA	<4.7
KB-i17	5/18/01	2-4	293310	NA	NA	NA	NA	<0.60	17	NA	<4.8
KB-i17 Dup.	5/18/01	2-4	293311	NA	NA	NA	NA	1.2	16	NA	<4.7
KB-i18	5/18/01	2-4	293314	NA	NA	NA	NA	<0.60	18	NA	<4.8
KB-i18 Dup.	5/18/01	2-4	293315	NA	NA	NA	NA	<0.59	16	NA	<4.7
KB-i19	5/18/01	2-4	293316	NA	NA	NA	NA	<0.60	20	NA	<4.8
MW10-1	03/1994	10-12	NA	NA	3.4	<11	NA	<1	6	NA	4.8
SB10-1	03/1994	2-4	NA	NA	8.4	290	NA	8	39	NA	1,000
SB10-2	03/1994	6-8	NA	NA	4.6	19	NA	<1	6	NA	9.4
SB10-3	03/1994	4-6	NA	NA	3.6	26	NA	<1	9	NA	5.4
SB10-4	03/1994	6-8	NA	NA	7.2	83	NA	<1	22	NA	13
SB10-5	03/1994	14-16	NA	NA	2.1	<11	NA	<1	4	NA	3.9
Tier II Residential Cleanup Goals Subsurface Soil[1]				NA	438	10,000	118.605	730	7,300	54,000 [3]	400 [3]
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]				NA	438	10,000	118.6	730	7,300	54,000 [3]	1,000 [3]
Common Background Ranges [2]				NA	1.0 - 40	100 - 3,500	NA	0.01 - 70	5.0 - 3,000	NA	2 - 200

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

Samples analyzed using EPA Method Series 6000/7000
mg/kg = milligrams per kilogram NA = Not Applicable

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996

[2] Source: James Dragun. The Soil Chemistry of Hazardous Materials Table 3.1 Native Soil Concentration of Various Elements: p.229, 1998

[3] Calculated using surrogate toxicity values and Tier II equations.

Table 5c
Subsurface Soil Analytical Results for Metals (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Total Mercury	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Zinc
KB-28	5/15/01	2-4	293130	NA	NA	NA	NA	NA	NA
KB-29	5/14/01	2-4	293133	NA	NA	NA	NA	NA	NA
KB-30	5/15/01	2-4	293136	NA	NA	NA	NA	NA	NA
KB-31	5/15/01	2-4	293138	NA	NA	NA	NA	NA	NA
KB-32	5/15/01	2-4	293140	NA	NA	NA	NA	NA	NA
KB-33	5/15/01	2-4	293145	NA	NA	NA	NA	NA	NA
KB-34	5/16/01	2-4	293148	NA	NA	NA	NA	NA	NA
KB-35	5/16/01	2-4	293150	NA	NA	NA	NA	NA	NA
KB-36	5/16/01	2-4	293153	NA	NA	NA	NA	NA	NA
KB-37	5/16/01	2-4	293156	NA	NA	NA	NA	NA	NA
KB-38	5/16/01	2-4	293158	NA	NA	NA	NA	NA	NA
KB-i1	5/1/01	2-4	291956	NA	NA	NA	NA	NA	NA
KB-i1	5/1/01	4-6	291957	NA	NA	NA	NA	NA	NA
KB-i2	5/1/01	5-6	291958	NA	NA	NA	NA	NA	NA
KB-i3	5/1/01	4-6	291959	NA	NA	NA	NA	NA	NA
KB-i4	5/1/01	4-6	291960	NA	NA	NA	NA	NA	NA
KB-i4	5/1/01	13.5-14	291961	NA	NA	NA	NA	NA	NA
KB-i5	5/1/01	4-6	291962	NA	NA	NA	NA	NA	NA
KB-i6	5/1/01	3-4	291963	NA	NA	NA	NA	NA	NA
KB-i6	5/1/01	4-6	291964	NA	NA	NA	NA	NA	NA
KB-i7	5/1/01	2-4	291965	NA	NA	NA	NA	NA	NA
KB-i8	5/1/01	2-4	291966	NA	NA	NA	NA	NA	NA
KB-i9	5/1/01	2-4	291967	NA	NA	NA	NA	NA	NA
KB-i12	5/1/01	2-4	291968	NA	NA	NA	NA	NA	NA
KB-i13	5/16/01	2-4	293161	NA	NA	NA	NA	NA	NA
KB-i14	5/18/01	2-4	293309	NA	NA	NA	NA	NA	NA
KB-i15	5/16/01	2-4	293164	NA	NA	NA	NA	NA	NA
KB-i16	5/16/01	2-4	293169	NA	NA	NA	NA	NA	NA
KB-i17	5/18/01	2-4	293310	NA	NA	NA	NA	NA	NA
KB-i17 Dup.	5/18/01	2-4	293311	NA	NA	NA	NA	NA	NA
KB-i18	5/18/01	2-4	293314	NA	NA	NA	NA	NA	NA
KB-i18 Dup.	5/18/01	2-4	293315	NA	NA	NA	NA	NA	NA
KB-i19	5/18/01	2-4	293316	NA	NA	NA	NA	NA	NA
MW10-1	03/1994	10-12	NA	0.1	NA	2.1	<1	NA	NA
SB10-1	03/1994	2-4	NA	0.1	NA	1.6	<1	NA	NA
SB10-2	03/1994	6-8	NA	<1	NA	2.1	<1	NA	NA
SB10-3	03/1994	4-6	NA	0.1	NA	2.3	<1	NA	NA
SB10-4	03/1994	6-8	NA	<0.1	NA	<0.6	<1	NA	NA
SB10-5	03/1994	14-16	NA	<0.1	NA	3.3	<1	NA	NA
Tier II Residential Cleanup Goals Subsurface Soil[1]				87.6	10,000	7,300	7,300	NA	10,000
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]				87.6	10,000	7,300	7,300	NA	10,000
Common Background Ranges [2]				0.01 - 4.15	NA	0.1 - 2.0	0.1 - 50	NA	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

Samples analyzed using EPA Method Series 6000/7000
mg/kg = milligrams per kilogram NA = Not Applicable

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996

[2] Source: James Dragun. The Soil Chemistry of Hazardous Materials Table 3.1 Native Soil Concentration of Various Elements: p.229, 1998

[3] Calculated using surrogate toxicity values and Tier II equations.

Table 6a
Geoprobe Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform
HP-1	9/6/95	7	W5090064-05	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0
KB-1W	3/1/00	10-15	260548	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-2W	3/1/00	16-20	260549	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-3W	3/1/00	19-23	260550	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-4W	3/3/00	32-36	261735	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-5W	3/6/00	32-36	261736	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-6W	3/3/00	22.5-26.5	261737	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-7W	4/6/00	33-36	263438	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-8W	4/14/00	31-35	50526177	<100	<100	<100	<5	<5	<5	<5	<5
KB-9W	4/14/00	35-40	50526185	<100	<100	<100	<5	<5	<5	<5	<5
KB-10W	4/5/00	22-25	263430	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-11W	4/5/00	21-24	263431	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-12W	4/5/00	17-20	263432	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-13W	4/6/00	14-17	263433	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-14W	4/6/00	15-18	263435	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-15W	4/6/00	16-19	263436	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-15W Dup.	4/6/00	16-19	263437	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-16W	5/3/00	29-34	50548940	<100	<100	<100	<5	<5	<5	<5	<5
KB-17W	5/3/00	24.5-29.5	50548932	<100	<100	<100	<5	<5	<5	<5	<5
KB-18W	7/11/00	44-48	270499	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-19W	7/11/00	20-24	270500	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-19W	7/11/00	44-48	270501	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-20W	7/12/00	20-24	270502	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-20W	7/12/00	31-35	270503	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-21W	7/13/00	30-34	270752	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-22W	7/13/00	26-30	270753	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-23W	7/14/00	18-22	270754	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-23W	7/14/00	26-30	270755	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-24W	7/17/00	32-36	271017	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-25W	7/18/00	32-36	271018	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-26W	7/18/00	20-24	271020	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-26W	7/18/00	32-36	271019	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-27W	7/24/00	28-32	271397	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i2W	5/1/01	13-17	291969	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i12W	5/1/01	13-17	291970	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i14W	5/16/01	13-18	293162	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i15W	5/16/01	13-18	293167	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i17W	5/18/01	14-19	293320	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i17 Dup.	5/18/01	14-19	293322	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
STA-GW	3/2/00	NA	260553	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
STB-GW	3/2/00	NA	260555	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
STC-GW	3/2/00	NA	260557	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
STD-GW	3/2/00	NA	260559	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
STE-GW	3/2/00	NA	260561	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				3,040	NA	NA	5.0	NA	NA	0.289[2]	NA
Tier II Non-Residential Cleanup Goals - Groundwater [1]				10,220	NA	NA	98.6	NA	NA	46.1[2]	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organi Samples analyzed using EPA SW-846 Method 8260
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
NA = Not Applicable
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 6a
Geoprobe Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Bromomethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene
HP-1	9/6/95	7	W5090064-05	<10	NA	NA	NA	<5.0	<5.0	<5.0
KB-1W	3/1/00	10-15	260548	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-2W	3/1/00	16-20	260549	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-3W	3/1/00	19-23	260550	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-4W	3/3/00	32-36	261735	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-5W	3/6/00	32-36	261736	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-6W	3/3/00	22.5-26.5	261737	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-7W	4/6/00	33-36	263438	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-8W	4/14/00	31-35	50526177	<5	<5	<5	<5	<5	<5	<5
KB-9W	4/14/00	35-40	50526185	<5	<5	<5	<5	<5	<5	<5
KB-10W	4/5/00	22-25	263430	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-11W	4/5/00	21-24	263431	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-12W	4/5/00	17-20	263432	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-13W	4/6/00	14-17	263433	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-14W	4/6/00	15-18	263435	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-15W	4/6/00	16-19	263436	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-15W Dup.	4/6/00	16-19	263437	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-16W	5/3/00	29-34	50548940	<5	<5	<5	<5	<5	<5	<5
KB-17W	5/3/00	24.5-29.5	50548932	<5	<5	<5	<5	<5	<5	<5
KB-18W	7/11/00	44-48	270499	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-19W	7/11/00	20-24	270500	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-19W	7/11/00	44-48	270501	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-20W	7/12/00	20-24	270502	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-20W	7/12/00	31-35	270503	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-21W	7/13/00	30-34	270752	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-22W	7/13/00	26-30	270753	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-23W	7/14/00	18-22	270754	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-23W	7/14/00	26-30	270755	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-24W	7/17/00	32-36	271017	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-25W	7/18/00	32-36	271018	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-26W	7/18/00	20-24	271020	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-26W	7/18/00	32-36	271019	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-27W	7/24/00	28-32	271397	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i2W	5/1/01	13-17	291969	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i12W	5/1/01	13-17	291970	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i14W	5/16/01	13-18	293162	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i15W	5/16/01	13-18	293167	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i17W	5/18/01	14-19	293320	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i17 Dup.	5/18/01	14-19	293322	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STA-GW	3/2/00	NA	260553	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STB-GW	3/2/00	NA	260555	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STC-GW	3/2/00	NA	260557	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STD-GW	3/2/00	NA	260559	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STE-GW	3/2/00	NA	260561	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	64[2]	64[2]	64[2]	1,060[2]	NA	112[2]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	1,020[2]	1,020[2]	1,020[2]	10,200[2]	NA	2,040[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organi Samples analyzed using EPA SW-846 Method 8260
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
NA = Not Applicable
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 6a
Geoprobe Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	2-Chloroethyl vinyl ether
HP-1	9/6/95	7	W5090064-05	<5.0	<5.0	<5.0	<10	NA	NA	<10
KB-1W	3/1/00	10-15	260548	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-2W	3/1/00	16-20	260549	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-3W	3/1/00	19-23	260550	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-4W	3/3/00	32-36	261735	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-5W	3/6/00	32-36	261736	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-6W	3/3/00	22.5-26.5	261737	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-7W	4/6/00	33-36	263438	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-8W	4/14/00	31-35	50526177	<5	<5	<5	<5	<5	<5	<50
KB-9W	4/14/00	35-40	50526185	<5	<5	<5	<5	<5	<5	<50
KB-10W	4/5/00	22-25	263430	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-11W	4/5/00	21-24	263431	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-12W	4/5/00	17-20	263432	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-13W	4/6/00	14-17	263433	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-14W	4/6/00	15-18	263435	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-15W	4/6/00	16-19	263436	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-15W Dup.	4/6/00	16-19	263437	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-16W	5/3/00	29-34	50548940	<5	<5	<5	<5	<5	<5	<50
KB-17W	5/3/00	24.5-29.5	50548932	<5	<5	<5	<5	<5	<5	<50
KB-18W	7/11/00	44-48	270499	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-19W	7/11/00	20-24	270500	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-19W	7/11/00	44-48	270501	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-20W	7/12/00	20-24	270502	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-20W	7/12/00	31-35	270503	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-21W	7/13/00	30-34	270752	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-22W	7/13/00	26-30	270753	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-23W	7/14/00	18-22	270754	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-23W	7/14/00	26-30	270755	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-24W	7/17/00	32-36	271017	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-25W	7/18/00	32-36	271018	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-26W	7/18/00	20-24	271020	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-26W	7/18/00	32-36	271019	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-27W	7/24/00	28-32	271397	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-i2W	5/1/01	13-17	291969	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-i12W	5/1/01	13-17	291970	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-i14W	5/16/01	13-18	293162	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-i15W	5/16/01	13-18	293167	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-i17W	5/18/01	14-19	293320	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
KB-i17 Dup.	5/18/01	14-19	293322	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
STA-GW	3/2/00	NA	260553	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
STB-GW	3/2/00	NA	260555	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
STC-GW	3/2/00	NA	260557	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
STD-GW	3/2/00	NA	260559	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
STE-GW	3/2/00	NA	260561	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.
Tier II Residential Cleanup Goals - Groundwater [1]				NA	23,161	100	NA	NA	NA	NA
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	NA	468.9	NA	NA	NA	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organi Samples analyzed using EPA SW-846 Method 8260
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
NA = Not Applicable
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 6a
Geoprobe Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane
HP-1	9/6/95	7	W5090064-05	NA	NA	NA	<10	<10	<10	NA
KB-1W	3/1/00	10-15	260548	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-2W	3/1/00	16-20	260549	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-3W	3/1/00	19-23	260550	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-4W	3/3/00	32-36	261735	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-5W	3/6/00	32-36	261736	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-6W	3/3/00	22.5-26.5	261737	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-7W	4/6/00	33-36	263438	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-8W	4/14/00	31-35	50526177	<5	<5	<5	<5	<5	<5	<5
KB-9W	4/14/00	35-40	50526185	<5	<5	<5	<5	<5	<5	<5
KB-10W	4/5/00	22-25	263430	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-11W	4/5/00	21-24	263431	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-12W	4/5/00	17-20	263432	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-13W	4/6/00	14-17	263433	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-14W	4/6/00	15-18	263435	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-15W	4/6/00	16-19	263436	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-15W Dup.	4/6/00	16-19	263437	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-16W	5/3/00	29-34	50548940	<5	<5	<5	<5	<5	<5	<5
KB-17W	5/3/00	24.5-29.5	50548932	<5	<5	<5	<5	<5	<5	<5
KB-18W	7/11/00	44-48	270499	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-19W	7/11/00	20-24	270500	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-19W	7/11/00	44-48	270501	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-20W	7/12/00	20-24	270502	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-20W	7/12/00	31-35	270503	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-21W	7/13/00	30-34	270752	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-22W	7/13/00	26-30	270753	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-23W	7/14/00	18-22	270754	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-23W	7/14/00	26-30	270755	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-24W	7/17/00	32-36	271017	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-25W	7/18/00	32-36	271018	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-26W	7/18/00	20-24	271020	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-26W	7/18/00	32-36	271019	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-27W	7/24/00	28-32	271397	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-i2W	5/1/01	13-17	291969	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-i12W	5/1/01	13-17	291970	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-i14W	5/16/01	13-18	293162	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-i15W	5/16/01	13-18	293167	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-i17W	5/18/01	14-19	293320	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
KB-i17 Dup.	5/18/01	14-19	293322	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
STA-GW	3/2/00	NA	260553	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
STB-GW	3/2/00	NA	260555	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
STC-GW	3/2/00	NA	260557	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
STD-GW	3/2/00	NA	260559	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
STE-GW	3/2/00	NA	260561	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
Tier II Residential Cleanup Goals - Groundwater [1]				NA	NA	NA	600	600	75	NA
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	NA	NA	9,198	NA	119.2	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organi Samples analyzed using EPA SW-846 Method 8260
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
NA = Not Applicable
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 6a
Geoprobe Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	trans-1,4-Dichloro-2-butene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane
HP-1	9/6/95	7	W5090064-05	NA	<5.0	<5.0	<5.0	3,900	12	<5.0
KB-1W	3/1/00	10-15	260548	<50	<5.0	<5.0	<5.0	750	17	<5.0
KB-2W	3/1/00	16-20	260549	<50	<5.0	<5.0	<5.0	11	<5.0	<5.0
KB-3W	3/1/00	19-23	260550	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-4W	3/3/00	32-36	261735	<50	<5.0	<5.0	<5.0	570	<5.0	<5.0
KB-5W	3/6/00	32-36	261736	<50	<5.0	<5.0	<5.0	170	<5.0	<5.0
KB-6W	3/3/00	22.5-26.5	261737	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-7W	4/6/00	33-36	263438	<50	<5.0	<5.0	<5.0	8.8	<5.0	<5.0
KB-8W	4/14/00	31-35	50526177	<100	<5	<5	10	5,600	19	<5
KB-9W	4/14/00	35-40	50526185	<100	<5	<5	<5	<5	<5	<5
KB-10W	4/5/00	22-25	263430	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-11W	4/5/00	21-24	263431	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-12W	4/5/00	17-20	263432	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-13W	4/6/00	14-17	263433	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-14W	4/6/00	15-18	263435	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-15W	4/6/00	16-19	263436	<50	<5.0	<5.0	<5.0	21	<5.0	<5.0
KB-15W Dup.	4/6/00	16-19	263437	<50	<5.0	<5.0	<5.0	33	<5.0	<5.0
KB-16W	5/3/00	29-34	50548940	<100	<5	<5	<5	300	17	<5
KB-17W	5/3/00	24.5-29.5	50548932	<100	<5	<5	<5	<5	<5	<5
KB-18W	7/11/00	44-48	270499	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-19W	7/11/00	20-24	270500	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-19W	7/11/00	44-48	270501	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-20W	7/12/00	20-24	270502	<50	<5.0	<5.0	<5.0	21	<5.0	<5.0
KB-20W	7/12/00	31-35	270503	<50	<5.0	<5.0	<5.0	110	<5.0	<5.0
KB-21W	7/13/00	30-34	270752	<50	<5.0	<5.0	<5.0	99	<5.0	<5.0
KB-22W	7/13/00	26-30	270753	<50	<5.0	<5.0	<5.0	9.4	<5.0	<5.0
KB-23W	7/14/00	18-22	270754	<50	<5.0	<5.0	<5.0	71	<5.0	<5.0
KB-23W	7/14/00	26-30	270755	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-24W	7/17/00	32-36	271017	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-25W	7/18/00	32-36	271018	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-26W	7/18/00	20-24	271020	<50	<5.0	<5.0	5.4	160	5.5	<5.0
KB-26W	7/18/00	32-36	271019	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-27W	7/24/00	28-32	271397	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i2W	5/1/01	13-17	291969	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i12W	5/1/01	13-17	291970	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i14W	5/16/01	13-18	293162	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i15W	5/16/01	13-18	293167	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i17W	5/18/01	14-19	293320	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i17 Dup.	5/18/01	14-19	293322	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STA-GW	3/2/00	NA	260553	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STB-GW	3/2/00	NA	260555	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STC-GW	3/2/00	NA	260557	<50	<5.0	<5.0	<5.0	6.3	<5.0	<5.0
STD-GW	3/2/00	NA	260559	<50	<5.0	<5.0	<5.0	9.7	<5.0	<5.0
STE-GW	3/2/00	NA	260561	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	640	5.0	7.0	70	128[2]	NA
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	10,220	31.4	7.0	1,022	2,040[2]	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organi Samples analyzed using EPA SW-846 Method 8260
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
NA = Not Applicable

[1] **Indiana Department** of Environmental Management Voluntary Remediation **Program Resource Guide**, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996

[2] Calculated using surrogate toxicity values and Tier II equations.

Table 6a
Geoprobe Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethyl Acetate	Ethylbenzene
HP-1	9/6/95	7	W5090064-05	NA	NA	NA	<5.0	<5.0	NA	<5.0
KB-1W	3/1/00	10-15	260548	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-2W	3/1/00	16-20	260549	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-3W	3/1/00	19-23	260550	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-4W	3/3/00	32-36	261735	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-5W	3/6/00	32-36	261736	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-6W	3/3/00	22.5-26.5	261737	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-7W	4/6/00	33-36	263438	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-8W	4/14/00	31-35	50526177	<5	<5	<5	<5	<5	NA	<5
KB-9W	4/14/00	35-40	50526185	<5	<5	<5	<5	<5	NA	<5
KB-10W	4/5/00	22-25	263430	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-11W	4/5/00	21-24	263431	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-12W	4/5/00	17-20	263432	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-13W	4/6/00	14-17	263433	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-14W	4/6/00	15-18	263435	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-15W	4/6/00	16-19	263436	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-15W Dup.	4/6/00	16-19	263437	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-16W	5/3/00	29-34	50548940	<5	<5	<5	<5	<5	NA	<5
KB-17W	5/3/00	24.5-29.5	50548932	<5	<5	<5	<5	<5	NA	<5
KB-18W	7/11/00	44-48	270499	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-19W	7/11/00	20-24	270500	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-19W	7/11/00	44-48	270501	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-20W	7/12/00	20-24	270502	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-20W	7/12/00	31-35	270503	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-21W	7/13/00	30-34	270752	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-22W	7/13/00	26-30	270753	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-23W	7/14/00	18-22	270754	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-23W	7/14/00	26-30	270755	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-24W	7/17/00	32-36	271017	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-25W	7/18/00	32-36	271018	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-26W	7/18/00	20-24	271020	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-26W	7/18/00	32-36	271019	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-27W	7/24/00	28-32	271397	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-i2W	5/1/01	13-17	291969	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-i12W	5/1/01	13-17	291970	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-i14W	5/16/01	13-18	293162	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-i15W	5/16/01	13-18	293167	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-i17W	5/18/01	14-19	293320	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-i17 Dup.	5/18/01	14-19	293322	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
STA-GW	3/2/00	NA	260553	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
STB-GW	3/2/00	NA	260555	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
STC-GW	3/2/00	NA	260557	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
STD-GW	3/2/00	NA	260559	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
STE-GW	3/2/00	NA	260561	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	NA	0.850[2]	NA	NA	NA	700
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	NA	28.6[2]	NA	NA	NA	10,220

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organi Samples analyzed using EPA SW-846 Method 8260
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
NA = Not Applicable
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 6a
Geoprobe Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Ethyl methacrylate	2-Hexanone	Hexachlorobutadiene	Iodomethane	Isopropylbenzene	p-Isopropyltoluene
HP-1	9/6/95	7	W5090064-05	NA	<20	NA	NA	NA	NA
KB-1W	3/1/00	10-15	260548	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-2W	3/1/00	16-20	260549	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-3W	3/1/00	19-23	260550	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-4W	3/3/00	32-36	261735	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-5W	3/6/00	32-36	261736	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-6W	3/3/00	22.5-26.5	261737	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-7W	4/6/00	33-36	263438	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-8W	4/14/00	31-35	50526177	<100	<10	<5	<10	<5	<5
KB-9W	4/14/00	35-40	50526185	<100	<10	<5	<10	<5	<5
KB-10W	4/5/00	22-25	263430	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-11W	4/5/00	21-24	263431	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-12W	4/5/00	17-20	263432	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-13W	4/6/00	14-17	263433	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-14W	4/6/00	15-18	263435	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-15W	4/6/00	16-19	263436	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-15W Dup.	4/6/00	16-19	263437	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-16W	5/3/00	29-34	50548940	<100	<10	<5	<10	<5	<5
KB-17W	5/3/00	24.5-29.5	50548932	<100	<10	<5	<10	<5	<5
KB-18W	7/11/00	44-48	270499	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-19W	7/11/00	20-24	270500	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-19W	7/11/00	44-48	270501	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-20W	7/12/00	20-24	270502	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-20W	7/12/00	31-35	270503	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-21W	7/13/00	30-34	270752	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-22W	7/13/00	26-30	270753	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-23W	7/14/00	18-22	270754	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-23W	7/14/00	26-30	270755	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-24W	7/17/00	32-36	271017	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-25W	7/18/00	32-36	271018	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-26W	7/18/00	20-24	271020	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-26W	7/18/00	32-36	271019	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-27W	7/24/00	28-32	271397	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-i2W	5/1/01	13-17	291969	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-i12W	5/1/01	13-17	291970	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-i14W	5/16/01	13-18	293162	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-i15W	5/16/01	13-18	293167	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-i17W	5/18/01	14-19	293320	<10.	<50.	<5.0	<10.	<5.0	<5.0
KB-i17 Dup.	5/18/01	14-19	293322	<10.	<50.	<5.0	<10.	<5.0	<5.0
STA-GW	3/2/00	NA	260553	<10.	<50.	<5.0	<10.	<5.0	<5.0
STB-GW	3/2/00	NA	260555	<10.	<50.	<5.0	<10.	<5.0	<5.0
STC-GW	3/2/00	NA	260557	<10.	<50.	<5.0	<10.	<5.0	<5.0
STD-GW	3/2/00	NA	260559	<10.	<50.	<5.0	<10.	<5.0	<5.0
STE-GW	3/2/00	NA	260561	<10.	<50.	<5.0	<10.	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	NA	10	NA	689[2]	445[2]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	NA	36.7	NA	10,200[2]	10,200[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organi Samples analyzed using EPA SW-846 Method 8260
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
NA = Not Applicable
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 6a
Geoprobe Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Methylene chloride	Methyl-ethyl-ketone (MEK)	Methyl-tert-butyl ether (MTBE)	4-Methyl-2-pentanone (MIBK)	Naphthalene	n-Propylbenzene
HP-1	9/6/95	7	W5090064-05	<5.0	<20	NA	<20	NA	NA
KB-1W	3/1/00	10-15	260548	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-2W	3/1/00	16-20	260549	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-3W	3/1/00	19-23	260550	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-4W	3/3/00	32-36	261735	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-5W	3/6/00	32-36	261736	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-6W	3/3/00	22.5-26.5	261737	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-7W	4/6/00	33-36	263438	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-8W	4/14/00	31-35	50526177	<5	<10	<5	<10	<5	<5
KB-9W	4/14/00	35-40	50526185	<5	<10	<5	<10	<5	<5
KB-10W	4/5/00	22-25	263430	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-11W	4/5/00	21-24	263431	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-12W	4/5/00	17-20	263432	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-13W	4/6/00	14-17	263433	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-14W	4/6/00	15-18	263435	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-15W	4/6/00	16-19	263436	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-15W Dup.	4/6/00	16-19	263437	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-16W	5/3/00	29-34	50548940	<5	<10	<5	<10	<5	<5
KB-17W	5/3/00	24.5-29.5	50548932	<5	<10	<5	<10	<5	<5
KB-18W	7/11/00	44-48	270499	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-19W	7/11/00	20-24	270500	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-19W	7/11/00	44-48	270501	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-20W	7/12/00	20-24	270502	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-20W	7/12/00	31-35	270503	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-21W	7/13/00	30-34	270752	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-22W	7/13/00	26-30	270753	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-23W	7/14/00	18-22	270754	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-23W	7/14/00	26-30	270755	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-24W	7/17/00	32-36	271017	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-25W	7/18/00	32-36	271018	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-26W	7/18/00	20-24	271020	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-26W	7/18/00	32-36	271019	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-27W	7/24/00	28-32	271397	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-i2W	5/1/01	13-17	291969	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-i12W	5/1/01	13-17	291970	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-i14W	5/16/01	13-18	293162	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-i15W	5/16/01	13-18	293167	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-i17W	5/18/01	14-19	293320	<10.	<50.	<10.	<50.	<5.0	<5.0
KB-i17 Dup.	5/18/01	14-19	293322	<10.	<50.	<10.	<50.	<5.0	<5.0
STA-GW	3/2/00	NA	260553	<10.	<50.	<10.	<50.	<5.0	<5.0
STB-GW	3/2/00	NA	260555	<10.	<50.	<10.	<50.	<5.0	<5.0
STC-GW	3/2/00	NA	260557	<10.	<50	<10.	<50.	<5.0	<5.0
STD-GW	3/2/00	NA	260559	<10.	<50.	<10.	<50.	<5.0	<5.0
STE-GW	3/2/00	NA	260561	<10.	<50.	<10.	<50.	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				6.30[2]	917.72	45	1,520	1,216	64[2]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				381[2]	5,110	715	5,110	4,088	1,020[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organi Samples analyzed using EPA SW-846 Method 8260
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
NA = Not Applicable
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 6a
Geoprobe Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Tetrahydrofuran	Toluene
HP-1	9/6/95	7	W5090064-05	<5.0	NA	<5.0	<5.0	NA	<5.0
KB-1W	3/1/00	10-15	260548	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-2W	3/1/00	16-20	260549	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-3W	3/1/00	19-23	260550	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-4W	3/3/00	32-36	261735	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-5W	3/6/00	32-36	261736	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-6W	3/3/00	22.5-26.5	261737	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-7W	4/6/00	33-36	263438	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-8W	4/14/00	31-35	50526177	<5	<5	<5	<5	NA	<5
KB-9W	4/14/00	35-40	50526185	<5	<5	<5	<5	NA	<5
KB-10W	4/5/00	22-25	263430	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-11W	4/5/00	21-24	263431	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-12W	4/5/00	17-20	263432	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-13W	4/6/00	14-17	263433	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-14W	4/6/00	15-18	263435	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-15W	4/6/00	16-19	263436	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-15W Dup.	4/6/00	16-19	263437	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-16W	5/3/00	29-34	50548940	<5	<5	<5	<5	NA	<5
KB-17W	5/3/00	24.5-29.5	50548932	<5	<5	<5	<5	NA	<5
KB-18W	7/11/00	44-48	270499	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-19W	7/11/00	20-24	270500	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-19W	7/11/00	44-48	270501	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-20W	7/12/00	20-24	270502	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-20W	7/12/00	31-35	270503	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-21W	7/13/00	30-34	270752	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-22W	7/13/00	26-30	270753	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-23W	7/14/00	18-22	270754	<5.0	<5.0	<5.0	20	NA	<5.0
KB-23W	7/14/00	26-30	270755	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-24W	7/17/00	32-36	271017	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-25W	7/18/00	32-36	271018	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-26W	7/18/00	20-24	271020	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-26W	7/18/00	32-36	271019	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-27W	7/24/00	28-32	271397	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-i2W	5/1/01	13-17	291969	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-i12W	5/1/01	13-17	291970	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-i14W	5/16/01	13-18	293162	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-i15W	5/16/01	13-18	293167	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-i17W	5/18/01	14-19	293320	<5.0	<5.0	<5.0	<5.0	NA	<5.0
KB-i17 Dup.	5/18/01	14-19	293322	<5.0	<5.0	<5.0	<5.0	NA	<5.0
STA-GW	3/2/00	NA	260553	<5.0	<5.0	<5.0	<5.0	NA	<5.0
STB-GW	3/2/00	NA	260555	<5.0	<5.0	<5.0	<5.0	NA	<5.0
STC-GW	3/2/00	NA	260557	<5.0	<5.0	<5.0	<5.0	NA	<5.0
STD-GW	3/2/00	NA	260559	<5.0	<5.0	<5.0	<5.0	NA	<5.0
STE-GW	3/2/00	NA	260561	<5.0	<5.0	<5.0	<5.0	NA	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	5	5	5	NA	1,000
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	110	14.3	56.1	NA	20,440

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organi Samples analyzed using EPA SW-846 Method 8260
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
NA = Not Applicable
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 6a
Geoprobe Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane
HP-1	9/6/95	7	W5090064-05	NA	NA	<5.0	<5.0	430	NA
KB-1W	3/1/00	10-15	260548	<5.0	<5.0	<5.0	<5.0	1,300	<5.0
KB-2W	3/1/00	16-20	260549	<5.0	<5.0	<5.0	<5.0	98	<5.0
KB-3W	3/1/00	19-23	260550	<5.0	<5.0	<5.0	<5.0	6.6	<5.0
KB-4W	3/3/00	32-36	261735	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-5W	3/6/00	32-36	261736	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-6W	3/3/00	22.5-26.5	261737	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-7W	4/6/00	33-36	263438	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-8W	4/14/00	31-35	50526177	<5	<5	<5	<5	<5	<5
KB-9W	4/14/00	35-40	50526185	<5	<5	<5	<5	<5	<5
KB-10W	4/5/00	22-25	263430	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-11W	4/5/00	21-24	263431	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-12W	4/5/00	17-20	263432	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-13W	4/6/00	14-17	263433	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-14W	4/6/00	15-18	263435	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-15W	4/6/00	16-19	263436	<5.0	<5.0	<5.0	<5.0	100	<5.0
KB-15W Dup.	4/6/00	16-19	263437	<5.0	<5.0	<5.0	<5.0	190	<5.0
KB-16W	5/3/00	29-34	50548940	<5	<5	<5	<5	<5	<5
KB-17W	5/3/00	24.5-29.5	50548932	<5	<5	<5	<5	<5	<5
KB-18W	7/11/00	44-48	270499	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-19W	7/11/00	20-24	270500	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-19W	7/11/00	44-48	270501	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-20W	7/12/00	20-24	270502	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-20W	7/12/00	31-35	270503	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-21W	7/13/00	30-34	270752	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-22W	7/13/00	26-30	270753	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-23W	7/14/00	18-22	270754	<5.0	<5.0	<5.0	<5.0	7.2	<5.0
KB-23W	7/14/00	26-30	270755	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-24W	7/17/00	32-36	271017	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-25W	7/18/00	32-36	271018	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-26W	7/18/00	20-24	271020	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-26W	7/18/00	32-36	271019	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-27W	7/24/00	28-32	271397	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i2W	5/1/01	13-17	291969	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i12W	5/1/01	13-17	291970	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i14W	5/16/01	13-18	293162	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
KB-i15W	5/16/01	13-18	293167	<5.0	<5.0	<5.0	<5.0	44	<5.0
KB-i17W	5/18/01	14-19	293320	<5.0	<5.0	<5.0	<5.0	150	<5.0
KB-i17 Dup.	5/18/01	14-19	293322	<5.0	<5.0	<5.0	<5.0	170	<5.0
STA-GW	3/2/00	NA	260553	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STB-GW	3/2/00	NA	260555	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STC-GW	3/2/00	NA	260557	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STD-GW	3/2/00	NA	260559	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STE-GW	3/2/00	NA	260561	<5.0	<5.0	<5.0	<5.0	19	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	70	200	5	5	1,380[2]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	1,022	9,198	50.2	260	30,700[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organi Samples analyzed using EPA SW-846 Method 8260
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
NA = Not Applicable
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 6a
Geoprobe Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	Vinyl chloride	Xylenes, (Total)
HP-1	9/6/95	7	W5090064-05	NA	NA	NA	<20	500	<5.0
KB-1W	3/1/00	10-15	260548	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
KB-2W	3/1/00	16-20	260549	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
KB-3W	3/1/00	19-23	260550	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
KB-4W	3/3/00	32-36	261735	<5.0	<5.0	<5.0	<10.	140	<5.0
KB-5W	3/6/00	32-36	261736	<5.0	<5.0	<5.0	<10.	23	<5.0
KB-6W	3/3/00	22.5-26.5	261737	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
KB-7W	4/6/00	33-36	263438	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
KB-8W	4/14/00	31-35	50526177	<5	<5	<5	<10	640	<5
KB-9W	4/14/00	35-40	50526185	<5	<5	<5	<10	15	<5
KB-10W	4/5/00	22-25	263430	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
KB-11W	4/5/00	21-24	263431	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
KB-12W	4/5/00	17-20	263432	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
KB-13W	4/6/00	14-17	263433	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
KB-14W	4/6/00	15-18	263435	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
KB-15W	4/6/00	16-19	263436	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
KB-15W Dup.	4/6/00	16-19	263437	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
KB-16W	5/3/00	29-34	50548940	<5	<5	<5	<10	160	<5
KB-17W	5/3/00	24.5-29.5	50548932	<5	<5	<5	<10	39	<5
KB-18W	7/11/00	44-48	270499	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
KB-19W	7/11/00	20-24	270500	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
KB-19W	7/11/00	44-48	270501	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
KB-20W	7/12/00	20-24	270502	<5.0	<5.0	<5.0	<10.	18	<5.0
KB-20W	7/12/00	31-35	270503	<5.0	<5.0	<5.0	<10.	97	<5.0
KB-21W	7/13/00	30-34	270752	<5.0	<5.0	<5.0	<10.	310	<5.0
KB-22W	7/13/00	26-30	270753	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
KB-23W	7/14/00	18-22	270754	<5.0	<5.0	<5.0	<10.	11	<5.0
KB-23W	7/14/00	26-30	270755	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
KB-24W	7/17/00	32-36	271017	<5.0	<5.0	<5.0	<10.	29	<5.0
KB-25W	7/18/00	32-36	271018	<5.0	<5.0	<5.0	<10.	3	<5.0
KB-26W	7/18/00	20-24	271020	<5.0	<5.0	<5.0	<10.	20	<5.0
KB-26W	7/18/00	32-36	271019	<5.0	<5.0	<5.0	<10.	53	<5.0
KB-27W	7/24/00	28-32	271397	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
KB-i2W	5/1/01	13-17	291969	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
KB-i12W	5/1/01	13-17	291970	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
KB-i14W	5/16/01	13-18	293162	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
KB-i15W	5/16/01	13-18	293167	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
KB-i17W	5/18/01	14-19	293320	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
KB-i17 Dup.	5/18/01	14-19	293322	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
STA-GW	3/2/00	NA	260553	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
STB-GW	3/2/00	NA	260555	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
STC-GW	3/2/00	NA	260557	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
STD-GW	3/2/00	NA	260559	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
STE-GW	3/2/00	NA	260561	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	13.7[2]	13.7[2]	NA	2	10,000
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	5,110[2]	5,110[2]	NA	10	204,400

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organi Samples analyzed using EPA SW-846 Method 8260
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
NA = Not Applicable
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 6b
Geoprobe Groundwater Analytical Results for PAHs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
KB-i2W	5/1/01	13-17	291969	<18	<10	<6.6	<0.10	<0.20	<0.18	<0.76	<0.17	<0.20	<0.10	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
KB-i12W	5/1/01	13-17	291970	<18	<10	<6.6	<0.10	<0.20	<0.18	<0.76	<0.17	<0.20	<0.10	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
KB-i14W	5/16/01	13-18	293162	<18	<10	<6.6	<0.10	<0.20	<0.18	<0.76	<0.17	<0.20	<0.10	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
KB-i15W	5/16/01	13-18	293167	<18	<10	<6.6	<0.10	<0.20	<0.18	<0.76	<0.17	<0.20	<0.10	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
KB-i17	5/18/01	14-19	293320	<18	<10	<6.6	<0.10	<0.20	<0.18	<0.76	<0.17	<0.20	<0.10	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
KB-i17 Dup.	5/18/01	14-19	293322	<18	<10	<6.6	<0.10	<0.20	<0.18	<0.76	<0.17	<0.20	<0.10	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
Tier II Residential Cleanup Goals - Groundwater [1]				1,824	6.89[2]	9,120	0.10	0.20	0.20	38.4[2]	0.20	0.20	0.30	243.2	1,216	0.40	1,216	230[3]	912
Tier II Non-Residential Cleanup Goals - Groundwater [1]				6,132	2,040[2]	30,660	10	10	10	613[2]	39.2	391.8	10	817.6	4,088	10	4,088	230[3]	3,066

PAHs = Polynuclear Aromatic Hydrocarbons
Samples analyzed using EPA SW-846 Method 8310
µg/L = micrograms per liter
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.
[3] Tier I Health Protective Levels for Phenanthrene
Technical Memo by Indiana Voluntary Remediation Program, dated 4/21/98
The given value is a residential cleanup goal (non-residential cleanup goal is not available).

Table 6c
Geoprobe Groundwater Analytical Results for Metals (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Total Cadmium	Total Chromium	Total Lead
KB-i2W	5/1/2001	13-17	291969	<5.	<40.	<5.
KB-i12W	5/1/2001	13-17	291970	<5.	<40.	<5.
KB-i14W	5/16/2001	13-18	293162	<5.	<40.	<5.
KB-i15W	5/16/2001	13-18	293167	<5.	<40.	9.8
KB-i17	5/18/2001	14-19	293320	<5.	<40.	10.1
KB-i17 Dup.	5/18/2001	14-19	293322	<5.	<40.	<5.
Tier II Residential Cleanup Goals - Groundwater [1]				5.0	100	15[2]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				51.1	511	15[2]

Detected compound is below the VRP Tier II Residential Cleanup Goal

Samples analyzed using EPA Method Series 6000/7000

µg/L = micrograms per liter

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996

[2] IDEM VRP Interoffice Memo dated on January 26, 1998

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	n-Butylbenzene
MW-10-1	3/28/94	7-17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10-1	10/5/94	7-17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10-1	7/14/95	7-17	W5070191-13	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-10-1	2/5/97	7-17	W7020074-01	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-10-1	11/23/99	7-17	253788	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-10-1 Dup	11/23/99	7-17	253812	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-10-1	2/29/00	7-17	260586	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-10-1	11/8/00	7-17	280650	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-132	9/1992	10-20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CH151-MW132	5/27/93	NA	69681	<400	<1,000	<1,000	<20	NA	NA	<20	<20	<100	NA
MW-132	7/14/95	10-20	W5070191-09	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-132	2/5/97	10-20	W7020074-02	<500	NA	NA	<120	NA	NA	<120	<120	<250	NA
MW-132	11/23/99	10-20	253791	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-132	2/28/00	10-20	260589	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-133	9/1992	8-18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CH151-MW133	5/27/93	NA	69680	<20	<50	<50	<1.0	NA	NA	<1.0	<1.0	<5.0	NA
MW-133	9/11/95	8-18	W5090134-01	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-133	2/5/97	8-18	W7020074-03	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-133	11/23/99	8-18	253798	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-133	2/28/00	8-18	260596	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-135	9/1992	10-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CH151-MW135	5/27/93	NA	69679	<20	<50	<50	<1.0	NA	NA	<1.0	<1.0	<5.0	NA
CH151-MW235 (MW135 Dup)	5/27/93	NA	69678	<20	<50	<50	<1.0	NA	NA	<1.0	<1.0	<5.0	NA
MW-135	7/14/95	10-20	W5070191-14	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-135	2/5/97	10-20	W7020074-04	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-135	11/23/99	10-20	253802	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-135	2/29/00	10-20	260574	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-135	11/8/00	10-20	280651	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-135	6/20/01	10-20	296393	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
CH151-MW145-SO1	6/4/93	NA	69941	<100	<200	<200	<5	NA	NA	<5	<5	<20	NA
MW-145	7/14/95	17.5-27.5	W5070191-10	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-145	2/5/97	17.5-27.5	W7020074-05	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-145	11/23/99	17.5-27.5	253799	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-145 Dup	11/23/99	17.5-27.5	253813	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-145	2/29/00	17.5-27.5	260597	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-145	11/8/00	17.5-27.5	280652	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-145	6/21/01	17.5-27.5	296418	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
CH151-MW-146-SO1	6/4/93	NA	69942	<20	<50	<50	<1.0	NA	NA	1.4	<1.0	<5.0	NA
MW-146	7/14/95	15-25	W5070191-11	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-146	2/5/97	15-25	W7020074-06	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-146	11/23/99	15-25	253800	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-146	2/29/00	15-25	260572	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-146	11/8/00	15-25	280684	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-146	6/21/01	15-25	296419	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
CH151-MW147-SO1	6/4/93	NA	69943	<20	<50	<50	<1.0	NA	NA	<1.0	<1.0	<5.0	NA
MW-147	7/14/95	20-30	W5070191-08	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-147	2/5/97	20-30	W7020074-07	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-147	11/23/99	20-30	253790	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-147	2/28/00	20-30	260588	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-147	11/8/00	20-30	280685	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-147	6/21/01	20-30	296409	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
CH151-MW148-SO1	6/4/93	NA	69944	<1,600	<4,000	<4,000	<80	NA	NA	<80	<80	<400	NA
MW-148	7/14/95	10.5-25.5	W5070191-07	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-148	2/5/97	10.5-25.5	W7020074-08	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-148	11/23/99	10.5-25.5	253792	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-148	2/28/00	10.5-25.5	260583	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-148 Dup.	2/28/00	10.5-25.5	260568	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-148	11/8/00	10.5-25.5	280686	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-148 Dup.	11/8/00	10.5-25.5	280687	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-148	6/21/01	10.5-25.5	296407	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-148 Dup.	6/21/01	10.5-25.5	296408	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				3,040	NA	NA	5.0	NA	NA	0.289[2]	NA	NA	64[2]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				10,220	NA	NA	98.6	NA	NA	46.1[2]	NA	NA	1,020[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene
MW-10-1	3/28/94	7-17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10-1	10/5/94	7-17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10-1	7/14/95	7-17	W5070191-13	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-10-1	2/5/97	7-17	W7020074-01	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-10-1	11/23/99	7-17	253788	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-10-1 Dup	11/23/99	7-17	253812	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-10-1	2/29/00	7-17	260586	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-10-1	11/8/00	7-17	280650	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-132	9/1992	10-20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CH151-MW132	5/27/93	NA	69681	NA	NA	<20	<20	<20	<20	<200	<20	<200	NA
MW-132	7/14/95	10-20	W5070191-09	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-132	2/5/97	10-20	W7020074-02	NA	NA	<120	<120	<120	<120	<250	<120	<250	NA
MW-132	11/23/99	10-20	253791	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-132	2/28/00	10-20	260589	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-133	9/1992	8-18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CH151-MW133	5/27/93	NA	69680	NA	NA	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<10	NA
MW-133	9/11/95	8-18	W5090134-01	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	NA
MW-133	2/5/97	8-18	W7020074-03	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-133	11/23/99	8-18	253798	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-133	2/28/00	8-18	260596	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-135	9/1992	10-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CH151-MW135	5/27/93	NA	69679	NA	NA	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<10	NA
CH151-MW235 (MW135 Dup)	5/27/93	NA	69678	NA	NA	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<10	NA
MW-135	7/14/95	10-20	W5070191-14	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-135	2/5/97	10-20	W7020074-04	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-135	11/23/99	10-20	253802	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-135	2/29/00	10-20	260574	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-135	11/8/00	10-20	280651	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-135	6/20/01	10-20	296393	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
CH151-MW145-SO1	6/4/93	NA	69941	NA	NA	<5	<5	<5	<5	<50	<5	<50	NA
MW-145	7/14/95	17.5-27.5	W5070191-10	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-145	2/5/97	17.5-27.5	W7020074-05	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-145	11/23/99	17.5-27.5	253799	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-145 Dup	11/23/99	17.5-27.5	253813	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-145	2/29/00	17.5-27.5	260597	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-145	11/8/00	17.5-27.5	280652	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-145	6/21/01	17.5-27.5	296418	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
CH151-MW-146-SO1	6/4/93	NA	69942	NA	NA	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<10	NA
MW-146	7/14/95	15-25	W5070191-11	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-146	2/5/97	15-25	W7020074-06	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-146	11/23/99	15-25	253800	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-146	2/29/00	15-25	260572	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-146	11/8/00	15-25	280684	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-146	6/21/01	15-25	296419	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
CH151-MW147-SO1	6/4/93	NA	69943	NA	NA	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<10	NA
MW-147	7/14/95	20-30	W5070191-08	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-147	2/5/97	20-30	W7020074-07	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-147	11/23/99	20-30	253790	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-147	2/28/00	20-30	260588	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-147	11/8/00	20-30	280685	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-147	6/21/01	20-30	296409	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
CH151-MW148-SO1	6/4/93	NA	69944	NA	NA	<80	<80	<80	<80	<800	<80	<800	NA
MW-148	7/14/95	10.5-25.5	W5070191-07	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-148	2/5/97	10.5-25.5	W7020074-08	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-148	11/23/99	10.5-25.5	253792	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-148	2/28/00	10.5-25.5	260583	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-148 Dup.	2/28/00	10.5-25.5	260568	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-148	11/8/00	10.5-25.5	280686	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-148 Dup.	11/8/00	10.5-25.5	280687	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-148	6/21/01	10.5-25.5	296407	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-148 Dup.	6/21/01	10.5-25.5	296408	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				64[2]	64[2]	1,060[2]	NA	112[2]	NA	23,161	100	NA	NA
Tier II Non-Residential Cleanup Goals - Groundwater [1]				1,020[2]	1,020[2]	10,200[2]	NA	2,040[2]	NA	NA	468.9	NA	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	4-Chlorotoluene	2-Chloroethyl vinyl ether	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane
MW-10-1	3/28/94	7-17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10-1	10/5/94	7-17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10-1	7/14/95	7-17	W5070191-13	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-10-1	2/5/97	7-17	W7020074-01	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-10-1	11/23/99	7-17	253788	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-10-1 Dup	11/23/99	7-17	253812	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-10-1	2/29/00	7-17	260586	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-10-1	11/8/00	7-17	280650	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-132	9/1992	10-20		NA	NA	NA	NA	NA	NA	NA	NA	NA
CH151-MW132	5/27/93	NA	69681	NA	<100	<200	<20	<200	<20	<20	<20	<200
MW-132	7/14/95	10-20	W5070191-09	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-132	2/5/97	10-20	W7020074-02	NA	<250	NA	NA	NA	<250	<250	<250	NA
MW-132	11/23/99	10-20	253791	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-132	2/28/00	10-20	260589	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-133	9/1992	8-18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CH151-MW133	5/27/93	NA	69680	NA	<5.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<10
MW-133	9/11/95	8-18	W5090134-01	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-133	2/5/97	8-18	W7020074-03	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-133	11/23/99	8-18	253798	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-133	2/28/00	8-18	260596	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-135	9/1992	10-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CH151-MW135	5/27/93	NA	69679	NA	<5.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<10
CH151-MW235 (MW135 Dup)	5/27/93	NA	69678	NA	<5.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<10
MW-135	7/14/95	10-20	W5070191-14	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-135	2/5/97	10-20	W7020074-04	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-135	11/23/99	10-20	253802	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-135	2/29/00	10-20	260574	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-135	11/8/00	10-20	280651	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-135	6/20/01	10-20	296393	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
CH151-MW145-SO1	6/4/93	NA	69941	NA	<20	<50	<5	<50	<5	<5	<5	<50
MW-145	7/14/95	17.5-27.5	W5070191-10	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-145	2/5/97	17.5-27.5	W7020074-05	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-145	11/23/99	17.5-27.5	253799	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-145 Dup	11/23/99	17.5-27.5	253813	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-145	2/29/00	17.5-27.5	260597	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-145	11/8/00	17.5-27.5	280652	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-145	6/21/01	17.5-27.5	296418	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
CH151-MW-146-SO1	6/4/93	NA	69942	NA	<5.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<10
MW-146	7/14/95	15-25	W5070191-11	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-146	2/5/97	15-25	W7020074-06	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-146	11/23/99	15-25	253800	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-146	2/29/00	15-25	260572	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-146	11/8/00	15-25	280684	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-146	6/21/01	15-25	296419	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
CH151-MW147-SO1	6/4/93	NA	69943	NA	<5.0	<10	<1.0	<10	<1.0	<1.0	<1.0	<10
MW-147	7/14/95	20-30	W5070191-08	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-147	2/5/97	20-30	W7020074-07	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-147	11/23/99	20-30	253790	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-147	2/28/00	20-30	260588	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-147	11/8/00	20-30	280685	<5.0	<50	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-147	6/21/01	20-30	296409	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
CH151-MW148-SO1	6/4/93	NA	69944	NA	<400	<800	<80	<800	<80	<80	<80	<800
MW-148	7/14/95	10.5-25.5	W5070191-07	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-148	2/5/97	10.5-25.5	W7020074-08	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-148	11/23/99	10.5-25.5	253792	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-148	2/28/00	10.5-25.5	260583	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-148 Dup.	2/28/00	10.5-25.5	260568	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-148	11/8/00	10.5-25.5	280686	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-148 Dup.	11/8/00	10.5-25.5	280687	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-148	6/21/01	10.5-25.5	296407	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-148 Dup.	6/21/01	10.5-25.5	296408	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
Tier II Residential Cleanup Goals - Groundwater [1]				NA	NA	NA	NA	NA	600	600	75	NA
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	NA	NA	NA	NA	9,198	NA	119.2	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	trans-1,4-Dichloro-2-butene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene
MW-10-1	3/28/94	7-17	NA	NA	<100	NA	NA	160*	160*	NA	NA	NA	NA
MW-10-1	10/5/94	7-17	NA	NA	ND	NA	NA	ND	ND	NA	NA	NA	NA
MW-10-1	7/14/95	7-17	W5070191-13	NA	<5.0	<5.0	<5.0	190	5.9	<5.0	NA	NA	NA
MW-10-1	2/5/97	7-17	W7020074-01	NA	<5.0	<5.0	<5.0	120	<5.0	<5.0	NA	NA	NA
MW-10-1	11/23/99	7-17	253788	<50	<5.0	<5.0	<5.0	180	8.3	<5.0	<5.0	<5.0	<5.0
MW-10-1 Dup	11/23/99	7-17	253812	<50	<5.0	<5.0	<5.0	190	9.2	<5.0	<5.0	<5.0	<5.0
MW-10-1	2/29/00	7-17	260586	<50	<5.0	<5.0	<5.0	160	6.5	<5.0	<5.0	<5.0	<5.0
MW-10-1	11/8/00	7-17	280650	<50	<5.0	<5.0	<5.0	200	7.6	<5.0	<5.0	<5.0	<5.0
MW-132	9/1992	10-20		NA	<50	NA	NA	1,500*	1,500*	NA	NA	NA	NA
CH151-MW132	5/27/93	NA	69681	NA	<20	<20	<20	2,400	<20	<20	NA	NA	NA
MW-132	7/14/95	10-20	W5070191-09	NA	<5.0	<5.0	<5.0	5,100	15	<5.0	NA	NA	NA
MW-132	2/5/97	10-20	W7020074-02	NA	<120	<120	<120	65,000	<120	<120	NA	NA	NA
MW-132	11/23/99	10-20	253791	<50	<5.0	<5.0	<5.0	990	18	<5.0	<5.0	<5.0	<5.0
MW-132	2/28/00	10-20	260589	<50	<5.0	<5.0	<5.0	23,000	330	<5.0	<5.0	<5.0	<5.0
MW-133	9/1992	8-18	NA	NA	<5	NA	NA	81*	81*	NA	NA	NA	NA
CH151-MW133	5/27/93	NA	69680	NA	<1.0	<1.0	<1.0	56	1.4	<1.0	NA	NA	NA
MW-133	9/11/95	8-18	W5090134-01	NA	<5.0	<5.0	<5.0	70	<5.0	<5.0	NA	NA	NA
MW-133	2/5/97	8-18	W7020074-03	NA	<5.0	<5.0	<5.0	100	<5.0	<5.0	NA	NA	NA
MW-133	11/23/99	8-18	253798	<50	<5.0	<5.0	<5.0	130	<5.0	<5.0	<5.0	<5.0	<5.0
MW-133	2/28/00	8-18	260596	<50	<5.0	<5.0	<5.0	170	<5.0	<5.0	<5.0	<5.0	<5.0
MW-135	9/1992	10-20	NA	NA	<5	NA	NA	<5	<5	NA	NA	NA	NA
CH151-MW135	5/27/93	NA	69679	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
CH151-MW235 (MW135 Dup)	5/27/93	NA	69678	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
MW-135	7/14/95	10-20	W5070191-14	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA
MW-135	2/5/97	10-20	W7020074-04	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA
MW-135	11/23/99	10-20	253802	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-135	2/29/00	10-20	260574	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-135	11/8/00	10-20	280651	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-135	6/20/01	10-20	296393	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CH151-MW145-SO1	6/4/93	NA	69941	NA	<5	<5	<5	440	<5	<5	NA	NA	NA
MW-145	7/14/95	17.5-27.5	W5070191-10	NA	<5.0	<5.0	<5.0	530	<5.0	<5.0	NA	NA	NA
MW-145	2/5/97	17.5-27.5	W7020074-05	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA
MW-145	11/23/99	17.5-27.5	253799	<50	<5.0	<5.0	<5.0	770	14	<5.0	<5.0	<5.0	<5.0
MW-145 Dup	11/23/99	17.5-27.5	253813	<50	<5.0	<5.0	<5.0	850	13	<5.0	<5.0	<5.0	<5.0
MW-145	2/29/00	17.5-27.5	260597	<50	<5.0	<5.0	<5.0	850 E	8.7 E	<5.0	<5.0	<5.0	<5.0
MW-145	11/8/00	17.5-27.5	280652	<50	<5.0	<5.0	<5.0	710	<5.0	<5.0	<5.0	<5.0	<5.0
MW-145	6/21/01	17.5-27.5	296418	<50	<5.0	<5.0	<5.0	630	5.5	<5.0	<5.0	<5.0	<5.0
CH151-MW-146-SO1	6/4/93	NA	69942	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
MW-146	7/14/95	15-25	W5070191-11	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA
MW-146	2/5/97	15-25	W7020074-06	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA
MW-146	11/23/99	15-25	253800	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-146	2/29/00	15-25	260572	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-146	11/8/00	15-25	280684	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-146	6/21/01	15-25	296419	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CH151-MW147-SO1	6/4/93	NA	69943	NA	<1.0	<1.0	<1.0	140	<1.0	<1.0	NA	NA	NA
MW-147	7/14/95	20-30	W5070191-08	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA
MW-147	2/5/97	20-30	W7020074-07	NA	<5.0	<5.0	<5.0	95	<5.0	<5.0	NA	NA	NA
MW-147	11/23/99	20-30	253790	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-147	2/28/00	20-30	260588	<50	<5.0	<5.0	<5.0	7.3	<5.0	<5.0	<5.0	<5.0	<5.0
MW-147	11/8/00	20-30	280685	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-147	6/21/01	20-30	296409	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CH151-MW148-SO1	6/4/93	NA	69944	NA	<80	<80	<80	19,000	<80	<80	NA	NA	NA
MW-148	7/14/95	10.5-25.5	W5070191-07	NA	23	<5.0	<5.0	1,400	12	<5.0	NA	NA	NA
MW-148	2/5/97	10.5-25.5	W7020074-08	NA	<5.0	<5.0	<5.0	73	<5.0	<5.0	NA	NA	NA
MW-148	11/23/99	10.5-25.5	253792	<50	11	<5.0	5.2	1,200	24	<5.0	<5.0	<5.0	<5.0
MW-148	2/28/00	10.5-25.5	260583	<50	6.7	<5.0	<5.0	1,200	11	<5.0	<5.0	<5.0	<5.0
MW-148 Dup.	2/28/00	10.5-25.5	260568	<50	8.5	<5.0	<5.0	1,600	20	<5.0	<5.0	<5.0	<5.0
MW-148	11/8/00	10.5-25.5	280686	<50	<5.0	<5.0	<5.0	440	<5.0	<5.0	<5.0	<5.0	<5.0
MW-148 Dup.	11/8/00	10.5-25.5	280687	<50	<5.0	<5.0	<5.0	450	<5.0	<5.0	<5.0	<5.0	<5.0
MW-148	6/21/01	10.5-25.5	296407	<50	7.1	<5.0	<5.0	1,100	10	<5.0	<5.0	<5.0	<5.0
MW-148 Dup.	6/21/01	10.5-25.5	296408	<50	7.3	<5.0	<5.0	1,100	11	<5.0	<5.0	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	640	5.0	7.0	70	128[2]	NA	NA	NA	0.850[2]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	10,220	31.4	7.0	1,022	2,040[2]	NA	NA	NA	28.6[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethyl Acetate	Ethylbenzene	Ethyl methacrylate	2-Hexanone	Hexachlorobutadiene	Iodomethane	Isopropylbenzene	p-Isopropyltoluene
MW-10-1	3/28/94	7-17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10-1	10/5/94	7-17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10-1	7/14/95	7-17	W5070191-13	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-10-1	2/5/97	7-17	W7020074-01	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-10-1	11/23/99	7-17	253788	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-10-1 Dup	11/23/99	7-17	253812	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-10-1	2/29/00	7-17	260586	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-10-1	11/8/00	7-17	280650	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-132	9/1992	10-20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CH151-MW132	5/27/93	NA	69681	<20	<20	<200	<20	<200	<200	NA	<200	NA	NA
MW-132	7/14/95	10-20	W5070191-09	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-132	2/5/97	10-20	W7020074-02	<120	<120	NA	<120	NA	<500	NA	NA	NA	NA
MW-132	11/23/99	10-20	253791	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-132	2/28/00	10-20	260589	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-133	9/1992	8-18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CH151-MW133	5/27/93	NA	69680	<1.0	<1.0	<10	<1.0	<10	<10	NA	<10	NA	NA
MW-133	9/11/95	8-18	W5090134-01	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-133	2/5/97	8-18	W7020074-03	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-133	11/23/99	8-18	253798	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-133	2/28/00	8-18	260596	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-135	9/1992	10-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CH151-MW135	5/27/93	NA	69679	<1.0	<1.0	<10	<1.0	<10	<10	NA	<10	NA	NA
CH151-MW235 (MW135 Dup)	5/27/93	NA	69678	<1.0	<1.0	<10	<1.0	<10	<10	NA	<10	NA	NA
MW-135	7/14/95	10-20	W5070191-14	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-135	2/5/97	10-20	W7020074-04	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-135	11/23/99	10-20	253802	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-135	2/29/00	10-20	260574	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-135	11/8/00	10-20	280651	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-135	6/20/01	10-20	296393	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
CH151-MW145-SO1	6/4/93	NA	69941	<5	<5	<50	<5	<50	<50	NA	<50	NA	NA
MW-145	7/14/95	17.5-27.5	W5070191-10	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-145	2/5/97	17.5-27.5	W7020074-05	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-145	11/23/99	17.5-27.5	253799	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-145 Dup	11/23/99	17.5-27.5	253813	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-145	2/29/00	17.5-27.5	260597	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-145	11/8/00	17.5-27.5	280652	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-145	6/21/01	17.5-27.5	296418	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
CH151-MW-146-SO1	6/4/93	NA	69942	<1.0	<1.0	<10	<1.0	<10	<10	NA	<10	NA	NA
MW-146	7/14/95	15-25	W5070191-11	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-146	2/5/97	15-25	W7020074-06	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-146	11/23/99	15-25	253800	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-146	2/29/00	15-25	260572	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-146	11/8/00	15-25	280684	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-146	6/21/01	15-25	296419	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
CH151-MW147-SO1	6/4/93	NA	69943	<1.0	<1.0	<10	<1.0	<10	<10	NA	<10	NA	NA
MW-147	7/14/95	20-30	W5070191-08	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-147	2/5/97	20-30	W7020074-07	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-147	11/23/99	20-30	253790	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-147	2/28/00	20-30	260588	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-147	11/8/00	20-30	280685	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-147	6/21/01	20-30	296409	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
CH151-MW148-SO1	6/4/93	NA	69944	<80	<80	<800	<80	<800	<800	NA	<800	NA	NA
MW-148	7/14/95	10.5-25.5	W5070191-07	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-148	2/5/97	10.5-25.5	W7020074-08	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-148	11/23/99	10.5-25.5	253792	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-148	2/28/00	10.5-25.5	260583	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-148 Dup.	2/28/00	10.5-25.5	260568	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-148	11/8/00	10.3-25.5	280686	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-148 Dup.	11/8/00	10.5-25.5	280687	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-148	6/21/01	10.5-25.5	296407	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-148 Dup.	6/21/01	10.5-25.5	296408	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	NA	NA	700	NA	NA	10	NA	689[2]	445[2]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	NA	NA	10,220	NA	NA	36.7	NA	10,200[2]	10,200[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Methylene chloride	Methyl-ethyl-ketone (MEK)	Methyl-tert-butyl ether (MTBE)	Paraldehyde	4-Methyl-2-pentanone (MIBK)	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane
MW-10-1	3/28/94	7-17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10-1	10/5/94	7-17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10-1	7/14/95	7-17	W5070191-13	<5	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-10-1	2/5/97	7-17	W7020074-01	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-10-1	11/23/99	7-17	253788	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-10-1 Dup	11/23/99	7-17	253812	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-10-1	2/29/00	7-17	260586	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-10-1	11/8/00	7-17	280650	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-132	9/1992	10-20		NA	NA	NA	NA	NA	NA	NA	NA	NA
CH151-MW132	5/27/93	NA	69681	<200	<200	NA	<200	<200	NA	NA	<20	NA
MW-132	7/14/95	10-20	W5070191-09	<5	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-132	2/5/97	10-20	W7020074-02	<120	<500	NA	NA	<500	NA	NA	<120	NA
MW-132	11/23/99	10-20	253791	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-132	2/28/00	10-20	260589	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-133	9/1992	8-18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CH151-MW133	5/27/93	NA	69680	<10	<10	NA	<10	<10	NA	NA	<1.0	NA
MW-133	9/11/95	8-18	W5090134-01	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-133	2/5/97	8-18	W7020074-03	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-133	11/23/99	8-18	253798	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-133	2/28/00	8-18	260596	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-135	9/1992	10-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CH151-MW135	5/27/93	NA	69679	<10	<10	NA	<10	<10	NA	NA	<1.0	NA
CH151-MW235 (MW135 Dup)	5/27/93	NA	69678	<10	<10	NA	<10	<10	NA	NA	<1.0	NA
MW-135	7/14/95	10-20	W5070191-14	<5	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-135	2/5/97	10-20	W7020074-04	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-135	11/23/99	10-20	253802	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-135	2/29/00	10-20	260574	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-135	11/8/00	10-20	280651	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-135	6/20/01	10-20	296393	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
CH151-MW145-SO1	6/4/93	NA	69941	<50	<50	NA	<50	<50	NA	NA	<5	NA
MW-145	7/14/95	17.5-27.5	W5070191-10	<5	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-145	2/5/97	17.5-27.5	W7020074-05	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-145	11/23/99	17.5-27.5	253799	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-145 Dup	11/23/99	17.5-27.5	253813	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-145	2/29/00	17.5-27.5	260597	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-145	11/8/00	17.5-27.5	280652	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-145	6/21/01	17.5-27.5	296418	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
CH151-MW-146-SO1	6/4/93	NA	69942	<10	<10	NA	<10	<10	NA	NA	<1.0	NA
MW-146	7/14/95	15-25	W5070191-11	<5	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-146	2/5/97	15-25	W7020074-06	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-146	11/23/99	15-25	253800	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-146	2/29/00	15-25	260572	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-146	11/8/00	15-25	280684	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-146	6/21/01	15-25	296419	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
CH151-MW147-SO1	6/4/93	NA	69943	<10	<10	NA	<10	<10	NA	NA	<1.0	NA
MW-147	7/14/95	20-30	W5070191-08	<5	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-147	2/5/97	20-30	W7020074-07	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-147	11/23/99	20-30	253790	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-147	2/28/00	20-30	260588	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-147	11/8/00	20-30	280685	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-147	6/21/01	20-30	296409	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
CH151-MW148-SO1	6/4/93	NA	69944	<800	<800	NA	<800	<800	NA	NA	<80	NA
MW-148	7/14/95	10.5-25.5	W5070191-07	<5	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-148	2/5/97	10.5-25.5	W7020074-08	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-148	11/23/99	10.5-25.5	253792	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-148	2/28/00	10.5-25.5	260583	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-148 Dup.	2/28/00	10.5-25.5	260568	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-148	11/8/00	10.5-25.5	280686	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-148 Dup.	11/8/00	10.5-25.5	280687	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-148	6/21/01	10.5-25.5	296407	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-148 Dup.	6/21/01	10.5-25.5	296408	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				6.30[2]	917.72	45	NA	1,520	1,216	64[2]	NA	5
Tier II Non-Residential Cleanup Goals - Groundwater [1]				381[2]	5,110	715	NA	5,110	4,088	1,020[2]	NA	110

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane
MW-10-1	3/28/94	7-17	NA	NA	NA	NA	NA	NA	NA	NA	NA	880	NA
MW-10-1	10/5/94	7-17	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,600	NA
MW-10-1	7/14/95	7-17	W5070191-13	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	1,800	NA
MW-10-1	2/5/97	7-17	W7020074-01	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	810	NA
MW-10-1	11/23/99	7-17	253788	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	1,000	<5.0
MW-10-1 Dup	11/23/99	7-17	253812	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	1,100	<5.0
MW-10-1	2/29/00	7-17	260586	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	960	<5.0
MW-10-1	11/8/00	7-17	280650	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	1,100	<5.0
MW-132	9/1992	10-20		NA	NA	NA	NA	NA	NA	NA	NA	280	NA
CH151-MW132	5/27/93	NA	69681	<20	<20	<200	<20	NA	NA	<20	<20	1,900	<20
MW-132	7/14/95	10-20	W5070191-09	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	1,700	NA
MW-132	2/5/97	10-20	W7020074-02	<120	<120	NA	<120	NA	NA	<120	<120	15,000	NA
MW-132	11/23/99	10-20	253791	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	270	<5.0
MW-132	2/28/00	10-20	260589	<5.0	13	NA	<5.0	<5.0	<5.0	<5.0	<5.0	2,900	<5.0
MW-133	9/1992	8-18	NA	NA	NA	NA	NA	NA	NA	NA	NA	47	NA
CH151-MW133	5/27/93	NA	69680	<1.0	<1.0	<10	<1.0	NA	NA	<1.0	<1.0	24	<1.0
MW-133	9/11/95	8-18	W5090134-01	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	23	NA
MW-133	2/5/97	8-18	W7020074-03	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	53	NA
MW-133	11/23/99	8-18	253798	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	57	<5.0
MW-133	2/28/00	8-18	260596	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	110	<5.0
MW-135	9/1992	10-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA
CH151-MW135	5/27/93	NA	69679	<1.0	<1.0	<10	<1.0	NA	NA	<1.0	<1.0	<1.0	<1.0
CH151-MW235 (MW135 Dup)	5/27/93	NA	69678	<1.0	<1.0	<10	<1.0	NA	NA	<1.0	<1.0	<1.0	<1.0
MW-135	7/14/95	10-20	W5070191-14	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	<5.0	NA
MW-135	2/5/97	10-20	W7020074-04	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	<5.0	NA
MW-135	11/23/99	10-20	253802	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-135	2/29/00	10-20	260574	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-135	11/8/00	10-20	280651	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-135	6/20/01	10-20	296393	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CH151-MW145-SO1	6/4/93	NA	69941	<5	<5	<50	<5	NA	NA	<5	<5	9.8	<5
MW-145	7/14/95	17.5-27.5	W5070191-10	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	5.6	NA
MW-145	2/5/97	17.5-27.5	W7020074-05	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	43	NA
MW-145	11/23/99	17.5-27.5	253799	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-145 Dup	11/23/99	17.5-27.5	253813	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-145	2/29/00	17.5-27.5	260597	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-145	11/8/00	17.5-27.5	280652	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-145	6/21/01	17.5-27.5	296418	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CH151-MW-146-SO1	6/4/93	NA	69942	<1.0	<1.0	<10	<1.0	NA	NA	<1.0	<1.0	83	<1.0
MW-146	7/14/95	15-25	W5070191-11	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	52	NA
MW-146	2/5/97	15-25	W7020074-06	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	43	NA
MW-146	11/23/99	15-25	253800	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	69	<5.0
MW-146	2/29/00	15-25	260572	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	67	<5.0
MW-146	11/8/00	15-25	280684	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	70	<5.0
MW-146	6/21/01	15-25	296419	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	62	<5.0
CH151-MW147-SO1	6/4/93	NA	69943	<1.0	<1.0	<10	<1.0	NA	NA	<1.0	<1.0	39	<1.0
MW-147	7/14/95	20-30	W5070191-08	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	<5.0	NA
MW-147	2/5/97	20-30	W7020074-07	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	51	NA
MW-147	11/23/99	20-30	253790	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-147	2/28/00	20-30	260588	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-147	11/8/00	20-30	280685	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-147	6/21/01	20-30	296409	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CH151-MW148-SO1	6/4/93	NA	69944	<80	<80	<800	<80	NA	NA	<80	<80	4,900	<80
MW-148	7/14/95	10.5-25.5	W5070191-07	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	410	NA
MW-148	2/5/97	10.5-25.5	W7020074-08	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	<5.0	NA
MW-148	11/23/99	10.5-25.5	253792	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	310	<5.0
MW-148	2/28/00	10.5-25.5	260583	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	300	<5.0
MW-148 Dup.	2/28/00	10.5-25.5	260568	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	400	<5.0
MW-148	11/8/00	10.5-25.5	280686	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	190	<5.0
MW-148 Dup.	11/8/00	10.5-25.5	280687	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	160	<5.0
MW-148	6/21/01	10.5-25.5	296407	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	340	<5.0
MW-148 Dup.	6/21/01	10.5-25.5	296408	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	360	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				5	5	NA	1,000	NA	70	200	5	5	1,380[2]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				14.3	56.1	NA	20,440	NA	1,022	9,198	50.2	260	30,700[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	Vinyl chloride	Xylenes, (Total)
MW-10-1	3/28/94	7-17	NA	NA	NA	NA	NA	<100	NA
MW-10-1	10/5/94	7-17	NA	NA	NA	NA	NA	NA	NA
MW-10-1	7/14/95	7-17	W5070191-13	NA	NA	NA	<20	<10	<5.0
MW-10-1	2/5/97	7-17	W7020074-01	NA	NA	NA	<20	<10	<5.0
MW-10-1	11/23/99	7-17	253788	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-10-1 Dup	11/23/99	7-17	253812	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-10-1	2/29/00	7-17	260586	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-10-1	11/8/00	7-17	280650	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-132	9/1992	10-20		NA	NA	NA	NA	1,200	NA
CH151-MW132	5/27/93	NA	69681	<200	NA	NA	<200	<100	<20
MW-132	7/14/95	10-20	W5070191-09	NA	NA	NA	<20	600	<5.0
MW-132	2/5/97	10-20	W7020074-02	NA	NA	NA	<500	<250	<120
MW-132	11/23/99	10-20	253791	<5.0	<5.0	<5.0	<10.	580	<5.0
MW-132	2/28/00	10-20	260589	<5.0	<5.0	<5.0	<10.	13	<5.0
MW-133	9/1992	8-18	NA	NA	NA	NA	NA	<10	NA
CH151-MW133	5/27/93	NA	69680	<10	NA	NA	<10	5.3	<1.0
MW-133	9/11/95	8-18	W5090134-01	NA	NA	NA	<20	<10	<5.0
MW-133	2/5/97	8-18	W7020074-03	NA	NA	NA	<20	<10	<5.0
MW-133	11/23/99	8-18	253798	<5.0	<5.0	<5.0	<10.	7	<5.0
MW-133	2/28/00	8-18	260596	<5.0	<5.0	<5.0	<10	6.7	<5.0
MW-135	9/1992	10-20	NA	NA	NA	NA	NA	<10	NA
CH151-MW135	5/27/93	NA	69679	<10	NA	NA	<10	<5	<1.0
CH151-MW235 (MW135 Dup)	5/27/93	NA	69678	<10	NA	NA	<10	<5	<1.0
MW-135	7/14/95	10-20	W5070191-14	NA	NA	NA	<20	<10	<5.0
MW-135	2/5/97	10-20	W7020074-04	NA	NA	NA	<20	<10	<5.0
MW-135	11/23/99	10-20	253802	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-135	2/29/00	10-20	260574	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-135	11/8/00	10-20	280651	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-135	6/20/01	10-20	296393	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
CH151-MW145-SO1	6/4/93	NA	69941	<50	NA	NA	<50	<20	<5
MW-145	7/14/95	17.5-27.5	W5070191-10	NA	NA	NA	<20	12	<5.0
MW-145	2/5/97	17.5-27.5	W7020074-05	NA	NA	NA	<20	<10	<5.0
MW-145	11/23/99	17.5-27.5	253799	<5.0	<5.0	<5.0	<10.	28	<5.0
MW-145 Dup	11/23/99	17.5-27.5	253813	<5.0	<5.0	<5.0	<10.	31	<5.0
MW-145	2/29/00	17.5-27.5	260597	<5.0	<5.0	<5.0	<10.	36 E	<5.0
MW-145	11/8/00	17.5-27.5	280652	<5.0	<5.0	<5.0	<10.	18	<5.0
MW-145	6/21/01	17.5-27.5	296418	<5.0	<5.0	<5.0	<10.	170	<5.0
CH151-MW-146-SO1	6/4/93	NA	69942	<10	NA	NA	<10	<5	<1.0
MW-146	7/14/95	15-25	W5070191-11	NA	NA	NA	<20	<10	<5.0
MW-146	2/5/97	15-25	W7020074-06	NA	NA	NA	<20	<10	<5.0
MW-146	11/23/99	15-25	253800	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-146	2/29/00	15-25	260572	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-146	11/8/00	15-25	280684	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-146	6/21/01	15-25	296419	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
CH151-MW147-SO1	6/4/93	NA	69943	<10	NA	NA	<10	42	<1.0
MW-147	7/14/95	20-30	W5070191-08	NA	NA	NA	<20	<10	<5.0
MW-147	2/5/97	20-30	W7020074-07	NA	NA	NA	<20	<10	<5.0
MW-147	11/23/99	20-30	253790	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-147	2/28/00	20-30	260588	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-147	11/8/00	20-30	280685	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-147	6/21/01	20-30	296409	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
CH151-MW148-SO1	6/4/93	NA	69944	<800	NA	NA	<800	490	<80
MW-148	7/14/95	10.5-25.5	W5070191-07	NA	NA	NA	<20	92	<5.0
MW-148	2/5/97	10.5-25.5	W7020074-08	NA	NA	NA	<20	<10	<5.0
MW-148	11/23/99	10.5-25.5	253792	<5.0	<5.0	<5.0	<10.	200	<5.0
MW-148	2/28/00	10.5-25.5	260583	<5.0	<5.0	<5.0	<10.	180	<5.0
MW-148 Dup.	2/28/00	10.5-25.5	260568	<5.0	<5.0	<5.0	<10.	270	<5.0
MW-148	11/8/00	10.5-25.5	280686	<5.0	<5.0	<5.0	<10.	35	<5.0
MW-148 Dup.	11/8/00	10.5-25.5	280687	<5.0	<5.0	<5.0	<10.	39	<5.0
MW-148	6/21/01	10.5-25.5	296407	<5.0	<5.0	<5.0	<10.	50	<5.0
MW-148 Dup.	6/21/01	10.5-25.5	296408	<5.0	<5.0	<5.0	<10.	59	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	13.7[2]	13.7[2]	NA	2	10,000
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	5,110[2]	5,110[2]	NA	10	204,400

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	n-Butylbenzene
MW-150	7/17/95	4-19	W5070229-01	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-150	2/5/97	4-19	W7020074-09	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-150	11/23/99	4-19	253803	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-150	2/29/00	4-19	260575	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-150	11/8/00	4-19	280688	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-150	6/20/01	4-19	296390	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-151	7/14/95	5-20	W5070191-03	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-151	2/6/97	5-20	W7020074-13	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-151	11/23/99	5-20	253809	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-151	2/29/00	5-20	260579	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-151	11/8/00	5-20	280689	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-151	6/20/01	5-20	296398	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-152	7/14/95	5-20	W5070191-01	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-152	2/5/97	5-20	W7020074-10	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-152	11/23/99	5-20	253801	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-152	2/29/00	5-20	260573	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-152	11/8/00	5-20	280690	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-152	6/20/01	5-20	296401	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-153	7/14/95	4.5-19.5	W5070191-02	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-153	2/6/97	4.5-19.5	W7020074-14	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-153 Dup	2/6/97	4.5-19.5	W7020074-23	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-153	11/23/99	4.5-19.5	253796	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-153	2/28/00	4.5-19.5	260594	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-153	11/8/00	4.5-19.5	280691	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-153	6/21/01	4.5-19.5	296404	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-153 Dup.	6/21/01	4.5-19.5	296405	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-154	7/14/95	5-20	W5070191-12	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-154	2/5/97	5-20	W7020074-11	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-154	11/23/99	5-20	253789	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-154	2/28/00	5-20	260587	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-154	11/8/00	5-20	280692	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-154	6/21/01	5-20	296410	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-155	9/11/95	14-29	W5090134-02	<200	NA	NA	<50	NA	NA	<50	<50	<100	NA
MW-155	2/6/97	14-29	W7020074-15	<2,000	NA	NA	<500	NA	NA	<500	<500	<1,000	NA
MW-155	11/23/99	14-29	253793	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-155	2/28/00	14-29	260591	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-155	11/8/00	14-29	280693	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-155	6/21/01	14-29	296414	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-156	9/11/95	5-20	W5090134-03	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-156	2/6/97	5-20	W7020074-16	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-156 Dup	2/6/97	5-20	W7020074-24	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-156	11/23/99	5-20	253807	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-156	2/29/00	5-20	260577	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-156	11/8/00	5-20	280694	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-156	6/20/01	5-20	296402	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-157	2/6/97	5-20	W7020074-19	<200	NA	NA	<50	NA	NA	<50	<50	<100	NA
MW-157 Dup.	2/26/97	5-20	W7020396-01	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-157	2/29/00	5-20	260581	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-157	11/8/00	5-20	280695	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-157	6/21/01	5-20	296411	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-158	2/6/97	14-29	W7020074-20	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA
MW-158	11/23/99	14-29	253794	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-158	2/28/00	14-29	260592	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-158 Dup.	2/28/00	14-29	260584	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-158	11/8/00	14-29	280696	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-158	6/21/01	14-29	296415	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-159	2/28/00	NA	260585	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-159	11/7/00	NA	280697	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-159	6/21/01	NA	296412	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				3,040	NA	NA	5.0	NA	NA	0.289[2]	NA	NA	64[2]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				10,220	NA	NA	98.6	NA	NA	46.1[2]	NA	NA	1,020[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
[a]cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene
MW-150	7/17/95	4-19	W5070229-01	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	NA
MW-150	2/5/97	4-19	W7020074-09	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-150	11/23/99	4-19	253803	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-150	2/29/00	4-19	260575	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-150	11/8/00	4-19	280688	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-150	6/20/01	4-19	296390	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-151	7/14/95	5-20	W5070191-03	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-151	2/6/97	5-20	W7020074-13	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-151	11/23/99	5-20	253809	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-151	2/29/00	5-20	260579	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-151	11/8/00	5-20	280689	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-151	6/20/01	5-20	296398	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-152	7/14/95	5-20	W5070191-01	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-152	2/5/97	5-20	W7020074-10	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-152	11/23/99	5-20	253801	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-152	2/29/00	5-20	260573	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-152	11/8/00	5-20	280690	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-152	6/20/01	5-20	296401	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-153	7/14/95	4.5-19.5	W5070191-02	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-153	2/6/97	4.5-19.5	W7020074-14	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-153 Dup	2/6/97	4.5-19.5	W7020074-23	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-153	11/23/99	4.5-19.5	253796	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-153	2/28/00	4.5-19.5	260594	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-153	11/8/00	4.5-19.5	280691	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-153	6/21/01	4.5-19.5	296404	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-153 Dup.	6/21/01	4.5-19.5	296405	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-154	7/14/95	5-20	W5070191-12	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-154	2/5/97	5-20	W7020074-11	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-154	11/23/99	5-20	253789	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-154	2/28/00	5-20	260587	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-154	11/8/00	5-20	280692	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-154	6/21/01	5-20	296410	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-155	9/11/95	14-29	W5090134-02	NA	NA	<50	<50	<50	<50	<50	<50	<100	NA
MW-155	2/6/97	14-29	W7020074-15	NA	NA	<500	<500	<500	<500	<1,000	<500	<1,000	NA
MW-155	11/23/99	14-29	253793	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-155	2/28/00	14-29	260591	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-155	11/8/00	14-29	280693	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-155	6/21/01	14-29	296414	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-156	9/11/95	5-20	W5090134-03	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	NA
MW-156	2/6/97	5-20	W7020074-16	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-156 Dup	2/6/97	5-20	W7020074-24	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-156	11/23/99	5-20	253807	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-156	2/29/00	5-20	260577	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-156	11/8/00	5-20	280694	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-156	6/20/01	5-20	296402	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-157	2/6/97	5-20	W7020074-19	NA	NA	<50	<50	<50	<50	<100	<50	<100	NA
MW-157 Dup.	2/26/97	5-20	W7020396-01	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	NA
MW-157	2/29/00	5-20	260581	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-157	11/8/00	5-20	280695	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-157	6/21/01	5-20	296411	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-158	2/6/97	14-29	W7020074-20	NA	NA	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-158	11/23/99	14-29	253794	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-158	2/28/00	14-29	260592	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<20	<10.	<5.0
MW-158 Dup.	2/28/00	14-29	260584	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-158	11/8/00	14-29	280696	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-158	6/21/01	14-29	296415	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-159	2/28/00	NA	260585	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-159	11/7/00	NA	280697	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-159	6/21/01	NA	296412	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<20	<10.	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				64[2]	64[2]	1,060[2]	NA	112[2]	NA	23,161	100	NA	NA
Tier II Non-Residential Cleanup Goals - Groundwater [1]				1,020[2]	1,020[2]	10,200[2]	NA	2,040[2]	NA	NA	468.9	NA	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	4-Chlorotoluene	2-Chloroethyl vinyl ether	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane
MW-150	7/17/95	4-19	W5070229-01	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-150	2/5/97	4-19	W7020074-09	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-150	11/23/99	4-19	253803	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-150	2/29/00	4-19	260575	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-150	11/8/00	4-19	280688	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-150	6/20/01	4-19	296390	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-151	7/14/95	5-20	W5070191-03	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-151	2/6/97	5-20	W7020074-13	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-151	11/23/99	5-20	253809	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-151	2/29/00	5-20	260579	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-151	11/8/00	5-20	280689	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-151	6/20/01	5-20	296398	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-152	7/14/95	5-20	W5070191-01	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-152	2/5/97	5-20	W7020074-10	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-152	11/23/99	5-20	253801	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-152	2/29/00	5-20	260573	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-152	11/8/00	5-20	280690	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-152	6/20/01	5-20	296401	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-153	7/14/95	4.5-19.5	W5070191-02	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-153	2/6/97	4.5-19.5	W7020074-14	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-153 Dup	2/6/97	4.5-19.5	W7020074-23	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-153	11/23/99	4.5-19.5	253796	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-153	2/28/00	4.5-19.5	260594	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-153	11/8/00	4.5-19.5	280691	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-153	6/21/01	4.5-19.5	296404	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-153 Dup.	6/21/01	4.5-19.5	296405	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-154	7/14/95	5-20	W5070191-12	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-154	2/5/97	5-20	W7020074-11	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-154	11/23/99	5-20	253789	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-154	2/28/00	5-20	260587	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-154	11/8/00	5-20	280692	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-154	6/21/01	5-20	296410	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-155	9/11/95	14-29	W5090134-02	NA	<100	NA	NA	NA	<100	<100	<100	NA
MW-155	2/6/97	14-29	W7020074-15	NA	<1,000	NA	NA	NA	<1,000	<1,000	<1,000	NA
MW-155	11/23/99	14-29	253793	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-155	2/28/00	14-29	260591	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-155	11/8/00	14-29	280693	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-155	6/21/01	14-29	296414	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-156	9/11/95	5-20	W5090134-03	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-156	2/6/97	5-20	W7020074-16	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-156 Dup	2/6/97	5-20	W7020074-24	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-156	11/23/99	5-20	253807	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-156	2/29/00	5-20	260577	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-156	11/8/00	5-20	280694	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-156	6/20/01	5-20	296402	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-157	2/6/97	5-20	W7020074-19	NA	<100	NA	NA	NA	<100	<100	<100	NA
MW-157 Dup.	2/26/97	5-20	W7020396-01	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-157	2/29/00	5-20	260581	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-157	11/8/00	5-20	280695	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-157	6/21/01	5-20	296411	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-158	2/6/97	14-29	W7020074-20	NA	<10	NA	NA	NA	<10	<10	<10	NA
MW-158	11/23/99	14-29	253794	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-158	2/28/00	14-29	260592	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-158 Dup.	2/28/00	14-29	260584	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-158	11/8/00	14-29	280696	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-158	6/21/01	14-29	296415	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-159	2/28/00	NA	260585	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-159	11/7/00	NA	280697	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-159	6/21/01	NA	296412	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
Tier II Residential Cleanup Goals - Groundwater [1]				NA	NA	NA	NA	NA	600	600	75	NA
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	NA	NA	NA	NA	9,198	NA	119.2	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	trans-1,4-Dichloro-2-butene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene
MW-150	7/17/95	4-19	W5070229-01	NA	<5.0	<5.0	<5.0	6.7	<5.0	<5.0	NA	NA	NA
MW-150	2/5/97	4-19	W7020074-09	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA
MW-150	11/23/99	4-19	253803	<50	<5.0	<5.0	<5.0	14	<5.0	<5.0	<5.0	<5.0	<5.0
MW-150	2/29/00	4-19	260575	<50	<5.0	<5.0	<5.0	13	<5.0	<5.0	<5.0	<5.0	<5.0
MW-150	11/8/00	4-19	280688	<50	<5.0	<5.0	<5.0	14	<5.0	<5.0	<5.0	<5.0	<5.0
MW-150	6/20/01	4-19	296390	<50	<5.0	<5.0	<5.0	28	<5.0	<5.0	<5.0	<5.0	<5.0
MW-151	7/14/95	5-20	W5070191-03	NA	<5.0	<5.0	<5.0	74	7.4	<5.0	NA	NA	NA
MW-151	2/6/97	5-20	W7020074-13	NA	<5.0	<5.0	<5.0	20	<5.0	<5.0	NA	NA	NA
MW-151	11/23/99	5-20	253809	<50	<5.0	<5.0	<5.0	35	5.2	<5.0	<5.0	<5.0	<5.0
MW-151	2/29/00	5-20	260579	<50	<5.0	<5.0	<5.0	45	6.3	<5.0	<5.0	<5.0	<5.0
MW-151	11/8/00	5-20	280689	<50	<5.0	<5.0	<5.0	54	6.8	<5.0	<5.0	<5.0	<5.0
MW-151	6/20/01	5-20	296398	<50	<5.0	<5.0	<5.0	46	6.5	<5.0	<5.0	<5.0	<5.0
MW-152	7/14/95	5-20	W5070191-01	NA	<5.0	<5.0	<5.0	5.3	<5.0	<5.0	NA	NA	NA
MW-152	2/5/97	5-20	W7020074-10	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA
MW-152	11/23/99	5-20	253801	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-152	2/29/00	5-20	260573	<50	<5.0	<5.0	<5.0	5.1	<5.0	<5.0	<5.0	<5.0	<5.0
MW-152	11/8/00	5-20	280690	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-152	6/20/01	5-20	296401	<50	<5.0	<5.0	<5.0	7	<5.0	<5.0	<5.0	<5.0	<5.0
MW-153	7/14/95	4.5-19.5	W5070191-02	NA	<5.0	<5.0	<5.0	980	<5.0	<5.0	NA	NA	NA
MW-153	2/6/97	4.5-19.5	W7020074-14	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA
MW-153 Dup	2/6/97	4.5-19.5	W7020074-23	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA
MW-153	11/23/99	4.5-19.5	253796	<50	<5.0	<5.0	<5.0	950	19	<5.0	<5.0	<5.0	<5.0
MW-153	2/28/00	4.5-19.5	260594	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-153	11/8/00	4.5-19.5	280691	<50	<5.0	<5.0	<5.0	4,200	37	<5.0	<5.0	<5.0	<5.0
MW-153	6/21/01	4.5-19.5	296404	<50	<5.0	<5.0	<5.0	16	<5.0	<5.0	<5.0	<5.0	<5.0
MW-153 Dup.	6/21/01	4.5-19.5	296405	<50	<5.0	<5.0	<5.0	15	<5.0	<5.0	<5.0	<5.0	<5.0
MW-154	7/14/95	5-20	W5070191-12	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA
MW-154	2/5/97	5-20	W7020074-11	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA
MW-154	11/23/99	5-20	253789	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-154	2/28/00	5-20	260587	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-154	11/8/00	5-20	280692	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-154	6/21/01	5-20	296410	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-155	9/11/95	14-29	W5090134-02	NA	<50	<50	<50	180	<50	<50	NA	NA	NA
MW-155	2/6/97	14-29	W7020074-15	NA	<500	<500	<500	17,000	<500	<500	NA	NA	NA
MW-155	11/23/99	14-29	253793	<50	<5.0	<5.0	<5.0	200	<5.0	<5.0	<5.0	<5.0	<5.0
MW-155	2/28/00	14-29	260591	<50	<5.0	<5.0	<5.0	92 E	<5.0	<5.0	<5.0	<5.0	<5.0
MW-155	11/8/00	14-29	280693	<50	<5.0	<5.0	<5.0	6.5	<5.0	<5.0	<5.0	<5.0	<5.0
MW-155	6/21/01	14-29	296414	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-156	9/11/95	5-20	W5090134-03	NA	<5.0	<5.0	<5.0	30	<5.0	<5.0	NA	NA	NA
MW-156	2/6/97	5-20	W7020074-16	NA	<5.0	<5.0	<5.0	7.5	<5.0	<5.0	NA	NA	NA
MW-156 Dup	2/6/97	5-20	W7020074-24	NA	<5.0	<5.0	<5.0	6.9	<5.0	<5.0	NA	NA	NA
MW-156	11/23/99	5-20	253807	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-156	2/29/00	5-20	260577	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-156	11/8/00	5-20	280694	<50	<5.0	<5.0	<5.0	11	<5.0	<5.0	<5.0	<5.0	<5.0
MW-156	6/20/01	5-20	296402	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-157	2/6/97	5-20	W7020074-19	NA	<50	<50	<50	<50	<50	<50	NA	NA	NA
MW-157 Dup.	2/26/97	5-20	W7020396-01	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA
MW-157	2/29/00	5-20	260581	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-157	11/8/00	5-20	280695	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-157	6/21/01	5-20	296411	<50	<5.0	<5.0	<5.0	7.3	<5.0	<5.0	<5.0	<5.0	<5.0
MW-158	2/6/97	14-29	W7020074-20	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA
MW-158	11/23/99	14-29	253794	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-158	2/28/00	14-29	260592	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-158 Dup.	2/28/00	14-29	260584	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-158	11/8/00	14-29	280696	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-158	6/21/01	14-29	296415	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-159	2/28/00	NA	260585	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-159	11/7/00	NA	280697	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-159	6/21/01	NA	296412	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	640	5.0	7.0	70	128[2]	NA	NA	NA	0.850[2]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	10,220	31.4	7.0	1,022	2,040[2]	NA	NA	NA	28.6[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethyl Acetate	Ethylbenzene	Ethyl methacrylate	2-Hexanone	Hexachlorobutadiene	Iodomethane	Isopropylbenzene	p-Isopropyltoluene
MW-150	7/17/95	4-19	W5070229-01	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-150	2/5/97	4-19	W7020074-09	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-150	11/23/99	4-19	253803	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-150	2/29/00	4-19	260575	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-150	11/8/00	4-19	280688	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-150	6/20/01	4-19	296390	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-151	7/14/95	5-20	W5070191-03	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-151	2/6/97	5-20	W7020074-13	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-151	11/23/99	5-20	253809	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-151	2/29/00	5-20	260579	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-151	11/8/00	5-20	280689	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-151	6/20/01	5-20	296398	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-152	7/14/95	5-20	W5070191-01	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-152	2/5/97	5-20	W7020074-10	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-152	11/23/99	5-20	253801	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-152	2/29/00	5-20	260573	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-152	11/8/00	5-20	280690	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-152	6/20/01	5-20	296401	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-153	7/14/95	4.5-19.5	W5070191-02	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-153	2/6/97	4.5-19.5	W7020074-14	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-153 Dup	2/6/97	4.5-19.5	W7020074-23	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-153	11/23/99	4.5-19.5	253796	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-153	2/28/00	4.5-19.5	260594	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-153	11/8/00	4.5-19.5	280691	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-153	6/21/01	4.5-19.5	296404	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-153 Dup.	6/21/01	4.5-19.5	296405	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-154	7/14/95	5-20	W5070191-12	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-154	2/5/97	5-20	W7020074-11	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-154	11/23/99	5-20	253789	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-154	2/28/00	5-20	260587	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-154	11/8/00	5-20	280692	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-154	6/21/01	5-20	296410	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-155	9/11/95	14-29	W5090134-02	<50	<50	NA	<50	NA	<200	NA	NA	NA	NA
MW-155	2/6/97	14-29	W7020074-15	<500	<500	NA	<500	NA	<2,000	NA	NA	NA	NA
MW-155	11/23/99	14-29	253793	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-155	2/28/00	14-29	260591	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-155	11/8/00	14-29	280693	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-155	6/21/01	14-29	296414	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-156	9/11/95	5-20	W5090134-03	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-156	2/6/97	5-20	W7020074-16	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-156 Dup	2/6/97	5-20	W7020074-24	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-156	11/23/99	5-20	253807	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-156	2/29/00	5-20	260577	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-156	11/8/00	5-20	280694	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-156	6/20/01	5-20	296402	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-157	2/6/97	5-20	W7020074-19	<50	<50	NA	<50	NA	<200	NA	NA	NA	NA
MW-157 Dup.	2/26/97	5-20	W7020396-01	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-157	2/29/00	5-20	260581	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-157	11/8/00	5-20	280695	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-157	6/21/01	5-20	296411	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-158	2/6/97	14-29	W7020074-20	<5.0	<5.0	NA	<5.0	NA	<20	NA	NA	NA	NA
MW-158	11/23/99	14-29	253794	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-158	2/28/00	14-29	260592	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-158 Dup.	2/28/00	14-29	260584	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-158	11/8/00	14-29	280696	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-158	6/21/01	14-29	296415	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-159	2/28/00	NA	260585	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-159	11/7/00	NA	280697	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-159	6/21/01	NA	296412	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	NA	NA	700	NA	NA	10	NA	689[2]	445[2]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	NA	NA	10,220	NA	NA	36.7	NA	10,200[2]	10,200[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Methylene chloride	Methyl-ethyl-ketone (MEK)	Methyl-tert-butyl ether (MTBE)	Paraldehyde	4-Methyl-2-pentanone (MIBK)	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane
MW-150	7/17/95	4-19	W5070229-01	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-150	2/5/97	4-19	W7020074-09	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-150	11/23/99	4-19	253803	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-150	2/29/00	4-19	260575	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-150	11/8/00	4-19	280688	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-150	6/20/01	4-19	296390	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-151	7/14/95	5-20	W5070191-03	<5	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-151	2/6/97	5-20	W7020074-13	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-151	11/23/99	5-20	253809	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-151	2/29/00	5-20	260579	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-151	11/8/00	5-20	280689	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-151	6/20/01	5-20	296398	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-152	7/14/95	5-20	W5070191-01	<5	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-152	2/5/97	5-20	W7020074-10	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-152	11/23/99	5-20	253801	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-152	2/29/00	5-20	260573	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-152	11/8/00	5-20	280690	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-152	6/20/01	5-20	296401	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-153	7/14/95	4.5-19.5	W5070191-02	<5	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-153	2/6/97	4.5-19.5	W7020074-14	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-153 Dup	2/6/97	4.5-19.5	W7020074-23	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-153	11/23/99	4.5-19.5	253796	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-153	2/28/00	4.5-19.5	260594	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-153	11/8/00	4.5-19.5	280691	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-153	6/21/01	4.5-19.5	296404	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-153 Dup.	6/21/01	4.5-19.5	296405	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-154	7/14/95	5-20	W5070191-12	<5	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-154	2/5/97	5-20	W7020074-11	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-154	11/23/99	5-20	253789	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-154	2/28/00	5-20	260587	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-154	11/8/00	5-20	280692	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-154	6/21/01	5-20	296410	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-155	9/11/95	14-29	W5090134-02	<50	<200	NA	NA	<200	NA	NA	<50	NA
MW-155	2/6/97	14-29	W7020074-15	630	<2,000	NA	NA	<2,000	NA	NA	<500	NA
MW-155	11/23/99	14-29	253793	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-155	2/28/00	14-29	260591	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-155	11/8/00	14-29	280693	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-155	6/21/01	14-29	296414	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-156	9/11/95	5-20	W5090134-03	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-156	2/6/97	5-20	W7020074-16	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-156 Dup	2/6/97	5-20	W7020074-24	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-156	11/23/99	5-20	253807	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-156	2/29/00	5-20	260577	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-156	11/8/00	5-20	280694	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-156	6/20/01	5-20	296402	<10.	<50.	<10.	NA	<50	<5.0	<5.0	<5.0	<5.0
MW-157	2/6/97	5-20	W7020074-19	<50	<200	NA	NA	<200	NA	NA	<50	NA
MW-157 Dup.	2/26/97	5-20	W7020396-01	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-157	2/29/00	5-20	260581	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-157	11/8/00	5-20	280695	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-157	6/21/01	5-20	296411	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-158	2/6/97	14-29	W7020074-20	<5.0	<20	NA	NA	<20	NA	NA	<5.0	NA
MW-158	11/23/99	14-29	253794	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-158	2/28/00	14-29	260592	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-158 Dup.	2/28/00	14-29	260584	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-158	11/8/00	14-29	280696	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-158	6/21/01	14-29	296415	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-159	2/28/00	NA	260585	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-159	11/7/00	NA	280697	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-159	6/21/01	NA	296412	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				6.30[2]	917.72	45	NA	1,520	1,216	64[2]	NA	5
Tier II Non-Residential Cleanup Goals - Groundwater [1]				381[2]	5,110	715	NA	5,110	4,088	1,020[2]	NA	110

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane
MW-150	7/17/95	4-19	W5070229-01	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	65	NA
MW-150	2/5/97	4-19	W7020074-09	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	86	NA
MW-150	11/23/99	4-19	253803	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	130	<5.0
MW-150	2/29/00	4-19	260575	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	120	<5.0
MW-150	11/8/00	4-19	280688	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	86	<5.0
MW-150	6/20/01	4-19	296390	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	200	<5.0
MW-151	7/14/95	5-20	W5070191-03	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	<5.0	NA
MW-151	2/6/97	5-20	W7020074-13	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	<5.0	NA
MW-151	11/23/99	5-20	253809	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-151	2/29/00	5-20	260579	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-151	11/8/00	5-20	280689	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-151	6/20/01	5-20	296398	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-152	7/14/95	5-20	W5070191-01	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	150	NA
MW-152	2/5/97	5-20	W7020074-10	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	150	NA
MW-152	11/23/99	5-20	253801	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	110	<5.0
MW-152	2/29/00	5-20	260573	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	180	<5.0
MW-152	11/8/00	5-20	280690	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	180	<5.0
MW-152	6/20/01	5-20	296401	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	240	<5.0
MW-153	7/14/95	4.5-19.5	W5070191-02	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	570	NA
MW-153	2/6/97	4.5-19.5	W7020074-14	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	5.4	NA
MW-153 Dup	2/6/97	4.5-19.5	W7020074-23	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	<5.0	NA
MW-153	11/23/99	4.5-19.5	253796	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	330	<5.0
MW-153	2/28/00	4.5-19.5	260594	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-153	11/8/00	4.5-19.5	280691	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	250	<5.0
MW-153	6/21/01	4.5-19.5	296404	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	7.3	<5.0
MW-153 Dup.	6/21/01	4.5-19.5	296405	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	7.3
MW-154	7/14/95	5-20	W5070191-12	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	<5.0	NA
MW-154	2/5/97	5-20	W7020074-11	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	<5.0	NA
MW-154	11/23/99	5-20	253789	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-154	2/28/00	5-20	260587	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-154	11/8/00	5-20	280692	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-154	6/21/01	5-20	296410	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-155	9/11/95	14-29	W5090134-02	<50	<50	NA	<50	NA	NA	<50	<50	<50	NA
MW-155	2/6/97	14-29	W7020074-15	<500	<500	NA	<500	NA	NA	<500	<500	<500	NA
MW-155	11/23/99	14-29	253793	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-155	2/28/00	14-29	260591	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-155	11/8/00	14-29	280693	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-155	6/21/01	14-29	296414	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-156	9/11/95	5-20	W5090134-03	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	280	NA
MW-156	2/6/97	5-20	W7020074-16	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	52	NA
MW-156 Dup	2/6/97	5-20	W7020074-24	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	50	NA
MW-156	11/23/99	5-20	253807	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	48	<5.0
MW-156	2/29/00	5-20	260577	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	65	<5.0
MW-156	11/8/00	5-20	280694	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	190	<5.0
MW-156	6/20/01	5-20	296402	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	79	<5.0
MW-157	2/6/97	5-20	W7020074-19	<50	<50	NA	<50	NA	NA	<50	<50	60	NA
MW-157 Dup.	2/26/97	5-20	W7020396-01	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	100	NA
MW-157	2/29/00	5-20	260581	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	100	<5.0
MW-157	11/8/00	5-20	280695	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	120	<5.0
MW-157	6/21/01	5-20	296411	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	65	<5.0
MW-158	2/6/97	14-29	W7020074-20	<5.0	<5.0	NA	<5.0	NA	NA	<5.0	<5.0	<5.0	NA
MW-158	11/23/99	14-29	253794	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-158	2/28/00	14-29	260592	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-158 Dup.	2/28/00	14-29	260584	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-158	11/8/00	14-29	280696	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-158	6/21/01	14-29	296415	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-159	2/28/00	NA	260585	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-159	11/7/00	NA	280697	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-159	6/21/01	NA	296412	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				5	5	NA	1,000	NA	70	200	5	5	1,380[2]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				14.3	56.1	NA	20,440	NA	1,022	9,198	50.2	260	30,700[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	Vinyl chloride	Xylenes, (Total)
MW-150	7/17/95	4-19	W5070229-01	NA	NA	NA	<20	<10	<5.0
MW-150	2/5/97	4-19	W7020074-09	NA	NA	NA	<20	<10	<5.0
MW-150	11/23/99	4-19	253803	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-150	2/29/00	4-19	260575	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-150	11/8/00	4-19	280688	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-150	6/20/01	4-19	296390	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-151	7/14/95	5-20	W5070191-03	NA	NA	NA	<20	<10	<5.0
MW-151	2/6/97	5-20	W7020074-13	NA	NA	NA	<20	<10	<5.0
MW-151	11/23/99	5-20	253809	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-151	2/29/00	5-20	260579	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-151	11/8/00	5-20	280689	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-151	6/20/01	5-20	296398	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-152	7/14/95	5-20	W5070191-01	NA	NA	NA	<20	<10	<5.0
MW-152	2/5/97	5-20	W7020074-10	NA	NA	NA	<20	<10	<5.0
MW-152	11/23/99	5-20	253801	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-152	2/29/00	5-20	260573	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-152	11/8/00	5-20	280690	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-152	6/20/01	5-20	296401	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-153	7/14/95	4.5-19.5	W5070191-02	NA	NA	NA	<20	22	<5.0
MW-153	2/6/97	4.5-19.5	W7020074-14	NA	NA	NA	<20	<10	<5.0
MW-153 Dup	2/6/97	4.5-19.5	W7020074-23	NA	NA	NA	<20	<10	<5.0
MW-153	11/23/99	4.5-19.5	253796	<5.0	<5.0	<5.0	<10.	67	<5.0
MW-153	2/28/00	4.5-19.5	260594	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-153	11/8/00	4.5-19.5	280691	<5.0	<5.0	<5.0	<10.	590	<5.0
MW-153	6/21/01	4.5-19.5	296404	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-153 Dup.	6/21/01	4.5-19.5	296405	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-154	7/14/95	5-20	W5070191-12	NA	NA	NA	<20	<10	<5.0
MW-154	2/5/97	5-20	W7020074-11	NA	NA	NA	<20	<10	<5.0
MW-154	11/23/99	5-20	253789	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-154	2/28/00	5-20	260587	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-154	11/8/00	5-20	280692	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-154	6/21/01	5-20	296410	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-155	9/11/95	14-29	W5090134-02	NA	NA	NA	<200	240	<50
MW-155	2/6/97	14-29	W7020074-15	NA	NA	NA	<2,000	3,400	<500
MW-155	11/23/99	14-29	253793	<5.0	<5.0	<5.0	<10.	260	<5.0
MW-155	2/28/00	14-29	260591	<5.0	<5.0	<5.0	<10.	170 E	<5.0
MW-155	11/8/00	14-29	280693	<5.0	<5.0	<5.0	<10.	66	<5.0
MW-155	6/21/01	14-29	296414	<5.0	<5.0	<5.0	<10.	22	<5.0
MW-156	9/11/95	5-20	W5090134-03	NA	NA	NA	<20	<10	<5.0
MW-156	2/6/97	5-20	W7020074-16	NA	NA	NA	<20	<10	<5.0
MW-156 Dup	2/6/97	5-20	W7020074-24	NA	NA	NA	<20	<10	<5.0
MW-156	11/23/99	5-20	253807	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-156	2/29/00	5-20	260577	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-156	11/8/00	5-20	280694	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-156	6/20/01	5-20	296402	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-157	2/6/97	5-20	W7020074-19	NA	NA	NA	<200	<100	<50
MW-157 Dup.	2/26/97	5-20	W7020396-01	NA	NA	NA	<20	<10	<5.0
MW-157	2/29/00	5-20	260581	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-157	11/8/00	5-20	280695	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-157	6/21/01	5-20	296411	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-158	2/6/97	14-29	W7020074-20	NA	NA	NA	<20	<10	<5.0
MW-158	11/23/99	14-29	253794	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-158	2/28/00	14-29	260592	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-158 Dup.	2/28/00	14-29	260584	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-158	11/8/00	14-29	280696	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-158	6/21/01	14-29	296415	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-159	2/28/00	NA	260585	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-159	11/7/00	NA	280697	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-159	6/21/01	NA	296412	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	13.7[2]	13.7[2]	NA	2	10,000
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	5,110[2]	5,110[2]	NA	10	204,400

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	n-Butylbenzene
MW-160	3/2/00	3-13	260551	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-160	11/8/00	3-13	280698	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-160	6/21/01	3-13	296417	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-161	3/2/00	3-13	260552	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-161	11/8/00	3-13	280699	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-161	6/21/01	3-13	296416	<50	<250	<250	<5.0	<5.0	<5.0	18	<5.0	<10.	<5.0
MW-162	11/8/00	NA	280700	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-162	6/20/01	NA	296394	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-163	11/8/00	NA	280701	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-163	6/20/01	NA	296395	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-164	11/7/00	16-26	280702	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-164	6/21/01	16-26	296413	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-165S	6/1/01	10-20	294563	<50	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-165S Dup.	6/1/01	10-20	294564	<50	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-166S	6/1/01	10-20	294565	<50	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-167S	6/1/01	12-22	294566	<50	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-168S	6/1/01	12-22	294567	<50	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-169S	1/30/02	15-25	312995	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-170S	1/31/02	17-27	313002	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
MW-171S	1/30/02	12-22	312997	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				3,040	NA	NA	5.0	NA	NA	0.289[2]	NA	NA	64[2]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				10,220	NA	NA	98.6	NA	NA	46.1[2]	NA	NA	1,020[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene
MW-160	3/2/00	3-13	260551	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-160	11/8/00	3-13	280698	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-160	6/21/01	3-13	296417	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-161	3/2/00	3-13	260552	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-161	11/8/00	3-13	280699	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-161	6/21/01	3-13	296416	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-162	11/8/00	NA	280700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-162	6/20/01	NA	296394	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-163	11/8/00	NA	280701	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-163	6/20/01	NA	296395	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-164	11/7/00	16-26	280702	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-164	6/21/01	16-26	296413	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-165S	6/1/01	10-20	294563	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-165S Dup.	6/1/01	10-20	294564	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-166S	6/1/01	10-20	294565	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-167S	6/1/01	12-22	294566	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-168S	6/1/01	12-22	294567	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	63.9	<10.	<5.0
MW-169S	1/30/02	15-25	312995	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-170S	1/31/02	17-27	313002	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-171S	1/30/02	12-22	312997	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				64[2]	64[2]	1,060[2]	NA	112[2]	NA	23,161	100	NA	NA
Tier II Non-Residential Cleanup Goals - Groundwater [1]				1,020[2]	1,020[2]	10,200[2]	NA	2,040[2]	NA	NA	468.9	NA	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	4-Chlorotoluene	2-Chloroethyl vinyl ether	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane
MW-160	3/2/00	3-13	260551	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-160	11/8/00	3-13	280698	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-160	6/21/01	3-13	296417	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-161	3/2/00	3-13	260552	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-161	11/8/00	3-13	280699	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-161	6/21/01	3-13	296416	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-162	11/8/00	NA	280700	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-162	6/20/01	NA	296394	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-163	11/8/00	NA	280701	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-163	6/20/01	NA	296395	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-164	11/7/00	16-26	280702	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-164	6/21/01	16-26	296413	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-165S	6/1/01	10-20	294563	<5.0	NA	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-165S Dup.	6/1/01	10-20	294564	<5.0	NA	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-166S	6/1/01	10-20	294565	<5.0	NA	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-167S	6/1/01	12-22	294566	<5.0	NA	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-168S	6/1/01	12-22	294567	<5.0	NA	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-169S	1/30/02	15-25	312995	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-170S	1/31/02	17-27	313002	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
MW-171S	1/30/02	12-22	312997	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10
Tier II Residential Cleanup Goals - Groundwater [1]				NA	NA	NA	NA	NA	600	600	75	NA
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	NA	NA	NA	NA	9,198	NA	119.2	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	trans-1,4-Dichloro-2-butene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene
MW-160	3/2/00	3-13	260551	<50	<5.0	<5.0	<5.0	61	<5.0	<5.0	<5.0	<5.0	<5.0
MW-160	11/8/00	3-13	280698	<50	<5.0	<5.0	<5.0	51	<5.0	<5.0	<5.0	<5.0	<5.0
MW-160	6/21/01	3-13	296417	<50	<5.0	<5.0	<5.0	47	<5.0	<5.0	<5.0	<5.0	<5.0
MW-161	3/2/00	3-13	260552	<50	<5.0	<5.0	<5.0	160	<5.0	<5.0	<5.0	<5.0	<5.0
MW-161	11/8/00	3-13	280699	<50	22	<5.0	79	13,000	80	<5.0	<5.0	<5.0	<5.0
MW-161	6/21/01	3-13	296416	<50	11	<5.0	36	6,700	37	<5.0	<5.0	<5.0	<5.0
MW-162	11/8/00	NA	280700	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-162	6/20/01	NA	296394	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-163	11/8/00	NA	280701	<50	<5.0	<5.0	11	600	11	<5.0	<5.0	<5.0	<5.0
MW-163	6/20/01	NA	296395	<50	<5.0	<5.0	13	800	14	<5.0	<5.0	<5.0	<5.0
MW-164	11/7/00	16-26	280702	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-164	6/21/01	16-26	296413	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-165S	6/1/01	10-20	294563	NA	<5.0	<5.0	<5.0	23.8	<5.0	<5.0	<5.0	<5.0	<5.0
MW-165S Dup.	6/1/01	10-20	294564	NA	<5.0	<5.0	<5.0	23.6	<5.0	<5.0	<5.0	<5.0	<5.0
MW-166S	6/1/01	10-20	294565	NA	<5.0	<5.0	<5.0	553	<5.0	<5.0	<5.0	<5.0	<5.0
MW-167S	6/1/01	12-22	294566	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-168S	6/1/01	12-22	294567	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-169S	1/30/02	15-25	312995	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-170S	1/31/02	17-27	313002	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-171S	1/30/02	12-22	312997	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	640	5.0	7.0	70	128[2]	NA	NA	NA	0.850[2]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	10,220	31.4	7.0	1,022	2,040[2]	NA	NA	NA	28.6[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethyl Acetate	Ethylbenzene	Ethyl methacrylate	2-Hexanone	Hexachlorobutadiene	Iodomethane	Isopropylbenzene	p-Isopropyltoluene
MW-160	3/2/00	3-13	260551	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-160	11/8/00	3-13	280698	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-160	6/21/01	3-13	296417	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-161	3/2/00	3-13	260552	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-161	11/8/00	3-13	280699	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-161	6/21/01	3-13	296416	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-162	11/8/00	NA	280700	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-162	6/20/01	NA	296394	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-163	11/8/00	NA	280701	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-163	6/20/01	NA	296395	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-164	11/7/00	16-26	280702	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-164	6/21/01	16-26	296413	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-165S	6/1/01	10-20	294563	<5.0	<5.0	NA	<5.0	NA	<50.	<5.0	NA	<5.0	<5.0
MW-165S Dup.	6/1/01	10-20	294564	<5.0	<5.0	NA	<5.0	NA	<50.	<5.0	NA	<5.0	<5.0
MW-166S	6/1/01	10-20	294565	<5.0	<5.0	NA	<5.0	NA	<50.	<5.0	NA	<5.0	<5.0
MW-167S	6/1/01	12-22	294566	<5.0	<5.0	NA	<5.0	NA	<50.	<5.0	NA	<5.0	<5.0
MW-168S	6/1/01	12-22	294567	<5.0	<5.0	NA	<5.0	NA	<50.	<5.0	NA	<5.0	<5.0
MW-169S	1/30/02	15-25	312995	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-170S	1/31/02	17-27	313002	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
MW-171S	1/30/02	12-22	312997	<5.0	<5.0	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	NA	NA	700	NA	NA	10	NA	689[2]	445[2]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	NA	NA	10,220	NA	NA	36.7	NA	10,200[2]	10,200[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Methylene chloride	Methyl-ethyl-ketone (MEK)	Methyl-tert-butyl ether (MTBE)	Paraldehyde	4-Methyl-2-pentanone (MIBK)	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane
MW-160	3/2/00	3-13	260551	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-160	11/8/00	3-13	280698	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-160	6/21/01	3-13	296417	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-161	3/2/00	3-13	260552	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-161	11/8/00	3-13	280699	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-161	6/21/01	3-13	296416	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-162	11/8/00	NA	280700	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-162	6/20/01	NA	296394	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-163	11/8/00	NA	280701	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-163	6/20/01	NA	296395	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-164	11/7/00	16-26	280702	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-164	6/21/01	16-26	296413	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-165S	6/1/01	10-20	294563	<10.	<50.	NA	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-165S Dup.	6/1/01	10-20	294564	<10.	<50.	NA	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-166S	6/1/01	10-20	294565	<10.	<50.	NA	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-167S	6/1/01	12-22	294566	<10.	<50.	NA	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-168S	6/1/01	12-22	294567	<10.	<50.	NA	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-169S	1/30/02	15-25	312995	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-170S	1/31/02	17-27	313002	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
MW-171S	1/30/02	12-22	312997	<10.	<50.	<10.	NA	<50.	<5.0	<5.0	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				6.30[2]	917.72	45	NA	1,520	1,216	64[2]	NA	5
Tier II Non-Residential Cleanup Goals - Groundwater [1]				381[2]	5,110	715	NA	5,110	4,088	1,020[2]	NA	110

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane
MW-160	3/2/00	3-13	260551	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-160	11/8/00	3-13	280698	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-160	6/21/01	3-13	296417	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-161	3/2/00	3-13	260552	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	170	<5.0
MW-161	11/8/00	3-13	280699	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	4,300	<5.0
MW-161	6/21/01	3-13	296416	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	2,700	<5.0
MW-162	11/8/00	NA	280700	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-162	6/20/01	NA	296394	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-163	11/8/00	NA	280701	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	1,500	<5.0
MW-163	6/20/01	NA	296395	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	1,800	<5.0
MW-164	11/7/00	16-26	280702	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	18	<5.0
MW-164	6/21/01	16-26	296413	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	11	<5.0
MW-165S	6/1/01	10-20	294563	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-165S Dup.	6/1/01	10-20	294564	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-166S	6/1/01	10-20	294565	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-167S	6/1/01	12-22	294566	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-168S	6/1/01	12-22	294567	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-169S	1/30/02	15-25	312995	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-170S	1/31/02	17-27	313002	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-171S	1/30/02	12-22	312997	<5.0	<5.0	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				5	5	NA	1,000	NA	70	200	5	5	1,380[2]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				14.3	56.1	NA	20,440	NA	1,022	9,198	50.2	260	30,700[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	Vinyl chloride	Xylenes, (Total)
MW-160	3/2/00	3-13	260551	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
MW-160	11/8/00	3-13	280698	<5.0	<5.0	<5.0	<10.	5.4	<5.0
MW-160	6/21/01	3-13	296417	<5.0	<5.0	<5.0	<10.	3.3	<5.0
MW-161	3/2/00	3-13	260552	<5.0	<5.0	<5.0	<10.	8.2	<5.0
MW-161	11/8/00	3-13	280699	<5.0	<5.0	<5.0	<10.	570	<5.0
MW-161	6/21/01	3-13	296416	<5.0	<5.0	<5.0	<10.	170	<5.0
MW-162	11/8/00	NA	280700	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-162	6/20/01	NA	296394	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-163	11/8/00	NA	280701	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-163	6/20/01	NA	296395	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-164	11/7/00	16-26	280702	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-164	6/21/01	16-26	296413	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-165S	6/1/01	10-20	294563	<5.0	<5.0	<5.0	NA	<2.0	<5.0
MW-165S Dup.	6/1/01	10-20	294564	<5.0	<5.0	<5.0	NA	<2.0	<5.0
MW-166S	6/1/01	10-20	294565	<5.0	<5.0	<5.0	NA	63	<5.0
MW-167S	6/1/01	12-22	294566	<5.0	<5.0	<5.0	NA	11	<5.0
MW-168S	6/1/01	12-22	294567	<5.0	<5.0	<5.0	NA	<2.0	<5.0
MW-169S	1/30/02	15-25	312995	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
MW-170S	1/31/02	17-27	313002	<5.0	<5.0	<5.0	<10.	6.4	<5.0
MW-171S	1/30/02	12-22	312997	<5.0	<5.0	<5.0	<10.	<2.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	13.7[2]	13.7[2]	NA	2	10,000
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	5,110[2]	5,110[2]	NA	10	204,400

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 7b
Shallow Monitoring Well Groundwater Analytical Results for PAHs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
MW-135	6/20/01	10-20	296393	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-145	6/21/01	17.5-27.5	296418	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-146	6/21/01	15-25	296419	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-147	6/21/01	20-30	296409	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-148	6/21/01	10.5-25.5	296407	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-148 Dup.	6/21/01	10.5-25.5	296408	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-150	6/20/01	4-19	296390	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-151	6/20/01	5-20	296398	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-152	6/20/01	5-20	296401	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-153	6/21/01	4.5-19.5	296404	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-153 Dup.	6/21/01	4.5-19.5	296405	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-154	6/21/01	5-20	296410	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-155	6/21/01	14-29	296414	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-156	6/20/01	5-20	296402	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-157	6/21/01	5-20	296411	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-158	6/21/01	14-29	296415	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-159	6/21/01	NA	296412	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-160	6/21/01	3-13	296417	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-161	6/21/01	3-13	296416	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-162	6/20/01	NA	296394	<18	<10	<6.6	0.27	0.32	0.46	<0.76	<0.20	0.43	0.33	<2.1	<2.1	0.35	<8.0	<6.4	<2.7
MW-163	6/20/01	NA	296395	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-164	6/21/01	16-26	296413	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-165S	6/1/01	10-20	294563	<18	<10	<6.6	<0.13	<0.20	<0.18	<0.75	<0.17	<0.20	<0.30	<2.1	<2.1	<0.43	<8.0	<6.4	<2.7
MW-165S Dup.	6/1/01	10-20	294564	<18	<10	<6.6	<0.13	<0.20	<0.18	<0.75	<0.17	<0.20	<0.30	<2.1	<2.1	<0.43	<8.0	<6.4	<2.7
MW-166S	6/1/01	10-20	294565	<18	<10	<6.6	<0.13	<0.20	<0.18	<0.75	<0.17	<0.20	<0.30	<2.1	<2.1	<0.43	<8.0	<6.4	<2.7
MW-167S	6/1/01	12-22	294566	<18	<10	<6.6	<0.13	<0.20	<0.18	<0.75	<0.17	<0.20	<0.30	<2.1	<2.1	<0.43	<8.0	<6.4	<2.7
MW-168S	6/1/01	12-22	294567	<18	<10	<6.6	<0.13	<0.20	<0.18	<0.75	<0.17	<0.20	<0.30	<2.1	<2.1	<0.43	<8.0	<6.4	<2.7
Tier II Residential Cleanup Goals - Groundwater [1]				1,824	6.89 [2]	9,120	0.10	0.20	0.20	38.4 [2]	0.20	0.20	0.30	243.2	1,216	0.40	1,216	230 [3]	912
Tier II Non-Residential Cleanup Goals - Groundwater [1]				6,132	2,040 [2]	30,660	10	10	10	613 [2]	39.2	391.8	10	817.6	4,088	10	4,088	230 [3]	3,066

Detected compound exceeds the VRP Tier II Residential Cleanup Goal

Detected compound is below the VRP Tier II Residential Cleanup Goal

PAHs = Polynuclear Aromatic Hydrocarbons Samples analyzed using EPA SW-846 Method 8310

µg/L = micrograms per liter NA = Not Applicable

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996

[2] Calculated using surrogate toxicity values and Tier II equations.

[3] Tier I Health Protective Levels for Phenanthrene, Iodomethane and Acrolein Technical Memo by Indiana Voluntary Remediation Program, dated 4/21/98. The given value is a residential cleanupgoal (non-residential cleanup goal is not available).

Table 7c

Shallow Monitoring Well Groundwater Analytical Results for Metals (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Total Arsenic	Total Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Selenium	Total Silver
MW-10-1	11/8/00	7-17	280650	<5.	54	<5.	<10.	5	<0.5	8	<5.
MW-135	11/8/00	10-20	280651	7	98	<5.	44	5	<0.5	8	<5.
MW-135	6/20/01	10-20	296393	NA	NA	<5.	34	<5.	NA	NA	NA
MW-145	11/8/00	17.5-27.5	280652	12	190	<5.	10	25	<0.5	<5.	<5.
MW-145	6/21/01	17.5-27.5	296418	NA	NA	<5.	<10.	28	NA	NA	NA
MW-146	11/8/00	15-25	280684	43	150	<5.	320	32	<0.5	9	<5.
MW-146	6/21/01	15-25	296419	NA	NA	<5.	190	<5.	NA	NA	NA
MW-147	11/8/00	20-30	280685	9	260	<5.	23	9	<0.5	<5.	<5.
MW-147	6/21/01	20-30	296409	NA	NA	<5.	10	25	NA	NA	NA
MW-148	11/8/00	10.5-25.5	280686	<5.	240	<5.	<10.	7	<0.5	<5.	<5.
MW-148 Dup.	11/8/00	10.5-25.5	280687	<5.	230	<5.	<10.	<5.	<0.5	<5.	<5.
MW-148	6/21/01	10.5-25.5	296407	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-148 Dup.	6/21/01	10.5-25.5	296408	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-150	11/8/00	4-19	280688	<5.	140	<5.	7	6	<0.5	<5.	<5.
MW-150	6/20/01	4-19	296390	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-151	11/8/00	5-20	280689	<5.	150	<5.	11	17	<0.5	5	<5.
MW-151	6/20/01	5-20	296398	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-152	11/8/00	5-20	280690	9	76	<5.	<10.	13	<0.5	<5.	<5.
MW-152	6/20/01	5-20	296401	NA	NA	<5.	<10.	7.6	NA	NA	NA
MW-153	11/8/00	4.5-19.5	280691	7	110	<5.	<10.	7	<0.5	<5.	<5.
MW-153	6/21/01	4.5-19.5	296404	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-153 Dup.	6/21/01	4.5-19.5	296405	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-154	11/8/00	5-20	280692	<5.	110	<5.	<10.	<5.	<0.5	<5.	<5.
MW-154	6/21/01	5-20	296410	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-155	11/8/00	14-29	280693	38	330	<5.	48	100	<0.5	6	<5.
MW-155	6/21/01	14-29	296414	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-156	11/8/00	5-20	280694	7	46	<5.	7	13	<0.5	<5.	<5.
MW-156	6/20/01	5-20	296402	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-157	11/8/00	5-20	280695	7	10	<5.	<10.	6	<0.5	6	<5.
MW-157	6/21/01	5-20	296411	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-158	11/8/00	14-29	280696	15	390	<5.	62	220	<0.5	17	<5.
MW-158	6/21/01	14-29	296415	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-159	11/7/00	NA	280697	15	310	<5.	43	90	<0.5	13	<5.
MW-159	6/21/01	NA	296412	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-160	11/8/00	3-13	280698	12	26	<5.	37	140	<0.5	<5.	<5.
MW-160	6/21/01	3-13	296417	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-161	11/8/00	3-13	280699	17	300	<5.	25	74	<0.5	10	<5.
MW-161	6/21/01	3-13	296416	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-162	11/8/00	NA	280700	6	68	<5.	<10.	7	<0.5	7	<5.
MW-162	6/20/01	NA	296394	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-163	11/8/00	NA	280701	<5.	73	<5.	<10.	<5.	<0.5	10	<5.
MW-163	6/20/01	NA	296395	NA	NA	<5.	<10.	6.3	NA	NA	NA
MW-164	11/7/00	16-26	280702	39	280	<5.	29	54	<0.5	8	<5.
MW-164	6/21/01	16-26	296413	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-165S	6/1/01	10-20	294563	NA	NA	<5.	81	134	NA	NA	NA
MW-165S Dup.	6/1/01	10-20	294564	NA	NA	<5.	52	85	NA	NA	NA
MW-166S	6/1/01	10-20	294565	NA	NA	<5.	58	149	NA	NA	NA
MW-167S	6/1/01	12-22	294566	NA	NA	<5.	86	125	NA	NA	NA
MW-168S	6/1/01	12-22	294567	NA	NA	<5.	95	128	NA	NA	NA
MW-169S	1/30/02	15-25	312995	NA	NA	<1.0	<2.0	<1.0	NA	NA	NA
MW-170S	1/31/02	17-27	313002	NA	NA	<1.0	6.3	13.6	NA	NA	NA
MW-170S Dup	1/31/02	17-27	313003	NA	NA	<1.0	7.1	15.3	NA	NA	NA
MW-171S	1/30/02	12-22	312997	NA	NA	<1.0	16	32.3	NA	NA	NA
Tier II Residential Cleanup Goals - Groundwater [1]				50	2,000	5.0	100	15[2]	2.0	50	152
Tier II Non-Residential Cleanup Goals - Groundwater [1]				50	7,154	51.1	511	15[2]	6.1	511	511

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

Samples analyzed using EPA Method Series 6000/7000

µg/L = micrograms per liter NA = Not Applicable

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996

[2] IDEM VRP Interoffice Memo dated on January 26, 1998

Table 8a
Deep Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
MW-165D	1/30/02	42-47	312999	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-166D	1/31/02	46-51	313000	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-167D	1/31/02	28-33	313005	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-168D	1/31/02	26-31	313004	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-169D	1/30/02	32-37	312996	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-170D	1/31/02	34-39	313001	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-171D	1/30/02	44-49	312998	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-200	7/17/95	45-50	W5070229-02	<20	NA	NA	<5.0	NA	NA	<5.0
MW-200	2/5/97	45-50	W7020074-12	<20	NA	NA	<5.0	NA	NA	<5.0
MW-200	11/23/99	45-50	253804	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-200 Dup	11/23/99	45-50	253814	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-200	2/29/00	45-50	260576	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-200 Dup.	2/29/00	45-50	260569	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-200	11/8/00	45-50	280703	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-200	6/20/01	45-50	296391	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-200 Dup.	6/20/01	45-50	296392	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-201	7/14/95	36-38	W5070191-04	<20	NA	NA	<5.0	NA	NA	<5.0
MW-201	2/6/97	36-38	W7020074-21	<20	NA	NA	<5.0	NA	NA	<5.0
MW-201	11/23/99	36-38	253810	97	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-201	2/29/00	36-38	260580	100	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-201	11/8/00	36-38	280705	110	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-201	6/20/01	36-38	296400	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-202	7/14/95	33-35	W5070191-05	36	NA	NA	<5.0	NA	NA	<5.0
MW-202	2/6/97	33-35	W7020074-22	<20	NA	NA	<5.0	NA	NA	<5.0
MW-202	11/23/99	33-35	253797	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-202	2/28/00	33-35	260595	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-202	11/8/00	33-35	280706	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-202 Dup.	11/8/00	33-35	280707	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-202	6/21/01	33-35	296406	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-301	2/6/97	45-50	W7020074-17	<20	NA	NA	<5.0	NA	NA	<5.0
MW-301	11/23/99	45-50	253808	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-301	2/29/00	45-50	260578	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-301	11/8/00	45-50	280708	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-301 Dup.	11/8/00	45-50	280709	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-301	6/20/01	45-50	296396	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-301 Dup.	6/20/01	45-50	296397	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-302	2/6/97	45-55	W7020074-18	<20	NA	NA	<5.0	NA	NA	<5.0
MW-302	11/23/99	45-55	253795	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-302	2/28/00	45-55	260593	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-302	11/8/00	45-55	280710	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
MW-302	6/21/01	45-55	296403	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
OB-1	11/23/99	5-15	253805	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
OB-2	11/23/99	5-15	253806	<50	<250	<250	<5.0	<5.0	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				3,040	NA	NA	5.0	NA	NA	0.289[2]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				10,220	NA	NA	98.6	NA	NA	46.1[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated
NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 8a
Deep Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromoform	Bromomethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide
MW-165D	1/30/02	42-47	312999	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-166D	1/31/02	46-51	313000	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-167D	1/31/02	28-33	313005	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-168D	1/31/02	26-31	313004	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-169D	1/30/02	32-37	312996	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-170D	1/31/02	34-39	313001	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-171D	1/30/02	44-49	312998	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-200	7/17/95	45-50	W5070229-02	<5.0	<10	NA	NA	NA	<5.0
MW-200	2/5/97	45-50	W7020074-12	<5.0	<10	NA	NA	NA	<5.0
MW-200	11/23/99	45-50	253804	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-200 Dup	11/23/99	45-50	253814	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-200	2/29/00	45-50	260576	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-200 Dup.	2/29/00	45-50	260569	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-200	11/8/00	45-50	280703	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-200	6/20/01	45-50	296391	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-200 Dup.	6/20/01	45-50	296392	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-201	7/14/95	36-38	W5070191-04	<5.0	<10	NA	NA	NA	<5.0
MW-201	2/6/97	36-38	W7020074-21	<5.0	<10	NA	NA	NA	<5.0
MW-201	11/23/99	36-38	253810	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-201	2/29/00	36-38	260580	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-201	11/8/00	36-38	280705	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-201	6/20/01	36-38	296400	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-202	7/14/95	33-35	W5070191-05	<5.0	<10	NA	NA	NA	<5.0
MW-202	2/6/97	33-35	W7020074-22	<5.0	<10	NA	NA	NA	<5.0
MW-202	11/23/99	33-35	253797	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-202	2/28/00	33-35	260595	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-202	11/8/00	33-35	280706	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-202 Dup.	11/8/00	33-35	280707	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-202	6/21/01	33-35	296406	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-301	2/6/97	45-50	W7020074-17	<5.0	<10	NA	NA	NA	<5.0
MW-301	11/23/99	45-50	253808	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-301	2/29/00	45-50	260578	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-301	11/8/00	45-50	280708	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-301 Dup.	11/8/00	45-50	280709	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-301	6/20/01	45-50	296396	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-301 Dup.	6/20/01	45-50	296397	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-302	2/6/97	45-55	W7020074-18	<5.0	<10	NA	NA	NA	<5.0
MW-302	11/23/99	45-55	253795	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-302	2/28/00	45-55	260593	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-302	11/8/00	45-55	280710	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
MW-302	6/21/01	45-55	296403	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
OB-1	11/23/99	5-15	253805	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
OB-2	11/23/99	5-15	253806	<5.0	<10.	<5.0	<5.0	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	NA	64[2]	64[2]	64[2]	1,060[2]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	NA	1,020[2]	1,020[2]	1,020[2]	10,200[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated
NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 8a
Deep Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene
MW-165D	1/30/02	42-47	312999	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-166D	1/31/02	46-51	313000	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-167D	1/31/02	28-33	313005	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-168D	1/31/02	26-31	313004	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-169D	1/30/02	32-37	312996	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-170D	1/31/02	34-39	313001	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-171D	1/30/02	44-49	312998	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-200	7/17/95	45-50	W5070229-02	<5.0	<5.0	<5.0	<5.0	<5.0	<10	NA
MW-200	2/5/97	45-50	W7020074-12	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-200	11/23/99	45-50	253804	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-200 Dup	11/23/99	45-50	253814	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-200	2/29/00	45-50	260576	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-200 Dup.	2/29/00	45-50	260569	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-200	11/8/00	45-50	280703	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-200	6/20/01	45-50	296391	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-200 Dup.	6/20/01	45-50	296392	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-201	7/14/95	36-38	W5070191-04	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-201	2/6/97	36-38	W7020074-21	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-201	11/23/99	36-38	253810	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-201	2/29/00	36-38	260580	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-201	11/8/00	36-38	280705	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-201	6/20/01	36-38	296400	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-202	7/14/95	33-35	W5070191-05	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-202	2/6/97	33-35	W7020074-22	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-202	11/23/99	33-35	253797	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-202	2/28/00	33-35	260595	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-202	11/8/00	33-35	280706	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-202 Dup.	11/8/00	33-35	280707	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-202	6/21/01	33-35	296406	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-301	2/6/97	45-50	W7020074-17	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-301	11/23/99	45-50	253808	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-301	2/29/00	45-50	260578	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-301	11/8/00	45-50	280708	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-301 Dup.	11/8/00	45-50	280709	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-301	6/20/01	45-50	296396	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-301 Dup.	6/20/01	45-50	296397	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-302	2/6/97	45-55	W7020074-18	<5.0	<5.0	<5.0	<10	<5.0	<10	NA
MW-302	11/23/99	45-55	253795	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-302	2/28/00	45-55	260593	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-302	11/8/00	45-55	280710	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
MW-302	6/21/01	45-55	296403	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
OB-1	11/23/99	5-15	253805	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
OB-2	11/23/99	5-15	253806	<5.0	<5.0	<5.0	<10.	<20	<10.	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	112[2]	NA	23,161	100	NA	NA
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	2,040[2]	NA	NA	468.9	NA	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated
NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 8a
Deep Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	4-Chlorotoluene	2-Chloroethyl vinyl ether	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene
MW-165D	1/30/02	42-47	312999	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-166D	1/31/02	46-51	313000	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-167D	1/31/02	28-33	313005	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-168D	1/31/02	26-31	313004	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-169D	1/30/02	32-37	312996	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-170D	1/31/02	34-39	313001	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-171D	1/30/02	44-49	312998	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-200	7/17/95	45-50	W5070229-02	NA	<10	NA	NA	NA	<10	<10
MW-200	2/5/97	45-50	W7020074-12	NA	<10	NA	NA	NA	<10	<10
MW-200	11/23/99	45-50	253804	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-200 Dup	11/23/99	45-50	253814	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-200	2/29/00	45-50	260576	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-200 Dup.	2/29/00	45-50	260569	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-200	11/8/00	45-50	280703	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-200	6/20/01	45-50	296391	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-200 Dup.	6/20/01	45-50	296392	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-201	7/14/95	36-38	W5070191-04	NA	<10	NA	NA	NA	<10	<10
MW-201	2/6/97	36-38	W7020074-21	NA	<10	NA	NA	NA	<10	<10
MW-201	11/23/99	36-38	253810	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-201	2/29/00	36-38	260580	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-201	11/8/00	36-38	280705	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-201	6/20/01	36-38	296400	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-202	7/14/95	33-35	W5070191-05	NA	<10	NA	NA	NA	<10	<10
MW-202	2/6/97	33-35	W7020074-22	NA	<10	NA	NA	NA	<10	<10
MW-202	11/23/99	33-35	253797	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-202	2/28/00	33-35	260595	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-202	11/8/00	33-35	280706	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-202 Dup.	11/8/00	33-35	280707	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-202	6/21/01	33-35	296406	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-301	2/6/97	45-50	W7020074-17	NA	<10	NA	NA	NA	<10	<10
MW-301	11/23/99	45-50	253808	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-301	2/29/00	45-50	260578	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-301	11/8/00	45-50	280708	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-301 Dup.	11/8/00	45-50	280709	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-301	6/20/01	45-50	296396	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-301 Dup.	6/20/01	45-50	296397	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-302	2/6/97	45-55	W7020074-18	NA	<10	NA	NA	NA	<10	<10
MW-302	11/23/99	45-55	253795	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-302	2/28/00	45-55	260593	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-302	11/8/00	45-55	280710	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
MW-302	6/21/01	45-55	296403	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
OB-1	11/23/99	5-15	253805	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
OB-2	11/23/99	5-15	253806	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	NA	NA	NA	NA	600	600
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	NA	NA	NA	NA	9,198	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated
NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 8a
Deep Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	1,4-Dichlorobenzene	Dichlorodifluoromethane	trans-1,4-Dichloro-2-butene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene
MW-165D	1/30/02	42-47	312999	<5.0	<10	<50	8.3	<5.0	7	3300
MW-166D	1/31/02	46-51	313000	<5.0	<10	<50	<5.0	<5.0	6.1	2000
MW-167D	1/31/02	28-33	313005	<5.0	<10	<50	<5.0	<5.0	<5.0	530
MW-168D	1/31/02	26-31	313004	<5.0	<10	<50	<5.0	<5.0	<5.0	18
MW-169D	1/30/02	32-37	312996	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-170D	1/31/02	34-39	313001	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-171D	1/30/02	44-49	312998	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-200	7/17/95	45-50	W5070229-02	<10	NA	NA	<5.0	<5.0	<5.0	<5.0
MW-200	2/5/97	45-50	W7020074-12	<10	NA	NA	<5.0	<5.0	<5.0	<5.0
MW-200	11/23/99	45-50	253804	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-200 Dup	11/23/99	45-50	253814	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-200	2/29/00	45-50	260576	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-200 Dup.	2/29/00	45-50	260569	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-200	11/8/00	45-50	280703	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-200	6/20/01	45-50	296391	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-200 Dup.	6/20/01	45-50	296392	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-201	7/14/95	36-38	W5070191-04	<10	NA	NA	<5.0	<5.0	<5.0	<5.0
MW-201	2/6/97	36-38	W7020074-21	<10	NA	NA	<5.0	<5.0	<5.0	<5.0
MW-201	11/23/99	36-38	253810	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-201	2/29/00	36-38	260580	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-201	11/8/00	36-38	280705	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-201	6/20/01	36-38	296400	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-202	7/14/95	33-35	W5070191-05	<10	NA	NA	<5.0	<5.0	<5.0	<5.0
MW-202	2/6/97	33-35	W7020074-22	<10	NA	NA	<5.0	<5.0	<5.0	<5.0
MW-202	11/23/99	33-35	253797	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-202	2/28/00	33-35	260595	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-202	11/8/00	33-35	280706	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-202 Dup.	11/8/00	33-35	280707	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-202	6/21/01	33-35	296406	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-301	2/6/97	45-50	W7020074-17	<10	NA	NA	<5.0	<5.0	<5.0	<5.0
MW-301	11/23/99	45-50	253808	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-301	2/29/00	45-50	260578	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-301	11/8/00	45-50	280708	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-301 Dup.	11/8/00	45-50	280709	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-301	6/20/01	45-50	296396	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-301 Dup.	6/20/01	45-50	296397	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-302	2/6/97	45-55	W7020074-18	<10	NA	NA	<5.0	<5.0	<5.0	8.2
MW-302	11/23/99	45-55	253795	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-302	2/28/00	45-55	260593	<5.0	<10	<50	<5.0	<5.0	<5.0	11
MW-302	11/8/00	45-55	280710	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
MW-302	6/21/01	45-55	296403	<5.0	<10	<50	<5.0	<5.0	<5.0	<5.0
OB-1	11/23/99	5-15	253805	<5.0	<10	<50	<5.0	<5.0	<5.0	270
OB-2	11/23/99	5-15	253806	<5.0	<10	<50	<5.0	<5.0	<5.0	100
Tier II Residential Cleanup Goals - Groundwater [1]				75	NA	NA	640	5.0	7.0	70
Tier II Non-Residential Cleanup Goals - Groundwater [1]				119.2	NA	NA	10,220	31.4	7.0	1,022

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated
NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations

Table 8a
Deep Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
MW-165D	1/30/02	42-47	312999	11	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-166D	1/31/02	46-51	313000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-167D	1/31/02	28-33	313005	11	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-168D	1/31/02	26-31	313004	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-169D	1/30/02	32-37	312996	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-170D	1/31/02	34-39	313001	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-171D	1/30/02	44-49	312998	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-200	7/17/95	45-50	W5070229-02	<5.0	<5.0	NA	NA	NA	<5.0	<5.0
MW-200	2/5/97	45-50	W7020074-12	<5.0	<5.0	NA	NA	NA	<5.0	<5.0
MW-200	11/23/99	45-50	253804	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-200 Dup	11/23/99	45-50	253814	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-200	2/29/00	45-50	260576	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-200 Dup.	2/29/00	45-50	260569	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-200	11/8/00	45-50	280703	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-200	6/20/01	45-50	296391	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-200 Dup.	6/20/01	45-50	296392	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-201	7/14/95	36-38	W5070191-04	<5.0	<5.0	NA	NA	NA	<5.0	<5.0
MW-201	2/6/97	36-38	W7020074-21	<5.0	<5.0	NA	NA	NA	<5.0	<5.0
MW-201	11/23/99	36-38	253810	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-201	2/29/00	36-38	260580	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-201	11/8/00	36-38	280705	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-201	6/20/01	36-38	296400	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-202	7/14/95	33-35	W5070191-05	<5.0	<5.0	NA	NA	NA	<5.0	<5.0
MW-202	2/6/97	33-35	W7020074-22	<5.0	<5.0	NA	NA	NA	<5.0	<5.0
MW-202	11/23/99	33-35	253797	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-202	2/28/00	33-35	260595	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-202	11/8/00	33-35	280706	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-202 Dup.	11/8/00	33-35	280707	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-202	6/21/01	33-35	296406	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-301	2/6/97	45-50	W7020074-17	<5.0	<5.0	NA	NA	NA	<5.0	<5.0
MW-301	11/23/99	45-50	253808	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-301	2/29/00	45-50	260578	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-301	11/8/00	45-50	280708	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-301 Dup.	11/8/00	45-50	280709	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-301	6/20/01	45-50	296396	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-301 Dup.	6/20/01	45-50	296397	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-302	2/6/97	45-55	W7020074-18	<5.0	<5.0	NA	NA	NA	<5.0	<5.0
MW-302	11/23/99	45-55	253795	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-302	2/28/00	45-55	260593	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-302	11/8/00	45-55	280710	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-302	6/21/01	45-55	296403	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
OB-1	11/23/99	5-15	253805	8.9	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
OB-2	11/23/99	5-15	253806	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				128[2]	NA	NA	0.850[2]	NA	NA	NA
Tier II Non-Residential Cleanup Goals - Groundwater [1]				2,040[2]	NA	NA	28.6[2]	NA	NA	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated
NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 8a
Deep Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Ethyl Acetate	Ethylbenzene	Ethyl methacrylate	2-Hexanone	Hexachlorobutadiene	Iodomethane	Isopropylbenzene
MW-165D	1/30/02	42-47	312999	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-166D	1/31/02	46-51	313000	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-167D	1/31/02	28-33	313005	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-168D	1/31/02	26-31	313004	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-169D	1/30/02	32-37	312996	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-170D	1/31/02	34-39	313001	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-171D	1/30/02	44-49	312998	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-200	7/17/95	45-50	W5070229-02	NA	<5.0	NA	<20	NA	NA	NA
MW-200	2/5/97	45-50	W7020074-12	NA	<5.0	NA	<20	NA	NA	NA
MW-200	11/23/99	45-50	253804	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-200 Dup	11/23/99	45-50	253814	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-200	2/29/00	45-50	260576	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-200 Dup.	2/29/00	45-50	260569	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-200	11/8/00	45-50	280703	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-200	6/20/01	45-50	296391	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-200 Dup.	6/20/01	45-50	296392	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-201	7/14/95	36-38	W5070191-04	NA	<5.0	NA	<20	NA	NA	NA
MW-201	2/6/97	36-38	W7020074-21	NA	<5.0	NA	<20	NA	NA	NA
MW-201	11/23/99	36-38	253810	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-201	2/29/00	36-38	260580	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-201	11/8/00	36-38	280705	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-201	6/20/01	36-38	296400	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-202	7/14/95	33-35	W5070191-05	NA	<5.0	NA	<20	NA	NA	NA
MW-202	2/6/97	33-35	W7020074-22	NA	<5.0	NA	<20	NA	NA	NA
MW-202	11/23/99	33-35	253797	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-202	2/28/00	33-35	260595	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-202	11/8/00	33-35	280706	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-202 Dup.	11/8/00	33-35	280707	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-202	6/21/01	33-35	296406	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-301	2/6/97	45-50	W7020074-17	NA	<5.0	NA	<20	NA	NA	NA
MW-301	11/23/99	45-50	253808	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-301	2/29/00	45-50	260578	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-301	11/8/00	45-50	280708	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-301 Dup.	11/8/00	45-50	280709	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-301	6/20/01	45-50	296396	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-301 Dup.	6/20/01	45-50	296397	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-302	2/6/97	45-55	W7020074-18	NA	<5.0	NA	<20	NA	NA	NA
MW-302	11/23/99	45-55	253795	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-302	2/28/00	45-55	260593	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-302	11/8/00	45-55	280710	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
MW-302	6/21/01	45-55	296403	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
OB-1	11/23/99	5-15	253805	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
OB-2	11/23/99	5-15	253806	NA	<5.0	<10.	<50.	<5.0	<10.	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	700	NA	NA	10	NA	689[3]
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	10,220	NA	NA	36.7	NA	10,200[3]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated
NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 8a
Deep Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	p-Isopropyltoluene	Methylene chloride	Methyl-ethyl-ketone (MEK)	Methyl-tert-butyl ether (MTBE)	Paraldehyde	4-Methyl-2-pentanone (MIBK)	Naphthalene
MW-165D	1/30/02	42-47	312999	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-166D	1/31/02	46-51	313000	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-167D	1/31/02	28-33	313005	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-168D	1/31/02	26-31	313004	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-169D	1/30/02	32-37	312996	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-170D	1/31/02	34-39	313001	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-171D	1/30/02	44-49	312998	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-200	7/17/95	45-50	W5070229-02	NA	<5.0	<20	NA	NA	<20	NA
MW-200	2/5/97	45-50	W7020074-12	NA	<5.0	<20	NA	NA	<20	NA
MW-200	11/23/99	45-50	253804	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-200 Dup	11/23/99	45-50	253814	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-200	2/29/00	45-50	260576	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-200 Dup.	2/29/00	45-50	260569	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-200	11/8/00	45-50	280703	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-200	6/20/01	45-50	296391	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-200 Dup.	6/20/01	45-50	296392	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-201	7/14/95	36-38	W5070191-04	NA	<5	<20	NA	NA	<20	NA
MW-201	2/6/97	36-38	W7020074-21	NA	<5.0	<20	NA	NA	<20	NA
MW-201	11/23/99	36-38	253810	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-201	2/29/00	36-38	260580	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-201	11/8/00	36-38	280705	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-201	6/20/01	36-38	296400	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-202	7/14/95	33-35	W5070191-05	NA	<5	<20	NA	NA	<20	NA
MW-202	2/6/97	33-35	W7020074-22	NA	<5.0	<20	NA	NA	<20	NA
MW-202	11/23/99	33-35	253797	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-202	2/28/00	33-35	260595	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-202	11/8/00	33-35	280706	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-202 Dup.	11/8/00	33-35	280707	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-202	6/21/01	33-35	296406	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-301	2/6/97	45-50	W7020074-17	NA	<5.0	<20	NA	NA	<20	NA
MW-301	11/23/99	45-50	253808	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-301	2/29/00	45-50	260578	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-301	11/8/00	45-50	280708	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-301 Dup.	11/8/00	45-50	280709	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-301	6/20/01	45-50	296396	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-301 Dup.	6/20/01	45-50	296397	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-302	2/6/97	45-55	W7020074-18	NA	<5.0	<20	NA	NA	<20	NA
MW-302	11/23/99	45-55	253795	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-302	2/28/00	45-55	260593	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-302	11/8/00	45-55	280710	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
MW-302	6/21/01	45-55	296403	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
OB-1	11/23/99	5-15	253805	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
OB-2	11/23/99	5-15	253806	<5.0	<10.	<50.	<10.	NA	<50.	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	6.30[2]	917.72	45	NA	1,520	1,216
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	381[2]	5,110	715	NA	5,110	4,088

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated
NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 8a
Deep Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Tetrahydrofuran	Toluene
MW-165D	1/30/02	42-47	312999	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-166D	1/31/02	46-51	313000	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-167D	1/31/02	28-33	313005	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-168D	1/31/02	26-31	313004	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-169D	1/30/02	32-37	312996	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-170D	1/31/02	34-39	313001	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-171D	1/30/02	44-49	312998	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-200	7/17/95	45-50	W5070229-02	NA	<5.0	NA	<5.0	<5.0	NA	<5.0
MW-200	2/5/97	45-50	W7020074-12	NA	<5.0	NA	<5.0	<5.0	NA	<5.0
MW-200	11/23/99	45-50	253804	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-200 Dup	11/23/99	45-50	253814	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-200	2/29/00	45-50	260576	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-200 Dup.	2/29/00	45-50	260569	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-200	11/8/00	45-50	280703	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-200	6/20/01	45-50	296391	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-200 Dup.	6/20/01	45-50	296392	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-201	7/14/95	36-38	W5070191-04	NA	<5.0	NA	<5.0	<5.0	NA	<5.0
MW-201	2/6/97	36-38	W7020074-21	NA	<5.0	NA	<5.0	<5.0	NA	<5.0
MW-201	11/23/99	36-38	253810	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-201	2/29/00	36-38	260580	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-201	11/8/00	36-38	280705	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-201	6/20/01	36-38	296400	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-202	7/14/95	33-35	W5070191-05	NA	<5.0	NA	<5.0	<5.0	NA	<5.0
MW-202	2/6/97	33-35	W7020074-22	NA	<5.0	NA	<5.0	<5.0	NA	<5.0
MW-202	11/23/99	33-35	253797	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-202	2/28/00	33-35	260595	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-202	11/8/00	33-35	280706	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-202 Dup.	11/8/00	33-35	280707	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-202	6/21/01	33-35	296406	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-301	2/6/97	45-50	W7020074-17	NA	<5.0	NA	<5.0	<5.0	NA	<5.0
MW-301	11/23/99	45-50	253808	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-301	2/29/00	45-50	260578	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-301	11/8/00	45-50	280708	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-301 Dup.	11/8/00	45-50	280709	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-301	6/20/01	45-50	296396	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-301 Dup.	6/20/01	45-50	296397	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-302	2/6/97	45-55	W7020074-18	NA	<5.0	NA	<5.0	<5.0	NA	<5.0
MW-302	11/23/99	45-55	253795	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-302	2/28/00	45-55	260593	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-302	11/8/00	45-55	280710	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
MW-302	6/21/01	45-55	296403	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
OB-1	11/23/99	5-15	253805	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
OB-2	11/23/99	5-15	253806	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				64[2]	NA	5	5	5	NA	1,000
Tier II Non-Residential Cleanup Goals - Groundwater [1]				1,020[2]	NA	110	14.3	56.1	NA	20,440

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated
NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 8a
Deep Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane
MW-165D	1/30/02	42-47	312999	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-166D	1/31/02	46-51	313000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-167D	1/31/02	28-33	313005	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-168D	1/31/02	26-31	313004	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-169D	1/30/02	32-37	312996	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-170D	1/31/02	34-39	313001	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-171D	1/30/02	44-49	312998	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-200	7/17/95	45-50	W5070229-02	NA	NA	<5.0	<5.0	<5.0	NA	NA
MW-200	2/5/97	45-50	W7020074-12	NA	NA	<5.0	<5.0	<5.0	NA	NA
MW-200	11/23/99	45-50	253804	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-200 Dup	11/23/99	45-50	253814	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-200	2/29/00	45-50	260576	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-200 Dup.	2/29/00	45-50	260569	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-200	11/8/00	45-50	280703	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-200	6/20/01	45-50	296391	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-200 Dup.	6/20/01	45-50	296392	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-201	7/14/95	36-38	W5070191-04	NA	NA	<5.0	<5.0	<5.0	NA	NA
MW-201	2/6/97	36-38	W7020074-21	NA	NA	<5.0	<5.0	<5.0	NA	NA
MW-201	11/23/99	36-38	253810	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-201	2/29/00	36-38	260580	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-201	11/8/00	36-38	280705	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-201	6/20/01	36-38	296400	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-202	7/14/95	33-35	W5070191-05	NA	NA	<5.0	<5.0	<5.0	NA	NA
MW-202	2/6/97	33-35	W7020074-22	NA	NA	<5.0	<5.0	<5.0	NA	NA
MW-202	11/23/99	33-35	253797	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-202	2/28/00	33-35	260595	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-202	11/8/00	33-35	280706	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-202 Dup.	11/8/00	33-35	280707	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-202	6/21/01	33-35	296406	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-301	2/6/97	45-50	W7020074-17	NA	NA	<5.0	<5.0	<5.0	NA	NA
MW-301	11/23/99	45-50	253808	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-301	2/29/00	45-50	260578	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-301	11/8/00	45-50	280708	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-301 Dup.	11/8/00	45-50	280709	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-301	6/20/01	45-50	296396	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-301 Dup.	6/20/01	45-50	296397	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-302	2/6/97	45-55	W7020074-18	NA	NA	<5.0	<5.0	<5.0	NA	NA
MW-302	11/23/99	45-55	253795	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-302	2/28/00	45-55	260593	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-302	11/8/00	45-55	280710	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-302	6/21/01	45-55	296403	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
OB-1	11/23/99	5-15	253805	<5.0	<5.0	<5.0	<5.0	870	<5.0	<5.0
OB-2	11/23/99	5-15	253806	<5.0	<5.0	<5.0	<5.0	800	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				NA	70	200	5	5	1,380[2]	NA
Tier II Non-Residential Cleanup Goals - Groundwater [1]				NA	1,022	9,198	50.2	260	30,700[2]	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated
NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 8a
Deep Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	Vinyl chloride	Xylenes, (Total)
MW-165D	1/30/02	42-47	312999	<5.0	<5.0	<10.	1500	<5.0
MW-166D	1/31/02	46-51	313000	<5.0	<5.0	<10.	730	<5.0
MW-167D	1/31/02	28-33	313005	<5.0	<5.0	<10.	390	<5.0
MW-168D	1/31/02	26-31	313004	<5.0	<5.0	<10.	<2.0	<5.0
MW-169D	1/30/02	32-37	312996	<5.0	<5.0	<10.	8.7	<5.0
MW-170D	1/31/02	34-39	313001	<5.0	<5.0	<10.	80	<5.0
MW-171D	1/30/02	44-49	312998	<5.0	<5.0	<10.	<2.0	<5.0
MW-200	7/17/95	45-50	W5070229-02	NA	NA	<20	<10	<5.0
MW-200	2/5/97	45-50	W7020074-12	NA	NA	<20	<10	<5.0
MW-200	11/23/99	45-50	253804	<5.0	<5.0	<10.	<5.0	<5.0
MW-200 Dup	11/23/99	45-50	253814	<5.0	<5.0	<10.	<5.0	<5.0
MW-200	2/29/00	45-50	260576	<5.0	<5.0	<10.	<5.0	<5.0
MW-200 Dup.	2/29/00	45-50	260569	<5.0	<5.0	<10.	<5.0	<5.0
MW-200	11/8/00	45-50	280703	<5.0	<5.0	<10.	<2.0	<5.0
MW-200	6/20/01	45-50	296391	<5.0	<5.0	<10.	<2.0	<5.0
MW-200 Dup.	6/20/01	45-50	296392	<5.0	<5.0	<10.	<2.0	<5.0
MW-201	7/14/95	36-38	W5070191-04	NA	NA	<20	<10	<5.0
MW-201	2/6/97	36-38	W7020074-21	NA	NA	<20	<10	<5.0
MW-201	11/23/99	36-38	253810	<5.0	<5.0	<10.	<5.0	<5.0
MW-201	2/29/00	36-38	260580	<5.0	<5.0	<10.	<5.0	<5.0
MW-201	11/8/00	36-38	280705	<5.0	<5.0	<10.	<2.0	<5.0
MW-201	6/20/01	36-38	296400	<5.0	<5.0	<10.	<2.0	<5.0
MW-202	7/14/95	33-35	W5070191-05	NA	NA	<20	<10	<5.0
MW-202	2/6/97	33-35	W7020074-22	NA	NA	<20	<10	<5.0
MW-202	11/23/99	33-35	253797	<5.0	<5.0	<10.	<5.0	<5.0
MW-202	2/28/00	33-35	260595	<5.0	<5.0	<10.	<5.0	<5.0
MW-202	11/8/00	33-35	280706	<5.0	<5.0	<10.	<2.0	<5.0
MW-202 Dup.	11/8/00	33-35	280707	<5.0	<5.0	<10.	<2.0	<5.0
MW-202	6/21/01	33-35	296406	<5.0	<5.0	<10.	<2.0	<5.0
MW-301	2/6/97	45-50	W7020074-17	NA	NA	<20	<10	<5.0
MW-301	11/23/99	45-50	253808	<5.0	<5.0	<10	<5.0	<5.0
MW-301	2/29/00	45-50	260578	<5.0	<5.0	<10.	<5.0	<5.0
MW-301	11/8/00	45-50	280708	<5.0	<5.0	<10.	<2.0	<5.0
MW-301 Dup.	11/8/00	45-50	280709	<5.0	<5.0	<10.	<2.0	<5.0
MW-301	6/20/01	45-50	296396	<5.0	<5.0	<10.	<2.0	<5.0
MW-301 Dup.	6/20/01	45-50	296397	<5.0	<5.0	<10.	<2.0	<5.0
MW-302	2/6/97	45-55	W7020074-18	NA	NA	<20	<10	<5.0
MW-302	11/23/99	45-55	253795	<5.0	<5.0	<10.	<5.0	<5.0
MW-302	2/28/00	45-55	260593	<5.0	<5.0	<10.	<5.0	<5.0
MW-302	11/8/00	45-55	280710	<5.0	<5.0	<10.	<2.0	<5.0
MW-302	6/21/01	45-55	296403	<5.0	<5.0	<10.	<2.0	<5.0
OB-1	11/23/99	5-15	253805	<5.0	<5.0	<10.	<5.0	<5.0
OB-2	11/23/99	5-15	253806	<5.0	<5.0	<10.	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]				13.7[2]	13.7[2]	NA	2	10,000
Tier II Non-Residential Cleanup Goals - Groundwater [1]				5,110[2]	5,110[2]	NA	10	204,400

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = result is estimated
NA = Not Applicable
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 8b
Deep Monitoring Well Groundwater Analytical Results for PAHs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
MW-200	6/20/2001	45-50	296391	<18	<10	<6.6	0.35	0.34	0.53	<0.76	0.31	0.57	0.21	<2.1	<2.1	0.34	<8.0	<6.4	<2.7
MW-200 Dup.	6/20/2001	45-50	296392	<18	<10	<6.6	0.23	0.21	0.34	<0.76	0.21	0.37	<0.20	<2.1	<2.1	0.21	<8.0	<6.4	<2.7
MW-201	6/20/2001	36-38	296400	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-202	6/21/2001	33-35	296406	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-301	6/20/2001	45-50	296396	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-301 Dup.	6/20/2001	45-50	296397	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
MW-302	6/21/2001	45-55	296403	<18	<10	<6.6	<0.20	<0.20	<0.20	<0.76	<0.20	<0.20	<0.20	<2.1	<2.1	<0.20	<8.0	<6.4	<2.7
Tier II Residential Cleanup Goals - Groundwater [1]				1,824	6.89[2]	9,120	0.10	0.20	0.20	38.4[2]	0.20	0.20	0.30	243.2	1,216	0.40	1,216	230[3]	912
Tier II Non-Residential Cleanup Goals - Groundwater [1]				6,132	2,040[2]	30,660	10	10	10	613[2]	39.2	391.8	10	817.6	4,088	10	4,088	230[3]	3,066

Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal
PAHs = Polynuclear Aromatic Hydrocarbons
Samples analyzed using EPA SW-846 Method 8310
µg/L = micrograms per liter
NA = Not Applicable
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.
[3] Tier II Residential Cleanup Goal under Indiana Voluntary Remediation Program

Table 8c

Deep Monitoring Well Groundwater Analytical Results for Metals (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Total Arsenic	Total Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Selenium	Total Silver
MW-165D	1/30/2002	42-47	312999	NA	NA	<1.0	9.6	10.7	NA	NA	NA
MW-166D	1/31/2002	46-51	313000	NA	NA	<1.0	9.1	14.7	NA	NA	NA
MW-167D	1/31/2002	28-33	313005	NA	NA	<1.0	6.8	23.5	NA	NA	NA
MW-168D	1/31/2002	26-31	313004	NA	NA	<1.0	8.9	22.6	NA	NA	NA
MW-169D	1/30/2002	32-37	312996	NA	NA	<1.0	<2.0	1.8	NA	NA	NA
MW-170D	1/31/2002	34-39	313001	NA	NA	<1.0	<5.0	4	NA	NA	NA
MW-171D	1/30/2002	44-49	312998	NA	NA	<1.0	<5.0	6.3	NA	NA	NA
MW-200	11/8/2000	45-50	280703	<5.	37	<5.	<10.	18	<0.5	<5.	<5.
MW-200 Dup.	11/8/2000	45-50	280704	<5.	42	<5.	<10.	23	<0.5	<5.	<5.
MW-200	6/20/2001	45-50	296391	NA	NA	<5.	11	87	NA	NA	NA
MW-200 Dup.	6/20/2001	45-50	296392	NA	NA	<5.	<10.	85	NA	NA	NA
MW-201	11/8/2000	36-38	280705	6	790	<5.	<10.	11	<0.5	6	<5.
MW-201	6/20/2001	36-38	296400	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-202	11/8/2000	33-35	280706	9	190	<5.	<10.	<5.	<0.5	<5.	<5.
MW-202 Dup.	11/8/2000	33-35	280707	10	190	<5.	<10.	<5.	<0.5	<5.	<5.
MW-202	6/21/2001	33-35	296406	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-301	11/8/2000	45-50	280708	6	320	62	<10.	8	<0.5	<5.	<5.
MW-301 Dup.	11/8/2000	45-50	280709	<5.	300	52	<10.	9	<0.5	5	<5.
MW-301	6/20/2001	45-50	296396	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-301 Dup.	6/20/2001	45-50	296397	NA	NA	<5.	<10.	<5.	NA	NA	NA
MW-302	11/8/2000	45-55	280710	<5.	200	<5.	<10.	11	<0.5	<5.	<5.
MW-302 Dup	11/8/2000	45-55	280711	<5.	200	<5.	<10.	10	<0.5	<5.	<5.
MW-302	6/21/2001	45-55	296403	NA	NA	<5.	<10.	<5.	NA	NA	NA
Tier II Residential Cleanup Goals - Groundwater [1]				50	2,000	5.0	100	15[2]	2.0	50	152
Tier II Non-Residential Cleanup Goals - Groundwater [1]				50	7,154	51.1	511	15[2]	6.1	511	511

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal

Detected compound is below the VRP Tier II Residential Cleanup Goal

Samples analyzed using EPA Method Series 6000/7000

µg/L = micrograms per liter NA = Not Applicable

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996

[2] IDEM VRP Interoffice Memo dated on January 26, 1998

Table 9
Sediment Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane (Methyl Bromide)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform
STA-SED	3/2/00	260563	<0.10	<0.25	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.020
STB-SED	3/2/00	260564	<0.10	<0.25	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.020
STC-SED	3/2/00	260565	<0.10	<0.25	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.020
STD-SED	3/2/00	260566	<0.10	<0.25	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.020
STE-SED	3/2/00	260567	<0.10	<0.25	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.020
EPA Sediment Quality Benchmarks (SQBs)[1]			NA	NA	NA	0.057	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2	0.82	NA	NA	NA

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
mg/kg = milligrams per kilogram
[1] ECO Update, EPA 540/F-95/038, January 1996

Table 9
Sediment Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	Chloromethane (Methyl Chloride)	2-Chlortoluene	4-Chlorotoluene	2-Chloroethyl vinyl ether	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	Dibromomethane (Methylene Bromide)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	trans-1,4-Dichloro-2-butene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethylene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethene	1,2-Dichloropropane
STA-SED	3/2/00	260563	<0.010	<0.005	<0.005	<0.050	<0.010	<0.005	<0.010	<0.005	<0.005	<0.005	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
STB-SED	3/2/00	260564	<0.010	<0.005	<0.005	<0.050	<0.010	<0.005	<0.010	<0.005	<0.005	<0.005	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
STC-SED	3/2/00	260565	<0.010	<0.005	<0.005	<0.050	<0.010	<0.005	<0.010	<0.005	<0.005	<0.005	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
STD-SED	3/2/00	260566	<0.010	<0.005	<0.005	<0.050	<0.010	<0.005	<0.010	<0.005	<0.005	<0.005	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
STE-SED	3/2/00	260567	<0.010	<0.005	<0.005	<0.050	<0.010	<0.005	<0.010	<0.005	<0.005	<0.005	<0.010	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
EPA Sediment Quality Benchmarks (SQBs)[1]			NA	NA	NA	NA	NA	NA	NA	0.34	1.7	0.35	NA	NA	NA	NA	NA	NA	NA	NA

VOCs = Volatile Organic Compounds
Sa[illegible] analyzed using EPA SW-846 Method 8260
mg[illegible] milligrams per kilogram
1) ECO Update, EPA 540/F-95/038, January 1996

Table 9
Sediment Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Ethyl methacrylate	2-Hexanone	Hexachlorobutadiene	Iodomethane	Isopropylbenzene	p-Isopropyltoluene	Methylene chloride	Methyl Ethyl Ketone	Methyl(tert) butyl ether (MTBE)	4-Methyl-2-pentanone (MIBK)	Naphthalene	n-Propylbenzene
STA-SED	3/2/00	260563	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.050	<0.005	<0.010	<0.005	<0.005	<0.025	<0.050	<0.010	<0.050	<0.005	<0.005
STB-SED	3/2/00	260564	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.050	<0.005	<0.010	<0.005	<0.005	<0.025	<0.050	<0.010	<0.050	<0.005	<0.005
STC-SED	3/2/00	260565	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.050	<0.005	<0.010	<0.005	<0.005	<0.025	<0.050	<0.010	<0.050	<0.005	<0.005
STD-SED	3/2/00	260566	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.050	<0.005	<0.010	<0.005	<0.005	<0.025	<0.050	<0.010	<0.050	<0.005	<0.005
STE-SED	3/2/00	260567	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.050	<0.005	<0.010	<0.005	<0.005	<0.025	<0.050	<0.010	<0.050	<0.005	<0.005
EPA Sediment Quality Benchmarks (SQBs)[1]			NA	NA	NA	NA	NA	3.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.48	NA

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
mg/kg = milligrams per kilogram
[1] ECO Update, EPA 540/F-95/038, January 1996

Table 9
Sediment Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethylene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethylene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	Vinyl chloride	Xylenes, Total
STA-SED	3/2/00	260563	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005
STB-SED	3/2/00	260564	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005
STC-SED	3/2/00	260565	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005
STD-SED	3/2/00	260566	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005
STE-SED	3/2/00	260567	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005
EPA Sediment Quality Benchmarks (SQBs)[1]			NA	NA	0.94	0.53	0.67	NA	9.2	0.17	NA	1.6	NA	NA	NA	NA	NA	NA	0.025

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
mg/kg = milligrams per kilogram
[1] ECO Update, EPA 540/F-95/038, January 1996

Table 10
Surface Water Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane
ST-1	10/4/1996	NA	W6100112-01	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA	NA	NA	<5.0	<5.0	<5.0	<5.0
ST-1	2/10/1997	NA	W7020149-02	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA	NA	NA	<5.0	<5.0	<5.0	<5.0
ST-2	10/4/1996	NA	W6100112-02	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA	NA	NA	<5.0	<5.0	<5.0	<5.0
ST-2	2/10/1997	NA	W7020149-03	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA	NA	NA	<5.0	<5.0	<5.0	<5.0
ST-2 Dup.	2/10/1997	NA	W7020149-04	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA	NA	NA	<5.0	<5.0	<5.0	<5.0
ST-3	10/4/1996	NA	W6100112-03	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA	NA	NA	<5.0	<5.0	<5.0	<5.0
ST-3	2/10/1997	NA	W7020149-01	<20	NA	NA	<5.0	NA	NA	<5.0	<5.0	<10	NA	NA	NA	<5.0	<5.0	<5.0	<5.0
STA-SW	3/2/2000	NA	260554	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STB-SW	3/2/2000	NA	260556	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STC-SW	3/2/2000	NA	260558	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STD-SW	3/2/2000	NA	260560	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STE-SW	3/2/2000	NA	260562	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
USEPA Tier II Cleanup Goals [1]				NA	NA	NA	46	NA	NA	NA	NA	NA	NA	NA	NA	NA	240	130	NA

VOCs = Volatile Organic Compounds
µg/L = micrograms per liter NA = Not Applicable
[1] ECO Update, EPA 540/F-95/038, January 1996

Table 10
Surface Water Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	2-Chloroethyl vinyl ether	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	trans-1,4-Dichloro-2-butene	1,1-Dichloroethane
ST-1	10/4/1996	NA	W6100112-01	<5.0	<5.0	<10	NA	NA	<10	NA	NA	NA	<10	<10	<10	NA	NA	<5.0
ST-1	2/10/1997	NA	W7020149-02	<5.0	<5.0	<10	NA	NA	<10	NA	NA	NA	<10	<10	<10	NA	NA	<5.0
ST-2	10/4/1996	NA	W6100112-02	<5.0	<5.0	<10	NA	NA	<10	NA	NA	NA	<10	<10	<10	NA	NA	<5.0
ST-2	2/10/1997	NA	W7020149-03	<5.0	<5.0	<10	NA	NA	<10	NA	NA	NA	<10	<10	<10	NA	NA	<5.0
ST-2 Dup.	2/10/1997	NA	W7020149-04	<5.0	<5.0	<10	NA	NA	<10	NA	NA	NA	<10	<10	<10	NA	NA	<5.0
ST-3	10/4/1996	NA	W6100112-03	<5.0	<5.0	<10	NA	NA	<10	NA	NA	NA	<10	<10	<10	NA	NA	<5.0
ST-3	2/10/1997	NA	W7020149-01	<5.0	<5.0	<10	NA	NA	<10	NA	NA	NA	<10	<10	<10	NA	NA	<5.0
STA-SW	3/2/2000	NA	260554	<10.	<20	<10.	<5.0	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10	<50	<5.0
STB-SW	3/2/2000	NA	260556	<10.	<20	<10.	<5.0	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10	<50	<5.0
STC-SW	3/2/2000	NA	260558	<10.	<20	<10.	<5.0	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10	<50	<5.0
STD-SW	3/2/2000	NA	260560	<10.	<20	<10.	<5.0	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10	<50	<5.0
STE-SW	3/2/2000	NA	260562	<10.	<20	<10.	<5.0	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10	<50	<5.0
USEPA Tier II Cleanup Goals [1]				NA	NA	NA	NA	NA	NA	NA	NA	NA	14	71	15	NA	NA	47

VOCs = Volatile Organic Compounds
µg/L = micrograms per liter NA = Not Applicable
[1] ECO Update, EPA 540/F-95/038, January 1996

Table 10
Surface Water Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Ethyl methacrylate	2-Hexanone	Hexachlorobutadiene	Iodomethane
ST-1	10/4/1996	NA	W6100112-01	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	<5.0	<5.0	<5.0	NA	<20	NA	NA
ST-1	2/10/1997	NA	W7020149-02	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	<5.0	<5.0	<5.0	NA	<20	NA	NA
ST-2	10/4/1996	NA	W6100112-02	<5.0	<5.0	**17**	<5.0	<5.0	NA	NA	NA	<5.0	<5.0	<5.0	NA	<20	NA	NA
ST-2	2/10/1997	NA	W7020149-03	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	<5.0	<5.0	<5.0	NA	<20	NA	NA
ST-2 Dup.	2/10/1997	NA	W7020149-04	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	<5.0	<5.0	<5.0	NA	<20	NA	NA
ST-3	10/4/1996	NA	W6100112-03	<5.0	<5.0	**14**	<5.0	<5.0	NA	NA	NA	<5.0	<5.0	<5.0	NA	<20	NA	NA
ST-3	2/10/1997	NA	W7020149-01	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	<5.0	<5.0	<5.0	NA	<20	NA	NA
STA-SW	3/2/2000	NA	260554	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<50.	<5.0	<10.
STB-SW	3/2/2000	NA	260556	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<50.	<5.0	<10.
STC-SW	3/2/2000	NA	260558	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<50.	<5.0	<10.
STD-SW	3/2/2000	NA	260560	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<50.	<5.0	<10.
STE-SW	3/2/2000	NA	260562	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<50.	<5.0	<10.
USEPA Tier II Cleanup Goals [1]				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	290	NA	NA	NA	NA

VOCs = Volatile Organic Compounds
µg/L = micrograms per liter NA = Not Applicable
[1] ECO Update, EPA 540/F-95/038, January 1996

Table 10
Surface Water Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Isopropylbenzene	p-Isopropyltoluene	Methylene chloride	Methyl-ethyl-ketone (MEK)	Methyl-tert-butyl ether (MTBE)	4-Methyl-2-pentanone (MIBK)	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene
ST-1	10/4/1996	NA	W6100112-01	NA	NA	<5.0	<20	NA	<20	NA	NA	<5.0	NA	<5.0	<5.0	<5.0	NA	NA
ST-1	2/10/1997	NA	W7020149-02	NA	NA	<5.0	<20	NA	<20	NA	NA	<5.0	NA	<5.0	<5.0	<5.0	NA	NA
ST-2	10/4/1996	NA	W6100112-02	NA	NA	<5.0	<20	NA	<20	NA	NA	<5.0	NA	<5.0	<5.0	<5.0	NA	NA
ST-2	2/10/1997	NA	W7020149-03	NA	NA	<5.0	<20	NA	<20	NA	NA	<5.0	NA	<5.0	<5.0	<5.0	NA	NA
ST-2 Dup.	2/10/1997	NA	W7020149-04	NA	NA	<5.0	<20	NA	<20	NA	NA	<5.0	NA	<5.0	<5.0	<5.0	NA	NA
ST-3	10/4/1996	NA	W6100112-03	NA	NA	<5.0	<20	NA	<20	NA	NA	<5.0	NA	<5.0	<5.0	<5.0	NA	NA
ST-3	2/10/1997	NA	W7020149-01	NA	NA	<5.0	<20	NA	<20	NA	NA	<5.0	NA	<5.0	<5.0	<5.0	NA	NA
STA-SW	3/2/2000	NA	260554	<5.0	<5.0	<10.	<50.	<10.	<50.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STB-SW	3/2/2000	NA	260556	<5.0	<5.0	<10.	<50.	<10.	<50.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STC-SW	3/2/2000	NA	260558	<5.0	<5.0	<10.	<50.	<10.	<50.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STD-SW	3/2/2000	NA	260560	<5.0	<5.0	<10.	<50.	<10.	<50.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STE-SW	3/2/2000	NA	260562	<5.0	<5.0	<10.	<50.	<10.	<50.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
USEPA Tier II Cleanup Goals [1]				NA	NA	NA	NA	NA	NA	24	NA	NA	NA	420	120	130	NA	110

VOCs = Volatile Organic Compounds
µg/L = micrograms per liter NA = Not Applicable
[1] ECO Update, EPA 540/F-95/038, January 1996

Table 10
Surface Water Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	Vinyl chloride	Xylenes, (Total)
ST-1	10/4/1996	NA	W6100112-01	<5.0	<5.0	<5.0	NA	NA	NA	NA	<20	<10	<5.0
ST-1	2/10/1997	NA	W7020149-02	<5.0	<5.0	<5.0	NA	NA	NA	NA	<20	<10	<5.0
ST-2	10/4/1996	NA	W6100112-02	<5.0	<5.0	<5.0	NA	NA	NA	NA	<20	<10	<5.0
ST-2	2/10/1997	NA	W7020149-03	<5.0	<5.0	<5.0	NA	NA	NA	NA	<20	<10	<5.0
ST-2 Dup.	2/10/1997	NA	W7020149-04	<5.0	<5.0	<5.0	NA	NA	NA	NA	<20	<10	<5.0
ST-3	10/4/1996	NA	W6100112-03	<5.0	<5.0	<5.0	NA	NA	NA	NA	<20	<10	<5.0
ST-3	2/10/1997	NA	W7020149-01	<5.0	<5.0	<5.0	NA	NA	NA	NA	<20	<10	<5.0
STA-SW	3/2/2000	NA	260554	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
STB-SW	3/2/2000	NA	260556	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
STC-SW	3/2/2000	NA	260558	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
STD-SW	3/2/2000	NA	260560	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
STE-SW	3/2/2000	NA	260562	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
USEPA Tier II Cleanup Goals [1]				62	NA	350	NA	NA	NA	NA	NA	NA	1.8

VOCs = Volatile Organic Compounds
µg/L = micrograms per liter NA = Not Applicable
[1] ECO Update, EPA 540/F-95/038, January 1996

Table 11
Sediment Pore Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene
STA-GW	3/2/2000	260553	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STB-GW	3/2/2000	260555	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STC-GW	3/2/2000	260557	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STD-GW	3/2/2000	260559	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STE-GW	3/2/2000	260562	<50	<250	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]			3,040	NA	NA	5.0	NA	NA	0.289[2]	NA	NA	64[2]	64[2]	NA	1,060[2]	NA	NA

Detected compound exceeds the VRP Tier II Residential Cleanup Goal

Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds

µg/L = micrograms per liter

NA = Not Applicable

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996

[2] Calculated using surrogate toxicity values and Tier II equations

Table 11
Sediment Pore Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	2-Chloroethyl vinyl ether	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	trans-1,4-Dichloro-2-butene	1,1-Dichloroethane
STA-GW	3/2/2000	260553	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10	<50	<5.0
STB-GW	3/2/2000	260555	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10	<50	<5.0
STC-GW	3/2/2000	260557	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10	<50	<5.0
STD-GW	3/2/2000	260559	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10	<50	<5.0
STE-GW	3/2/2000	260562	<5.0	<10.	<20	<10.	<5.0	<5.0	<50.	<50.	<5.0	<10.	<5.0	<5.0	<5.0	<10	<50	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]			NA	23,161	100	NA	NA	NA	NA	NA	NA	NA	600	600	75	NA	NA	640

Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal
VOCs = Volatile Organic Compounds
µg/L = micrograms per liter
NA = Not Applicable
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 11
Sediment Pore Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Ethyl methacrylate	2-Hexanone	Hexachlorobutadiene	Iodomethane	Isopropylbenzene
STA-GW	3/2/2000	260553	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<50.	<5.0	<10.	<5.0
STB-GW	3/2/2000	260555	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<50.	<5.0	<10.	<5.0
STC-GW	3/2/2000	260557	<5.0	<5.0	6.3	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<50.	<5.0	<10.	<5.0
STD-GW	3/2/2000	260559	<5.0	<5.0	9.7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<50.	<5.0	<10.	<5.0
STE-GW	3/2/2000	260562	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<50.	<5.0	<10.	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]			5.0	7.0	70	128[2]	NA	NA	NA	NA	NA	NA	700	NA	NA	10	NA	690[2]

Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal
VOCs = Volatile Organic Compounds
µg/L = micrograms per liter
NA = Not Applicable
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 11
Sediment Pore Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	p-Isopropyltoluene	Methylene chloride	Methyl-ethyl-ketone (MEK)	Methyl-tert-butyl ether (MTBE)	4-Methyl-2-pentanone (MIBK)	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane
STA-GW	3/2/2000	260553	<5.0	<10.	<50.	<10.	<50.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STB-GW	3/2/2000	260555	<5.0	<10.	<50.	<10.	<50.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STC-GW	3/2/2000	260557	<5.0	<10.	6.3	<10.	<50.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STD-GW	3/2/2000	260559	<5.0	<10.	<50.	<10.	<50.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
STE-GW	3/2/2000	260562	<5.0	<10.	<50.	<10.	<50.	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]			NA	6.31[2]	917.72	45	1,520	1,216	64[2]	NA	5	5	5	1,000	NA	70	200	5

Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal
VOCs = Volatile Organic Compounds
µg/L = micrograms per liter
NA = Not Applicable
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.

Table 11
Sediment Pore Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	Vinyl chloride	Xylenes, (Total)
STA-GW	3/2/2000	260553	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
STB-GW	3/2/2000	260555	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
STC-GW	3/2/2000	260557	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
STD-GW	3/2/2000	260559	<5.0	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
STE-GW	3/2/2000	260562	19	<5.0	<5.0	<5.0	<5.0	<10.	<5.0	<5.0
Tier II Residential Cleanup Goals - Groundwater [1]			5	1,380 [2]	NA	13.7 [2]	13.7 [2]	NA	2	10,000

Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
µg/L = micrograms per liter
NA = Not Applicable

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996

[2] Calculated using surrogate toxicity values and Tier II equations.

Table 12a
Waste Characterization Sampling
Total VOC Analytical Results (ug/kg dw) in Soils
Former Allison Plant 10
700 North Olin Avenue
Indianapolis, Indiana

Sample No.	Date Sampled	Lab Sample No.	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	1,1-Dichloroethene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene
DRUM COMP 2	08/09/2000	272639	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
A-4 COMP	10/19/2000	278635	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
A-5 COMP	10/19/2000	278636	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
A-7 COMP	10/19/2000	278637	<5.5	<5.5	<5.5	<5.5	<5.5	**9.4**	<5.5	<5.5	<5.5	<5.5
A-6 COMP	10/19/2000	278638	<5.5	<5.5	<5.5	<5.5	**13**	**177**	**13**	<5.5	<5.5	<5.5
A-8 COMP	10/19/2000	278639	<5.7	<5.7	<5.7	<5.7	<5.7	**9.2**	<5.7	<5.7	<5.7	<5.7
A-9 COMP	10/19/2000	278640	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
A-3 COMP	10/06/2000	277730	**14**	**30**	**14**	<5.0	<5.0	**72**	<5.0	<5.0	**8.7**	<5.0
A-2/A-3	10/06/2000	277731	<380	**11,000**	**5,500**	**430**	<380	**19,000**	<380	**560**	**1,500**	**8,800**
A-1 COMP	10/06/2000	277732	<5.0	<5.0	<5.0	<5.0	**23**	**85**	**23**	<5.0	<5.0	<5.0
A-4-9 COMP	10/06/2000	277733	<5.0	<5.0	<5.0	<5.0	<5.0	**12**	<5.0	<5.0	<5.0	<5.0
Tier II Non-Residential Cleanup Goals Surface Soil[1]			16,630	NA	NA	NA	150	1,000,000	NA	1,000,000	NA	NA
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]			4,700	NA	NA	NA	80	102,490	NA	1,000,000	NA	NA

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
ug/kg dw = micrograms per kilogram dry weight
NS = Not Sampled
NA = Not Applicable
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 12a
Waste Characterization Sampling
Total VOC Analytical Results (ug/kg dw) in Soils
Former Allison Plant 10
700 North Olin Avenue
Indianapolis, Indiana

Sample No.	Date Sampled	Lab Sample No.	Methylene chloride	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Vinyl chloride	Xylenes, Total
DRUM COMP 2	08/09/2000	272639	NS	NS	NS	NS	NS	<5.0	NS	NS	NS	NS
A-4 COMP	10/19/2000	278635	**32**	<5.6	<5.6	<5.6	<5.6	**30**	<5.6	<5.6	<11	<5.6
A-5 COMP	10/19/2000	278636	<29	<5.8	<5.8	<5.8	<5.8	**83**	<5.8	<5.8	<12	<5.8
A-7 COMP	10/19/2000	278637	**30**	<5.5	<5.5	<5.5	<5.5	**30**	<5.5	<5.5	<11	<5.5
A-6 COMP	10/19/2000	278638	<28	<5.5	<5.5	<5.5	<5.5	**9.7**	<5.5	<5.5	**14**	<5.5
A-8 COMP	10/19/2000	278639	**47**	<5.7	<5.7	<5.7	<5.7	**41**	<5.7	<5.7	<11	<5.7
A-9 COMP	10/19/2000	278640	<30	<5.9	<5.9	<5.9	<5.9	**6.2**	<5.9	<5.9	<12	<5.9
A-3 COMP	10/06/2000	277730	**40**	**12**	**20**	<5.0	**130**	**32**	**160**	**45**	<10	**31**
A-2/A-3	10/06/2000	277731	<1,900	**9,900**	**3,500**	**160**	<380	**9,900**	**32,000**	**12,000**	<760	**4,900**
A-1 COMP	10/06/2000	277732	**82**	<5.0	<5.0	<5.0	<5.0	**170**	<5.0	<5.0	<10	<5.0
A-4-9 COMP	10/06/2000	277733	<25	<5.0	<5.0	<5.0	<5.0	**5.5**	<5.0	<5.0	<10	<5.0
Tier II Non-Residential Cleanup Goals Surface Soil[1]			NA	10,000,000	20,000,000[2]	101,230	1,000,000	24,790	100,000,000[2]	100,000,000[2]	20	1,000,000
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]			NA	10,000,000	20,000,000[2]	8,010	1,000,000	25,730	100,000,000[2]	100,000,000[2]	130	1,000,000

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
ug/kg dw = micrograms per kilogram dry weight
NS = Not Sampled
NA = Not Applicable
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 12b
Waste Characterization Sampling
Total RCRA Metal Analytical Results (mg/kg) in Soils
Former Allison Plant 10
700 North Olin Avenue
Indianapolis, Indiana

Sample No.	Date Sampled	Lab Sample No.	Total Arsenic	Total Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Selenium	Total Silver
A4 STOCKPILE	09/25/2000	276242	<25	140	3.7	17	600	<0.10	<10	<1.0
A4 BOTTOM 3'	09/25/2000	276243	<25	47	<0.50	8.8	28	<0.10	<10	<1.0
A5 STOCKPILE	09/25/2000	276244	<25	350	6.7	44	2,200	<0.10	<10	<1.0
A5 BOTTOM 2.5'	09/25/2000	276244	<25	58	<0.50	10	96	<0.10	<10	<1.0
A7 STOCKPILE	09/25/2000	276246	<25	86	<0.50	10	17	<0.10	<10	<1.0
A-6 COMP	10/19/2000	278638	<28	321	7.1	38	1,440	<0.11	<11	<1.1
A-8 COMP	10/19/2000	278639	<28	205	5.5	28	786	0.16	<11	1.6
A-9 COMP	10/19/2000	278640	<30	356	3.9	42	1,540	<0.12	<12	1.5
A-3 COMP	10/06/2000	277730	<25	640	16	65	2,300	0.13	<10	<1.0
A-1 COMP	10/06/2000	277732	<25	210	2.6	24	940	<0.10	<10	<1.0
A-2/A-3	10/06/2000	277731	<25	2,300	88	130	11,000	0.22	24	<1.0
A-6-8-9	10/06/2000	277734	<25	400	10	44	1,900	<0.10	<10	<1.0
Tier II Non-Residential Cleanup Goals Surface Soil[1]			612.0	10,000.0	1,020.0	10,000.0	1,000 [3]	122.4	10,000.0	10,000.0
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]			438.0	10,000.0	730.0	7,300.0	1,000 [3]	87.6	7,300.0	7,300.0
Common Background Ranges [2]			1.0 - 40	100 - 3,500	0.01 - 70	5.0 - 3000	2 - 200	0.01 - 0.08	0.1 - 2.0	0.1 - 50

Samples analyzed using EPA Method Series 6000/7000

mg/kg = milligrams per kilogram

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996

[2] Source: James Dragun. The Soil Chemistry of Hazardous Materials Table 3.1 Native Soil Concentration of Various Elements: p.229, 1988

[3] IDEM VRP Interoffice Memo dated on January 26, 1998

Table 13a
Waste Characterization Sampling
TCLP VOC Analytical Results (mg/L) in Soils
Former Allison Plant 10
700 North Olin Avenue
Indianapolis, Indiana

Sample No.	Date Sampled	Lab Sample No.	Benzene	Carbon tetrachloride	Chlorobenzene	Chloroform	1,4-Dichloro-benzene	1,2-Dichloroethane	1,1-Dichloroethene
DRUM COMP-1	05/11/2000	265836	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05
COMP	05/12/2000	266187	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05
SOIL DRUMS	09/25/2000	276247	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05
A-3 COMP	10/06/2000	277730	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05
A-2/A-3	10/06/2000	277731	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05
A-1 COMP	10/06/2000	277732	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05
A-4-9 COMP	10/06/2000	277733	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05
Maximum Concentration for the Toxicity Characteristic[1]			0.5	NA	100	6.0	7.5	0.5	0.7

TCLP = Toxicity Characteristic Leading Procedure
VOCs = Volatile Organic Compounds
mg/L = milligrams per liter
[1] Table 1 - Maximum Concentration of Contaminants for the Toxicity Characteristic

Table 13a
Waste Characterization Sampling
TCLP VOC Analytical Results (mg/L) in Soils
Former Allison Plant 10
700 North Olin Avenue
Indianapolis, Indiana

Sample No.	Date Sampled	Lab Sample No.	Methyl Ethyl Ketone	Tetrachloroethene	Trichloroethene	Vinyl chloride
DRUM COMP-1	05/11/2000	265836	<0.50	<0.05	**0.06**	<0.05
COMP	05/12/2000	266187	<0.50	<0.05	<0.05	<0.05
SOIL DRUMS	09/25/2000	276247	<0.50	<0.05	<0.05	<0.05
A-3 COMP	10/06/2000	277730	<0.50	<0.05	<0.05	<0.05
A-2/A-3	10/06/2000	277731	<0.50	<0.05	**0.064**	<0.05
A-1 COMP	10/06/2000	277732	<0.50	<0.05	<0.05	<0.05
A-4-9 COMP	10/06/2000	277733	<0.50	<0.05	<0.05	<0.05
Maximum Concentration for the Toxicity Characteristic[1]			200	0.7	0.5	0.2

TCLP = Toxicity Characteristic Leading Procedure
VOCs = Volatile Organic Compounds
mg/L = milligrams per liter
[1] Table 1 - Maximum Concentration of Contaminants for the Toxicity Ch

Table 13b
Waste Characterization Sampling
TCLP RCRA Metal Analytical Results (mg/L) in Soils
Former Allison Plant 10
700 North Olin Avenue
Indianapolis, Indiana

Sample No.	Date Sampled	Lab Sample No.	TCLP - Arsenic	TCLP - Barium	TCLP - Cadmium	TCLP - Chromium	TCLP - Lead	TCLP - Mercury	TCLP - Selenium	TCLP - Silver
DRUM COMP-1	05/11/2000	265836	<0.50	**1.1**	**1.4**	**0.017**	**0.31**	<0.005	<0.20	<0.10
COMP	05/12/2000	266187	<0.5	**2.0**	**0.53**	**0.018**	**13**	<0.005	<0.20	<0.10
A-1 COMP	10/06/2000	277732	**1.2**	**1.8**	**0.17**	**0.012**	**53**	<0.005	<0.005	<0.05
A-2/A-3	10/06/2000	277731	**1.0**	**3.8**	**1.8**	**0.016**	**130**	<0.005	<0.005	<0.05
A-3 COMP	10/06/2000	277730	**1.3**	**1.7**	**0.16**	<0.010	**3.4**	<0.005	<0.005	<0.05
A-6 COMP	10/19/2000	278638	**1.3**	**2.3**	**0.14**	<0.010	**2.3**	<0.005	<0.005	<0.05
A-8 COMP	10/19/2000	278639	**1.4**	**2.0**	**0.085**	<0.010	**1.2**	<0.005	<0.005	<0.05
A-9 COMP	10/19/2000	278640	**1.1**	**1.5**	**0.10**	<0.010	**3.6**	<0.005	<0.005	<0.05
Maximum Concentration for the Toxicity Characteristic[1]			5.0	100.0	1.0	5.0	5.0	0.2	1.0	5.0

TCLP = Toxicity Characteristic Leading Procedure

mg/L = milligrams per liter

[1] Table 1 - Maximum Concentration of Contaminants for the Toxicity Characteristic

Table 14a
Excavation Confirmation Surface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane (Methyl Bromide)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane (Methyl Chloride)	2-Chlorotoluene	4-Chlorotoluene	2-Chloroethyl vinyl ether	1,2 Dibromo-3 Chloropropane
A1 Sidewall 1 Surface	5/1/2001	291846	<0.100	<0.520	<0.260	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.010	<0.0052	<0.0052	<0.0052	<0.100	<0.0052	<0.0052	<0.0052	<0.010	<0.021	<0.010	<0.0052	<0.0052	ND	<0.100
A1 Sidewall 2 Surface	5/1/2001	291849	<0.110	<0.570	<0.280	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.110	<0.0057	<0.0057	<0.0057	<0.011	<0.023	<0.011	<0.0057	<0.0057	ND	<0.110
A1 Sidewall 3 Surface	5/1/2001	291851	<0.100	<0.520	<0.260	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.010	<0.0052	<0.0052	<0.0052	<0.100	<0.0052	<0.0052	<0.0052	<0.010	<0.021	<0.010	<0.0052	<0.0052	ND	<0.100
A1 Sidewall 4 Surface	5/1/2001	291853	<0.110	<0.530	<0.260	<0.0053	<0.095	<0.0053	<0.0053	<0.0053	<0.011	<0.095	<0.095	<0.095	<0.110	<0.0053	<0.0053	<0.0053	<0.011	<0.021	<0.011	<0.095	<0.095	ND	<1.9
A1 Sidewall 5 Surface	5/4/2001	292259	<0.100	<0.250	<0.250	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.010	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.010	<0.020	<0.010	<0.0051	<0.0051	<0.051	<0.010
A2 Sidewall 1 Surface	5/9/2001	292402	<0.12	<0.6	<0.3	<0.006	<0.006	<0.006	<0.006	<0.006	<0.012	<0.006	<0.006	<0.006	<0.12	<0.006	<0.006	<0.006	<0.012	<0.024	<0.012	<0.006	<0.006	ND	<0.120
A2 Sidewall 2 Surface	5/9/2001	292404	<0.11	<0.57	<0.28	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.11	<0.0057	<0.0057	<0.0057	<0.011	<0.023	<0.011	<0.0057	<0.0057	ND	<0.11
A2 Sidewall 3 Surface	5/9/2001	292406	<0.11	<0.57	<0.29	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.11	<0.0057	<0.0057	<0.0057	<0.011	<0.023	<0.011	<0.0057	<0.0057	ND	<0.11
A2 Sidewall 4 Surface	5/9/2001	292411	<0.12	<0.58	<0.29	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.012	<0.0058	<0.0058	<0.0058	<0.12	<0.0058	<0.0058	<0.0058	<0.012	<0.023	<0.012	<0.0058	<0.0058	ND	<0.12
A2 Sidewall 5 Surface	5/10/2001	292569	<0.120	<0.290	<0.290	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.024	<0.012	<0.0059	<0.0059	<0.059	<0.012
A2 Sidewall 6 Surface	5/10/2001	292571	<0.110	<0.280	<0.280	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.023	<0.011	<0.0057	<0.0057	<0.057	<0.011
A2 Sidewall 7 Surface	5/10/2001	292573	<0.110	<0.280	<0.280	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.022	<0.011	<0.0056	<0.0056	<0.056	<0.011
A3 Sidewall 1 Surface	4/10/2001	290206	<0.109	<0.272	<0.272	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054	<0.0054	<0.054	<0.011
A3 Sidewall 2 Surface	4/10/2001	290208	<0.108	<0.269	<0.259	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054	<0.0054	<0.054	<0.011
A3 Sidewall 3 Surface	4/10/2001	290211	<0.110	<0.274	<0.274	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.022	<0.011	<0.0055	<0.0055	<0.055	<0.011
A3 Sidewall 4 Surface	4/23/2001	291216	<0.107	<0.268	<0.268	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.021	<0.011	<0.0054	<0.0054	<0.054	<0.011
A3 Sidewall 6 Surface	4/25/2001	291422	<0.111	<0.556	<0.278	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.111	<0.0056	<0.0056	<0.0056	<0.011	<0.022	<0.011	<0.0056	<0.0056	ND	<0.011
A3 Sidewall 7 Surface	4/25/2001	291424	<0.110	<0.551	<0.275	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.110	<0.0055	<0.0055	<0.0055	<0.011	<0.022	<0.011	<0.0055	<0.0055	ND	<0.011
A3 Sidewall 8 Surface	5/4/2001	292257	<0.100	<0.250	<0.250	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.010	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.010	<0.020	<0.010	<0.0051	<0.0051	<0.051	<0.010
A3 Sidewall 9 Surface	5/4/2001	292263	<0.370	<0.910	<0.910	<0.018	<0.018	<0.018	<0.018	<0.018	<0.036	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.036	<0.073	<0.036	<0.018	<0.018	<0.180	<0.036
A3 Sidewall 10 Surface	5/4/2001	292265	<0.110	<0.280	<0.280	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.022	<0.011	<0.0056	<0.0056	<0.056	<0.011
A4 Sidewall 1 Surface	5/4/2001	292247	<0.110	<0.270	<0.270	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054	<0.0054	<0.054	<0.011
A4 Sidewall 2 Surface	5/4/2001	292252	<0.110	<0.270	<0.270	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054	<0.0054	<0.054	<0.011
A5 Sidewall 1 Surface	5/4/2001	292240	<0.110	<0.280	<0.280	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.022	<0.011	<0.0056	<0.0056	<0.056	<0.011
A5 Sidewall 2 Surface	5/4/2001	292243	<0.110	<0.280	<0.280	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.023	<0.011	<0.0057	<0.0057	<0.057	<0.011
A5 Sidewall 3 Surface	5/4/2001	292245	<0.110	<0.260	<0.260	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.021	<0.011	<0.0053	<0.0053	<0.053	<0.011
A6 Sidewall 1 Surface	4/25/2001	291426	<0.109	<0.545	<0.272	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.109	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054	<0.0054	ND	<0.011
A6 Sidewall 1a Surface	5/22/2001	293507	<0.110	<0.280	<0.280	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.023	<0.011	<0.0057	<0.0057	<0.057	<0.011
A6 Sidewall 2 Surface	5/1/2001	291856	<0.110	<0.570	<0.280	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.110	<0.0057	<0.0057	<0.0057	<0.011	<0.023	<0.011	<0.0057	<0.0057	ND	<0.110
A6 Sidewall 3 Surface	4/25/2001	291432	<0.107	<0.536	<0.268	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.107	<0.0054	<0.0054	<0.0054	<0.011	<0.021	<0.011	<0.0054	<0.0054	ND	<0.011
A6 Sidewall 3a Surface	5/22/2001	293503	<0.110	<0.280	<0.280	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.023	<0.011	<0.0057	<0.0057	<0.057	<0.011
A7 Floor 1 Surface	5/1/2001	291857	<0.110	<0.560	<0.280	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.110	<0.0056	<0.0056	<0.0056	<0.011	<0.022	<0.011	<0.0056	<0.0056	ND	<0.110
A7 Floor 1 Surface Dup.	5/1/2001	291861	<0.110	<0.560	<0.280	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.110	<0.0056	<0.0056	<0.0056	<0.011	<0.022	<0.011	<0.0056	<0.0056	ND	<0.110
A7 Sidewall 1 Surface	5/1/2001	291858	<0.110	<0.530	<0.270	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.110	<0.0053	<0.0053	<0.0053	<0.011	<0.021	<0.011	<0.0053	<0.0053	ND	<0.110
A7 Sidewall 2 Surface	5/1/2001	291859	<0.110	<0.530	<0.270	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.110	<0.0053	<0.0053	<0.0053	<0.011	<0.021	<0.011	<0.0053	<0.0053	ND	<0.110
A7 Sidewall 3 Surface	5/1/2001	291863	<0.110	<0.540	<0.270	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.110	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054	<0.0054	ND	<0.110
A8 Sidewall 1 Surface	4/10/2001	290214	<0.118	<0.296	<0.296	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.024	<0.012	<0.0059	<0.0059	<0.059	<0.012
A8 Sidewall 2 Surface	4/10/2001	290217	<0.12	<0.300	<0.300	<0.006	<0.006	<0.006	<0.006	<0.006	<0.012	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.012	<0.024	<0.012	<0.006	<0.006	<0.060	<0.012
A8 Sidewall 3 Surface	5/1/2001	291864	<0.110	<0.550	<0.270	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.110	<0.0055	<0.0055	<0.0055	<0.011	<0.022	<0.011	<0.0055	<0.0055	ND	<0.110
A8 Sidewall 4 Surface	5/1/2001	291865	<0.110	<0.540	<0.270	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.110	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054	<0.0054	ND	<0.110
Tier II Residential Cleanup Goals Surface Soil[1,3]			1,000	NA	NA	22.07	NA	NA	10.3[2]	NA	NA	1,000[2]	1,000[2]	1,000[2]	1,000[2]	NA	1,000[2]	NA	NA	104.92	NA	NA	NA	NA	NA
Tier II Non-Residential Cleanup Goals Surface Soil[1,3]			1,000	NA	NA	16.63	NA	NA	101[2]	NA	NA	1,000[2]	1,000[2]	1,000[2]	1,000[2]	NA	1,000[2]	NA	1,000	5.28	NA	NA	NA	NA	NA

Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds

mg/kg = milligrams per kilogram

E = result is estimated NA = Not Applicable

(1) Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996

(2) Calculated using surrogate toxicity values and Tier II equations.

(3) Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 14a
Excavation Confirmation Surface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	1,2-Dibromoethane	Dibromomethane (Methylene Bromide)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	trans-1,4-Dichloro-2-butene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethylene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Ethyl methacrylate	2-Hexanone	Hexachlorobutadiene	Iodomethane	Isopropylbenzene
A1 Sidewall 1 Surface	5/1/2001	291846	<0.0052	<0.010	<0.0052	<0.0052	<0.0052	<0.052	<0.100	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.052	<0.052	<0.0052	<0.010	<0.0052
A1 Sidewall 2 Surface	5/1/2001	291849	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.057	<0.110	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	0.012	<0.0057	<0.0057	<0.0057	<0.057	<0.057	<0.0057	<0.011	<0.0057
A1 Sidewall 3 Surface	5/1/2001	291851	<0.0052	<0.010	<0.0052	<0.0052	<0.0052	<0.052	<0.100	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.052	<0.052	<0.0052	<0.010	<0.0052
A1 Sidewall 4 Surface	5/1/2001	291853	<0.0053	<0.011	<0.095	<0.095	<0.095	<0.053	<0.110	<0.0053	<0.0053	<0.0053	0.035	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.053	<0.053	<0.095	<0.011	<0.0053
A1 Sidewall 5 Surface	5/4/2001	292259	<0.0051	<0.010	<0.0051	<0.0051	<0.0051	<0.010	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.010	<0.051	<0.0051	<0.010	<0.0051
A2 Sidewall 1 Surface	5/9/2001	292402	<0.006	<0.012	<0.006	<0.006	<0.006	<0.06	ND	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.306	<0.006	<0.006	<0.006	<0.006	<0.06	<0.06	<0.006	<0.012	<0.006
A2 Sidewall 2 Surface	5/9/2001	292404	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.057	ND	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.057	<0.057	<0.0057	<0.011	<0.0057
A2 Sidewall 3 Surface	5/9/2001	292406	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.057	ND	<0.0057	<0.0057	<0.0057	0.015	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.057	<0.057	<0.0057	<0.011	<0.0057
A2 Sidewall 4 Surface	5/9/2001	292411	<0.0058	<0.012	<0.0058	<0.0058	<0.0058	<0.058	ND	<0.0058	<0.0058	<0.0058	0.0069	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.058	<0.058	<0.0058	<0.012	<0.0058
A2 Sidewall 5 Surface	5/10/2001	292569	<0.0059	<0.012	<0.0059	<0.0059	<0.0059	<0.012	<0.059	<0.0059	<0.0059	<0.0059	0.014	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.059	<0.0059	<0.012	<0.0059
A2 Sidewall 6 Surface	5/10/2001	292571	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.057	<0.0057	<0.011	<0.0057
A2 Sidewall 7 Surface	5/10/2001	292573	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.056	<0.0056	<0.011	<0.0056
A3 Sidewall 1 Surface	4/10/2001	290206	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.011	<0.0054
A3 Sidewall 2 Surface	4/10/2001	290208	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.011	<0.0054
A3 Sidewall 3 Surface	4/10/2001	290211	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.055	<0.0055	<0.011	<0.0055
A3 Sidewall 4 Surface	4/23/2001	291216	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.011	<0.0054
A3 Sidewall 6 Surface	4/25/2001	291422	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.056	ND	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.056	<0.056	<0.0056	<0.011	<0.0056
A3 Sidewall 7 Surface	4/25/2001	291424	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.055	ND	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.055	<0.055	<0.0055	<0.011	<0.0055
A3 Sidewall 8 Surface	5/4/2001	292257	<0.0051	<0.010	<0.0051	<0.0051	<0.0051	<0.010	<0.051	<0.0051	<0.0051	<0.0051	0.0059	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.010	<0.051	<0.0051	<0.010	<0.0051
A3 Sidewall 9 Surface	5/4/2001	292263	<0.018	<0.036	<0.018	<0.018	<0.018	<0.036	<0.180	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.036	<0.180	<0.018	<0.036	<0.018
A3 Sidewall 10 Surface	5/4/2001	292265	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.056	<0.0056	<0.011	<0.0056
A4 Sidewall 1 Surface	5/4/2001	292247	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.011	<0.0054
A4 Sidewall 2 Surface	5/4/2001	292252	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.011	<0.0054
A5 Sidewall 1 Surface	5/4/2001	292240	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.056	<0.0056	<0.0056	<0.0056	0.065	0.0061	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.056	<0.0056	<0.011	<0.0056
A5 Sidewall 2 Surface	5/4/2001	292243	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.057	<0.0057	<0.011	<0.0057
A5 Sidewall 3 Surface	5/4/2001	292245	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.053	<0.0053	<0.011	<0.0053
A6 Sidewall 1 Surface	4/25/2001	291426	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.054	ND	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.054	<0.054	<0.0054	<0.011	<0.0054
A6 Sidewall 1a Surface	5/22/2001	293507	<0.0057	<0.011	<0.057	<0.0057	<0.0057	<0.011	<0.057	<0.0057	<0.0057	<0.0057	0.0091	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.057	<0.0057	<0.011	<0.0057
A6 Sidewall 2 Surface	5/1/2001	291856	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.057	<0.110	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.057	<0.057	<0.0057	<0.011	<0.0057
A6 Sidewall 3 Surface	4/25/2001	291432	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.054	ND	<0.0054	<0.0054	<0.0054	0.215	0.038	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.054	<0.054	<0.0054	<0.011	<0.0054
A6 Sidewall 3a Surface	5/22/2001	293503	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.057	<0.0057	<0.011	<0.0057
A7 Floor 1 Surface	5/1/2001	291857	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.056	<0.110	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.056	<0.056	<0.0056	<0.011	<0.0056
A7 Floor 1 Surface Dup.	5/1/2001	291861	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.056	<0.110	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.056	<0.056	<0.0056	<0.011	<0.0056
A7 Sidewall 1 Surface	5/1/2001	291858	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.053	<0.110	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.053	<0.053	<0.0053	<0.011	<0.0053
A7 Sidewall 2 Surface	5/1/2001	291859	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.053	<0.110	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.053	<0.053	<0.0053	<0.011	<0.0053
A7 Sidewall 3 Surface	5/1/2001	291863	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.054	<0.110	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.054	<0.054	<0.0054	<0.011	<0.0054
A8 Sidewall 1 Surface	4/10/2001	290214	<0.0059	<0.012	<0.0059	<0.0059	<0.0059	<0.012	<0.059	<0.0059	<0.0059	<0.0059	0.045	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.059	<0.0059	<0.012	<0.0059
A8 Sidewall 2 Surface	4/10/2001	290217	<0.006	<0.012	<0.006	<0.006	<0.006	<0.012	<0.060	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.012	<0.060	<0.006	<0.012	<0.006
A8 Sidewall 3 Surface	5/1/2001	291864	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.055	<0.110	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.055	<0.055	<0.0055	<0.011	<0.0055
A8 Sidewall 4 Surface	5/1/2001	291865	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.054	<0.110	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.054	<0.054	<0.0054	<0.011	<0.0054
Tier II Residential Cleanup Goals Surface Soil[1]			NA	NA	10,000	NA	26.67	NA	NA	1,000	7.03	1.07	1,000	1,000[2]	NA	NA	NA	6.40[2]	NA	NA	1,000	NA	NA	8.21	NA	1,000[2]
Tier II Non-Residential Cleanup Goals Surface Soil[1]			NA	NA	10,000	NA	2,416.67	NA	NA	973.47	5.27	0.15	1,000	1,000[2]	NA	NA	NA	209[2]	NA	NA	1,000	NA	NA	1.78	NA	647[2]

Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
mg/kg = milligrams per kilogram
E = result is estimated NA = Not Applicable
(1) Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996
(2) Calculated using surrogate toxicity values and Tier II equations.
(3) Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 14a
Excavation Confirmation Surface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	p-Isopropyltoluene	Methylene chloride	Methyl Ethyl Ketone	Methyl(tert) butyl ether (MTBE)	4-Methyl-2-pentanone (MIBK)	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	Vinyl chloride	Xylenes, Total
A1 Sidewall 1 Surface	5/1/2001	291846	0.023	<0.026	<0.100	<0.010	<0.052	<0.026	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.052	<0.010	<0.016
A1 Sidewall 2 Surface	5/1/2001	291849	<0.0057	<0.028	<0.110	<0.011	<0.057	<0.028	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.057	<0.011	<0.017
A1 Sidewall 3 Surface	5/1/2001	291851	<0.0052	<0.026	<0.100	<0.010	<0.052	<0.026	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.052	<0.010	<0.015
A1 Sidewall 4 Surface	5/1/2001	291853	<0.095	<0.026	<0.110	<0.011	<0.053	<0.470	<0.095	<0.0053	<0.0053	<0.095	<0.0053	<0.0053	<0.095	<0.095	<0.0053	<0.0053	13	<0.0053	<0.095	<0.095	<0.095	<0.053	<0.011	<0.016
A1 Sidewall 5 Surface	5/4/2001	292259	<0.0051	<0.025	<0.051	<0.010	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	0.022	<0.0051	<0.0051	<0.0051	<0.0051	<0.010	<0.010	<0.0051
A2 Sidewall 1 Surface	5/9/2001	292402	<0.006	<0.03	<0.12	<0.012	<0.06	<0.03	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.011	<0.006	<0.006	<0.006	<0.006	<0.06	<0.012	<0.018
A2 Sidewall 2 Surface	5/9/2001	292404	<0.0057	<0.028	<0.11	<0.011	<0.057	<0.028	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	0.011	<0.0057	<0.0057	<0.0057	<0.0057	<0.057	<0.011	<0.017
A2 Sidewall 3 Surface	5/9/2001	292406	<0.0057	<0.029	<0.11	<0.011	<0.057	<0.029	<0.057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	0.028	<0.0057	<0.0057	<0.0057	<0.0057	<0.057	<0.011	<0.017
A2 Sidewall 4 Surface	5/9/2001	292411	<0.0058	<0.029	<0.12	<0.012	<0.058	<0.029	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	0.037	<0.0058	<0.0058	<0.0058	<0.0058	<0.058	<0.012	<0.017
A2 Sidewall 5 Surface	5/10/2001	292569	<0.0059	<0.029	<0.059	<0.012	<0.059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.012	<0.0059
A2 Sidewall 6 Surface	5/10/2001	292571	<0.0057	<0.028	<0.057	<0.011	<0.057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.011	<0.0057
A2 Sidewall 7 Surface	5/10/2001	292573	<0.0056	<0.028	<0.056	<0.011	<0.056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	0.0064	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.011	<0.0056
A3 Sidewall 1 Surface	4/10/2001	290206	<0.0054	<0.027	<0.054	<0.011	<0.054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.011	<0.0054
A3 Sidewall 2 Surface	4/10/2001	290208	<0.0054	<0.027	<0.054	<0.011	<0.054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.011	<0.0054
A3 Sidewall 3 Surface	4/10/2001	290211	<0.0055	<0.027	<0.055	<0.011	<0.055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.011	<0.0055
A3 Sidewall 4 Surface	4/23/2001	291216	<0.0054	<0.027	<0.054	<0.011	<0.054	NA	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.021	<0.0054	<0.0054	<0.0054	<0.0054	0.0065	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.011	<0.0054
A3 Sidewall 6 Surface	4/25/2001	291422	<0.0056	0.156 E	<0.111	<0.011	<0.056	NA	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	0.011	<0.0056	<0.0056	<0.0056	<0.0056	<0.056	<0.011	<0.017
A3 Sidewall 7 Surface	4/25/2001	291424	<0.0055	0.286 E	<0.110	<0.011	<0.055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	0.615	0.0965	<0.055	<0.011	<0.017
A3 Sidewall 8 Surface	5/4/2001	292257	<0.0051	0.029	<0.051	<0.010	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	0.096	<0.0051	<0.0051	<0.0051	<0.0051	<0.010	<0.010	<0.0051
A3 Sidewall 9 Surface	5/4/2001	292263	<0.018	<0.091	<0.180	<0.036	<0.180	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.036	<0.036	<0.018
A3 Sidewall 10 Surface	5/4/2001	292265	<0.0056	<0.028	<0.056	<0.011	<0.056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	0.0093	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.011	<0.0056
A4 Sidewall 1 Surface	5/4/2001	292247	<0.0054	<0.027	<0.054	<0.011	<0.054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.011	<0.0054
A4 Sidewall 2 Surface	5/4/2001	292252	<0.0054	<0.027	<0.054	<0.011	<0.054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.17	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.011	<0.0054
A5 Sidewall 1 Surface	5/4/2001	292240	<0.0056	<0.028	<0.056	<0.011	<0.056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	0.0085	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.011	<0.0056
A5 Sidewall 2 Surface	5/4/2001	292243	<0.0057	<0.028	<0.057	<0.011	<0.057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.011	<0.0057
A5 Sidewall 3 Surface	5/4/2001	292245	<0.0053	<0.026	<0.053	<0.011	<0.053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.011	<0.0053
A6 Sidewall 1 Surface	4/25/2001	291426	<0.0054	0.163 E	<0.109	<0.011	<0.054	NA	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.054	<0.011	<0.016
A6 Sidewall 1a Surface	5/22/2001	293507	<0.0057	0.065	<0.057	<0.011	<0.057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	0.012	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.011	<0.0057
A6 Sidewall 2 Surface	5/1/2001	291856	<0.0057	<0.028	<0.110	<0.011	<0.0057	<0.028	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.057	<0.011	<0.017
A6 Sidewall 3 Surface	4/25/2001	291432	<0.0054	0.118 E	<0.107	<0.011	<0.054	NA	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.0086	<0.0054	<0.0054	<0.0054	<0.0054	<0.054	<0.011	<0.016
A6 Sidewall 3a Surface	5/22/2001	293503	<0.0057	<0.044	<0.057	<0.011	<0.057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.011	<0.0057
A7 Floor 1 Surface	5/1/2001	291857	<0.0056	<0.028	<0.110	<0.011	<0.056	<0.028	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.056	<0.011	<0.017
A7 Floor 1 Surface Dup.	5/1/2001	291861	<0.0056	<0.028	<0.110	<0.011	<0.056	<0.028	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.056	<0.011	<0.017
A7 Sidewall 1 Surface	5/1/2001	291858	<0.0053	<0.027	<0.110	<0.011	<0.053	<0.027	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	0.0079	<0.0053	<0.0053	<0.0053	<0.0053	<0.053	<0.011	<0.016
A7 Sidewall 2 Surface	5/1/2001	291859	<0.0053	<0.027	<0.110	<0.011	<0.053	<0.027	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.053	<0.011	<0.016
A7 Sidewall 3 Surface	5/1/2001	291863	<0.0054	<0.027	<0.110	<0.011	<0.0054	<0.027	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.054	<0.011	<0.016
A8 Sidewall 1 Surface	4/10/2001	290214	<0.0059	0.049	<0.059	<0.012	<0.059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	0.237	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.012	<0.0059
A8 Sidewall 2 Surface	4/10/2001	290217	<0.006	<0.030	<0.060	<0.012	<0.060	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.052	<0.006	<0.006	<0.006	<0.006	<0.012	<0.012	<0.006
A8 Sidewall 3 Surface	5/1/2001	291864	<0.0055	<0.027	<0.110	<0.011	<0.055	<0.027	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.055	<0.011	<0.016
A8 Sidewall 4 Surface	5/1/2001	291865	<0.0054	<0.027	<0.110	<0.011	<0.0054	<0.027	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.054	<0.011	<0.016
Tier II Residential Cleanup Goals Surface Soil[1]			1,000[2]	85.3[2]	1,000	NA	1,000	10,000	1,000[2]	NA	24.52	3.20	12.56	1,000	NA	2,700	1,000	11.23	58.18	1,000[2]	NA	1,000[2]	1,000[2]	NA	0.034	1,000
Tier II Non-Residential Cleanup Goals Surface Soil[1]			1,000[2]	816[2]	1,000	NA	1,000	10,000	1,000[2]	410,000[2]	75.91	75.41	101.23	1,000	NA	10,000	1,000	22.74	24.97	1,000[2]	NA	1,000[2]	435[2]	NA	0.02	1,000

Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds

mg/kg = milligrams per kilogram

E = result is estimated NA = Not Applicable

(1) Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996

(2) Calculated using surrogate toxicity values and Tier II equations.

(3) Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 14b
Excavation Confirmation Surface Soil Analytical Results for PAHs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004

Sample No.	Date Sampled	Lab Sample No.	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
A1 Sidewall 1 Surface	5/1/2001	291846	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
A1 Sidewall 2 Surface	5/1/2001	291849	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
A1 Sidewall 3 Surface	5/1/2001	291851	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
A1 Sidewall 4 Surface	5/1/2001	291853	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	0.46	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A1 Sidewall 5 Surface	5/4/2001	292259	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
A2 Sidewall 1 Surface	5/9/2001	292402	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
A2 Sidewall 2 Surface	5/9/2001	292404	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
A2 Sidewall 3 Surface	5/9/2001	292406	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
A2 Sidewall 4 Surface	5/9/2001	292411	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
A2 Sidewall 5 Surface	5/10/2001	292569	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
A2 Sidewall 6 Surface	5/10/2001	292571	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
A2 Sidewall 7 Surface	5/10/2001	292573	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A3 Sidewall 1 Surface	4/10/2001	290206	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Sidewall 2 Surface	4/10/2001	290208	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A3 Sidewall 3 Surface	4/10/2001	290211	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Sidewall 4 Surface	4/23/2001	291216	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A3 Sidewall 6 Surface	4/25/2001	291422	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A3 Sidewall 7 Surface	4/25/2001	291424	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Sidewall 8 Surface	5/4/2001	292257	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
A3 Sidewall 9 Surface	5/4/2001	292263	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
A3 Sidewall 10 Surface	5/4/2001	292265	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A4 Sidewall 1 Surface	5/4/2001	292247	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A4 Sidewall 2 Surface	5/4/2001	292252	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A5 Sidewall 1 Surface	5/4/2001	292240	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A5 Sidewall 2 Surface	5/4/2001	292243	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
A5 Sidewall 3 Surface	5/4/2001	292245	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A6 Sidewall 1 Surface	4/25/2001	291426	<0.36	<0.36	<0.36	<0.36	0.37	0.42	<0.36	<0.36	<0.36	<0.36	0.76	<0.36	<0.36	<0.36	0.57	0.65
A6 Sidewall 1a Surface	5/22/2001	293507	<0.38	<0.38	<0.38	0.48	0.50	0.99	<0.38	0.97	0.55	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
A6 Sidewall 2 Surface	5/1/2001	291856	<0.38	<0.38	<0.38	<0.38	0.51	0.47	<0.38	0.55	<0.38	<0.38	<0.38	<0.38	0.48	<0.38	<0.38	<0.38
A6 Sidewall 3 Surface	4/25/2001	291432	<0.35	<0.35	<0.35	<0.35	<2.0	<2.0	<2.0	<2.0	<0.35	<2.0	<0.35	<0.35	<2.0	<0.35	<0.35	<0.35
A6 Sidewall 3a Surface	5/22/2001	293503	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
A7 Floor 1 Surface	5/1/2001	291857	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A7 Floor 1 Surface Dup.	5/1/2001	291861	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A7 Sidewall 1 Surface	5/1/2001	291858	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A7 Sidewall 2 Surface	5/1/2001	291859	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A7 Sidewall 3 Surface	5/1/2001	291863	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A8 Sidewall 1 Surface	4/10/2001	290214	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59
A8 Sidewall 2 Surface	4/10/2001	290217	<0.40	<0.40	<0.40	<0.40	<0.40	0.41	<0.40	<0.40	<0.40	<0.40	0.48	<0.40	<0.40	<0.40	<0.40	0.59
A8 Sidewall 3 Surface	5/1/2001	291864	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A8 Sidewall 4 Surface	5/1/2001	291865	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
Tier II Residential Cleanup Goals Surface Soil[1]			10,000	5,400[2]	10,000	0.88	0.66	0.88	1,620[2]	8.77	87.67	0.66	2,160	10,000	0.88	10,000	260[3]	8,100
Tier II Non-Residential Cleanup Goals Surface Soil[1]			10,000	4,570[2]	10,000	79.45	7.94	79.45	10,000[2]	794.52	7,945.21	7.95	10,000	10,000	79.45	10,000	260[3]	10,000

Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

PAHs = Polynuclear Aromatic Hydrocarbons Samples analyzed using EPA SW-846 Method 8310
mg/kg = micrograms per kilogram NA = Not Applicable

(1) Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
(2) Calculated using surrogate toxicity values and Tier II equations.
(3) Tier I Health Protective Levels for Phenanthrene, Iodomethane and Acrolein Technical Memo by Indiana Voluntary Remediation Program, Dated 4/21/98

Table 14c
Excavation Confirmation Surface Soil Analytical Results for Metals (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	Total Cadmium	Total Chromium	Total Lead
A1 Sidewall 1 Surface	5/1/2001	291846	<0.52	11	120
A1 Sidewall 2 Surface	5/1/2001	291849	2.0	14	49
A1 Sidewall 3 Surface	5/1/2001	291851	<0.52	13	200
A1 Sidewall 4 Surface	5/1/2001	291853	1.4	26	1,200
A1 Sidewall 5 Surface	5/4/2001	292259	<0.51	6	48
A2 Sidewall 1 Surface	5/9/2001	292402	<0.6	12	30
A2 Sidewall 2 Surface	5/9/2001	292404	0.9	12	100
A2 Sidewall 3 Surface	5/9/2001	292406	8.6	24	1,100
A2 Sidewall 4 Surface	5/9/2001	292411	<0.58	9.1	120
A2 Sidewall 5 Surface	5/10/2001	292569	2.1	13	81
A2 Sidewall 6 Surface	5/10/2001	292571	0.98	14	30
A2 Sidewall 7 Surface	5/10/2001	292573	1.7	16	12
A3 Sidewall 1 Surface	4/10/2001	290206	<0.54	15	24
A3 Sidewall 2 Surface	4/10/2001	290208	2.3	30	559
A3 Sidewall 3 Surface	4/10/2001	290211	2.4	20	394
A3 Sidewall 4 Surface	4/23/2001	291216	6.1	19	483
A3 Sidewall 6 Surface	4/25/2001	291422	2.7	17	367
A3 Sidewall 7 Surface	4/25/2001	291424	4.1	18	385
A3 Sidewall 8 Surface	5/4/2001	292257	14.0	25	830
A3 Sidewall 9 Surface	5/4/2001	292263	9.9	34	900
A3 Sidewall 10 Surface	5/4/2001	292265	<0.56	11	54
A4 Sidewall 1 Surface	5/4/2001	292247	4.6	18	440
A4 Sidewall 2 Surface	5/4/2001	292252	2.2	13	240
A5 Sidewall 1 Surface	5/4/2001	292240	2.7	42	470
A5 Sidewall 2 Surface	5/4/2001	292243	<0.57	14	14
A5 Sidewall 3 Surface	5/4/2001	292245	0.96	14	160
A6 Sidewall 1 Surface	4/25/2001	291426	12	68	3,050
A6 Sidewall 1a Surface	5/22/2001	293507	85	86	2,000
A6 Sidewall 2 Surface	5/1/2001	291856	<0.57	11	39
A6 Sidewall 3 Surface	4/25/2001	291432	7.4	53	1,390
A6 Sidewall 3a Surface	5/22/2001	293503	2.3	12	11
A7 Floor 1 Surface	5/1/2001	291857	<0.56	10	13
A7 Floor 1 Surface Dup.	5/1/2001	291861	<0.56	10	13
A7 Sidewall 1 Surface	5/1/2001	291858	<0.53	10	190
A7 Sidewall 2 Surface	5/1/2001	291859	<0.53	12	<4.3
A7 Sidewall 3 Surface	5/1/2001	291863	1.4	14	220
A8 Sidewall 1 Surface	4/10/2001	290214	13	75	2,840
A8 Sidewall 2 Surface	4/10/2001	290217	16	49	1,560
A8 Sidewall 3 Surface	5/1/2001	291864	<0.55	14	130
A8 Sidewall 4 Surface	5/1/2001	291865	2.0	26	410
Tier II Residential Cleanup Goals Surface Soil[1]			135	1,350	400 [2]
Tier II Non-Residential Cleanup Goals Surface Soil[1]			1,020	10,000	1,000 [2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

Samples analyzed using EPA Method Series 6000/7000
mg/kg = milligrams per kilogram
[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] IDEM VRP Interoffice Memo dated on January 26, 1998

Table 15a
Excavation Confirmation Subsurface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane (Methyl Bromide)	n-Butylbenzene
A1 Floor 1	5/1/01	291848	<0.110	<0.530	<0.270	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.0053
A1 Floor 2	5/1/01	291855	<0.100	<0.510	<0.260	<0.0051	<0.092	<0.0051	<0.0051	<0.0051	<0.010	<0.092
A1 Sidewall 1 Subsurface	5/1/01	291847	<0.110	<0.530	<0.260	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.0053
A1 Sidewall 2 Subsurface	5/1/01	291850	<0.110	<0.560	<0.280	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056
A1 Sidewall 3 Subsurface	5/1/01	291852	<0.100	<0.540	<0.270	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054
A1 Sidewall 4 Subsurface	5/1/01	291854	<0.110	<0.530	<0.270	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.0053
A1 Sidewall 5 Subsurface	5/4/01	292260	<0.100	<0.260	<0.260	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.010	<0.0051
A2 Floor 1	5/9/01	292408	<0.11	<0.54	<0.27	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	1.6
A2 Floor 1 Dup.	5/9/01	292409	<12.1	<60.5	<29.7	<0.6	<0.6	<0.6	<0.6	<0.6	<1.2	<0.6
A2 Floor 2	5/9/01	292410	<2.6	<13.0	<6.5	<0.13	<0.13	<0.13	<0.13	<0.13	<0.26	<0.13
A2 Floor 3	5/10/01	292576	<0.490	<1.2	<1.2	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	2.4
A2 Floor 4	5/10/01	292577	<0.110	<0.270	<0.270	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054
A2 Sidewall 1 Subsurface	5/9/01	292403	<2.4	<12.0	<6.2	<0.12	<0.12	<0.12	<0.12	<0.12	<0.24	0.33
A2 Sidewall 2 Subsurface	5/9/01	292405	<0.11	<0.56	<0.28	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056
A2 Sidewall 3 Subsurface	5/9/01	292407	<0.11	<0.57	<0.29	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.0057
A2 Sidewall 4 Subsurface	5/9/01	292412	<2.4	<12.0	<6.2	<0.12	<0.12	<0.12	<0.12	<0.12	<0.24	<0.12
A2 Sidewall 5 Subsurface	5/10/01	292570	<0.110	<0.290	<0.290	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.0057
A2 Sidewall 6 Subsurface	5/10/01	292572	<0.120	<0.290	<0.290	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.012	<0.0058
A2 Sidewall 7 Subsurface	5/10/01	292574	<0.110	<0.280	<0.280	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056
A2 Sidewall 7 Subsurface Dup.	5/10/01	292575	<0.110	<0.280	<0.280	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056
A3 Floor 1	4/10/01	290203	<0.109	<0.273	<0.273	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.0055
A3 Floor 2	4/10/01	290204	<0.110	<0.276	<0.276	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.0055
A3 Floor 3	4/18/01	290693	<0.109	<0.272	<0.272	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054
A3 Floor 4	4/18/01	290694	<0.110	<0.276	<0.276	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.0055
A3 Floor 5	4/23/01	291218	<0.108	<0.271	<0.271	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054
A3 Floor 5 Dup.	4/23/01	291219	<0.108	<0.270	<0.270	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054
A3 Floor 6	4/23/01	291220	<0.111	<0.277	<0.277	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.0055
A3 Floor 7	4/23/01	291221	<0.113	<0.282	<0.282	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056
A3 Floor 8	4/25/01	291420	<0.111	<0.556	<0.278	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056
A3 Floor 8	5/4/01	292249	<0.100	<0.260	<0.260	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.010	<0.0051
A3 Floor 8 Dup.	5/4/01	292250	<0.100	<0.260	<0.260	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.010	<0.0051
A3 Floor 9	4/25/01	291421	<0.110	<0.552	<0.276	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.0055
A3 Floor 9	5/4/01	292251	<0.110	<0.270	<0.270	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054
A3 Floor 10	5/4/01	292256	<0.110	<0.270	<0.270	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054
A3 Sidewall 1 Subsurface	4/10/01	290205	<0.119	<0.297	<0.297	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.0059
A3 Sidewall 2 Subsurface	4/10/01	290207	<0.117	<0.293	<0.293	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.0059
A3 Sidewall 3 Subsurface	4/10/01	290209	<0.115	<0.286	<0.286	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.0057
A3 Sidewall 3 Subsurface Dup.	4/10/01	290210	<0.114	<0.285	<0.285	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.0057
A3 Sidewall 4 Subsurface	4/23/01	291217	<0.106	<0.265	<0.265	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.0053
A3 Sidewall 6 Subsurface	4/25/01	291423	<0.119	<0.593	<0.297	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.0059
A3 Sidewall 7 Subsurface	4/25/01	291425	<0.111	<0.556	<0.278	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056
A3 Sidewall 8 Subsurface	5/4/01	292258	<0.100	<0.260	<0.260	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.010	<0.0052
A3 Sidewall 9 Subsurface	5/4/01	292264	<0.100	<0.260	<0.260	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.010	<0.0052
A3 Sidewall 10 Subsurface	5/4/01	292266	<0.490	<1.2	<1.2	<0.025	<0.025	<0.025	<0.025	<0.025	<0.049	<0.025
A3 Sidewall 10 Subsurface Dup.	5/4/01	292267	<0.500	<1.2	<1.2	<0.025	<0.025	<0.025	<0.025	<0.025	<0.049	<0.025
A4 Floor 1	5/4/01	292255	<0.100	<0.260	<0.260	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.010	<0.0052
A4 Floor 2	5/4/01	292254	<0.100	<0.260	<0.260	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.010	<0.0051
A4 Sidewall 1 Subsurface	5/4/01	292248	<0.110	<0.270	<0.270	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054
A4 Sidewall 2 Subsurface	5/4/01	292253	<0.110	<0.260	<0.260	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.0053
A5 Floor 1	5/4/01	292261	<0.110	<0.270	<0.270	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	0.13
A5 Floor 2	5/4/01	292262	<0.110	<0.270	<0.270	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054
A5 Sidewall 1 Subsurface	5/4/01	292241	<4.1	<10	<10	<0.200	<0.200	<0.200	<0.200	<0.200	<0.410	<0.200
A5 Sidewall 1 Subsurface Dup.	5/4/01	292242	<4.0	<10	<10	<0.200	<0.200	<0.200	<0.200	<0.200	<0.400	<0.200
A5 Sidewall 2 Subsurface	5/4/01	292244	<0.110	<0.270	<0.270	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054
A5 Sidewall 3 Subsurface	5/4/01	292246	<0.110	<0.270	<0.270	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054
A6 Floor 1	4/23/01	291428	<0.110	<0.552	<0.276	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.0055
A6 Floor 1 Dup	4/25/01	291429	<0.109	<0.545	<0.273	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.0055
A6 Floor 2	4/25/01	291430	<0.106	<0.531	<0.265	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.0053
A6 Sidewall 1 Subsurface	4/25/01	291427	<0.111	<0.553	<0.277	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.0055
A6 Sidewall 2 Subsurface	4/25/01	291431	<0.108	<0.541	<0.271	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054
A6 Sidewall 3 Subsurface	4/25/01	291433	<0.111	<0.557	<0.279	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056
A7 Floor 2	5/1/01	291862	<0.110	<0.540	<0.270	<0.0054	<0.110	<0.0054	<0.0054	<0.0054	<0.011	<0.110
A7 Sidewall 2 Subsurface	5/1/01	291860	<0.110	<0.540	<0.270	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054
A8 Floor 1	4/10/01	290212	<4.39	<11	<11	<0.223	<0.223	<0.223	<0.223	<0.223	<0.435	<0.223
A8 Sidewall 1 Subsurface	4/10/01	290213	<8.76	<22	<22	<0.439	<0.439	<0.439	<0.439	<0.439	<0.878	<0.439
A8 Floor 2	4/10/01	290215	<4.39	<11	<11	<0.220	<0.220	<0.220	<0.220	<0.220	<0.440	<0.220
A8 Sidewall 2 Subsurface	4/10/01	290216	<4.48	<11.2	<11.2	<0.228	<0.228	<0.228	<0.228	<0.228	<0.443	2.28
Tier II Residential Cleanup Goals Subsurface Soil[1]			22.793	NA	NA	0.059	NA	NA	0.000389[2]	NA	NA	33.5[2]
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]			136.29	NA	NA	4.77	NA	NA	0.692[2]	NA	NA	972[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
E = result is estimated
Samples analyzed using EPA SW-846 Method 8260
mg/kg = milligrams per kilogram
NA = Not Applicable

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.
[3] Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 15a
Excavation Confirmation Subsurface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane (Methyl Chloride)	2-Chlorotoluene
A1 Floor 1	5/1/01	291848	<0.0053	<0.0053	<0.110	<0.0053	<0.0053	<0.0053	<0.011	<0.021	<0.011	<0.0053
A1 Floor 2	5/1/01	291855	<0.092	<0.092	<0.100	<0.0051	<0.0051	<0.0051	<0.010	<0.020	<0.010	<0.092
A1 Sidewall 1 Subsurface	5/1/01	291847	<0.0053	<0.0053	<0.110	<0.0053	<0.0053	<0.0053	<0.011	<0.021	<0.011	<0.0053
A1 Sidewall 2 Subsurface	5/1/01	291850	<0.0056	<0.0056	<0.110	<0.0056	<0.0056	<0.0056	<0.011	<0.022	<0.011	<0.0056
A1 Sidewall 3 Subsurface	5/1/01	291852	<0.0054	<0.0054	<0.110	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054
A1 Sidewall 4 Subsurface	5/1/01	291854	<0.0053	<0.0053	<0.110	<0.0053	<0.0053	<0.0053	<0.011	<0.021	<0.011	<0.0053
A1 Sidewall 5 Subsurface	5/4/01	292260	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.010	<0.020	<0.010	<0.0051
A2 Floor 1	5/9/01	292408	0.7	<0.0054	<0.11	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054
A2 Floor 1 Dup.	5/9/01	292409	<0.6	<0.6	<12.1	<0.6	<0.6	<0.6	<1.2	<2.4	<1.2	<0.6
A2 Floor 2	5/9/01	292410	<0.13	<0.13	<2.6	<0.13	<0.13	<0.13	<0.26	<0.53	<0.26	<0.13
A2 Floor 3	5/10/01	292576	0.66	<0.024	<0.024	<0.024	0.035	<0.024	<0.048	<0.097	<0.048	<0.024
A2 Floor 4	5/10/01	292577	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054
A2 Sidewall 1 Subsurface	5/9/01	292403	0.12	<0.12	<2.4	<0.12	<0.12	<0.12	<0.24	<0.48	<0.24	<0.12
A2 Sidewall 2 Subsurface	5/9/01	292405	<0.0056	<0.0056	<0.11	<0.0056	<0.0056	<0.0056	<0.011	<0.022	<0.011	<0.0056
A2 Sidewall 3 Subsurface	5/9/01	292407	<0.0057	<0.0037	<0.11	<0.0057	<0.0057	<0.0057	<0.011	<0.023	<0.011	<0.0057
A2 Sidewall 4 Subsurface	5/9/01	292412	<0.12	<0.12	<2.4	<0.12	<0.12	<0.12	<0.24	<0.48	<0.24	<0.12
A2 Sidewall 5 Subsurface	5/10/01	292570	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.023	<0.011	<0.0057
A2 Sidewall 6 Subsurface	5/10/01	292572	<0.0058	<0.0058	<0.0058	<0.0058	<0.0038	<0.0038	<0.012	<0.023	<0.012	<0.0058
A2 Sidewall 7 Subsurface	5/10/01	292574	<0.0056	<0.0056	<0.110	<0.0056	<0.0056	<0.0056	<0.011	<0.022	<0.011	<0.0056
A2 Sidewall 7 Subsurface Dup.	5/10/01	292575	<0.0056	<0.0056	<0.110	<0.0056	<0.0056	<0.0056	<0.011	<0.022	<0.011	<0.0056
A3 Floor 1	4/10/01	290203	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.022	<0.011	<0.0055
A3 Floor 2	4/10/01	290204	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.022	<0.011	<0.0055
A3 Floor 3	4/18/01	290693	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054
A3 Floor 4	4/18/01	290694	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.022	<0.011	<0.0055
A3 Floor 5	4/23/01	291218	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054
A3 Floor 5 Dup.	4/23/01	291219	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054
A3 Floor 6	4/23/01	291220	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.022	<0.011	<0.0055
A3 Floor 7	4/23/01	291221	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.023	<0.011	<0.0056
A3 Floor 8	4/25/01	291420	<0.0056	<0.0056	<0.111	<0.0056	<0.0056	<0.0056	<0.011	<0.022	<0.022	<0.0056
A3 Floor 8	5/4/01	292249	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.010	<0.020	<0.010	<0.0051
A3 Floor 8 Dup.	5/4/01	292250	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.010	<0.020	<0.010	<0.0051
A3 Floor 9	4/25/01	291421	<0.0055	<0.0055	<0.110	<0.0055	<0.0055	<0.0055	<0.011	<0.022	<0.011	<0.0055
A3 Floor 9	5/4/01	292251	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054
A3 Floor 10	5/4/01	292256	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054
A3 Sidewall 1 Subsurface	4/10/01	290205	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0012	<0.0024	<0.0012	<0.0059
A3 Sidewall 2 Subsurface	4/10/01	290207	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.023	<0.012	<0.0059
A3 Sidewall 3 Subsurface	4/10/01	290209	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.023	<0.011	<0.0057
A3 Sidewall 3 Subsurface Dup.	4/10/01	290210	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.023	<0.011	<0.0057
A3 Sidewall 4 Subsurface	4/23/01	291217	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.021	<0.011	<0.0053
A3 Sidewall 6 Subsurface	4/25/01	291423	<0.0059	<0.0059	<0.119	<0.0059	<0.0059	<0.0059	<0.012	<0.024	<0.012	<0.0059
A3 Sidewall 7 Subsurface	4/25/01	291425	<0.0056	<0.0056	<0.111	<0.0056	<0.0056	<0.0056	<0.011	<0.022	<0.011	<0.0056
A3 Sidewall 8 Subsurface	5/4/01	292258	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.010	<0.021	<0.010	<0.0052
A3 Sidewall 9 Subsurface	5/4/01	292264	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.010	<0.021	<0.010	<0.0052
A3 Sidewall 10 Subsurface	5/4/01	292266	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.049	<0.099	<0.049	<0.025
A3 Sidewall 10 Subsurface Dup.	5/4/01	292267	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.049	<0.100	<0.049	<0.025
A4 Floor 1	5/4/01	292255	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.010	<0.021	<0.010	<0.0052
A4 Floor 2	5/4/01	292254	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.010	<0.020	<0.010	<0.0051
A4 Sidewall 1 Subsurface	5/4/01	292248	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054
A4 Sidewall 2 Subsurface	5/4/01	292253	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.021	<0.011	<0.0053
A5 Floor 1	5/4/01	292261	0.046	0.062	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.022	<0.011	<0.0055
A5 Floor 2	5/4/01	292262	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054
A5 Sidewall 1 Subsurface	5/4/01	292241	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.410	<0.820	<0.410	<0.200
A5 Sidewall 1 Subsurface Dup.	5/4/01	292242	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.400	<0.790	<0.400	<0.200
A5 Sidewall 2 Subsurface	5/4/01	292244	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054
A5 Sidewall 3 Subsurface	5/4/01	292246	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054
A6 Floor 1	4/25/01	291428	<0.0055	<0.0055	<0.110	<0.0055	<0.0055	<0.0055	<0.011	<0.022	<0.011	<0.0055
A6 Floor 1 Dup	4/25/01	291429	<0.0055	<0.0055	<0.109	<0.0055	<0.0055	<0.0055	<0.011	<0.022	<0.011	<0.0055
A6 Floor 2	4/25/01	291430	<0.0053	<0.0053	<0.106	<0.0053	<0.0053	<0.0053	<0.011	<0.021	<0.011	<0.0053
A6 Sidewall 1 Subsurface	4/25/01	291427	<0.0055	<0.0055	<0.111	<0.0055	<0.0055	<0.0055	<0.011	<0.022	<0.011	<0.0055
A6 Sidewall 2 Subsurface	4/25/01	291431	<0.0054	<0.0054	<0.108	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054
A6 Sidewall 3 Subsurface	4/25/01	291433	<0.0056	<0.0056	<0.111	<0.0056	<0.0056	<0.0056	<0.011	<0.022	<0.011	<0.0056
A7 Floor 2	5/1/01	291862	<0.110	<0.110	<0.100	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.110
A7 Sidewall 2 Subsurface	5/1/01	291860	<0.0054	<0.0054	<0.110	<0.0054	<0.0054	<0.0054	<0.011	<0.022	<0.011	<0.0054
A8 Floor 1	4/10/01	290212	<0.223	<0.223	<0.223	<0.223	<0.223	<0.223	<0.435	<0.882	<0.435	<0.223
A8 Sidewall 1 Subsurface	4/10/01	290213	<0.439	<0.439	<0.439	<0.439	<0.439	<0.439	<0.878	<1.76	<0.878	<0.439
A8 Floor 2	4/10/01	290215	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	<0.440	<0.880	<0.440	<0.220
A8 Sidewall 2 Subsurface	4/10/01	290216	1.02	<0.228	<0.228	<0.228	<0.228	<0.228	<0.443	<0.898	<0.443	<0.228
Tier II Residential Cleanup Goals Subsurface Soil[1]			30.1[2]	22.01[2]	182[2]	NA	11.1[2]	NA	1,000	2.082	NA	NA
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]			725[2]	868[2]	1,300[2]	NA	803[2]	NA	1,000	20.33	NA	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
E = result is estimated
Samples analyzed using EPA SW-846 Method 8260
mg/kg = milligrams per kilogram
NA = Not Applicable

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.
[3] Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 15a
Excavation Confirmation Subsurface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	4-Chlorotoluene	2-Chloroethyl vinyl ether	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	Dibromomethane (Methylene Bromide)	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	trans-1,4-Dichloro-2-butene
A1 Floor 1	5/1/01	291848	<0.0053	ND	<0.110	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.053	<0.110
A1 Floor 2	5/1/01	291855	<0.092	ND	<1.8	<0.0051	<0.010	<0.092	<0.092	<0.092	<0.051	<0.100
A1 Sidewall 1 Subsurface	5/1/01	291847	<0.0053	ND	<0.110	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.053	<0.110
A1 Sidewall 2 Subsurface	5/1/01	291850	<0.0056	ND	<0.110	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.056	<0.110
A1 Sidewall 3 Subsurface	5/1/01	291852	<0.0054	ND	<0.110	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.054	<0.110
A1 Sidewall 4 Subsurface	5/1/01	291854	<0.0053	ND	<0.110	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.053	<0.110
A1 Sidewall 5 Subsurface	5/4/01	292260	<0.0051	<0.051	<0.010	<0.0051	<0.010	<0.0051	<0.0051	<0.0051	<0.010	<0.051
A2 Floor 1	5/9/01	292408	<0.0054	ND	<0.11	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.054	ND
A2 Floor 1 Dup.	5/9/01	292409	<0.6	ND	<12.1	<0.6	<1.2	<0.6	<0.6	<0.6	<6.0	ND
A2 Floor 2	5/9/01	292410	<0.13	ND	<2.6	<0.13	<0.26	<0.13	<0.13	<0.13	<1.3	ND
A2 Floor 3	5/10/01	292576	<0.024	<0.240	<0.048	<0.024	<0.048	<0.024	<0.024	<0.024	<0.048	<0.240
A2 Floor 4	5/10/01	292577	<0.0054	<0.054	<0.011	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.054
A2 Sidewall 1 Subsurface	5/9/01	292403	<0.12	ND	<2.4	<0.12	<0.24	<0.12	<0.12	<0.12	<1.2	ND
A2 Sidewall 2 Subsurface	5/9/01	292405	<0.0056	ND	<0.11	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.056	ND
A2 Sidewall 3 Subsurface	5/9/01	292407	<0.0057	ND	<0.11	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.057	ND
A2 Sidewall 4 Subsurface	5/9/01	292412	<0.12	ND	<2.4	<0.12	<0.24	<0.12	<0.12	<0.12	<1.2	ND
A2 Sidewall 5 Subsurface	5/10/01	292570	<0.0057	<0.057	<0.011	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.057
A2 Sidewall 6 Subsurface	5/10/01	292572	<0.0058	<0.058	<0.012	<0.0058	<0.012	<0.0058	<0.0058	<0.0058	<0.012	<0.058
A2 Sidewall 7 Subsurface	5/10/01	292574	<0.0056	<0.056	<0.011	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.056
A2 Sidewall 7 Subsurface Dup.	5/10/01	292575	<0.0056	<0.056	<0.011	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.056
A3 Floor 1	4/10/01	290203	<0.0055	<0.055	<0.011	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.055
A3 Floor 2	4/10/01	290204	<0.0055	<0.055	<0.011	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.055
A3 Floor 3	4/18/01	290693	<0.0054	<0.054	<0.011	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.054
A3 Floor 4	4/18/01	290694	<0.0055	<0.055	<0.011	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.055
A3 Floor 5	4/23/01	291218	<0.0054	<0.054	<0.011	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.054
A3 Floor 5 Dup.	4/23/01	291219	<0.0054	<0.054	<0.011	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.054
A3 Floor 6	4/23/01	291220	<0.0055	<0.055	<0.011	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.055
A3 Floor 7	4/23/01	291221	<0.0056	<0.056	<0.011	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.056
A3 Floor 8	4/25/01	291420	<0.0056	ND	<0.111	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.056	ND
A3 Floor 8	5/4/01	292249	<0.0051	<0.051	<0.010	<0.0051	<0.010	<0.0051	<0.0051	<0.0051	<0.010	<0.051
A3 Floor 8 Dup.	5/4/01	292250	<0.0051	<0.051	<0.010	<0.0051	<0.010	<0.0051	<0.0051	<0.0051	<0.010	<0.051
A3 Floor 9	4/25/01	291421	<0.0055	ND	<0.110	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.055	ND
A3 Floor 9	5/4/01	292251	<0.0054	<0.054	<0.011	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.054
A3 Floor 10	5/4/01	292256	<0.0054	<0.054	<0.011	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.054
A3 Sidewall 1 Subsurface	4/10/01	290205	<0.0059	<0.059	<0.0012	<0.0059	<0.0012	<0.0059	<0.0059	<0.0059	<0.0012	<0.059
A3 Sidewall 2 Subsurface	4/10/01	290207	<0.0059	<0.059	<0.012	<0.0059	<0.012	<0.0059	<0.0059	<0.0059	<0.012	<0.059
A3 Sidewall 3 Subsurface	4/10/01	290209	<0.0057	<0.057	<0.011	<0.0057	<0.011	<0.0057	<0.0057	<0.011	<0.057	<0.0057
A3 Sidewall 3 Subsurface Dup.	4/10/01	290210	<0.0057	<0.057	<0.011	<0.0057	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.057
A3 Sidewall 4 Subsurface	4/23/01	291217	<0.0053	<0.053	<0.011	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.053
A3 Sidewall 6 Subsurface	4/25/01	291423	<0.0059	ND	<0.0012	<0.0059	<0.012	<0.0059	<0.0059	<0.0059	<0.059	ND
A3 Sidewall 7 Subsurface	4/25/01	291425	<0.0056	ND	<0.011	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.056	ND
A3 Sidewall 8 Subsurface	5/4/01	292258	<0.0052	<0.052	<0.010	<0.0052	<0.010	<0.0052	<0.0052	<0.0052	<0.010	<0.052
A3 Sidewall 9 Subsurface	5/4/01	292264	<0.0052	<0.052	<0.010	<0.0052	<0.010	<0.0052	<0.0052	<0.0052	<0.010	<0.052
A3 Sidewall 10 Subsurface	5/4/01	292266	<0.025	<0.250	<0.049	<0.025	<0.049	0.46	<0.025	<0.025	<0.049	<0.250
A3 Sidewall 10 Subsurface Dup.	5/4/01	292267	<0.025	<0.250	<0.049	<0.025	<0.049	<0.025	<0.025	<0.025	<0.049	<0.250
A4 Floor 1	5/4/01	292255	<0.0052	<0.052	<0.010	<0.0052	<0.010	<0.0052	<0.0052	<0.0052	<0.010	<0.052
A4 Floor 2	5/4/01	292254	<0.0051	<0.051	<0.010	<0.0051	<0.010	<0.0051	<0.0051	<0.0051	<0.010	<0.051
A4 Sidewall 1 Subsurface	5/4/01	292248	<0.0054	<0.054	<0.011	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.054
A4 Sidewall 2 Subsurface	5/4/01	292253	<0.0053	<0.053	<0.011	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.053
A5 Floor 1	5/4/01	292261	<0.0055	<0.055	<0.011	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.055
A5 Floor 2	5/4/01	292262	<0.0054	<0.054	<0.011	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.054
A5 Sidewall 1 Subsurface	5/4/01	292241	<0.200	<2.0	<0.410	<0.200	<0.410	4.4	<0.200	0.71	<0.410	<2.0
A5 Sidewall 1 Subsurface Dup.	5/4/01	292242	<0.200	<2.0	<0.400	<0.200	<0.400	0.26	<0.200	<0.200	<0.400	<2.0
A5 Sidewall 2 Subsurface	5/4/01	292244	<0.0054	<0.054	<0.011	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.054
A5 Sidewall 3 Subsurface	5/4/01	292246	<0.0054	<0.054	<0.011	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.054
A6 Floor 1	4/25/01	291428	<0.0055	ND	<0.011	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.055	ND
A6 Floor 1 Dup	4/25/01	291429	<0.0055	ND	<0.011	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.055	ND
A6 Floor 2	4/25/01	291430	<0.0053	ND	<0.011	<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.0053	ND
A6 Sidewall 1 Subsurface	4/25/01	291427	<0.0055	ND	<0.011	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.055	ND
A6 Sidewall 2 Subsurface	4/25/01	291431	<0.0054	ND	<0.011	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.054	ND
A6 Sidewall 3 Subsurface	4/25/01	291433	<0.0056	ND	<0.011	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.056	ND
A7 Floor 2	5/1/01	291862	<0.110	ND	<2.2	<0.0054	<0.011	<0.110	<0.110	<0.110	<0.054	<0.110
A7 Sidewall 2 Subsurface	5/1/01	291860	<0.0054	ND	<0.110	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.054	<0.110
A8 Floor 1	4/10/01	290212	<0.223	<2.23	<0.435	<0.223	<0.435	<0.223	<0.223	<0.223	<0.435	<2.23
A8 Sidewall 1 Subsurface	4/10/01	290213	<0.439	<4.39	<0.878	<0.439	<0.878	<0.439	<0.439	<0.439	<0.878	<4.39
A8 Floor 2	4/10/01	290215	<0.220	<2.2	<0.440	<0.220	<0.440	<0.220	<0.220	<0.220	<0.440	<2.2
A8 Sidewall 2 Subsurface	4/10/01	290216	<0.228	<2.28	<0.443	<0.228	<0.443	<0.228	<0.228	<0.228	<0.443	<2.28
Tier II Residential Cleanup Goals Subsurface Soil[1]			NA	NA	NA	NA	NA	2,524.23	NA	0.897	NA	NA
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]			NA	NA	NA	NA	NA	10,000	NA	34.67	NA	NA

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
E = result is estimated
Samples analyzed using EPA SW-846 Method 8260
mg/kg = milligrams per kilogram
NA = Not Applicable

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.
[3] Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 15a
Excavation Confirmation Subsurface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethylene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene
A1 Floor 1	5/1/01	291848	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
A1 Floor 2	5/1/01	291855	<0.0051	<0.0051	<0.0051	0.045	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
A1 Sidewall 1 Subsurface	5/1/01	291847	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
A1 Sidewall 2 Subsurface	5/1/01	291850	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
A1 Sidewall 3 Subsurface	5/1/01	291852	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A1 Sidewall 4 Subsurface	5/1/01	291854	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
A1 Sidewall 5 Subsurface	5/4/01	292260	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
A2 Floor 1	5/9/01	292408	<0.0054	<0.0054	<0.0054	1.5	0.01	<0.0054	<0.0054	<0.0054	<0.0054
A2 Floor 1 Dup.	5/9/01	292409	<0.6	<0.6	<0.6	4.4	<0.6	<0.6	<0.6	<0.6	<0.6
A2 Floor 2	5/9/01	292410	<0.13	<0.13	<0.13	0.33	<0.13	<0.13	<0.13	<0.13	<0.13
A2 Floor 3	5/10/01	292576	<0.024	<0.024	<0.024	0.2	<0.024	<0.024	<0.024	<0.024	<0.024
A2 Floor 4	5/10/01	292577	<0.0054	<0.0054	<0.0054	0.022	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A2 Sidewall 1 Subsurface	5/9/01	292403	<0.12	<0.12	<0.12	7.1	<0.12	<0.12	<0.12	<0.12	<0.12
A2 Sidewall 2 Subsurface	5/9/01	292405	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
A2 Sidewall 3 Subsurface	5/9/01	292407	<0.0057	<0.0057	<0.0057	0.013	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057
A2 Sidewall 4 Subsurface	5/9/01	292412	<0.12	<0.12	<0.12	0.63	<0.12	<0.12	<0.12	<0.12	<0.12
A2 Sidewall 5 Subsurface	5/10/01	292570	<0.0057	<0.0057	<0.0057	0.061	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057
A2 Sidewall 6 Subsurface	5/10/01	292572	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058
A2 Sidewall 7 Subsurface	5/10/01	292574	<0.0056	<0.0056	<0.0056	0.033	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
A2 Sidewall 7 Subsurface Dup.	5/10/01	292575	<0.0056	<0.0056	<0.0056	0.019	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
A3 Floor 1	4/10/01	290203	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
A3 Floor 2	4/10/01	290204	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
A3 Floor 3	4/18/01	290693	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A3 Floor 4	4/18/01	290694	<0.0055	<0.0055	0.0092	0.061	0.0087	<0.0055	<0.0055	<0.0055	<0.0055
A3 Floor 5	4/23/01	291218	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A3 Floor 5 Dup.	4/23/01	291219	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A3 Floor 6	4/23/01	291220	<0.0055	<0.0055	<0.0055	0.0062	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
A3 Floor 7	4/23/01	291221	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
A3 Floor 8	4/25/01	291420	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
A3 Floor 8	5/4/01	292249	<0.0051	<0.0051	<0.0051	0.017	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
A3 Floor 8 Dup.	5/4/01	292250	<0.0051	<0.0051	<0.0051	0.012	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
A3 Floor 9	4/25/01	291421	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
A3 Floor 9	5/4/01	292251	<0.0054	<0.0054	0.008	2.8	0.021	<0.0054	<0.0054	<0.0054	<0.0054
A3 Floor 10	5/4/01	292256	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A3 Sidewall 1 Subsurface	4/10/01	290205	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059
A3 Sidewall 2 Subsurface	4/10/01	290207	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059
A3 Sidewall 3 Subsurface	4/10/01	290209	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057
A3 Sidewall 3 Subsurface Dup.	4/10/01	290210	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057
A3 Sidewall 4 Subsurface	4/23/01	291217	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
A3 Sidewall 6 Subsurface	4/25/01	291423	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059
A3 Sidewall 7 Subsurface	4/25/01	291425	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
A3 Sidewall 8 Subsurface	5/4/01	292258	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
A3 Sidewall 9 Subsurface	5/4/01	292264	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
A3 Sidewall 10 Subsurface	5/4/01	292266	<0.025	<0.025	<0.025	0.27	<0.025	<0.025	<0.025	<0.025	<0.025
A3 Sidewall 10 Subsurface Dup.	5/4/01	292267	<0.025	<0.025	<0.025	0.11	<0.025	<0.025	<0.025	<0.025	<0.025
A4 Floor 1	5/4/01	292255	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
A4 Floor 2	5/4/01	292254	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
A4 Sidewall 1 Subsurface	5/4/01	292248	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A4 Sidewall 2 Subsurface	5/4/01	292253	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
A5 Floor 1	5/4/01	292261	<0.0055	<0.0055	<0.0055	0.054	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
A5 Floor 2	5/4/01	292262	<0.0054	<0.0054	<0.0054	0.099	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A5 Sidewall 1 Subsurface	5/4/01	292241	<0.200	<0.200	<0.200	0.440	<0.200	<0.200	<0.200	<0.200	<0.200
A5 Sidewall 1 Subsurface Dup.	5/4/01	292242	<0.200	<0.200	<0.200	0.500	<0.200	<0.200	<0.200	<0.200	<0.200
A5 Sidewall 2 Subsurface	5/4/01	292244	<0.0054	<0.0054	<0.0054	0.27	0.02	<0.0054	<0.0054	<0.0054	<0.0054
A5 Sidewall 3 Subsurface	5/4/01	292246	<0.0054	<0.0054	<0.0054	0.092	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A6 Floor 1	4/25/01	291428	<0.0055	<0.0055	<0.0055	0.0064	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
A6 Floor 1 Dup	4/25/01	291429	<0.0055	<0.0055	<0.0055	0.0068	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
A6 Floor 2	4/25/01	291430	<0.0053	<0.0053	<0.0053	0.017	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
A6 Sidewall 1 Subsurface	4/25/01	291427	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
A6 Sidewall 2 Subsurface	4/25/01	291431	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A6 Sidewall 3 Subsurface	4/25/01	291433	<0.0056	<0.0056	<0.0056	0.0054	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
A7 Floor 2	5/1/01	291862	<0.0054	<0.0054	<0.0054	0.011	<0.0054	<0.0054	<0.0054	<0.0054	0.02
A7 Sidewall 2 Subsurface	5/1/01	291860	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A8 Floor 1	4/10/01	290212	<0.223	<0.223	<0.223	<0.223	<0.223	<0.223	<0.223	<0.223	<0.223
A8 Sidewall 1 Subsurface	4/10/01	290213	<0.439	<0.439	<0.439	<0.439	<0.439	<0.439	<0.439	<0.439	<0.439
A8 Floor 2	4/10/01	290215	<0.220	<0.220	<0.220	0.506	<0.220	<0.220	<0.220	<0.220	<0.220
A8 Sidewall 2 Subsurface	4/10/01	290216	<0.228	<0.228	<0.228	0.575	<0.228	<0.228	<0.228	<0.228	<0.228
Tier II Residential Cleanup Goals Subsurface Soil[1]			40.074	0.025	0.084	17.14	3.23[2]	NA	NA	NA	0.00764[2]
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]			1,000	0.37	0.080	102.49	193[2]	NA	NA	NA	1.36[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
E = result is estimated
Samples analyzed using EPA SW-846 Method 8260
mg/kg = milligrams per kilogram
NA = Not Applicable

(1) Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
(2) Calculated using surrogate toxicity values and Tier II equations.
(3) Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 15a
Excavation Confirmation Subsurface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Ethyl methacrylate	2-Hexanone	Hexachlorobutadiene	Iodomethane	Isopropylbenzene	p-Isopropyltoluene	Methylene chloride
A1 Floor 1	5/1/01	291848	<0.0053	<0.0053	<0.0053	<0.053	<0.053	<0.0053	<0.011	<0.0053	<0.0053	<0.027
A1 Floor 2	5/1/01	291855	<0.0051	<0.0051	<0.0051	<0.051	<0.051	<0.092	<0.010	<0.0051	<0.092	<0.026
A1 Sidewall 1 Subsurface	5/1/01	291847	<0.0053	<0.0053	<0.0053	<0.053	<0.053	<0.0053	<0.011	<0.0053	<0.0053	<0.026
A1 Sidewall 2 Subsurface	5/1/01	291850	<0.0056	<0.0056	<0.0056	<0.056	<0.056	<0.0056	<0.011	<0.0056	<0.0056	<0.0028
A1 Sidewall 3 Subsurface	5/1/01	291852	<0.0054	<0.0054	<0.0054	<0.054	<0.054	<0.0054	<0.011	<0.0054	<0.0054	<0.027
A1 Sidewall 4 Subsurface	5/1/01	291854	<0.0053	<0.0053	<0.0053	<0.053	<0.053	<0.0053	<0.011	<0.0053	<0.0053	<0.027
A1 Sidewall 5 Subsurface	5/4/01	292260	<0.0051	<0.0051	<0.0051	<0.010	<0.051	<0.0051	<0.010	<0.0051	<0.0051	<0.026
A2 Floor 1	5/9/01	292408	<0.0054	<0.0054	0.2	<0.054	<0.054	<0.0054	<0.011	0.52	0.71	<0.027
A2 Floor 1 Dup.	5/9/01	292409	<0.6	<0.6	<0.6	<6.0	<6.0	<0.6	<1.2	<0.6	<0.6	<3.0
A2 Floor 2	5/9/01	292410	<0.13	<0.13	<0.13	<0.055	<1.3	<0.13	<0.26	<0.13	<0.13	<0.65
A2 Floor 3	5/10/01	292576	<0.024	<0.024	0.067	<0.048	<0.240	<0.024	<0.048	0.23	0.93	<0.120
A2 Floor 4	5/10/01	292577	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.011	<0.0054	<0.0054	<0.027
A2 Sidewall 1 Subsurface	5/9/01	292403	<0.12	<0.12	0.16	<0.056	<1.2	<0.12	<0.24	<0.12	0.14	<0.62
A2 Sidewall 2 Subsurface	5/9/01	292405	<0.0056	<0.0056	<0.0056	<0.056	<0.056	<0.0056	<0.011	<0.0056	<0.0056	<0.28
A2 Sidewall 3 Subsurface	5/9/01	292407	<0.0057	<0.0057	<0.0057	<0.057	<0.057	<0.0057	<0.011	<0.0057	<0.0057	<0.29
A2 Sidewall 4 Subsurface	5/9/01	292412	<0.12	<0.12	<0.12	<0.056	<1.2	<0.12	<0.24	<0.12	<0.12	<0.62
A2 Sidewall 5 Subsurface	5/10/01	292570	<0.0057	<0.0057	<0.0057	<0.011	<0.057	<0.0057	<0.011	<0.0057	<0.0057	<0.029
A2 Sidewall 6 Subsurface	5/10/01	292572	<0.0058	<0.0058	<0.0058	<0.012	<0.058	<0.0058	<0.012	<0.0058	<0.0058	<0.029
A2 Sidewall 7 Subsurface	5/10/01	292574	<0.0056	<0.0056	<0.0056	<0.011	<0.056	<0.0056	<0.011	<0.0056	<0.0056	<0.0028
A2 Sidewall 7 Subsurface Dup.	5/10/01	292575	<0.0056	<0.0056	<0.0056	<0.011	<0.056	<0.0056	<0.011	<0.0056	<0.0056	<0.0028
A3 Floor 1	4/10/01	290203	<0.0055	<0.0055	<0.0055	<0.011	<0.055	<0.0055	<0.011	<0.0055	<0.0055	<0.027
A3 Floor 2	4/10/01	290204	<0.0055	<0.0055	<0.0055	<0.011	<0.055	<0.0055	<0.011	<0.0055	<0.0055	<0.028
A3 Floor 3	4/18/01	290693	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.011	<0.0054	<0.0054	<0.027
A3 Floor 4	4/18/01	290694	<0.0055	<0.0055	<0.0055	<0.011	<0.055	<0.0055	<0.011	<0.0055	<0.0055	<0.028
A3 Floor 5	4/23/01	291218	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.011	<0.0054	<0.0054	<0.027
A3 Floor 5 Dup.	4/23/01	291219	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.011	<0.0054	<0.0054	<0.027
A3 Floor 6	4/23/01	291220	<0.0055	<0.0055	<0.0055	<0.011	<0.055	<0.0055	<0.011	<0.0055	<0.0055	<0.028
A3 Floor 7	4/23/01	291221	<0.0056	<0.0056	<0.0056	<0.011	<0.056	<0.0056	<0.011	<0.0056	<0.0056	<0.028
A3 Floor 8	4/25/01	291420	<0.0056	<0.0056	<0.0056	<0.056	<0.056	<0.0056	<0.011	<0.0056	<0.0056	0.189 E
A3 Floor 8	5/4/01	292249	<0.0051	<0.0051	<0.0051	<0.010	<0.051	<0.0051	<0.010	<0.0051	<0.0051	<0.026
A3 Floor 8 Dup.	5/4/01	292250	<0.0051	<0.0051	<0.0051	<0.010	<0.051	<0.0051	<0.010	<0.0051	<0.0051	<0.026
A3 Floor 9	4/25/01	291421	<0.0055	<0.0055	<0.0055	<0.055	<0.055	<0.0055	<0.011	<0.0055	<0.0055	<0.028
A3 Floor 9	5/4/01	292251	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.011	<0.0054	<0.0054	<0.027
A3 Floor 10	5/4/01	292256	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.011	<0.0054	<0.0054	<0.027
A3 Sidewall 1 Subsurface	4/10/01	290205	<0.0059	<0.0059	<0.0059	<0.012	<0.059	<0.0059	<0.012	<0.0059	<0.0059	<0.030
A3 Sidewall 2 Subsurface	4/10/01	290207	<0.0059	<0.0059	<0.0059	<0.012	<0.059	<0.0059	<0.012	<0.0059	<0.0059	<0.029
A3 Sidewall 3 Subsurface	4/10/01	290209	<0.0057	<0.0057	<0.0057	<0.011	<0.057	<0.0057	<0.011	<0.0057	<0.0057	<0.029
A3 Sidewall 3 Subsurface Dup.	4/10/01	290210	<0.0057	<0.0057	<0.0057	<0.011	<0.057	<0.0057	<0.011	<0.0057	<0.0057	0.033
A3 Sidewall 4 Subsurface	4/23/01	291217	<0.0053	<0.0053	<0.0053	<0.011	<0.053	<0.0053	<0.011	<0.0053	<0.0053	<0.027
A3 Sidewall 6 Subsurface	4/25/01	291423	<0.0059	<0.0059	<0.0059	<0.059	<0.059	<0.0059	<0.012	<0.0059	<0.0059	0.202 E
A3 Sidewall 7 Subsurface	4/25/01	291425	<0.0056	<0.0056	<0.0056	<0.056	<0.056	<0.0056	<0.011	<0.0056	<0.0056	0.049 E
A3 Sidewall 8 Subsurface	5/4/01	292258	<0.0052	<0.0052	<0.0052	<0.010	<0.052	<0.0052	<0.010	<0.0052	<0.0052	<0.026
A3 Sidewall 9 Subsurface	5/4/01	292264	<0.0052	<0.0052	<0.0052	<0.010	<0.052	<0.0052	<0.010	<0.0052	<0.0052	<0.026
A3 Sidewall 10 Subsurface	5/4/01	292266	<0.025	<0.025	<0.025	<0.049	<0.250	<0.025	<0.049	<0.025	<0.025	<0.120
A3 Sidewall 10 Subsurface Dup.	5/4/01	292267	<0.025	<0.025	<0.025	<0.049	<0.250	<0.025	<0.049	<0.025	<0.025	<0.130
A4 Floor 1	5/4/01	292255	<0.0052	<0.0052	<0.0052	<0.010	<0.052	<0.0052	<0.010	<0.0052	<0.0052	0.029
A4 Floor 2	5/4/01	292254	<0.0051	<0.0051	<0.0051	<0.010	<0.051	<0.0051	<0.010	<0.0051	<0.0051	0.026
A4 Sidewall 1 Subsurface	5/4/01	292248	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.011	<0.0054	<0.0054	<0.027
A4 Sidewall 2 Subsurface	5/4/01	292253	<0.0053	<0.0053	<0.0053	<0.011	<0.053	<0.0053	<0.011	<0.0053	<0.0053	<0.026
A5 Floor 1	5/4/01	292261	<0.0055	<0.0055	<0.0055	<0.011	<0.055	<0.0055	<0.011	0.011	0.11	<0.027
A5 Floor 2	5/4/01	292262	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.011	<0.0054	<0.0054	<0.027
A5 Sidewall 1 Subsurface	5/4/01	292241	<0.200	<0.200	0.27	<0.410	<2.0	<0.200	<0.410	<0.200	<0.200	<1.0
A5 Sidewall 1 Subsurface Dup.	5/4/01	292242	<0.200	<0.200	<0.200	<0.400	<2.0	<0.200	<0.400	<0.200	<0.200	<1.0
A5 Sidewall 2 Subsurface	5/4/01	292244	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.011	<0.0054	<0.0054	<0.027
A5 Sidewall 3 Subsurface	5/4/01	292246	<0.0054	<0.0054	<0.0054	<0.011	<0.054	<0.0054	<0.011	<0.0054	<0.0054	<0.027
A6 Floor 1	4/25/01	291428	<0.0055	<0.0055	<0.0055	<0.055	<0.055	<0.0055	<0.011	<0.0055	<0.0055	0.122 E
A6 Floor 1 Dup	4/25/01	291429	<0.0055	<0.0055	<0.0055	<0.055	<0.055	<0.0055	<0.011	<0.0055	<0.0055	0.360 E
A6 Floor 2	4/25/01	291430	<0.0053	<0.0053	<0.0053	<0.053	<0.053	<0.0053	<0.011	<0.0053	<0.0053	0.106 E
A6 Sidewall 1 Subsurface	4/25/01	291427	<0.0055	<0.0055	<0.0055	<0.055	<0.055	<0.0055	<0.011	<0.0055	<0.0055	0.096 E
A6 Sidewall 2 Subsurface	4/25/01	291431	<0.0054	<0.0054	<0.0054	<0.054	<0.054	<0.0054	<0.011	<0.0054	<0.0054	0.162 E
A6 Sidewall 3 Subsurface	4/25/01	291433	<0.0056	<0.0056	<0.0056	<0.056	<0.056	<0.0056	<0.011	<0.0056	<0.0056	0.040 E
A7 Floor 2	5/1/01	291862	<0.0054	<0.0054	<0.0054	<0.054	<0.054	<0.110	<0.011	<0.0054	<0.110	<0.027
A7 Sidewall 2 Subsurface	5/1/01	291860	<0.0054	<0.0054	<0.0054	<0.054	<0.054	<0.0054	<0.011	<0.0054	<0.0054	<0.027
A8 Floor 1	4/10/01	290212	<0.223	<0.223	<0.223	<0.435	<2.23	<0.223	<0.435	<0.223	<0.223	<1.090
A8 Sidewall 1 Subsurface	4/10/01	290213	<0.439	<0.439	<0.439	<0.878	<4.39	<0.439	<0.878	<0.439	<0.439	<2.2
A8 Floor 2	4/10/01	290215	<0.220	<0.220	<0.220	<0.440	<2.2	<0.220	<0.440	<0.220	<0.220	<1.1
A8 Sidewall 2 Subsurface	4/10/01	290216	<0.228	<0.228	<0.228	<0.443	<2.28	<0.228	<0.443	<0.228	<0.228	<1.13
Tier II Residential Cleanup Goals Subsurface Soil[1]			NA	NA	834.372	NA	NA	6.777	NA	185[2]	441[2]	0.0255[2]
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]			NA	NA	1,000	NA	NA	31.18	NA	185[2]	1,000[2]	10.9[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
E = result is estimated
Samples analyzed using EPA SW-846 Method 8260
mg/kg = milligrams per kilogram
NA = Not Applicable

(1) Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
(2) Calculated using surrogate toxicity values and Tier II equations.
(3) Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 15a
Excavation Confirmation Subsurface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	Methyl Ethyl Ketone	Methyl(tert) butyl ether (MTBE)	4-Methyl-2-pentanone (MIBK)	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene
A1 Floor 1	5/1/01	291848	<0.110	<0.011	<0.053	<0.027	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
A1 Floor 2	5/1/01	291855	<0.100	<0.010	<0.051	<0.460	<0.092	<0.0051	<0.0051	<0.092	0.011
A1 Sidewall 1 Subsurface	5/1/01	291847	<0.110	<0.011	<0.053	<0.026	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
A1 Sidewall 2 Subsurface	5/1/01	291850	<0.110	<0.011	<0.056	<0.028	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
A1 Sidewall 3 Subsurface	5/1/01	291852	<0.110	<0.011	<0.054	<0.027	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A1 Sidewall 4 Subsurface	5/1/01	291854	<0.110	<0.011	<0.053	<0.027	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
A1 Sidewall 5 Subsurface	5/4/01	292260	<0.051	<0.010	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
A2 Floor 1	5/9/01	292408	<0.11	<0.011	<0.054	<0.027	5.7	<0.0054	<0.0054	<0.0054	0.7
A2 Floor 1 Dup.	5/9/01	292409	<12.1	<1.2	<6.0	<3.0	<0.6	<0.6	<0.6	<0.6	0.86
A2 Floor 2	5/9/01	292410	<2.6	<0.26	<1.3	<0.65	<0.13	<0.13	<0.13	<0.13	<0.13
A2 Floor 3	5/10/01	292576	<0.240	<0.048	<0.240	0.26	0.59	<0.024	<0.024	<0.024	<0.024
A2 Floor 4	5/10/01	292577	<0.054	<0.011	<0.054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A2 Sidewall 1 Subsurface	5/9/01	292403	<2.4	<0.24	<1.2	<0.62	0.21	<0.12	<0.12	<0.12	5.9
A2 Sidewall 2 Subsurface	5/9/01	292405	<0.11	<0.011	<0.056	<0.028	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
A2 Sidewall 3 Subsurface	5/9/01	292407	<0.11	<0.011	<0.057	<0.029	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057
A2 Sidewall 4 Subsurface	5/9/01	292412	<2.4	<0.24	<1.2	<0.62	<0.12	<0.12	<0.12	<0.12	1.2
A2 Sidewall 5 Subsurface	5/10/01	292570	<0.057	<0.011	<0.057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057
A2 Sidewall 6 Subsurface	5/10/01	292572	<0.058	<0.012	<0.058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058
A2 Sidewall 7 Subsurface	5/10/01	292574	<0.056	<0.011	<0.056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
A2 Sidewall 7 Subsurface Dup.	5/10/01	292575	<0.056	<0.011	<0.056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
A3 Floor 1	4/10/01	290203	<0.055	<0.011	<0.055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
A3 Floor 2	4/10/01	290204	<0.055	<0.011	<0.055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
A3 Floor 3	4/18/01	290693	<0.054	<0.011	<0.054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A3 Floor 4	4/18/01	290694	<0.055	<0.011	<0.055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
A3 Floor 5	4/23/01	291218	<0.054	<0.011	<0.054	NA	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A3 Floor 5 Dup.	4/23/01	291219	<0.054	<0.011	<0.054	NA	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A3 Floor 6	4/23/01	291220	<0.055	<0.011	<0.055	NA	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
A3 Floor 7	4/23/01	291221	<0.056	<0.011	<0.056	NA	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
A3 Floor 8	4/25/01	291420	<0.111	<0.011	<0.056	NA	<0.0056	<0.0056	<0.0056	<0.0056	0.014
A3 Floor 8	5/4/01	292249	<0.051	<0.010	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
A3 Floor 8 Dup.	5/4/01	292250	<0.051	<0.010	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
A3 Floor 9	4/25/01	291421	<0.110	<0.011	<0.055	NA	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
A3 Floor 9	5/4/01	292251	<0.054	<0.011	<0.054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A3 Floor 10	5/4/01	292256	<0.054	<0.011	<0.054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A3 Sidewall 1 Subsurface	4/10/01	290205	<0.059	<0.012	<0.059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059
A3 Sidewall 2 Subsurface	4/10/01	290207	<0.059	<0.012	<0.059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059
A3 Sidewall 3 Subsurface	4/10/01	290209	<0.057	<0.011	<0.057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057
A3 Sidewall 3 Subsurface Dup.	4/10/01	290210	<0.057	<0.011	<0.057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057
A3 Sidewall 4 Subsurface	4/23/01	291217	<0.053	<0.011	<0.053	NA	<0.0053	<0.053	<0.0053	<0.0053	<0.0053
A3 Sidewall 6 Subsurface	4/25/01	291423	<0.119	<0.012	<0.059	NA	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059
A3 Sidewall 7 Subsurface	4/25/01	291425	<0.111	<0.011	<0.056	NA	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
A3 Sidewall 8 Subsurface	5/4/01	292258	<0.052	<0.010	<0.052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
A3 Sidewall 9 Subsurface	5/4/01	292264	<0.052	<0.010	<0.052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
A3 Sidewall 10 Subsurface	5/4/01	292266	<0.250	<0.049	<0.250	<0.025	<0.025	<0.025	<0.025	<0.025	0.041
A3 Sidewall 10 Subsurface Dup.	5/4/01	292267	<0.250	<0.049	<0.250	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
A4 Floor 1	5/4/01	292255	<0.052	<0.010	<0.052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
A4 Floor 2	5/4/01	292254	<0.051	<0.010	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
A4 Sidewall 1 Subsurface	5/4/01	292248	<0.054	<0.011	<0.054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A4 Sidewall 2 Subsurface	5/4/01	292253	<0.053	<0.011	<0.053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
A5 Floor 1	5/4/01	292261	<0.055	<0.011	<0.055	0.02	0.024	<0.0055	<0.0055	<0.0055	<0.0055
A5 Floor 2	5/4/01	292262	<0.054	<0.011	<0.054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A5 Sidewall 1 Subsurface	5/4/01	292241	<2.0	<0.410	<2.0	0.44	0.39	<0.200	<0.200	<0.200	2.1
A5 Sidewall 1 Subsurface Dup.	5/4/01	292242	<2.0	<0.400	<2.0	<0.200	<0.200	<0.200	<0.200	<0.200	1.1
A5 Sidewall 2 Subsurface	5/4/01	292244	<0.054	<0.011	<0.054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A5 Sidewall 3 Subsurface	5/4/01	292246	<0.054	<0.011	<0.054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A6 Floor 1	4/25/01	291428	<0.110	<0.011	<0.055	NA	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
A6 Floor 1 Dup	4/25/01	291429	<0.109	<0.011	<0.055	NA	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
A6 Floor 2	4/25/01	291430	<01.06	<0.011	<0.053	NA	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
A6 Sidewall 1 Subsurface	4/25/01	291427	<0.111	<0.011	<0.055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
A6 Sidewall 2 Subsurface	4/25/01	291431	<0.108	<0.011	<0.054	NA	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A6 Sidewall 3 Subsurface	4/25/01	291433	<0.11	<0.011	<0.0056	NA	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
A7 Floor 2	5/1/01	291862	<0.110	<0.011	<0.054	<0.540	<0.110	<0.0054	<0.0054	<0.110	0.042
A7 Sidewall 2 Subsurface	5/1/01	291860	<0.110	<0.011	<0.054	<0.027	<0.0054	<0.0054	<0.0054	<0.0054	0.0096
A8 Floor 1	4/10/01	290212	<2.23	<0.435	<2.23	<0.223	<0.223	<0.223	<0.223	<0.223	<0.223
A8 Sidewall 1 Subsurface	4/10/01	290213	<4.39	<0.878	<4.39	<0.439	<0.439	<0.439	<0.439	<0.439	<0.439
A8 Floor 2	4/10/01	290215	<2.2	<0.440	<2.2	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220
A8 Sidewall 2 Subsurface	4/10/01	290216	<2.28	<0.443	<2.28	0.778	0.719	<0.228	<0.228	<0.228	<0.228
Tier II Residential Cleanup Goals Subsurface Soil[1]			11.62	NA	68.147	1,767.785	33.5[2]	NA	0.076	0.044	0.227
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]			146.24	NA	407.48	10,000	972[2]	410,000[3]	7.24	0.21	8.01

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
E = result is estimated
Samples analyzed using EPA SW-846 Method 8260
mg/kg = milligrams per kilogram
NA = Not Applicable

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.
[3] Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 15a
Excavation Confirmation Subsurface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
A1 Floor 1	5/1/01	291848	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	0.0079	<0.0053	<0.0053	<0.0053	<0.0053
A1 Floor 2	5/1/01	291855	<0.0051	<0.092	<0.092	<0.0051	<0.0051	1.6	<0.0051	<0.0051	<0.092	<0.092
A1 Sidewall 1 Subsurface	5/1/01	291847	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
A1 Sidewall 2 Subsurface	5/1/01	291850	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	0.16	<0.0056	<0.0056	<0.0056	<0.0056
A1 Sidewall 3 Subsurface	5/1/01	291852	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.0051	<0.0054	<0.0054	<0.0054	<0.0054
A1 Sidewall 4 Subsurface	5/1/01	291854	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	0.045	<0.0053	<0.0053	<0.0053	<0.0053
A1 Sidewall 5 Subsurface	5/4/01	292260	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
A2 Floor 1	5/9/01	292408	0.17	<0.0054	<0.0054	<0.0054	<0.0054	51	<0.0054	<0.0054	4.2	1.2
A2 Floor 1 Dup.	5/9/01	292409	<0.6	<0.6	<0.6	<0.6	<0.6	82	<0.6	<0.6	2.2	<0.6
A2 Floor 2	5/9/01	292410	<0.13	<0.13	<0.13	<0.13	<0.13	8.1	<0.13	<0.13	<0.13	<0.13
A2 Floor 3	5/10/01	292576	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	4.9	1.3
A2 Floor 4	5/10/01	292577	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.012	<0.0054	<0.0054	<0.0054	<0.0054
A2 Sidewall 1 Subsurface	5/9/01	292403	<0.12	<0.12	<0.12	<0.12	<0.12	22	<0.12	<0.12	1.7	0.39
A2 Sidewall 2 Subsurface	5/9/01	292405	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	0.0079	<0.0056	<0.0056	<0.0056	<0.0056
A2 Sidewall 3 Subsurface	5/9/01	292407	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	0.044	<0.0057	<0.0057	<0.0057	<0.0057
A2 Sidewall 4 Subsurface	5/9/01	292412	<0.12	<0.12	<0.12	<0.12	<0.12	7.8	<0.12	<0.12	<0.12	<0.12
A2 Sidewall 5 Subsurface	5/10/01	292570	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	0.200	<0.0057	<0.0057	<0.0057	<0.0057
A2 Sidewall 6 Subsurface	5/10/01	292572	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	0.0078	<0.0058	<0.0058	<0.0058	<0.0058
A2 Sidewall 7 Subsurface	5/10/01	292574	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	0.16	<0.0056	<0.0056	<0.0056	<0.0056
A2 Sidewall 7 Subsurface Dup.	5/10/01	292575	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	0.11	<0.0056	<0.0056	<0.0056	<0.0056
A3 Floor 1	4/10/01	290203	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	0.011	<0.0055	<0.0055	<0.0055	<0.0055
A3 Floor 2	4/10/01	290204	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
A3 Floor 3	4/18/01	290693	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A3 Floor 4	4/18/01	290694	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	0.11	<0.0055	<0.0055	<0.0055	<0.0055
A3 Floor 5	4/23/01	291218	0.015	<0.0054	<0.0054	<0.0054	<0.0054	0.017	<0.0054	<0.0054	<0.0054	<0.0054
A3 Floor 5 Dup.	4/23/01	291219	0.014	<0.0054	<0.0054	<0.0054	<0.0054	0.058	<0.0054	<0.0054	<0.0054	<0.0054
A3 Floor 6	4/23/01	291220	<0.022	<0.0055	<0.0055	<0.0055	<0.0055	0.011	<0.0055	<0.0055	<0.0055	<0.0055
A3 Floor 7	4/23/01	291221	<0.023	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
A3 Floor 8	4/25/01	291420	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	0.071	<0.0056	<0.0056	<0.0056	<0.0056
A3 Floor 8	5/4/01	292249	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
A3 Floor 8 Dup.	5/4/01	292250	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
A3 Floor 9	4/25/01	291421	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	0.010	<0.0055	<0.0055	0.014	<0.0055
A3 Floor 9	5/4/01	292251	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	62	<0.0054	<0.0054	<0.0054	<0.0054
A3 Floor 10	5/4/01	292256	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A3 Sidewall 1 Subsurface	4/10/01	290205	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059
A3 Sidewall 2 Subsurface	4/10/01	290207	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059
A3 Sidewall 3 Subsurface	4/10/01	290209	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057
A3 Sidewall 3 Subsurface Dup.	4/10/01	290210	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057
A3 Sidewall 4 Subsurface	4/23/01	291217	<0.021	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
A3 Sidewall 6 Subsurface	4/25/01	291423	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	0.142	<0.0059	<0.0059	<0.0059	<0.0059
A3 Sidewall 7 Subsurface	4/25/01	291425	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
A3 Sidewall 8 Subsurface	5/4/01	292258	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	0.034	<0.0052	<0.0052	<0.0052	<0.0052
A3 Sidewall 9 Subsurface	5/4/01	292264	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
A3 Sidewall 10 Subsurface	5/4/01	292266	<0.025	<0.025	<0.025	<0.025	<0.025	8.2	<0.025	<0.025	<0.025	<0.025
A3 Sidewall 10 Subsurface Dup.	5/4/01	292267	<0.025	<0.025	<0.025	<0.025	<0.025	3.2	<0.025	<0.025	<0.025	<0.025
A4 Floor 1	5/4/01	292255	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	0.0980	<0.0052	<0.0052	<0.0052	<0.0052
A4 Floor 2	5/4/01	292254	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	0.0051	<0.0051	<0.0051	<0.0051	<0.0051
A4 Sidewall 1 Subsurface	5/4/01	292248	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.068	<0.0054	<0.0054	<0.0054	<0.0054
A4 Sidewall 2 Subsurface	5/4/01	292253	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	0.0096	<0.0053	<0.0053	<0.0053	<0.0053
A5 Floor 1	5/4/01	292261	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	0.13	<0.0055	<0.0055	0.100	0.100
A5 Floor 2	5/4/01	292262	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.021	<0.0054	<0.0054	<0.0054	<0.0054
A5 Sidewall 1 Subsurface	5/4/01	292241	<0.200	<0.200	<0.200	<0.200	<0.200	33	<0.200	<0.200	<0.200	<0.200
A5 Sidewall 1 Subsurface Dup.	5/4/01	292242	<0.200	<0.200	<0.200	<0.200	<0.200	52	<0.200	<0.200	<0.200	<0.200
A5 Sidewall 2 Subsurface	5/4/01	292244	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	1.8	<0.0054	<0.0054	<0.0054	<0.0054
A5 Sidewall 3 Subsurface	5/4/01	292246	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	1.6	<0.0054	<0.0054	<0.0054	<0.0054
A6 Floor 1	4/25/01	291428	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0056	<0.0056	<0.0056	<0.0056
A6 Floor 1 Dup	4/25/01	291429	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
A6 Floor 2	4/25/01	291430	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
A6 Sidewall 1 Subsurface	4/25/01	291427	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
A6 Sidewall 2 Subsurface	4/25/01	291431	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A6 Sidewall 3 Subsurface	4/25/01	291433	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	0.040	<0.0056	<0.0056	<0.0056	<0.0056
A7 Floor 2	5/1/01	291862	<0.0054	<0.110	<0.110	<0.0054	<0.0054	3.6	<0.0054	<0.110	<0.110	<0.110
A7 Sidewall 2 Subsurface	5/1/01	291860	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
A8 Floor 1	4/10/01	290212	<0.223	<0.223	<0.223	<0.223	<0.223	10.6	<0.223	<0.223	<0.223	<0.223
A8 Sidewall 1 Subsurface	4/10/01	290213	<0.439	<0.439	<0.439	<0.439	<0.439	13.2	<0.439	<0.439	<0.439	<0.439
A8 Floor 2	4/10/01	290215	<0.220	<0.220	<0.220	<0.220	<0.220	4.84	<0.220	<0.220	<0.220	<0.220
A8 Sidewall 2 Subsurface	4/10/01	290216	<0.228	<0.228	<0.228	<0.228	<0.228	<0.228	<0.228	<0.228	4.43	1.56
Tier II Residential Cleanup Goals Subsurface Soil[1]			278.926	NA	235.033	229.642	0.035	0.076	281[2]	NA	1.59[2]	1.74[2]
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]			1,000	NA	1,405.37	1,000	1.05	25.73	1,000[2]	NA	306[2]	124[2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
E = result is estimated
Samples analyzed using EPA SW-846 Method 8260
mg/kg = milligrams per kilogram
NA = Not Applicable

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
[2] Calculated using surrogate toxicity values and Tier II equations.
[3] Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 15a
Excavation Confirmation Subsurface Soil Analytical Results for VOCs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	Vinyl acetate	Vinyl chloride	Xylenes, Total
A1 Floor 1	5/1/01	291848	<0.053	<0.011	<0.016
A1 Floor 2	5/1/01	291855	<0.051	<0.010	<0.015
A1 Sidewall 1 Subsurface	5/1/01	291847	<0.053	<0.011	<0.016
A1 Sidewall 2 Subsurface	5/1/01	291850	<0.056	<0.011	<0.017
A1 Sidewall 3 Subsurface	5/1/01	291852	<0.054	<0.011	<0.016
A1 Sidewall 4 Subsurface	5/1/01	291854	<0.053	<0.011	<0.016
A1 Sidewall 5 Subsurface	5/4/01	292260	<0.010	<0.010	<0.0051
A2 Floor 1	5/9/01	292408	<0.054	<0.011	1.1
A2 Floor 1 Dup.	5/9/01	292409	<6.0	<1.2	<1.8
A2 Floor 2	5/9/01	292410	<1.3	<0.26	<0.38
A2 Floor 3	5/10/01	292576	<0.048	<0.048	2.1
A2 Floor 4	5/10/01	292577	<0.011	<0.011	0.015
A2 Sidewall 1 Subsurface	5/9/01	292403	<1.2	<0.24	0.3
A2 Sidewall 2 Subsurface	5/9/01	292405	<0.056	<0.011	<0.017
A2 Sidewall 3 Subsurface	5/9/01	292407	<0.057	<0.011	<0.017
A2 Sidewall 4 Subsurface	5/9/01	292412	<1.2	<0.24	<0.37
A2 Sidewall 5 Subsurface	5/10/01	292570	<0.011	<0.011	<0.0057
A2 Sidewall 6 Subsurface	5/10/01	292572	<0.012	<0.012	<0.0058
A2 Sidewall 7 Subsurface	5/10/01	292574	<0.011	<0.011	<0.0056
A2 Sidewall 7 Subsurface Dup.	5/10/01	292575	<0.011	<0.011	<0.0056
A3 Floor 1	4/10/01	290203	<0.011	<0.011	<0.0055
A3 Floor 2	4/10/01	290204	<0.011	<0.011	<0.0055
A3 Floor 3	4/18/01	290693	<0.011	<0.011	<0.0054
A3 Floor 4	4/18/01	290694	<0.011	<0.011	<0.0055
A3 Floor 5	4/23/01	291218	<0.011	<0.011	<0.0054
A3 Floor 5 Dup.	4/23/01	291219	<0.011	<0.011	<0.0054
A3 Floor 6	4/23/01	291220	<0.011	<0.011	<0.0055
A3 Floor 7	4/23/01	291221	<0.011	<0.011	<0.0056
A3 Floor 8	4/25/01	291420	<0.056	<0.011	<0.017
A3 Floor 8	5/4/01	292249	<0.010	<0.010	<0.0051
A3 Floor 8 Dup.	5/4/01	292250	<0.010	<0.010	<0.0051
A3 Floor 9	4/25/01	291421	<0.055	<0.011	<0.017
A3 Floor 9	5/4/01	292251	<0.011	<0.011	<0.0054
A3 Floor 10	5/4/01	292256	<0.011	<0.011	<0.0054
A3 Sidewall 1 Subsurface	4/10/01	290205	<0.0012	<0.0012	<0.0059
A3 Sidewall 2 Subsurface	4/10/01	290207	<0.012	<0.012	0.068
A3 Sidewall 3 Subsurface	4/10/01	290209	<0.011	<0.011	<0.0057
A3 Sidewall 3 Subsurface Dup.	4/10/01	290210	<0.011	<0.011	<0.0057
A3 Sidewall 4 Subsurface	4/23/01	291217	<0.011	<0.011	<0.0053
A3 Sidewall 6 Subsurface	4/25/01	291423	<0.059	<0.012	<0.018
A3 Sidewall 7 Subsurface	4/25/01	291425	<0.056	<0.011	<0.017
A3 Sidewall 8 Subsurface	5/4/01	292258	<0.010	<0.010	<0.0052
A3 Sidewall 9 Subsurface	5/4/01	292264	<0.010	<0.010	<0.0052
A3 Sidewall 10 Subsurface	5/4/01	292266	<0.049	<0.049	<0.025
A3 Sidewall 10 Subsurface Dup.	5/4/01	292267	<0.049	<0.049	<0.025
A4 Floor 1	5/4/01	292255	<0.010	<0.010	<0.0052
A4 Floor 2	5/4/01	292254	<0.010	<0.010	<0.0051
A4 Sidewall 1 Subsurface	5/4/01	292248	<0.011	<0.011	<0.0054
A4 Sidewall 2 Subsurface	5/4/01	292253	<0.011	<0.011	<0.0053
A5 Floor 1	5/4/01	292261	<0.011	<0.011	<0.0055
A5 Floor 2	5/4/01	292262	<0.011	<0.011	<0.0054
A5 Sidewall 1 Subsurface	5/4/01	292241	<0.410	<0.410	<0.200
A5 Sidewall 1 Subsurface Dup.	5/4/01	292242	<0.400	<0.400	<0.200
A5 Sidewall 2 Subsurface	5/4/01	292244	<0.011	<0.011	<0.0054
A5 Sidewall 3 Subsurface	5/4/01	292246	<0.011	<0.011	<0.0054
A6 Floor 1	4/25/01	291428	<0.055	<0.011	<0.017
A6 Floor 1 Dup	4/25/01	291429	<0.055	<0.011	<0.016
A6 Floor 2	4/25/01	291430	<0.0053	<0.011	<0.016
A6 Sidewall 1 Subsurface	4/25/01	291427	<0.055	<0.011	<0.017
A6 Sidewall 2 Subsurface	4/25/01	291431	<0.054	<0.011	<0.016
A6 Sidewall 3 Subsurface	4/25/01	291433	<0.056	<0.011	<0.017
A7 Floor 2	5/1/01	291862	<0.054	<0.011	<0.016
A7 Sidewall 2 Subsurface	5/1/01	291860	<0.054	<0.011	<0.016
A8 Floor 1	4/10/01	290212	<0.435	<0.435	<0.223
A8 Sidewall 1 Subsurface	4/10/01	290213	<0.878	<0.878	<0.220
A8 Floor 2	4/10/01	290215	<0.440	<0.440	<0.220
A8 Sidewall 2 Subsurface	4/10/01	290216	<0.443	<0.443	<0.24
Tier II Residential Cleanup Goals Subsurface Soil[1]			NA	0.129	1,000
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]			NA	0.13	1,000

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
E = result is estimated
Samples analyzed using EPA SW-846 Method 8260
mg/kg = milligrams per kilogram
NA = Not Applicable

(1) Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996
(2) Calculated using surrogate toxicity values and Tier II equations.
(3) Source: EPA Region 3 Risk-Based Concentration Table - October 1998 Update

Table 15b
Excavation Confirmation Subsurface Soil Analytical Results for PAHs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene
A1 Floor 1	5/1/01	291848	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A1 Floor 2	5/1/01	291855	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
A1 Sidewall 1 Subsurface	5/1/01	291847	<0.35	<0.35	<0.35	<0.35	0.37	<0.35	0.42	<0.35	<0.35
A1 Sidewall 2 Subsurface	5/1/01	291850	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A1 Sidewall 3 Subsurface	5/1/01	291852	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A1 Sidewall 4 Subsurface	5/1/01	291854	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A1 Sidewall 5 Subsurface	5/4/01	292260	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
A2 Floor 1	5/9/01	292408	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A2 Floor 1 Dup.	5/9/01	292409	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A2 Floor 2	5/9/01	292410	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A2 Floor 3	5/10/01	292576	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A2 Floor 4	5/10/01	292577	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A2 Sidewall 1 Subsurface	5/9/01	292403	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A2 Sidewall 2 Subsurface	5/9/01	292405	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A2 Sidewall 3 Subsurface	5/9/01	292407	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
A2 Sidewall 4 Subsurface	5/9/01	292412	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A2 Sidewall 5 Subsurface	5/10/01	292570	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
A2 Sidewall 6 Subsurface	5/10/01	292572	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
A2 Sidewall 7 Subsurface	5/10/01	292574	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A2 Sidewall 7 Subsurface Dup.	5/10/01	292575	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A3 Floor 1	4/10/01	290203	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Floor 2	4/10/01	290204	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Floor 3	4/18/01	290693	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Floor 4	4/18/01	290694	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Floor 5	4/24/01	291218	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Floor 5 Dup.	4/23/01	291219	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Floor 6	4/23/01	291220	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A3 Floor 7	4/23/01	291221	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A3 Floor 8	4/25/01	291420	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A3 Floor 8	5/4/01	292249	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
A3 Floor 8 Dup.	5/4/01	292250	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
A3 Floor 9	4/25/01	291421	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Floor 9	5/4/01	292251	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Floor 10	5/4/01	292256	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Sidewall 1 Subsurface	4/10/01	290205	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.36	<0.39	<0.39
A3 Sidewall 2 Subsurface	4/10/01	290207	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
A3 Sidewall 3 Subsurface	4/10/01	290209	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
A3 Sidewall 3 Subsurface Dup.	4/10/01	290210	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
A3 Sidewall 4 Subsruface	4/23/01	291217	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A3 Sidewall 6 Subsurface	4/25/01	291423	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
A3 Sidewall 7 Subsurface	4/25/01	291425	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A3 Sidewall 8 Subsurface	5/4/01	292258	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
A3 Sidewall 9 Subsurface	5/4/01	292264	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
A3 Sidewall 10 Subsurface	5/4/01	292266	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A3 Sidewall 10 Subsurface Dup.	5/4/01	292267	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A4 Floor 1	5/4/01	292255	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
A4 Floor 2	5/4/01	292254	<0.34	<0.34	<0.34	0.55	0.5	0.46	0.41	0.46	0.56
A4 Sidewall 1 Subsurface	5/4/01	292248	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A4 Sidewall 2 Subsurface	5/4/01	292253	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A5 Floor 1	5/4/01	292261	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A5 Floor 2	5/4/01	292262	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A5 Sidewall 1 Subsurface	5/4/01	292241	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A5 Sidewall 1 Subsurface Dup.	5/4/01	292242	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A5 Sidewall 2 Subsurface	5/4/01	292244	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A5 Sidewall 3 Subsurface	5/4/01	292246	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A6 Floor 1	4/25/01	291428	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A6 Floor 1 Dup	4/25/01	291429	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A6 Floor 2	4/25/01	291430	<0.35	<0.35	<0.35	0.75	0.87	0.86	<0.35	0.73	0.80
A6 Sidewall 1 Subsurface	4/25/01	291427	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A6 Sidewall 2 Subsurface	4/25/01	291431	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A6 Sidewall 3 Subsurface	4/25/01	291433	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A7 Floor 2	5/1/01	291862	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A7 Sidewall 2 Subsurface	5/1/01	291860	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A8 Floor 1	4/10/01	290212	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A8 Sidewall 1 Subsurface	4/10/01	290213	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A8 Floor 2	4/10/01	290215	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A8 Sidewall 2 Subsurface	4/10/01	290216	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Tier II Residential Cleanup Goals Subsurface Soil[1]			10,000	0.425[2]	10,000	103.881	69.849	354.977	6,330[2]	501.638	379.273
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]			10,000	1,280[2]	10,000	103.88	69.85	354.98	8,760[2]	3,759.12	10,000

Detected compound is below the VRP Tier II Residential Cleanup Goal

PAHs = Polynuclear Aromatic Hydrocarbons

Samples analyzed using EPA SW-846 Method 8310

mg/kg = micrograms per kilogram NA = Not Applicable

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of EnvironmentalResponse, July 1996

[2] Calculated using surrogate toxicity values and Tier II equations.

[3] Tier I Health Protective Levels for Phenanthrene, Iodomethane and Acrolein Technical Memo by Indiana Voluntary Remediation Program, Dated 4/21/98

Table 15b
Excavation Confirmation Subsurface Soil Analytical Results for PAHs (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
A1 Floor 1	5/1/01	291848	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A1 Floor 2	5/1/01	291855	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
A1 Sidewall 1 Subsurface	5/1/01	291847	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A1 Sidewall 2 Subsurface	5/1/01	291850	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A1 Sidewall 3 Subsurface	5/1/01	291852	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A1 Sidewall 4 Subsurface	5/1/01	291854	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A1 Sidewall 5 Subsurface	5/4/01	292260	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
A2 Floor 1	5/9/01	292408	<0.36	<0.36	<0.36	<0.36	0.51	<0.36	<0.36
A2 Floor 1 Dup.	5/9/01	292409	<0.36	<0.36	<0.36	<0.36	0.37	<0.36	<0.36
A2 Floor 2	5/9/01	292410	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A2 Floor 3	5/10/01	292576	<0.36	<0.36	<0.36	<0.36	0.54	<0.36	<0.36
A2 Floor 4	5/10/01	292577	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A2 Sidewall 1 Subsurface	5/9/01	292403	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A2 Sidewall 2 Subsurface	5/9/01	292405	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A2 Sidewall 3 Subsurface	5/9/01	292407	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
A2 Sidewall 4 Subsurface	5/9/01	292412	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A2 Sidewall 5 Subsurface	5/10/01	292570	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
A2 Sidewall 6 Subsurface	5/10/01	292572	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
A2 Sidewall 7 Subsurface	5/10/01	292574	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A2 Sidewall 7 Subsurface Dup.	5/10/01	292575	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A3 Floor 1	4/10/01	290203	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Floor 2	4/10/01	290204	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Floor 3	4/18/01	290693	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Floor 4	4/18/01	290694	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Floor 5	4/24/01	291218	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Floor 5 Dup.	4/23/01	291219	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Floor 6	4/23/01	291220	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A3 Floor 7	4/23/01	291221	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A3 Floor 8	4/25/01	291420	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A3 Floor 8	5/4/01	292249	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
A3 Floor 8 Dup.	5/4/01	292250	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
A3 Floor 9	4/25/01	291421	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Floor 9	5/4/01	292251	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Floor 10	5/4/01	292256	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A3 Sidewall 1 Subsurface	4/10/01	290205	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
A3 Sidewall 2 Subsurface	4/10/01	290207	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
A3 Sidewall 3 Subsurface	4/10/01	290209	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
A3 Sidewall 3 Subsurface Dup.	4/10/01	290210	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
A3 Sidewall 4 Subsruface	4/23/01	291217	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A3 Sidewall 6 Subsurface	4/25/01	291423	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
A3 Sidewall 7 Subsurface	4/25/01	291425	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A3 Sidewall 8 Subsurface	5/4/01	292258	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
A3 Sidewall 9 Subsurface	5/4/01	292264	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
A3 Sidewall 10 Subsurface	5/4/01	292266	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A3 Sidewall 10 Subsurface Dup.	5/4/01	292267	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A4 Floor 1	5/4/01	292255	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
A4 Floor 2	5/4/01	292254	<0.34	1.2	<0.34	<0.34	<0.34	0.65	1.1
A4 Sidewall 1 Subsurface	5/4/01	292248	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A4 Sidewall 2 Subsurface	5/4/01	292253	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A5 Floor 1	5/4/01	292261	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A5 Floor 2	5/4/01	292262	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A5 Sidewall 1 Subsurface	5/4/01	292241	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A5 Sidewall 1 Subsurface Dup.	5/4/01	292242	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A5 Sidewall 2 Subsurface	5/4/01	292244	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A5 Sidewall 3 Subsurface	5/4/01	292246	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
A6 Floor 1	4/25/01	291428	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A6 Floor 1 Dup	4/25/01	291429	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A6 Floor 2	4/25/01	291430	<0.35	1.0	<0.35	<0.35	<0.35	<0.35	1.1
A6 Sidewall 1 Subsurface	4/25/01	291427	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A6 Sidewall 2 Subsurface	4/25/01	291431	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A6 Sidewall 3 Subsurface	4/25/01	291433	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A7 Floor 2	5/1/01	291862	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A7 Sidewall 2 Subsurface	5/1/01	291860	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A8 Floor 1	4/10/01	290212	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
A8 Sidewall 1 Subsurface	4/10/01	290213	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A8 Floor 2	4/10/01	290215	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
A8 Sidewall 2 Subsurface	4/10/01	290216	<0.40	<0.40	<0.40	<0.40	0.63	<0.40	<0.40
Tier II Residential Cleanup Goals Subsurface Soil[1]			69.863	2,305.040	8,838.641	629.166	1,761.785	260[3]	10,000
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]			69.86	10,000	10,000	629.17	10,000	260[3]	10,000

Detected compound is below the VRP Tier II Residential Cleanup Goal

PAHs = Polynuclear Aromatic Hydrocarbons

Samples analyzed using EPA SW-846 Method 8310

mg/kg = micrograms per kilogram NA = Not Applicable

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of EnvironmentalResponse, July 1996

[2] Calculated using surrogate toxicity values and Tier II equations.

[3] Tier I Health Protective Levels for Phenanthrene, Iodomethane and Acrolein Technical Memo by Indiana Voluntary Remediation Program, Dated 4/21/9

Table 15c
Excavation Confirmation Subsurface Soil Analytical Results for Metals (mg/kg)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Lab Sample No.	Total Cadmium	Total Chromium	Total Lead
A1 Floor 1	5/1/01	291848	<0.53	20	700
A1 Floor 2	5/1/01	291855	1.7	30	1,400
A1 Sidewall 1 Subsurface	5/1/01	291847	1.5	15	390
A1 Sidewall 2 Subsurface	5/1/01	291850	4.3	18	540
A1 Sidewall 3 Subsurface	5/1/01	291852	1.1	8.4	120
A1 Sidewall 4 Subsurface	5/1/01	291854	<0.53	6.5	7.7
A1 Sidewall 5 Subsurface	5/4/01	292260	<0.51	2.9	<4.1
A2 Floor 1	5/9/01	292408	<0.54	2.4	6.0
A2 Floor 1 Dup.	5/9/01	292409	<0.55	2.3	<4.4
A2 Floor 2	5/9/01	292410	<0.55	3.7	8.7
A2 Floor 3	5/10/01	292576	<0.55	8.7	130
A2 Floor 4	5/10/01	292577	<0.54	5.4	9.9
A2 Sidewall 1 Subsurface	5/9/01	292403	<0.56	4.0	<4.4
A2 Sidewall 2 Subsurface	5/9/01	292405	<0.56	9.4	13
A2 Sidewall 3 Subsurface	5/9/01	292407	2.4	17	280
A2 Sidewall 4 Subsurface	5/9/01	292412	<0.56	4.9	6.3
A2 Sidewall 5 Subsurface	5/10/01	292570	<0.57	11	9.4
A2 Sidewall 6 Subsurface	5/10/01	292572	<0.58	16	37
A2 Sidewall 7 Subsurface	5/10/01	292574	<0.56	5.6	<4.5
A2 Sidewall 7 Subsurface Dup.	5/10/01	292575	<0.56	7.2	9.8
A3 Floor 1	4/10/01	290203	<0.55	9.2	170
A3 Floor 2	4/10/01	290204	<0.55	6.1	90
A3 Floor 3	4/18/01	290693	<0.54	5.6	25
A3 Floor 4	4/18/01	290694	4.1	20	530
A3 Floor 5	4/23/01	291218	<0.54	7.8	6.8
A3 Floor 5 Dup.	4/23/01	291219	<0.54	5.8	<4.3
A3 Floor 6	4/23/01	291220	<0.55	12	111
A3 Floor 7	4/23/01	291221	<0.56	6.8	14
A3 Floor 8	4/25/01	291420	<0.56	9.0	30
A3 Floor 8	5/4/01	292249	<0.51	5.1	130
A3 Floor 8 Dup.	5/4/01	292250	9.6	7.7	88
A3 Floor 9	4/25/01	291421	<0.55	8.3	15
A3 Floor 9	5/4/01	292251	<0.54	3.9	8.3
A3 Floor 10	5/4/01	292256	<0.54	4.8	5.4
A3 Sidewall 1 Subsurface	4/10/01	290205	<0.59	20	59
A3 Sidewall 2 Subsurface	4/10/01	290207	0.68	18	50
A3 Sidewall 3 Subsurface	4/10/01	290209	<0.57	16	9.7
A3 Sidewall 3 Subsurface Dup.	4/10/01	290210	<0.57	17	5.5
A3 Sidewall 4 Subsruface	4/23/01	291217	<0.53	6.5	<4.2
A3 Sidewall 6 Subsurface	4/25/01	291423	<0.59	9.1	26
A3 Sidewall 7 Subsurface	4/25/01	291425	<0.56	12	5.1
A3 Sidewall 8 Subsurface	5/4/01	292258	18	30	990
A3 Sidewall 9 Subsurface	5/4/01	292264	<5.2	12	<4.2
A3 Sidewall 10 Subsurface	5/4/01	292266	<0.54	5.1	<4.3
A3 Sidewall 10 Subsurface Dup.	5/4/01	292267	<0.54	4.6	4.4
A4 Floor 1	5/4/01	292255	3.6	12	410
A4 Floor 2	5/4/01	292254	0.63	5.1	90
A4 Sidewall 1 Subsurface	5/4/01	292248	<0.54	5.8	5.9
A4 Sidewall 2 Subsurface	5/4/01	292253	<0.53	12	97
A5 Floor 1	5/4/01	292261	<0.55	14	220
A5 Floor 2	5/4/01	292262	<0.54	4.6	17
A5 Sidewall 1 Subsurface	5/4/01	292241	<0.53	4.7	7.6
A5 Sidewall 1 Subsurface Dup.	5/4/01	292242	<0.54	4.7	6.8
A5 Sidewall 2 Subsurface	5/4/01	292244	<0.54	4.3	13
A5 Sidewall 3 Subsurface	5/4/01	292246	<0.54	16	45
A6 Floor 1	4/26/01	291428	<0.55	5.4	11
A6 Floor 1 Dup.	4/25/01	291429	<0.55	4.9	10
A6 Floor 2	4/25/01	291430	<0.53	9.6	94
A6 Sidewall 1 Subsurface	4/25/01	291427	<0.55	6.5	8.6
A6 Sidewall 2 Subsurface	4/25/01	291431	<0.54	5.5	5.5
A6 Sidewall 3 Subsurface	4/25/01	291433	<5.6	5.4	8.7
A7 Floor 2	5/1/01	291862	<0.54	5.2	5.8
A7 Sidewall 2 Subsurface	5/1/01	291860	<0.54	8.9	15
A8 Floor 1	4/10/01	290212	0.88	13	212
A8 Sidewall 1 Subsurface	4/10/01	290213	<0.55	7.1	13
A8 Floor 2	4/10/01	290215	<0.55	4.2	13
A8 Sidewall 2 Subsurface	4/10/01	290216	<0.60	7.7	34
Tier II Residential Cleanup Goals Subsurface Soil[1]			730	7,300	400 [2]
Tier II Non-Residential Cleanup Goals Subsurface Soil[1]			730	7,300	1,000 [2]

Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

Samples analyzed using EPA Method Series 6000/7000 mg/kg = milligrams per kilogram

[1] Indiana Department of Environmental Management Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Response, July 1996

[2] IDEM VRP Interoffice Memo dated on January 26, 1998