# SITE INVESTIGATION REPORT
# WHITE PLAINS FORMER MGP SITE
## White Plains, New York

**VOLUME I – TEXT, TABLES, AND FIGURES**


PREPARED BY:

**PARSONS**
Liverpool, New York 13088

**FEBRUARY 2004**

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# White Plains, New York

*Prepared For:*

## Consolidated Edison Company of NY, Inc.

31-01 20th Ave, Building 138
Long Island City, NY 11105

*Prepared By:*


**PARSONS**

290 Elwood Davis Road, Suite 312
Liverpool, New York 13088
Phone: (315) 451-9560
Fax: (315) 451-9570


**REVIEWED AND APPROVED BY:**

Project Manager: Megan A Miller — 2/6/04 (Date)

Technical Manager: [signature] — 2/9/04 (Date)

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# SECTION 1

# INTRODUCTION

## 1.1 PROJECT BACKGROUND

Consolidated Edison Company of New York, Inc. ("Con Edison") owns and operates an electric distribution substation (Site) in the City of White Plains, Westchester County, New York (Figures 1-1 and 1-2). The substation provides electric service to approximately 23,000 commercial and residential consumers within the White Plains area. Con Edison is planning to modernize and upgrade its facilities at the White Plains substation to ensure continued reliability of the substation. The White Plains substation is one of Con Edison's oldest active electric substations, dating back to 1925. The first phase of the planned improvements include the replacement of existing substation equipment, the expansion of the substation's existing control room and electric equipment building, and construction of aboveground vault enclosures around the new transformers that will be installed to replace the substation's older outdoor transformers. In addition, the existing Site drainage will be improved and an oil/water separator will be installed to control and treat storm water runoff from areas with oil-filled equipment. During later phases of the project, older outdoor equipment that has been replaced by new equipment will be retired and removed from the substation Site. The substation reconstruction plan is shown on Figure 1-3.

As of January 2003, Phase I construction activities were approximately 85 percent complete. The two new transformers, replacing the substation's older outdoor transformers, have been installed and the new building enclosure for the transformers has been completed. Expansion of the substation's existing control room and electric equipment building has also been completed. The foundation for the new pressurizing plant has been completed and the plant is expected to be delivered by the end of February 2003.

Historical information indicates that the substation and portions of an adjoining commercial office building property located west of the substation Site (12 Water Street) were once the location of a manufactured gas plant (MGP). In anticipation of the construction activities associated with the substation improvement/modernization project, a Preliminary Site Assessment (PSA) was conducted to identify potential subsurface conditions that might pose a risk to the health and safety of Site workers and the public during those activities. Additional investigations were also conducted to assess potential impacts of the former MGP on adjacent properties surrounding the substation.

Con Edison submitted a Voluntary Cleanup Program application for the Site to the New York State Department of Environmental Conservation (NYSDEC) on July 11, 2000. The Preliminary Site Assessment Report and Interim Remedial Measures Work

Plan (PSA/IRM Report) was submitted with the application. Con Edison received a letter from the NYSDEC on July 27, 2001 stating that they had no objection to the commencement of Phase I construction activities in accordance with the IRM Work Plan. On September 23, 2002, Con Edison entered into a Voluntary Cleanup Agreement with the NYSDEC for the Site.

## 1.2 PROJECT OBJECTIVES

The objectives of the Site investigation activities were to:

1. Determine whether potential MGP byproducts and/or other chemical constituents are present in Site soils and groundwater or in the soil or groundwater of surrounding properties;

2. Identify Site conditions which could pose a risk to the health and safety of Site construction workers and public during construction;

3. Identify worker protection procedures to be implemented during construction, in the event impacted soil and groundwater are present;

4. Identify subsurface conditions that may require mitigative measures during construction; and

5. Identify any special soil handling, transportation, and disposal requirements.

This report presents results of the preliminary Site assessment and subsequent Site investigations performed at and around the Site.

## 1.3 SITE DESCRIPTION

The White Plains Substation is an active electric distribution substation located at 9 New Street in the downtown core area of the City of White Plains, Westchester County, New York (Figure 1-1). The perimeter of the Site is secured by a chain link fence. The Site encompasses approximately 1.2 acres of land and includes a two-story brick switchgear/control room building, and a substantial amount of aboveground outdoor electric equipment (e.g., transformers, circuit breakers, switching gear, buss work, etc.), and extensive underground electric cables and feeders related to Con Edison's power distribution system (Figure 1-2). Surface materials consist of soil, pavement, bluestone, and concrete. The Site is bordered by Water Street on the north; by an office building property (12 Water Street) with two off-street parking lots on the west; by New Street on the south; and by the off-street parking lot of a commercial office building property (170 Hamilton Avenue) on the east. With the exception of St. John's R.C. Church and St. John's Elementary School, which are located on the south side of New Street directly across from the substation Site, the surrounding area is predominately commercial, consisting of a car dealership, office buildings, and a bus depot.

## 1.4 SITE HISTORY

Historical information relating to past uses of the Site was compiled by Jacques Whitford Company, Inc. during a Phase I Environmental Site Assessment (ESA) (JWC, 1999). Historical Atlases of Westchester County (1861, 1893, 1901, and 1930), City Directory Abstracts (1937, 1942, 1948, 1952, 1958, and 1965), and historical aerial photographs (1954, 1961, 1964, 1974, 1975, 1979, 1989, and 1994) were reviewed. Sanborn Fire Insurance maps of the Site (1885, 1889, 1894, 1900, 1905, 1911, 1930, 1950, 1987, 1989, 1990, 1992, 1993, 1994) were also examined. Detailed Site information was also obtained from a Westchester Lighting Company Property Plan, dated June 1, 1911. Copies of the Sanborn Maps and detailed property plan are provided in Appendix A.

Beginning in the mid-1800s, a manufactured gas plant (MGP) was operated on the eastern portion of the property located between Lexington Avenue on the west, Spring Street on the east, New Street on the south and Gas Street on the north. The Site is labeled as "Gasworks" on the 1861 map from the Historical Atlases of Westchester County. The MGP contained two buildings and a small gasometer (gasholder).

The 1889 Sanborn map indicates the MGP was operated by the White Plains Gas Light Company. The structures depicted as being present on the Site indicate that gas was produced from coal and naphtha. The MGP contained a retort house, a coal house, a meter room, four purifiers, a 24,000 cubic foot (cf) gasholder, a tar well, and a iron naphtha tank. The western and southern portions of the Site contained residential dwellings. A small stream flows to the north along the east side of Spring Street. At the northeast corner of the Site, the stream bends to the west and flows westward along the northern side of Gas Street.

The same structures appear to be present on an 1893 map from the Historical Atlases of Westchester County. Structures on the 1894 Sanborn map is similar to the 1889 map. The White Plains Lighting Company is now shown as owner of the MGP. Changes on the map include the addition of a White Plains Steam Laundry building in the northern portion of the property and the re-naming of Gas Street to Water Street.

The 1900 Sanborn map indicates expansion and a process change at the plant from coal gas to a carbureted water gas. The retort house has been converted to a boiler house and generator house. A new 50,000 cf one-lift gasholder is present north of the existing gasholder in the vicinity of the former White Plains Steam Laundry. A new purifying house is also present in the northeast corner of the Site. Residential dwellings are still present in the southern and western portions of the property. The 1901 Historical Atlas map is similar to the 1900 Sanborn map.

The 1905 Sanborn map indicates further expansion and change of the MGP. A third 150,000 cf two-lift gasholder is present west of the second gasholder. The smaller southern 24,000 cf gasholder has been converted to a 10,000 gallon oil tank. An electric substation is also located adjacent to the boiler house building.

The 1911 Sanborn map and the June 1, 1911 property plan indicates that ownership of the Site had changed to the Westchester Lighting Company. The MGP contains various structures including two relief holders, a storage holder, a generator house, a purifying house, various storage sheds, a stable, a substation, several oil and tar tanks, a tar separator, and a tar well. Figure 1-4 shows the historical layout of the Site circa 1911. Several buildings have also been added to the western portion of the property.

Operations at the MGP reportedly ceased in May 1930. The gasholders and oil tanks are no longer present on the 1930 Sanborn map. The purifier house, boiler house and generator house are shown as vacant or used for storage. A two-story building (the current substation building) and transformers are present in the southern portion of the Site where dwellings were previously located. The substation building was reportedly constructed in 1925 adjacent to the substation on the MGP. A large building (the current 12 Water Street building) is also present in the northwest portion of the Site. The stream located east and north of the Site is also filled in, its former location shown in dashed lines.

All of the former MGP buildings with the exception of a storage building (the former purifying house) located in the northeast corner of the Site are no longer shown on the 1950 Sanborn map. A parking lot is also present adjacent to the large building in the northwest portion of the Site. The remainder of the Site is similar to the 1930 Sanborn map.

In February 1951, Westchester Lighting Company merged with Con Edison. The 1954 and later aerial photographs and Sanborn Maps indicate that the Site consisted of a Con Edison substation.

## 1.5 PREVIOUS INVESTIGATIONS

1997 Drywell Investigation

In March and April 1997, Environmental Concepts, Inc. (ECI) conducted a subsurface soil investigation adjacent to four separate transformer banks and dry wells located on the eastern side of the two-story substation building (ECI, 1997). The purpose of the investigation was to determine the extent of any impacts that may have resulted from a December 1995 oil spill from transformer bank number four. The transformer banks in that area are located on concrete platforms with concrete curbing surrounding each transformer. Each transformer bank drains, via gravity flow, to four individual dry wells. The Site assessment included:

- Collecting standing water (where present) and sediment/soil samples from the dry wells;
- Collecting standing water and sediment samples from the yard drain;

- Collecting sediment/sludge samples from two of the three remaining underground pipes which drain from the transformer containment vaults into the dry wells;
- Drilling two shallow soil borings (depths of 5-7 feet) adjacent to the stone/block leach walls of each of the four dry wells and collecting soil samples at two foot intervals; and
- Analyzing soil, sediment, and water samples for semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and total petroleum hydrocarbons (TPH).

Additionally, the sediments and debris observed within the dry wells were reportedly removed and properly disposed.

2001-2002 Closure of the Four Dry Wells

Con Edison held discussions with United States Environmental Protection Agency (USEPA) Region II officials concerning the existence of the four dry wells and Con Edison's intent to remove them. On October 3, 2001, Con Edison submitted a Dry Well Closure Plan to the USEPA for approval (Parsons, 2001). The Dry Well Closure Plan was approved by the USEPA on October 30, 2001. Between February 20, 2002 and March 4, 2002, the four dry wells were closed in accordance with the USEPA-approved plan. A closure report was prepared to document the closure activities, confirmatory sampling, air monitoring, soil disposal, and site restoration activities (Parsons, 2002). The closure report was submitted to the USEPA in May 2002.

# SECTION 2

# FIELD INVESTIGATION PROGRAM

Field investigation activities at the Site were performed by Jacques Whitford Company, Inc. (JWC). The field investigation was conducted in several phases over the periods of March and April 2000, August and December 2000, and April and August 2001. All field activities were conducted in accordance with the *December 1999 Work Plan for the Site Investigation at the White Plains Substation* (Parsons, 1999), the *August 2000 Work Plan for Additional Site Investigation at the White Plains MGP Site* (Parsons, 2000), and subsequent modifications based on several Site meetings with Con Edison and NYSDEC. This section describes the field investigation activities that were conducted at the Site.

## 2.1 UNDERGROUND UTILITY CLEARANCE

Prior to the start of any intrusive activities at the Site, Con Edison conducted a review of historic Site plans to identify potential subsurface utilities. Con Edison then completed a magnetometer survey in the areas of the proposed drilling locations to confirm the locations of both mapped and unmapped utilities. Test pits were hand-excavated at each location with a hand auger or shovel to depths ranging from 5 to 8 feet below the ground surface. Following excavation, a 4-inch PVC pipe or 10-inch diameter cardboard (sonotube) tube was placed within each test pit to serve as a temporary casing for future drilling activities at that location. The exterior and interior of the PVC pipe or sonotube was then backfilled with clean fill material to prevent potential accidents in the vicinity of test pits and associated casings.

The soils within each test pit were characterized by a JWC geologist for physical properties (grain size, color, moisture content, consistency, classification) and contaminant properties (visual, olfactory, headspace readings). Upon collection, a representative portion of each sample was placed in a zip-lock plastic bag and screened for the presence of volatile organic vapors with a photoionization detector (PID). A PID was also used to monitor the breathing zone during excavation of each test pit. Borehole logs for each of the test pit/drilling locations are provided in Appendix B.

In general, one sample was selected from each test pit for laboratory analysis based on visual observations and PID readings to characterize the shallow subsurface soils. Selected samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260, semivolatile organic compounds (SVOCs) by EPA Method 8270B, cyanide by EPA Method 9013/9010A, polychlorinated biphenyls (PCBs) by EPA Method 8082, and Target Analyte List (TAL) metals by the EPA Method 6000/7000 Series.

## 2.2 SOIL BORINGS AND SOIL SAMPLING

A total of 36 soil borings were completed within and adjacent to the substation property to characterize the subsurface conditions, to collect soil samples for laboratory analysis, and to evaluate whether there were any MGP residuals present that could pose a risk to the health and safety of Site workers and the public during construction activities. Physical access to optimum drilling locations across the Site was limited by the presence of buildings, a substantial amount of aboveground outdoor electric equipment (i.e., transformers, circuit breakers, switching gear, buss work, etc.), and extensive underground electric cables and feeders. In addition, planned boring, TB-4, could not be completed due to the presence of energized (high voltage) equipment within 15 feet of the boring location. Soil boring locations are shown on Figure 2-1. Relevant information for each soil boring is summarized on Table 2-1.

To evaluate the potential presence of a historical buried stream channel located along Grove street, five supplemental soil borings were attempted along a transect oriented perpendicular to the former stream channel. The soil borings were located approximately five feet apart and extended from the parking lot on the 170 Hamilton Avenue property to the sidewalk along the west side of Grove Street. Concrete was encountered at a depth of six feet below grade in the utility clearance test pits conducted at these locations. Due to concern regarding safety and the likely presence of utilities in the vicinity of these test pits, the borings were not conducted.

Soil borings were advanced to depths of between 10 feet and 75 feet below the ground surface using a variety of drilling methods and equipment due to varying access conditions, overhead utilities, and underground utilities at each location. Hand augers were used to complete borings TB-2A and TB-3, which are located adjacent to transformers. A second boring, TB-2A, was conducted directly adjacent to boring TB-2 to collect additional soil samples from within the former holder and to install a temporary well.

A Dingo® rig was used to complete borings SB-1, TB-1, TB-2, and TB-5 where physical access was limited. The Dingo® is a limited access, direct-push probe drill rig with dimensions of 36” wide by 60” high by 96” long with the rods not extended. It is similar to a “Mule”® or ATV-mounted “Geoprobe” rig, except that it has smaller dimensions. It is a stand-alone rig, so anchoring was not required. Soil samples were collected using 2-foot or 4-foot long, 2-inch diameter macro-core samplers internally lined with acetate liners. The depth of each borehole was generally limited to the physical limits of the drilling equipment. Prior to drilling in the area of TB-1 and TB-2, Con Edison de-energized the transformer and associated equipment to ensure safe working conditions.

The majority of the soil borings were advanced with a Hurricane® drilling rig using direct push probe (DPP) techniques. The Hurricane® rig is mounted on an F-350 type truck and is equipped with 4.25-inch inner diameter (ID) hollow stem augers (HSAs), as

well as 2-inch diameter direct-push probes. Soil samples were collected continuously to the bottom of each boring using a 4-foot long, 2-inch diameter macro-core sampler with an internal acetate liner. Boring SB-27 was advanced with 4.25-inch ID hollow stem augers and standard penetration sampling techniques. Split-spoon samples were collected continuously to the bottom of the boring.

Each soil sample was characterized according to its physical properties (percent recovery, grain size, color, moisture content, consistency, classification) and contaminant properties (visual, olfactory, headspace readings). A representative portion of each soil sample was placed in labeled, sealed, plastic bag for headspace screening. The headspace from each sample was screened in the field for total VOCs with a PID. The remaining portions of each sample were placed in labeled containers in a cooler with ice. Visual observations and field screening results are summarized on the boring logs presented in Appendix B.

After completion of each soil boring and headspace screening, appropriate samples were selected for laboratory analysis. The samples were selected based on their PID headspace readings and visual impacts. Samples were generally selected from zones with the strongest visible impacts, both above and below the water table. A sample was also collected near the bottom of the boring below any impacted zones. If evidence of hydrocarbon impacts was not observed in the vadose zone, the soil sample immediately above the water table was submitted for laboratory analysis. If evidence of hydrocarbon impacts was not observed in the saturated zone, the soil sample immediately below the water table and/or at the bottom of the borehole was submitted for laboratory analysis.

A total of 148 soil samples were submitted to Environmental Testing Labs (ETL) of Farmingdale, New York for analysis of VOCs by EPA Method 8260, SVOCs by EPA Method 8270B, cyanide by EPA Method 9013/9010A, PCBs by EPA Method 8082, and TAL metals by the EPA Method 6000/7000 Series. A total of 16 soil samples were also submitted to Meta Environmental for gas chromatograph/flame ionization detector (GC/FID) fingerprint analysis by Modified EPA Method 8015/8100. A sample of tar paper-like material from boring TB-2A was submitted to ATC Associates, Inc. for analysis of asbestos content. A summary of the samples collected, the analytical parameters, and sampling rationale is presented in Table 2-2.

At each drilling location, the rig was positioned on plastic sheeting as a spill countermeasure in the event that any fluids leaked from the rig (e.g.. engine oil, transmission fluid, etc.). The drill rig was also grounded to the facility's grounding system. After completion, the soil borings were tremie grouted with a bentonite/cement slurry. Direct push sampling equipment, split-spoon samplers, and hand auger samplers were decontaminated at the start of each work day and after the collection of each sample by scrubbing with a brush using a Simple Green®/potable water solution, followed by a potable water rinse, and finally by a distilled water rinse. HSAs were decontaminated between drilling locations by steam cleaning with a Simple Green®/potable water mixture. Decontamination of drilling equipment was conducted over a plastic lined

decontamination pad that captured the decontamination fluids. The decontamination fluids were transferred to 55-gallon drums for subsequent disposal by Con Edison.

## 2.3 GEOTECHNICAL BORINGS

A total of ten geotechnical borings (GT-1 to GT-10) were conducted in the western portion of the Site on the upper parking lot of the 12 Water Street property where the switchgear and transformer enclosure additions to the substation's existing two-story building will be constructed. The geotechnical borings were conducted by drive and wash methods to depths of 79 to 89 feet below the ground surface. Soil samples were collected at five-foot intervals from the ground surface to the bottom of the boring. Locations of the geotechnical borings are shown on Figure 2-1, and geotechnical boring logs are provided in Appendix B.

A total of ten soil samples were collected from the geotechnical borings for analyses of PCBs, total petroleum hydrocarbons (TPH), and Toxicity Characteristic Leachate Procedure (TCLP) VOCs, SVOCs, and metals.

## 2.4 RADIOLOGICAL INVESTIGATION BORINGS

A total of 38 soil borings were conducted in the upper and lower parking lots of the 12 Water Street property as part of a radiological investigation conducted for Con Edison by Cabrera Services, Inc. (Cabrera) in accordance with the May *2001 Scoping Survey Plan for the Former NDA Site, White Plains, NY* (Cabrera, 2001). The borings were advanced with a Hurricane® drilling rig using two-inch diameter direct push probes. Soil samples were collected continuously to the bottom of each boring using a 4-foot long, 2-inch diameter macro-core sampler with an internal acetate liner. Results of the radiological investigation are presented in the June 22, 2001 *Final Report for the Scoping Survey of the Former NDA Site* (Cabrera, 2001).

## 2.5 MONITORING WELL INSTALLATION AND DEVELOPMENT

Permanent monitoring wells were installed at eight boring locations (MW-1 through MW-8) within and around the perimeter of the Site (Figure 2-1). Monitoring well borings were advanced to depths of 11 to 57 feet below the ground surface with 4.25-inch HSA drilling techniques. The monitoring wells were constructed with two-inch, inner diameter (ID), schedule 40 PVC casing and 7 to 20 feet of 10-slot screen. The screens were placed across the observed water table to monitor for light non-aqueous phase liquids (LNAPL). A two-foot sump was installed in monitoring wells MW-6 and MW-8. Bedrock or a major confining layer was not encountered in the other borings therefore no sump was installed.

Temporary, small-diameter wells were installed at six boring locations, TW-1, SB-1, SB-30 (TW-30), TB-1, TB-2A, and TB-5. Temporary wells were constructed with 3/4-inch or 1-inch schedule 40 PVC casing and 7 to 20 feet of 10-slot screen. The temporary wells were abandoned after sampling by removing the casing and screen and tremie-

grouting with a bentonite/cement slurry. Monitoring well and temporary well construction logs are included in the boring logs presented in Appendix B and summarized in Table 2-1.

The monitoring wells were developed using a submersible pump and dedicated polyethylene tubing. The wells were surged during development by vigorously moving the pump up and down through the water column while pumping. Approximately 25 to 30 gallons of water were removed from each well during the development activities. The pH, temperature, conductivity and turbidity were measured at various times during the development of each well and recorded in the field book. Each well was developed until it became relatively clear and free of sediment (turbidity of 50 NTU or less) or until the pH, temperature and conductivity stabilized. The pump was decontaminated prior to use and between locations by scrubbing with a brush using a Simple Green®/potable water solution, followed by a potable water rinse, and finally by a distilled water rinse.

## 2.6 GROUNDWATER LEVEL MEASUREMENTS AND NAPL GAUGING

Groundwater level measurements and NAPL gauging was conducted in the monitoring wells and temporary wells on various dates between March 22, 2000 and August 11, 2001. An optical interface probe was used to identify the presence of potential LNAPL or DNAPL in the monitoring wells. Due to the small diameter of the temporary wells, an optical interface probe could not be utilized to gauge these. Instead, petroleum-finding paste was used to try and estimate the potential thickness of any NAPL. This methodology, however, did not provide conclusive data. Water levels were measured in each well from the top of the PVC risers with an electronic water level indicator.

## 2.7 GROUNDWATER AND NAPL SAMPLING AND ANALYSIS

Two rounds of groundwater samples were collected from monitoring wells at the Site. The first round of groundwater samples was collected from phase 1 monitoring wells MW-1 through MW-5 on April 6, 2000 and from temporary well TW-1 on March 14, 2000. The second round of groundwater samples was collected from monitoring wells MW-1 through MW-8 and temporary well SB-30 between July 26 and August 11 of 2001. Temporary wells SB1, TB-1, TB-2A and TB5 were not sampled due to the presence of sheen or measurable NAPL detected during the well gauging.

Prior to sampling, the well caps were removed and the headspace within each well was measured with a PID. An oil/water level interface probe and/or a water levels meter was used to measure the depths to the water table. The volume of standing water in each well was then calculated. Each well was purged by removing a minimum of three times the volume of standing water to allow for collection of a representative sample. Purging was conducted with either a dedicated Waterra™ pump and polyethylene tubing or a peristaltic pump and dedicated polyethylene tubing fitted with a Wattera™ foot valve. Field parameters including pH, specific conductance, temperature, dissolved oxygen and redox potential were measured during the purging. Water from the well purging process

was containerized in labeled 55-gallon DOT drums for subsequent disposal by Con Edison.

Groundwater samples were collected using dedicated polyethylene bailers. The samples collected for total TAL metals were collected using the dedicated Waterra® tubing and pumps. Groundwater samples from the temporary wells were collected using disposable micro-bailers. Upon collection, the samples were transferred directly into the appropriate laboratory-supplied bottles, preserved using EPA and NYSDEC protocols, labeled, logged on a chain-of-custody form, and placed in a cooler with ice. Groundwater samples from the first round of sampling were delivered to Con Edison's Chem Lab Group for subsequent analyses by Eco Test Laboratories, Inc. for VOCs by EPA Method 8260, SVOC base/neutral extractables by EPA Method 8270B, cyanide by EPA Method 335.3, PCBs by EPA Method 608, and TAL metals by the EPA Method 200 Series. Groundwater samples from the second round of sampling were delivered to Con Edison's Chem Lab Group for subsequent analyses by Environmental Testing Labs for VOCs by EPA Method 8260, SVOCs by EPA Method 8270B, cyanide by EPA Method 9013/9010A, PCBs by EPA Method 8082, and TAL metals by the EPA Method 6000/7000 Series.

Samples from SB-1, TB-1, and TB-5 that contained a sheen or floating globules of NAPL were submitted to Meta Environmental for GC/FID fingerprint analysis.

## 2.8 SURVEY

The locations and elevations of all borings and monitoring wells were surveyed after completion by JWC using traditional surveying techniques. The survey data was used to accurately depict the sampling locations on a Site map. Elevation measurements were tied to a datum [at 204.65 ft above mean sea level (ft MSL)] that is permanently marked on the substation. Surveyed elevations are provided on the boring logs in Appendix B.

## 2.9 INVESTIGATION-DERIVED WASTE

Decontamination fluids, purge water, drilling fluids, drill/sampling cuttings, acetate liners, and plastic sheeting were containerized in separate 55 gallon DOT approved drums and stored on-Site in secure areas. At the conclusion of the field activities, soil cuttings and containerized fluids were sampled and submitted to ETL for analysis of TCLP benzene, PCBs, and ignitability. Wherever possible, the analytical results for the samples collected from the borings and monitoring wells were also used to characterize the waste. Upon receipt of the analytical results, the drums were transported to a Con Edison-approved licensed disposal facility.

## 2.10 QUALITY ASSURANCE/QUALITY CONTROL

Quality assurance/quality control samples were collected in accordance with the December 1999 Work Plan and the August 2000 Work Plan for Additional Site

Investigation. A summary of the QA/QC samples collected is provided in Table 2-3. The following types of QA/QC samples were collected.

- Blind Duplicates – Blind duplicate samples were collected to evaluate the representativeness of the sampling methods. The blind duplicate samples were labeled in such a manner that the laboratory was not able to determine that they were duplicate samples.
- Field Blanks - Field Blanks were collected to evaluate the effectiveness of the decontamination procedures for the sampling equipment.
- Trip Blanks - Trip blanks consist a 40-ml VOA vial containing distilled, deionized water that accompany the other water sample bottles into the field and back to the laboratory. Trip Blanks were collected and analyzed for TCL volatile organic compounds to access any contamination from sampling and transport, and internal laboratory procedures.
- Matrix Spike/Matrix Spike Duplicates (MS/MSD) - MS/MSD samples were collected to assess the effect of the sample matrix on the recovery of target compounds or target analytes.

Analytical data received from the laboratory were evaluated to identify any potential deviations from specified protocols. The compliance screening consisted of an assessment of whether or not holding times were met and a review of laboratory Quality Control (QC) blank results in accordance with United States Environmental Protection Agency (USEPA) Region II Standard Operating Procedures (SOPs) for Organic and Inorganic Data Review (USEPA, 1992a and 1992b).

### 2.11 SOIL GAS SAMPLING

A total of six soil gas samples were collected at the site by Clayton Group Services, Inc. (Clayton) on May 28, 2002 and June 4, 2002. Samples were collected along the eastern side of the switch gear building (Figure 2-1). The objective of the soil gas sampling was to assess the potential presence of VOCs in soils in the vicinity of the building.

Soil gas samples were collected from depths of 2 to 11 feet below the ground surface by advancing a one-inch, hollow metal probing rod to the desired sampling depth. Upon reaching the sampling depth, the rod was pulled up approximately 2-3 inches to open the vapor screen point at the leading edge. The soil gas sample was collected through a ¼-inch polyethylene tubing placed in the center of the rods and captured into a stainless steel “Summa” canister. Prior to collecting the sample, a hand pump was used to evacuate the tubing of ambient air and to fill the tubing with soil gas. The samples were submitted to Performance Analytical Inc. of Simi Valley, CA for analysis of VOCs, naphthalene, 2-methylnaphthalene and 10 tentatively identified compounds (TICs) by EPA Method TO-15.

## 2.12 AIR SAMPLING

Two air samples (instantaneous grab samples) were collected by Clayton on May 28, 2002. The purpose of the samples was to assess the potential for the release of residual VOCs from subsurface soils in the vicinity of former MGP structures. One sample was collected outside at the northeast corner of the 2-story switch gear building and one sample was collected in the center of the basement inside the building. The air samples were collected using evacuated Summa canisters. The samples were submitted to Performance Analytical Inc. of Simi Valley, CA for analysis of VOCs and 15 TICs using EPA Method TO-15.

## 2.13 INDOOR AIR ASSESSMENT AT ST. JOHN'S SCHOOL

On February 21, 2003, Con Edison conducted an indoor air assessment at the St. John's School to determine whether there was any evidence of MGP-related subsurface vapor intrusion into the school building and the adjacent rectory and gymnasium buildings. The assessment was conducted in accordance with the NYSDEC and NYSDOH-approved "Work Plan for Evaluation of Subsurface Vapor Intrusion" (RETEC, June 2002). A total of thirteen air samples were collected from the basement and first floors of the buildings. Four ambient air samples were collected outside the buildings. Five soil gas samples were also collected from within and outside the buildings. The samples were analyzed for VOCs using EPA Method TO-15 by Air Toxics laboratory, Inc. In addition to standard VOCs, the analyte list included hydrocarbons expected to be often associated with either MGP tars or petroleum sources.

The sampling activities and results are described in the "Report on Evaluation for Subsurface Vapor Intrusion" (RETEC, August 2003), which was submitted to the NYSDEC and NYSDOH for review. Evaluation of the data obtained during the assessment indicated no discernable impacts from the former MGP on the indoor air in the school, rectory and gymnasium buildings. The August 13, 2003 letter from the NYSDOH and the September 23, 2003 letter from the NYSDEC, copies of which are included in Appendix C of this report, describe the Departments' evaluation of the data.

## 2.14 INVESTIGATION OF SOUTHERN RELIEF GASHOLDER

The former southernmost relief gasholder is currently located beneath transformer #5. Available substation drawings indicate the gasholder is approximately 45 feet in diameter. The walls of the gasholder are constructed of steel lined with brick on either side and are approximately 3-foot thick. The concrete bottom of the gasholder is approximately 18 feet bgs. Substation drawings indicate a number of support columns and a beam were installed within the former gasholder during installation of the transformer #5 foundation. Access to the gasholder is extremely limited by the new pressurizing plant located approximately 7 feet to the west of the gasholder, and by a retaining wall and 10-foot drop-off located approximately 15 feet to the north and east of the gasholder.

Due to the limited access and the presence of active aboveground and belowground electrical equipment present in this area, very few subsurface drilling locations could be installed during the site investigation in the areas of transformers #5 and #6. Therefore, limited data could be obtained to assess the extent of impacts associated with the former southernmost relief gasholder.

The de-energizing of the aboveground and belowground electrical equipment in early 2003 in anticipation of the replacement of transformers #5 and #6 facilitated more extensive access to this area than was allowed during previous investigation activities. To supplement the previous investigation data, additional investigation activities were conducted in May 2003. Seven additional soil borings (SB-101 through SB-107) were installed in the vicinity of the former gasholder (Figure 2-1). The additional soil borings were installed using direct-push drilling methods (Geoprobe). Continuous soil samples were collected for visual characterization and headspace screening with a photoionization detector (PID). Detailed soil boring logs for the May 2003 soil borings are provided in Appendix B. In addition to visual characterization and PID screening, select soil samples were also collected during the May 2003 investigation and submitted for laboratory analysis for VOCs, SVOCs, metals, PCBs, cyanide, and TPH. The analytical results for these samples are summarized discussed in Section 4.1.5.

# SECTION 3

# PHYSICAL CHARACTERISTICS OF THE SITE

## 3.1 TOPOGRAPHY

The substation is constructed on two levels with a vertical retaining wall between the northern and southern portions of the facility. The southern portion of the substation is at an elevation of 200 to 205 feet above mean sea level (MSL) and the northern portion of the substation is at an elevation of approximately 190 feet above MSL.

## 3.2 CLIMATE

Despite the close proximity to the Atlantic Ocean, Westchester County is characterized by a continental climate. The climate is also humid and primarily affected by major circulation patterns that carry moisture towards the northeastern United States. The maritime influence plays a secondary but important role in the climate. The Atlantic Ocean moderates the winter temperatures and adds considerable moisture to the atmosphere. The winters are short but moderately cold with an average temperature of 27 degrees F. Summers are warm and include occasional periods of uncomfortably hot and humid weather. The average temperature during the summer is 70 degrees F with an average daily maximum of 82 degrees. The average total annual precipitation ranges from 44 to 48 inches of rain, about 50 percent of which usually falls in April through September. The average seasonal snowfall ranges from 35 to 45 inches (USDA, 1994).

## 3.3 GEOLOGY

### 3.3.1 Regional Geology

Westchester County is located in the southeastern corner of New York State and lies within the Manhattan and Reading Prongs of the New England Uplands physiographic province. The New England Uplands physiographic province is mature and geologically complex with moderate relief. Elevations within the county range from sea level along Long Island Sound and the Hudson River to nearly 900 feet above sea level in the northern parts of the county. The regional geology is characterized by glacial deposits which overlay a heavily metamorphosed complex of Precambrian and Paleozoic sedimentary and igneous rocks. The hills are generally underlain by the Fordham Gneiss and the Manhattan Schist which are highly resistant to erosion. The Inwood marble underlies many of the valleys which are now occupied by small rivers.

### 3.3.2 Site Geology

The stratigraphy of the Site can divided into four geologic units: fill, fine to medium sand, glacial till, and bedrock. The subsurface stratigraphy is illustrated on geologic

cross-sections A-A', B-B', and C-C' (Figures 3-1, 3-2, and 3-3). Locations of the geologic cross-sections are shown on Figure 2-1.

The fill ranges in thickness from 3.5 to 9 feet and consists of fine to coarse sand, with varying amounts of gravel, silt, brick, cobbles, cinders, metal and concrete debris, and concrete foundations and slabs. The fill is underlain by up to 77 feet of sand. The upper portion of the sand unit consists predominantly of fine to medium sand with a few discontinuous lenses of fine to coarse sand, fine gravel, and thin discontinuous lenses of clayey silt. The lower portion of the sand unit consists of poorly graded sands. The sand unit ranges in thickness from 2 feet in MW-5 (below 6 feet of fill) at the northeastern side of the Site to over 77 feet in GT-1 located near the southeastern end of the property. The sand unit is underlain by up to 15 feet of glacial till. The glacial till consists of poorly graded sand and gravel with boulders.

The glacial till is underlain by bedrock consisting of the Manhattan Schist. The depth to bedrock is highly variable and ranges from 8 feet in the northeast corner of the Site to 84 feet in the southwestern corner of the Site.

## 3.4 HYDROGEOLOGY

### 3.4.1 Regional Hydrogeology

Groundwater in the region is found in unconsolidated glacial deposits and in gneissic bedrock. Regional groundwater flow is to the west towards the Hudson River or to the east towards Long Island Sound.

### 3.4.2 Site Hydrogeology

The groundwater table at the Site occurs in sand and silt deposits overlying the glacial till. Depths to groundwater in the northern and topographically lower portion of the Site range from 5.22 feet to 11.82 feet below the ground surface. Depths to groundwater in the southern and topographically higher portion of the Site range from 22.44 feet to 28.37 feet below the ground surface. Groundwater appears to be perched within the foundation of the southernmost relief holder. Groundwater in TB-2 (within the holder) was observed at a depth of 10 feet while groundwater in TB-1 (outside the holder) was observed at a depth of 22 feet below the ground surface. Water level measurements and groundwater elevations are summarized on Table 3-1.

Groundwater elevation contours, based on water level measurements on July 26, 2001 are presented on Figure 3-4. Groundwater elevations ranged from 183.9 feet above mean sea level (AMSL) in MW-5 located at the northeast corner of the Site to 175.99 feet (AMSL) in temporary well SB-30 located at the southwestern corner of the Site. Local groundwater flow is generally toward the south and west (Figure 3-4). This appears to correspond with the increasing overburden thickness and increasing depth to bedrock towards the south and west. Measured groundwater elevations suggest that the Site is within the Hudson River drainage basin.

Groundwater at the Site is not used as a drinking water source. The entire City of White Plains is on a public water supply. According to the City of White Plains Water Department, 95 percent of the City's water is purchased from the New York City Water Board and is drawn from the Kensico Reservoir. Less than 5 percent of the City's water supply comes from three public water supply wells all located approximately 1.5 miles up gradient of the Site.

# SECTION 4

# NATURE AND EXTENT OF IMPACTS

## 4.1 IMPACT ASSESSMENT

### 4.1.1 Soils

A total of 36 soil borings were completed within and adjacent to the substation property. Soil samples were continuously collected from the ground surface to the bottom of the borings and were visually described for physical properties and evidence of impacts. A total of 148 soil samples were selected for laboratory analyses. Observations related to the presence of NAPL and staining as well as analytical results are discussed below.

**Visual Results**

Visible NAPL or tar-like material was observed in soils at depths ranging between seven feet and 55 feet below the ground surface. The NAPL was described as auburn to black colored oily residue or droplets on the acetate sleeve, oily stained soil, or "tar like" material. In general, the NAPL was associated with elevated PID readings, "tar-like" or "petroleum-like" odors and visible sheen. Figure 4-1 depicts the observed distribution and depths of visible NAPL in Site soils.

Visible NAPL or tar-like material at depths of less than 20 feet below the ground surface (bgs) was found in the northern half of the Site in the following areas:

- The northeastern corner of the Site in the vicinity of the former purifying house and the former tar well and tar separator. NAPL in this area was observed in soils at depths between 7 feet and 17.5 feet bgs.
- Along the northern boundary of the Site in the vicinity of potential former piping from the large gasholder. NAPL in this area was observed in soils at depths between 7.5 feet and 17.4 feet bgs.
- Within the former central gasholder and in the vicinity of the former above ground oil and tar tanks. NAPL in this area was observed in soils at depths between 8 feet and 20 feet bgs.
- Within the southern former smaller gasholder. NAPL in this area was observed in soils at depths between 17.5 feet and 18 feet bgs.

With the exception of borings SB-1 and TB-5, intervals containing visible NAPL in each boring generally ranged between 0.4 feet to 4 feet in thickness. NAPL was also commonly observed at varying depth intervals within each boring. For example, NAPL

was observed at a depth of 17 to 17.4 feet in boring SB-7 and at a depth of 7.5 to 8.5 feet in adjacent boring MW-6.

Visible NAPL at depths of greater than 20 feet was found primarily in the central and southern portions of the Site in the following areas:

- A small area in the vicinity of boring SB-5 which is located north of the central gasholder. NAPL in this area was observed in soils at depths between 27 feet and 28 feet bgs. No NAPL was observed in soils above this zone.

- North of the existing switchgear building in the vicinity of the former above ground oil and tar tanks and extending southeast towards the southernmost former gasholder. NAPL in this area was observed in soils at varying depths between 28 feet and 55 feet bgs.

- In a narrow area at the southern boundary of the Site that extends southward onto the St. John's School property. NAPL in this area was observed in soils at depths between 35 feet and 39 feet bgs. No NAPL was observed in soils above this zone.

For the most part, at depths of greater than 20 feet, soils containing visible NAPL are present in vertically isolated intervals. The intervals vary in thickness from 0.5 feet to 4 feet in thickness. For example, NAPL was observed in borings MW-8 and SB-24 at depths of 35 to 39 feet. Soils above this interval were relatively unimpacted. In boring SB-12, NAPL was observed at depths of 12 to 15 feet and 40 to 44 feet. Soils between these two zones were relatively unimpacted.

**Fingerprint Results**

Sixteen soil samples were submitted to META Environmental for GC/FID hydrocarbon fingerprinting analyses. The hydrocarbon fingerprinting reports are provided in Appendix D and summarized on Table 4-1. The relative abundance of PAHs and the ratio of fluoranthene to pyrene with a relatively low amount of dibenzofuran suggest that the samples contain a MGP tar. Several samples also contained a mid-weight petroleum distillate or mineral oil. The samples exhibited various amounts of weathering. Total monoaromatic hydrocarbon (MAH) concentrations ranged from 0.28 mg/kg to 14,800 mg/kg. Total PAH concentrations ranged from 3.52 mg/kg to 114,000 mg/kg.

**Analytical Results**

Soil sample analytical results were compared with the New York State Department of Environmental Conservation (NYSDEC) Technical Administrative Guidance Memorandum HWR-94-4046 (TAGM 4046) Soil Cleanup Objectives (NYSDEC, 1994). Soil samples that were analyzed for metals were also compared with the Eastern U.S.

Background Concentrations. Soil sample analytical results are presented on Table 4-2 and discussed below.

VOCs

Up to 28 VOCs were detected in the subsurface soil samples. The VOCs consisted primarily of BTEX (benzene, toluene, ethylbenzene, and xylene [meta, para, and ortho-xylene]). BTEX is commonly found in petroleum products and also at former MGP sites. Total BTEX concentrations in Site soils ranged from not detected to 14,420 milligrams per kilogram (mg/kg). The highest concentrations were generally associated with areas where visible NAPL was observed. Figure 4-2 shows the distribution of total BTEX concentrations in soil samples.

Six of the VOCs-- acetone, methylene chloride, benzene, toluene, ethylbenzene, and xylene were detected at concentrations above the NYSDEC TAGM 4046 Soil Cleanup Objectives. Acetone and methylene chloride are common laboratory contaminants and were also found in the trip blank and field blank samples. Benzene and toluene were detected in seven samples at concentrations above the Soil Cleanup Objectives. Ethylbenzene was detected in 21 samples and xylene was detected in 27 samples at concentrations above the Soil Cleanup Objectives. Total BTEX concentrations exceeding 10 mg/kg were detected in soils at depths ranging from four to 55 feet below the ground surface.

At depths of less than 20 feet, total BTEX concentrations exceeding 10 mg/kg were detected in the following areas:

- The lower parking lot on the northern portion of the 12 Water Street property where two former gasholders and former above ground oil and tar tanks were located. Total BTEX concentrations exceeded 10 mg/kg in samples at depths ranging from 4 feet to 18 feet bgs. Samples with total BTEX concentrations greater than 10 mg/kg were primarily located at depths of 8 feet to 18 feet. With the exception of boring SB-31, total BTEX concentrations in samples above 8 feet were low.
- In boring TB-5 located in the northeast corner of the Site in the vicinity of the former purifying house. Total BTEX concentrations exceeded 10 mg/kg in the sample from a depth of 16.5 feet to 17.5 feet bgs. Concentrations in samples from above this interval were below 10 mg/kg.
- In boring TB-2 located within the smaller southern former gasholder. Total BTEX concentrations exceeded 10 mg/kg in the 17.5 feet sample. Visible NAPL was observed in this boring at a depth of 17.5 feet to 18 feet.

These areas are generally coincident with the areas where the former MGP structures were located and where visible NAPL was observed in the soil samples (Figure 4-2).

At depths greater than 20 feet, total BTEX concentrations exceeding 10 mg/kg were detected in the following areas:

- North and east of the existing switchgear building in the vicinity of the former above ground oil and tar tanks and the southern former gasholder. Total BTEX concentrations exceeded 10 mg/kg in samples at depths ranging from 21.5 feet to 55 feet bgs. The depth intervals where total BTEX concentrations exceeded 10 mg/kg varied between wells.
- In boring SB-24 located on the sidewalk in front of the St. Johns School. Total BTEX concentrations exceeded 10 mg/kg in the sample from 36 feet to 38 feet bgs. Samples above this interval contained low concentrations of BTEX.

These areas are also generally coincident with the areas where former MGP structures were located and where visible NAPL was observed in the soil samples (Figure 4-2).

SVOCs

Up to 27 semivolatile organic compounds (SVOCs) were detected in the soil samples. The SVOCs detected consisted primarily of polycyclic aromatic hydrocarbons (PAHs). PAHs are present in fuel oils and in MGP residuals. PAHs can also be present in fill material containing coal, ash, cinders, and slag. Seven of the PAHs detected are probable carcinogenic compounds and ten are non-carcinogenic compounds. Total PAH concentrations in Site soils ranged from not detected to 114,000 mg/kg. Similar to the pattern observed with VOCs, the highest concentrations of PAHs were generally associated with areas where visible NAPL was observed. Figure 4-3 shows the distribution of total PAH concentrations in soil samples.

Phenol in one sample, dibenzofuran in eight samples, non-carcinogenic PAHs in 36 samples, and probable carcinogenic PAHs in 74 samples were detected at concentrations above the NYSDEC TAGM 4046 Soil Cleanup Objectives. Total PAH concentrations exceeding 500 mg/kg were detected in samples at depths ranging from 7.5 feet to 55 feet below the ground surface.

At depths of less than 20 feet, total PAHs were detected at concentrations exceeding 500 mg/kg in the following areas:

- The northeastern corner of the Site in the vicinity of the former purifying house. Total PAH concentrations exceeded 500 mg/kg in samples at depths ranging from 7 feet to 11.8 feet bgs.
- Along the northern boundary of the Site in the vicinity of possible former piping from the large former gasholder. Total PAH concentrations exceeded 500 mg/kg in samples at depths ranging from 7.5 feet to 14 feet bgs. Samples above this interval exhibited total PAH concentrations of less than 120 mg/kg.

- Within the former central and southern gasholder and in the vicinity of the former above ground oil and tar tanks. Total PAH concentrations exceeded 500 mg/kg in samples at depths ranging from 12 feet to 18 feet bgs.

These areas are generally coincident with the areas where visible NAPL was observed in the soil samples and where total BTEX concentrations exceeded 10 mg/kg (Figure 4-3).

At depths greater than 20 feet, total PAHs were detected at concentrations exceeding 500 mg/kg in the following areas:

- North of the existing switchgear building in the vicinity of the former above ground oil and tar tanks and extending southeast towards the small southern former gasholder. Total PAH concentrations exceeded 500 mg/kg in samples at depths ranging from 21.5 feet to 55 feet bgs. The depth intervals where total PAH concentrations exceeded 10 mg/kg varied between wells and were generally vertically isolated, similar to what was observed with the visible NAPL and total BTEX concentrations.
- In a narrow area at the southern boundary of the Site that extends southward onto the St. Johns School property. Total PAH concentrations exceeded 500 mg/kg in samples at depths ranging from 36 feet to 38 feet bgs. PAHs were not detected or detected at very low concentrations in soil samples from above this interval.

These areas are also generally coincident with the location of the former MGP structures and areas where visible NAPL was observed in the soil samples (Figure 4-3).

Low concentrations of PAHs (0.95 mg/kg to 18.48 mg/kg) were also detected in shallow borings conducted adjacent to the four dry wells during a previous investigation in 1997. In the area around the dry wells, PAHs were detected only in soil samples from the 0 to 6-inch depth interval. No PAHs were detected in the deeper samples collected from 2, 4 and 5 feet bgs.

PCBs

PCBs were detected at low concentrations (0.1 mg/kg to 0.27 mg/kg) in three shallow soil samples from borings SB-12 (2'-4'), SB-16 (2'-4') and SB-17 (2'-4'). Low concentrations of PCBs (0.05 mg/kg to 0.12 mg/kg) were also detected in one shallow boring conducted adjacent to the four dry wells. The PCB concentrations were all below the NYSDEC Soil Cleanup Objective of 1 mg/kg. PCBs were not detected in any of the other soil samples across the Site.

Metals and Cyanide

A total of 23 metals were detected in the soil samples collected from across the Site. Thirteen of the metals were detected at concentrations above the Eastern U.S.

Background Concentrations. Chromium, iron, magnesium, and zinc were the most commonly detected metals exceeding the Eastern U.S. Background Concentrations. Arsenic, calcium, barium and selenium were the least common to exceed the Eastern U.S. Background Concentrations. There did not appear to be any pattern to the distribution of elevated metals concentrations.

Cyanide was detected in 66 soil samples at concentrations ranging from 0.045 mg/kg to 9.53 mg/kg. Cyanide concentrations were generally below 1 mg/kg. Cyanide was detected at concentrations of 2 mg/kg to 3.2 mg/kg in seven samples (SB-5, SB-7, SB-8, SB-10, SB-12, SB-14 and SB-16). With the exception of one sample, all were from depths of between 2 to 4 feet. The highest cyanide concentration (9.53 mg/kg) was detected in boring TB-5 located in the former purifier house area.

TPH

TPH was detected in all of the shallow soil samples collected from 1 to 5 feet at geotechnical borings conducted in the western portion of the Site and the southern parking lot area of the 12 Water Street property, where the switchgear and transformer enclosure additions will be built as part of Phase I of the substation improvement/modernization project. TPH concentrations ranged from 18.2 mg/kg to 5,200 mg/kg. TPH concentrations are summarized on Table 4-3.

**TCLP Results**

TCLP results for soil samples collected from the geotechnical borings are summarized in Table 4-3 and provided in Appendix E. No TLCP VOCs or SVOCs were detected in the geotechnical boring soil samples. All TCLP metals concentrations were below the regulatory criteria for toxicity characteristic hazardous waste.

A sample of tarry material from a depth of 17.5 feet in boring TB-2 (within the foundation of the southernmost former relief holder) was also submitted for analysis of TCLP VOCs, SVOCs, and metals. Analytical results are provided in Appendix E. The concentration of benzene in this sample (5.18 mg/L) exceeded the regulatory level of 0.5 mg/L, indicating that this material would be regulated as a toxicity characteristic hazardous waste under the New York State hazardous waste program if it were excavated and removed from the substation Site.

**Asbestos**

Analytical results for sample TB-2A, collected from a tar paper-like material at a depth of approximately 6 feet below grade, are provided in Appendix F. The results indicate that the sample contains less than one percent asbestos, indicating it is not a regulated asbestos containing material.

### 4.1.2 Groundwater

Groundwater samples were collected from the monitoring wells to characterize groundwater quality. In wells where no visual evidence of NAPL was observed during well gauging, the groundwater samples were analyzed for VOCs, SVOCs, PCBs, TAL metals, and cyanide. In wells where NAPL or significant sheen was observed, samples were submitted for hydrocarbon fingerprint analyses.

#### Visual Results

The monitoring wells and temporary wells were monitored for NAPL over a period of 17 months. NAPL monitoring results are summarized on Table 3-1. Small amounts of NAPL were observed in the following wells:

- MW-5 and TB-5 located in the northeastern corner of the Site in the vicinity of the former purifying house and the former tar well and tar separator.
- SB-1 located within the central former gasholder.
- TB-1, TB-2A and TW-1 located within and in the vicinity of the southern small former gasholder.

The NAPL consisted of either a sheen, a thin layer of LNAPL ranging from 0.01 feet to 0.18 feet in thickness, or floating globules of a brownish oily material which exhibited a tar-like odor.

#### Fingerprint Results

Groundwater samples from temporary wells SB-1, TB-1, and TB-5 that contained a sheen or floating globules of NAPL were submitted to META Environmental for GC/FID hydrocarbon fingerprinting analyses. The hydrocarbon fingerprinting results are provided in Appendix D and summarized on Table 4-1. The fingerprint results indicate that the samples contained predominantly tar with some heavy weight petroleum product. The relatively high abundance of MAHs and light PAHs suggest that the samples contain a water soluble fraction of tar. The presence of tar and petroleum of these types is common for carbureted water gas plants. Total MAH concentrations ranged from 570 μg/L to 931 μg/L. Total PAH concentrations ranged from 8,091 μg/L to 14,500 μg/L.

#### Analytical Results

Groundwater analytical results were compared to NYSDEC Class GA (Drinking Water) Groundwater Quality Standards and Guidance Values (NYSDEC, 1998). Analytical results are presented in Table 4-4 and illustrated on Figure 4-4.

VOCs

Fourteen VOCs were detected in the groundwater samples from the monitoring wells and temporary wells. The VOCs consisted primarily of BTEX and BTEX-related compounds. Acetone and chloroform were detected in several samples at low concentrations (below 10 µg/L) and are common laboratory contaminants. Tetrachloroethene was detected in a sample and a duplicate sample from MW-8 at low concentrations of 0.76 µg/L to 1.0 µg/L. BTEX was detected in samples from five monitoring wells, MW-5, MW-6, MW-8, TW-1 and SB-30. BTEX was not detected in samples from monitoring wells MW-1 through MW-4. Total BTEX concentrations ranged from 3.4 µg/L to 2,361 µg/L. The highest BTEX concentration was detected in TW-1 located downgradient of the former small southern relief holder. The sample from TW-1 had a visible sheen.

BTEX and seven BTEX-related compounds were detected at concentrations above the NYSDEC Class GA Groundwater Quality Standards or Guidance Values. BTEX concentrations exceeded the NYSDEC Class GA Groundwater Quality Standards or Guidance Values in monitoring wells MW-5 and MW-6 and temporary wells TW-1 and TW-30.

SVOCs

SVOCs, consisting primarily of PAHs, were detected in groundwater samples. Other SVOCs included phthalate compounds, carbazole, dibenzofuran, and 2,4-dimethylphenol. The phthalate compounds were also detected in the field blank sample and may be attributable to laboratory contamination. Total PAH concentrations ranged from 0.21 µg/L to 3,789 µg/L. The highest PAH concentrations were detected in temporary well TW-1 and monitoring well MW-5. These wells are located in the vicinity of the former relief holder and the former tar well/tar separator areas, respectively. No PAHs were detected in samples from monitoring wells MW-1 and MW-4.

Thirteen PAHs, including seven non-carcinogenic PAHs and six probable carcinogenic PAHs, were detected in the groundwater samples at concentrations above the NYSDEC Class GA Groundwater Quality Standards or Guidance Values. PAHs at concentrations exceeding the NYSDEC Class GA Groundwater Quality Standards or Guidance Values were detected in monitoring wells MW-2, MW-5, MW-6, MW-8 and temporary wells TW-1 and TW-30.

PCBs

PCBs were not detected in any of the groundwater samples collected at the Site.

Metals and Cyanide

A total of 21 metals were detected in groundwater samples collected from the Site. Twelve of the metals were detected at concentrations above the NYSDEC Class GA

Groundwater Quality Standards or Guidance Values. Aluminum concentrations exceeded the groundwater standards in all wells, while iron exceeded the groundwater standards in all but one well. No discernable pattern in metals concentrations was identified.

Total cyanide was detected in groundwater samples from all of the monitoring wells at concentrations ranging from 0.002 mg/L to 0.25 mg/L. Only the cyanide concentrations in monitoring well MW-5 exceeded the NYSDEC Class GA Groundwater Quality Standard of 0.2 mg/L. This well is located in the vicinity of the former tar well and tar separator.

### 4.1.3 Soil Gas

Six soil gas samples were collected at the site to assess the potential presence of VOCs in soils in the vicinity of the switchgear building. The samples were analyzed for VOCs, naphthalene, 2-methylnaphthalene and 10 tentatively identified compounds (TICs). Analytical results are summarized on Table 4-5 and are discussed below.

Low concentrations of 15 VOCs were detected in the soil gas samples collected from the six locations beneath and along the eastern side of the switchgear building. The VOCs consisted of chlorinated compounds, 2-butanone, acetone, carbon disulfide, xylene, methyl ter-butyl ether (MTBE), and toluene. Concentrations of all of the VOCs, except acetone and toluene, were generally below 1 part per billion by volume (ppbv). Acetone concentrations ranged from non-detect to 5.7 ppbv and toluene concentrations ranged from non-detect to 1.5 ppbv.

Low concentrations of chlorinated solvents (trichloroethene, tetrachloroethene, 1,1,1-trichloroethane, 1,1-dichloroethene) were detected in two samples along the eastern side of the switchgear building (SG-X2A and SG-X2B) and in the sample beneath the basement floor in the switchgear building (SB-Basement 1). Other chlorinated compounds detected include bromodichloromethane, trichlorofluoroethane, and trichlorofluoromethane. Chlorinated solvents were not detected in any of the soil or groundwater samples collected in this area. Chlorinated compounds are not related to MGP operations.

Low concentrations of toluene (0.75 ppbv to 1.5 ppbv) were detected in all of the samples collected along the eastern side of the switchgear building. Xylene was detected in two samples at concentrations of 0.37 ppbv to 0.43 ppbv. Naphthalene and 2-methylnaphthalene were not detected in any of the soil gas samples. Toluene and xylene concentrations may be related to MGP-impacts. However, the presence of MTBE in sample SG-X2A suggests they may also be related to gasoline impacts. BTEX compounds, naphthalene and 2-methylnaphthalene were detected in the soil and groundwater samples from this area.

### 4.1.4 Air

Two instantaneous air samples were collected at the site, one located outside at the northeast corner of the switchgear building and one in the center of the basement of the

switchgear building. The samples were analyzed for VOCs and 15 TICs. Analytical results are summarized on Table 4-6 and are discussed below.

Low part per billion concentrations of up to 11 VOCs and 18 TICs were detected in the two samples. VOCs consisted of BTEX, several chlorinated compounds, ethanol, acetone, MTBE, vinyl acetate, and n-hexane. No significant differences were observed between the indoor air sample collected in the building's basement and the ambient air sample collected outside of the building.

### 4.1.5 Southern Relief Gasholder Investigation Results

The location, depths, and visual observations of the soil borings installed within and in the vicinity of the former southernmost relief gasholder during the PSA and May 2003 investigations are summarized on Table 4-7. The investigation results indicate NAPL may be present within the southernmost relief gasholder at depths ranging from 9.5 feet bgs to the bottom of the gasholder (18 feet bgs). Figure 4-5 illustrates the distribution of NAPL observed in the vicinity of the southern gasholder. NAPL encountered in borings immediately outside and in the vicinity of the gasholder is present at depths greater than 27 feet bgs, significantly deeper than the bottom of the gasholder and below the groundwater table which was encountered between 23 and 27 feet bgs.

The analytical results for the soil samples collected during the May 2003 investigation are summarized in Table 4-8. Results indicate elevated concentrations of BTEX and PAHs at soil boring locations SB-101, SB-103, and SB-105 at depths greater than 23 feet bgs.

## 4.2 SITE CONCEPTUAL MODEL

Information collected during the initial and supplemental investigation programs as well as consideration of current and future Site uses, and potential exposure routes and potential receptors were used to develop a conceptual model for the Site (Figure 4-6). The conceptual model provides a framework for evaluating potential risks to human health and the environment and for evaluating a potential Site remedial strategy. Physical access to optimum drilling and sampling locations across the Site was limited by the presence of buildings, a substantial amount of aboveground outdoor electric equipment and extensive underground electric cables and feeders.

Soils at the Site consist of up to 9 feet of fill, underlain by up to 77 feet of fine to medium sand, which is underlain by up to 15 feet of glacial till. Mica schist bedrock at the Site ranges in depth from 8 feet in the northeast corner of the Site to 84 feet in the southwestern corner of the Site. Groundwater generally flows towards the west and south and was found at depths of 7 to 28 feet below the ground surface. Groundwater was shallowest in the northeastern portion of the Site, which is at a lower elevation than the southern portion of the Site.

Soils in the vicinity of the former MGP structures have been impacted by MGP residuals. NAPL, consisting of oily or tar-like material, was encountered at various

depths in borings conducted within and in the vicinity of the former gasholders, within the former purifying house area, in the vicinity of the former above ground oil and tar tanks, and near the former tar well and tar separator. NAPL at depths of less than 20 feet was generally present in close proximity to these former structures. With the exception of borings SB-1 and TB-5, intervals containing visible NAPL in each boring generally ranged between 0.4 feet to 4 feet in thickness. NAPL at depths of greater than 20 feet occurred in vertically isolated intervals within the borings ranging from 0.4 feet to 4 feet in thickness. With the exception of a small area at the southern border of the Site, most NAPL at depths of greater than 20 feet was also found in the vicinity of the former MGP structures. Fingerprinting analysis indicates that the soils contain an MGP tar with various amounts of weathering. VOCs, PAHs and metals were detected in the soil samples at concentrations exceeding the NYSDEC Soil Cleanup Objectives. The highest concentrations were detected in the vicinity of the former MGP structures. One sample of tarry material from the southernmost relief holder also exceeded the maximum concentration of benzene for toxicity characteristic hazardous waste under the New York State hazardous waste program. Soils in the southeastern and western portions of the Site have not been impacted by MGP residuals, as shown by the non detect to low VOC and SVOC concentrations. TPH was detected in shallow soils in the western portion of the Site.

Groundwater in the vicinity of the former MGP structures has also been impacted by MGP residuals. Minor amounts of NAPL, consisting of either a sheen, a thin layer of LNAPL (0.01 feet to 0.18 feet in thickness), or floating globules of a brownish oily material were encountered in several wells. Fingerprinting results indicate that the samples contained predominantly tar with some heavy weight petroleum product which is common for carbureted water gas plants. VOCs and SVOCs were detected in the groundwater samples. The highest concentrations were detected in wells MW-5, MW-6 and TW-1 located in the vicinity of the former MGP structures.

Much of the Site is covered with asphalt or buildings. The current and intended future use of the Site and the southwestern portion of the adjoining 12 Water Street property is an electrical substation. The current and apparently intended future use of the remaining portion of the 12 Water Street property is as a commercial office building. Groundwater at the Site is not used as a drinking water source. The entire City of White Plains is on a public water supply. According to the City of White Plains Water Department, 95 percent of the City's water is purchased from the New York City Water Board and is drawn from the Kensico Reservoir. Less than 5 percent of the City's water supply comes from three public water supply wells all located approximately 1.5 miles upgradient of the Site.

# SECTION 5

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# TABLES

**TABLE 2-1**
**SUMMARY OF SOIL BORING AND MONITORING WELL INSTALLATION**
**WHITE PLAINS FORMER MGP SITE**

| Location | Completion Date | Drilling Equipment Type | Sampling Equipment Type | Total Depth of SB (feet BG) | SB Grouted? (if yes, interval) (feet BG) | TW Installed (if yes, depth) (feet BG) | TW Screen Interval (feet BG) | Total Depth of MW (feet BG) | MW Screen Interval (feet BG) | Elevation TOC (ft MSL) | Elevation Grade (ft MSL) | DTW (install) (feet BG) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SB - 1 | 3/16/00 | Dingo | DP Macro | 20 | -- | 20 | 0-20 | -- | -- | 189.10 | 189.41 | 8 |
| SB - 2 | 8/14/2000 | Hurricane | DP Macro | 16.5 | 0 - 16.5 | -- | -- | -- | -- | -- | -- | 7 |
| SB - 3 | 6/4/2001 | Hurricane | DP Macro | 29.5 | 0 - 29.5 | -- | -- | -- | -- | -- | 189.63 | 11 |
| SB - 4 | 6/19/2001 | Hurricane | DP Macro | 33.5 | 0 - 33.5 | -- | -- | -- | -- | -- | 190.58 | 13 |
| SB - 5 | 5/29/2001 | Hurricane | DP Macro | 30.5 | 0 - 30.5 | -- | -- | -- | -- | -- | 189.20 | 10 |
| SB - 6 | 6/19/2001 | Hurricane | DP Macro | 36 | 0 - 36 | -- | -- | -- | -- | -- | 188.95 | 10 |
| SB - 7 | 8/16/2000 | Hurricane | DP Macro | 39 | 0 - 39 | -- | -- | -- | -- | -- | 188.32 | 5 |
| SB - 8 | 5/21/2001 | Hurricane | DP Macro | 52 | 0 - 52 | -- | -- | -- | -- | -- | 188.82 | 4.8 |
| SB - 9 | 5/30/2001 | Hurricane | DP Macro | 43.5 | 0 - 43.5 | -- | -- | -- | -- | -- | 189.78 | 11 |
| SB - 10 | 6/26/2001 | Hurricane | DP Macro | 47 | 0 - 47 | -- | -- | -- | -- | -- | 190.21 | 12 |
| SB - 11 | 6/1/2001 | Hurricane | DP Macro | 60 | 0 - 60 | -- | -- | -- | -- | -- | 191.08 | 12 |
| SB - 12 | 6/18/2001 | Hurricane | DP Macro | 52 | 0 - 52 | -- | -- | -- | -- | -- | 190.72 | 12 |
| SB - 13 | 6/4/2001 | Hurricane | DP Macro | 35 | 0 - 35 | -- | -- | -- | -- | -- | 196.42 | 12 |
| SB - 14 | 8/16/2000 | Hurricane | DP Macro | 18 | 0 - 18 | -- | -- | -- | -- | -- | 190.31 | 9 |
| SB - 15 | 4/23/2001 | Hurricane | DP Macro | 22 | 0 - 22 | -- | -- | -- | -- | -- | -- | 10 |
| SB - 16 | 4/23/2001 | Hurricane | DP Macro | 10 | 0 - 10 | -- | -- | -- | -- | -- | 189.86 | 9 - 10 |
| SB - 17 | 8/10/2000 | Hurricane | DP Macro | 56 | 0 - 56 | -- | -- | -- | -- | -- | -- | 26 |
| SB - 18 | 8/11/2000 | Hurricane | DP Macro | 60 | 0 - 60 | -- | -- | -- | -- | -- | -- | 26 |
| SB - 19 | 6/21/2001 | Hurricane | DP Macro | 52 | 0 - 52 | -- | -- | -- | -- | -- | 188.21 | 12 |
| SB - 20 | 4/24/2001 | Hurricane | DP Macro | 31.5 | 0 -31.5 | -- | -- | -- | -- | -- | 188.38 | 11 |
| SB - 21 | 4/24/2001 | Hurricane | DP Macro | 35 | 0 -35 | -- | -- | -- | -- | -- | 189.09 | 10 |
| SB - 22 | 4/23/2001 | Hurricane | DP Macro | 35 | 0 - 35 | -- | -- | -- | -- | -- | 189.82 | 11 |
| SB - 23 | 4/20/2001 | Hurricane | DP Macro | 60 | 0 - 60 | -- | -- | -- | -- | -- | 203.23 | 24 |
| SB - 24 | 4/19/2001 | Hurricane | DP Macro | 66 | 0 - 66 | -- | -- | -- | -- | -- | 202.49 | 22.5 |
| SB - 25 | 4/20/2001 | Hurricane | DP Macro | 49 | 0 - 49 | -- | -- | -- | -- | -- | 200.77 | 22 |
| SB - 26 | 6/22/2001 | Hurricane | DP Macro | 32 | 0 - 32 | -- | -- | -- | -- | -- | 190.56 | 10 |
| SB - 27 | 6/22/2001 | HSA | -- | 31.5 | 0-31.5 | -- | -- | -- | -- | | 190.27 | 10.9 |
| SB - 28 | 5/24/2001 | Hurricane | DP Macro | 75 | 0 - 75 | -- | -- | -- | -- | -- | 206.68 | 28 |
| SB - 29 | 6/26/2001 | Hurricane | DP Macro | 72 | 0 - 72 | -- | -- | -- | -- | -- | 207.45 | 28 |
| SB - 30 | 6/20/2001 | Hurricane | DP Macro | 72 | 0 - 72 | -- | -- | -- | -- | -- | 206.78 | 27 |
| SB - 31 | 5/31/2001 | Hurricane | DP Macro | 42 | 0 - 42 | -- | -- | -- | -- | -- | 189.48 | 11 |
| TB-1 | 3/17/2000 | Dingo | DP Macro | 39 | 30-39 | 30 | 20-30 | -- | -- | 201.48 | 201.55 | 24 |
| TB-2 | 3/17/2000 | Dingo | DP Macro | 18.5 | 0-18.5 | -- | -- | -- | -- | -- | 201.74 | 8 |
| TB-2A | 4/11/2000 | Hand Auger | Hand Auger | 11.5 | -- | 11.5 | 4.5-11.5 | -- | -- | 201.74 | 201.74 | 8 |
| TB-3 | 3/22/2000 | Hand Auger | Hand Auger | 12 | -- | -- | -- | -- | -- | -- | 202.48 | -- |
| TB-4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TB-5 | 3/16/00 | Dingo | DP Macro | 17.5 | -- | 16.5 | 0-16.5 | -- | -- | 189.50 | 189.54 | 7 |
| MW-1 | 3/22/2000 | HSA | Spilt Spoon | 34 | -- | -- | -- | 34 | 24-34 | 206.35 | 206.51 | 27 |
| MW-2 | 3/15/2000 | Hurricane | DP Macro | 30 | 19-30 | -- | -- | 17 | 7-17 | 190.54 | 190.72 | 10 |
| MW-3 | 3/21/2000 | HSA | Spilt Spoon | 30 | -- | -- | -- | 30 | 20-30 | 201.58 | 202.03 | 23 |
| MW-4 | 3/14-15/00 | Hurricane | DP Macro | 38 | 23-38 | -- | -- | 23 | 13-23 | 194.92 | 195.09 | 14 |
| MW-5 | 3/15/2000 | Hurricane | DP Macro | 11 | -- | -- | -- | 11 | 4-11 | 189.12 | 189.56 | 7 |
| MW-6 | 8/16/2000 | Hurricane | DP Macro | 33 | Plug: 15-19 | -- | -- | 17 | 5-15 | 187.82 | 188.53 | 4.25 |
| MW-7 | 6/22/2001 | HSA | Split Spoon | 31.5 | Sand: 17-31.5 | -- | -- | 17 | 7-17 | 189.51 | 190.27 | 10.9 |
| MW-8 | 8/30/2000 | Hurricane | DP Macro | 57 | Plug: 40-44 | -- | -- | 42 | 20-40 | 202.08 | 202.37 | 26 |
| TW-1 | 3/13-14/00 | Hurricane | DP Macro | 46 | 0-48 | 35 | 25-35 | -- | -- | -- | 203.88 | 27 |

**Notes:**

1) Elevations tied to on-site datum of 204.65 ft above mean sea level (ft MSL), which is permanently marked on the substation.

TOC = measured from top of casing
BG = measured from grade
SB = soil borehole
TW = temporary micro-well (3/4 or 1" diameter PVC)
MW = monitoring well (2" PVC)
NM = not measured

ppm = parts per million
PID = photoionization detector (calibrated each day to 100 ppm isobutylene standard gas)
HSA = conventional hollow stem auger rig
Hurricane = dual direct push/HSA Hurricane-type rig
Dingo = limited-access direct push Dingo-type rig
Split Spoon = 2-inch stainless steel split spoon sampler
DP Macro = 2-inch direct push macro-core sampler with internal acetate liner
WL= Water Level

**TABLE 2-2**
**SOIL SAMPLE SUMMARY**
**WHITE PLAINS FORMER MGP SITE**

| Location | Interval (feet BG) | Date | Time | Field Sample ID | Matrix (Soil or Water) | VOCs | SVOCs | PCBs | Cyanide | TAL Metals | Fingerprint | Basis for Sample Collection |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SB-1 | 6-8 | 3/16/2000 | 0900 | SB-1 (6-8) | Soil | x | x | x | x | x | | Sample immediately above water table. No evidence of hydrocarbon impact. |
| | 8-10 | 3/16/2000 | 0845 | SB-1 (8-10) | Soil | x | x | x | x | x | x | Sample immediately below water table. Sample exhibited greatest visual contamination (tar-like material) at borehole location. |
| | 14-18 | 3/16/2000 | 0930 | SB-1 (14-18) | Soil | x | x | x | x | x | | Sample below water table with highest field screening result (PID-450 ppm). |
| SB-2 | 2 - 4 | 8/8/2000 | 1345 | SB-2 (2-4') | Soil | x | x | x | x | x | | Sample from the test pit. |
| | 8 - 10 | 8/14/2000 | 830 | SB-2 (8-10') | Soil | x | x | x | x | x | x | Sample immediately below water table. Evidence of hydrocarbon impact. |
| | 15 - 16.5 | 8/14/2000 | 930 | SB-2 (15-16.5') | Soil | x | x | x | x | x | x | Sample collected from bottom of borehole (refusal @ 16.5'). Heavy evidence of hydrocarbon impact. Highest PID reading. |
| SB-3 | 3 - 4 | 6/4/2001 | 1420 | SB-3 (3-4) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 10 - 11 | 6/4/2001 | 1425 | SB-3 (10-11) | Soil | x | x | x | x | x | | Highest field screening result (PID-59 ppm) above water table. |
| | 28 - 29 | 6/4/2001 | 1435 | SB-3 (28-29) | Soil | x | x | x | x | x | | Duplicate sample of SB-3 (28.5 - 29.5'). |
| | 28.5 - 29.5 | 6/4/2001 | 1430 | SB-3 (28.5-29.5) | Soil | x | x | x | x | x | | Highest field screening result (PID-65 ppm) below water table. Bottom of boring. |
| SB-4 | 3 - 4 | 6/19/2001 | 1505 | SB-4 (3-4) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 16 - 18 | 6/19/2001 | 1515 | SB-4 (16-18) | Soil | x | x | x | x | x | | Highest field screening result (PID-367 ppm) below water table. |
| | 32 - 33 | 6/19/2001 | 1510 | SB-4 (32-33) | Soil | x | x | x | x | x | | Bottom of boring. |
| SB-5 | 2 - 4 | 5/29/2001 | 1625 | SB-5 (2-4) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 15 - 16 | 5/29/2001 | 1618 | SB-5 (15-16) | Soil | x | x | x | x | x | | Highest field screening result (PID-232 ppm) below water table. |
| | 27 - 28 | 5/29/2001 | 1630 | SB-5 (27-28) | Soil | x | x | x | x | x | | Greatest visual impact (NAPL) below water table. |
| | 29 - 30 | 5/29/2001 | 1615 | SB-5 (29-30) | Soil | x | x | x | x | x | | Bottom of boring. |
| SB-6 | 3 - 4 | 6/19/2001 | 1240 | SB-6 (3-4) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 8 - 10 | 6/19/2001 | 1250 | SB-6 (8-10) | Soil | x | x | x | x | x | | Highest field screening result (PID-532 ppm) above water table. |
| | 12 - 14 | 6/19/2001 | 1255 | SB-6 (12-14) | Soil | x | x | x | x | x | | Highest field screening result (PID-344 ppm) below water table. Greatest visual impact (NAPL) |
| | 34 - 36 | 6/19/2001 | 1245 | SB-6 (34-36) | Soil | x | x | x | x | x | | Bottom of boring. |
| SB-7 | 2-4 | 8/16/2000 | 0855 | SB-7 (2-4) | Soil | x | x | x | x | x | | Sample from the test pit. |
| | 17-17.4 | 8/16/2000 | 1100 | SB-7 (17-17.4) | Soil | x | x | x | x | x | x | Sample from below water table. Narrow interval with highest field screening result and visual evidence of impact. |
| | 36-39 | 8/16/2000 | 1110 | SB-7 (36-39) | Soil | x | x | x | x | x | | Sample collected from bottom of borehole (refusal @ 39'). |
| SB-8 | 2 - 3 | 5/21/2001 | 1530 | SB-8 (2-3) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 10 - 11 | 5/21/2001 | 1520 | SB-8 (10-11) | Soil | x | x | x | x | x | | Highest field screening result (PID-1528 ppm) below water table. |
| | 46 - 48 | 5/21/2001 | 1505 | SB-8 (46-48) | Soil | x | x | x | x | x | | Bottom of boring. |
| SB-9 | 2 - 4 | 5/30/2001 | 1455 | SB-9 (2-4) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 9 - 10 | 5/30/2001 | 1500 | SB-9 (9-10) | Soil | x | x | x | x | x | | Highest field screening result (PID-689 ppm) above water table. |
| | 10 - 12 | 5/30/2001 | 1502 | SB-9 (10-12) | Soil | x | x | x | x | x | | Highest field screening result (PID-545 ppm) below water table. |
| | 40 - 44 | 5/30/2001 | 1505 | SB-9 (40-44) | Soil | x | x | x | x | x | | Bottom of boring. |
| SB-10 | 3 - 4 | 6/26/2001 | 1145 | SB-10 (3-4) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 12 - 14 | 6/26/2001 | 1148 | SB-10 (12-14) | Soil | x | x | x | x | x | | Highest field screening result (PID-284 ppm) below water table. Greatest visual impact (NAPL). |
| | 45 - 47 | 6/26/2001 | 1152 | SB-10 (45-47) | Soil | x | x | x | x | x | | Bottom of boring. |
| SB-11 | 2 - 4 | 6/1/2001 | 1545 | SB-11 (2-4) | Soil | x | x | x | x | x | | Shallow sample close to surface. MS/MSD sample. |
| | 6 - 8 | 6/1/2001 | 1550 | SB-11 (6-8) | Soil | x | x | x | x | x | | Duplicate sample. |
| | 14 - 16 | 6/1/2001 | 1600 | SB-11 (14-16) | Soil | x | x | x | x | x | | High field screening result (PID-594 ppm) below water table. Visual impact (NAPL). |
| | 44 - 46 | 6/1/2001 | 1605 | SB-11 (44-46) | Soil | x | x | x | x | x | x | Highest field screening result (PID-1110 ppm) below water table. Greatest visual impact (NAPL). |
| | 54 - 56 | 6/1/2001 | 1555 | SB-11 (54-56) | Soil | x | x | x | x | x | | Bottom of boring. |
| SB-12 | 2 - 4 | 6/18/2001 | 1530 | SB-12 (2-4) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 14 - 16 | 6/18/2001 | 1605 | SB-12 (14-16) | Soil | x | x | x | x | x | | Highest field screening result (PID-327 ppm) below water table. Greatest visual impact (NAPL). |
| | 42 - 44 | 6/18/2001 | 1550 | SB-12 (42-44) | Soil | x | x | x | x | x | | High field screening result (PID-185 ppm) below water table. Visual impact (NAPL). |
| | 48 - 52 | 6/18/2001 | 1540 | SB-12 (48-52) | Soil | x | x | x | x | x | | Bottom of boring. |
| SB-13 | 3 - 4 | 6/4/2001 | 1210 | SB-13 (3-4) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 13 -14 | 6/4/2001 | 1215 | SB-13 (13-14) | Soil | x | x | x | x | x | | High field screening result (PID-270 ppm) below water table. Visual impact (NAPL). |
| | 31 - 32 | 6/4/2001 | 1220 | SB-13 (31-32) | Soil | x | x | x | x | x | | Highest field screening result (PID-362 ppm) below water table. Greatest visual impact (NAPL). |
| | 34 - 35 | 6/4/2001 | 1225 | SB-13 (34-35) | Soil | x | x | x | x | x | | Bottom of boring. |
| SB-14 | 2.5-4 | 8/16/2000 | 1056 | SB-14 (2.5-4) | Soil | x | x | x | x | x | | Sample from the test pit. |
| | 10.5-11.8 | 8/16/2000 | 1340 | SB-14 (10.5-11.5) | Soil | x | x | x | x | x | x | Sample from below water table. Narrow interval with highest field screening result and visual evidence of impact. |
| | 16-18 | 8/16/2000 | 1344 | SB-14 (16-18) | Soil | x | x | x | x | x | | Sample collected from bottom of borehole (refusal @ 18'). |

**TABLE 2-2**
**SOIL SAMPLE SUMMARY**
**WHITE PLAINS FORMER MGP SITE**

| Location | Interval (feet BG) | Date | Time | Field Sample ID | Matrix (Soil or Water) | VOCs | SVOCs | PCBs | Cyanide | TAL Metals | Fingerprint | Basis for Sample Collection |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SB-15 | 2 - 4 | 4/24/2001 | 825 | SB-15 (2-4) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 10 - 11 | 4/23/2001 | 1040 | SB-15 (10-11) | Soil | x | x | x | x | x | | Sample immediately below water table. Staining. |
| | 21.5 - 22 | 4/23/2001 | 1045 | SB-15 (21.5-22) | Soil | x | x | x | x | x | | Highest field screening result (PID-13 ppm) below water table. Bottom of boring. |
| SB-16 | 2 - 4 | 4/24/2001 | 810 | SB-16 (2-4) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 9.5 - 10 | 4/23/2001 | 900 | SB-16 (9.5-10) | Soil | x | x | x | x | x | | Highest field screening result (PID-2.6 ppm) above water table. Staining. Bottom of boring. |
| SB-17 | 2 - 4 | 8/8/2000 | 1135 | SB-17 (2-4') | Soil | x | x | x | x | x | | Sample from the test pit. |
| | 26 - 28 | 8/10/2000 | 1000 | SB-17 (26-28') | Soil | x | x | x | x | x | x | Sample immediately below water table. Evidence of hydrocarbon impact. |
| | 40 - 44 | 8/10/2000 | 1230 | SB-17 (40-44') | Soil | x | x | x | x | x | | Sample with lowest PID reading between impacted zones. |
| | 54.5 - 55 | 8/10/2000 | 1330 | SB-17 (54.5-55') | Soil | x | x | x | x | x | x | Sample collected from just above silt layer. Heavy evidence of hydrocarbon impact. Highest PID reading. |
| | 55 - 56 | 8/10/2000 | 1345 | SB-17 (55-56') | Soil | x | x | x | x | x | | Sample below most impacted zone (Silt). Low PID, no staining or odor. |
| SB-18 | 2 - 4 | 8/8/2000 | 1045 | SB-18 (2-4') | Soil | x | x | x | x | x | | Sample from the test pit. |
| | 26 - 28 | 8/11/2000 | 1000 | SB-18 (26-28') | Soil | x | x | x | x | x | x | Sample immediately below water table. Evidence of hydrocarbon impact. |
| | 59 - 60 | 8/11/2000 | 1200 | SB-18 (59-60') | Soil | x | x | x | x | x | | Sample collected from bottom of borehole. No evidence of hydrocarbon impact. PID reading 0.0ppm. |
| SB-19 | 2-3 | 6/21/2001 | | SB-19 (TP WS) (2-3) | Soil | x | x | x | x | x | | Sample from the test pit. |
| | 5 - 6 | 6/21/2001 | 1315 | SB-19 (5-6) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 12 - 14 | 6/21/2001 | 1317 | SB-19 (12-14) | Soil | x | x | x | x | x | | Sample immediately below water table. |
| | 48 - 52 | 6/21/2001 | 1320 | SB-19 (48-52) | Soil | x | x | x | x | x | | Bottom of boring. |
| SB-20 | 3 - 4 | 4/19/2001 | 1330 | SB-20 (3-4) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 11 -12 | 4/24/2001 | 1107 | SB-20 (11-12) | Soil | x | x | x | x | x | | Sample immediately below water table. |
| | 30 -31.5 | 4/24/2001 | 1105 | SB-20 (30-31.5) | Soil | x | x | x | x | x | | Bottom of boring. |
| SB-21 | 3 - 4 | 4/19/2001 | 1340 | SB-21 (3-4) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 10 - 11 | 4/24/2001 | 1320 | SB-21 (10-11) | Soil | x | x | x | x | x | | Sample immediately below water table. MS/MSD and duplicate samples. |
| | 34 - 35 | 4/24/2001 | 1330 | SB-21 (34-35) | Soil | x | x | x | x | x | | Bottom of boring. |
| SB-22 | 3 - 4 | 4/19/2001 | 1355 | SB-22 (3-4) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 10 - 11 | 4/23/2001 | 1250 | SB-22 (11-12) | Soil | x | x | x | x | x | | Sample immediately below water table. |
| | 34 - 35 | 4/23/2001 | 1255 | SB-22 (34-35) | Soil | x | x | x | x | x | | Bottom of boring. |
| SB-23 | 3 - 4 | 4/20/2001 | 1245 | SB-23 (3-4) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 23 - 24 | 4/20/2001 | 1255 | SB-23 (23-24) | Soil | x | x | x | x | x | | Sample immediately above water table. |
| | 37 - 38 | 4/20/2001 | 1315 | SB-23 (37-38) | Soil | x | x | x | x | x | | Highest field screening result (PID-20 ppm) below water table. |
| | 47 - 48 | 4/20/2001 | 1325 | SB-23 (47-48) | Soil | x | x | x | x | x | | Close to bottom of boring. Sample collected in duplicate. |
| SB-24 | 2 - 3 | 4/19/2001 | 1230 | SB-24 (2-3) | Soil | x | x | x | x | x | | Shallow sample close to surface. MS/MSD sample. |
| | 21 - 22 | 4/19/2001 | 1235 | SB-24 (21-22) | Soil | x | x | x | x | x | | Sample immediately above water table. |
| | 36 - 38 | 4/19/2001 | 1240 | SB-24 (36-38) | Soil | x | x | x | x | x | x | Highest field screening result (PID-590 ppm) below water table. Greatest visible impact (NAPL). |
| | 51 - 52 | 4/19/2001 | 1245 | SB-24 (51-52) | Soil | x | x | x | x | x | | Available sample closest to bottom of boring. |
| SB-25 | 3 - 4 | 4/20/2001 | 950 | SB-25 (3-4) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 21 -22 | 4/20/2001 | 955 | SB-25 (21-22) | Soil | x | x | x | x | x | | Sample immediately above water table. |
| | 22.5 - 23.5 | 4/20/2001 | 1010 | SB-25 (22.5-23.5) | Soil | x | x | x | x | x | | Sample immediately below water table. |
| | 43 - 44 | 4/20/2001 | 1020 | SB-25 (43-44) | Soil | x | x | x | x | x | | Available sample closest to bottom of boring. |
| SB-26 | 5 - 7 | 6/22/2001 | 1150 | SB-26 (5-7) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 10 - 12 | 6/22/2001 | 1152 | SB-26 (10-12) | Soil | x | x | x | x | x | | Sample immediately below water table. |
| | 28 - 32 | 6/22/2001 | 1155 | SB-26 (28-32) | Soil | x | x | x | x | x | | Bottom of boring. |
| SB-27 | 2-3 | 6/21/2001 | 11:23 | SB-27 (2-3') | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 9-10.5 | 6/22/2001 | 1145 | SB-MW-27(9-9.5) | Soil | x | x | x | x | x | x | Sample immediately above water table. No evidence of hydrocarbon impact. |
| | 11-12 | 6/22/2001 | 1155 | SB-MW-27(11-12) | Soil | x | x | x | x | x | x | Sample immediately below water table. No evidence of hydrocarbon impact. |
| | 30-31.5 | 6/22/2001 | 1205 | SB-MW-27(30-31.5) | Soil | x | x | x | x | x | x | Sample at bottom of water table below water table. |
| SB-28 | 2 - 4 | 5/24/2001 | 1620 | SB-28 (2-4) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 10 - 11 | 5/24/2001 | 1635 | SB-28 (10-11) | Soil | x | x | x | x | x | | Highest field screening result (PID-4.5 ppm) above water table. |
| | 27 - 28 | 5/24/2001 | 1640 | SB-28 (27-28) | Soil | x | x | x | x | x | | Sample immediately above water table. |
| | 50 - 52 | 5/24/2001 | 1705 | SB-28 (50-52) | Soil | x | x | x | x | x | | Sample below water table. MS/MSD sample. |
| | 68 -75 | 5/24/2001 | 1645 | SB-28 (68-75) | Soil | x | x | x | x | x | | Bottom of boring. |
| | 75 -77 | 5/24/2001 | 1715 | SB-28 (75-77) | Soil | x | x | x | x | x | | Duplicate sample. |

**TABLE 2-2**
**SOIL SAMPLE SUMMARY**
**WHITE PLAINS FORMER MGP SITE**

| Location | Interval (feet BG) | Date | Time | Field Sample ID | Matrix (Soil or Water) | VOCs | SVOCs | PCBs | Cyanide | TAL Metals | Fingerprint | Basis for Sample Collection |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SB-29 | 3 - 4 | 6/26/2001 | 1950 | SB-29 (3-4) | Soil | x | x | x | x | x | | Shallow sample close to surface. MS/MSD sample. |
| | 28 - 30 | 6/26/2001 | 2000 | SB-29 (28-30) | Soil | x | x | x | x | x | | Sample immediately below water table. |
| | 38 - 40 | 6/26/2001 | 2000 | SB-29 (38-40) | Soil | x | x | x | x | x | | Duplicate sample. |
| | 56 - 58 | 6/26/2001 | 2003 | SB-29 (56-58) | Soil | x | x | x | x | x | | Highest field screening result (PID-11.8 ppm) below water table. |
| | 68 - 72 | 6/26/2001 | 2010 | SB-29 (68-72) | Soil | x | x | x | x | x | | Bottom of boring. |
| SB-30 | 14 - 16 | 6/20/2001 | 1710 | SB-30 (14-16) | Soil | x | x | x | x | x | | Sample above water table. |
| | 20 - 22 | 6/20/2001 | 1712 | SB-30 (20-22) | Soil | x | x | x | x | x | | Duplicate sample. |
| | 26 - 28 | 6/20/2001 | 1720 | SB-30 (26-28) | Soil | x | x | x | x | x | | Sample at soil/water interface. MS/MSD sample. |
| | 68 - 72 | 6/20/2001 | 1735 | SB-30 (68-72) | Soil | x | x | x | x | x | | Highest field screening result (PID-17.1 ppm) below water table. Bottom of boring. |
| SB-31 | 4 - 5 | 5/31/2001 | 1255 | SB-31 (4-5) | Soil | x | x | x | x | x | | Shallow sample close to surface. |
| | 7 - 8 | 5/31/2001 | 1257 | SB-31 (7-8) | Soil | x | x | x | x | x | | Highest field screening result (PID-633 ppm) above water table. |
| | 11 - 12 | 5/31/2001 | 1300 | SB-31 (11-12) | Soil | x | x | x | x | x | | Highest field screening result (PID-499 ppm) below water table. Sample immediately below water table. |
| | 40 - 42 | 5/31/2001 | 1303 | SB-31 (40-42) | Soil | x | x | x | x | x | | Bottom of boring. |
| TB-1 | 21.5-24 | 3/17/1999 | 1215 | TB-1 (21.5-24) | Soil | x | x | x | x | x | | Sample with highest field screening result (180 ppm) above water table. |
| | 28-30 | 3/17/2000 | 1230 | TB-1 (28-30) | Soil | x | x | x | x | x | x | Sample below water table with sheen and high field screening result (29 ppm) |
| | 36-39 | 3/17/2000 | 1300 | TB-1 (36-39) | Soil | x | x | x | x | x | x | Sample below water table at bottom of borehole. Sample indicated tar-like material and highest field screening result (56 ppm). |
| TB-2 | 4 | 3/9/2000 | 800 | TB-2 (4) | Soil | x | x | x | x | x | | Sample collected above water table (during test pit activities) with highest field screening result (19 ppm). |
| | 17.5-18 | 3/17/2000 | 1400 | TB-2 (17.5) | Soil | | | | | | x | Sample collected (tar-like material) at bottom of borehole (below water table). Sufficient sample volume only for fingerprint analysis. |
| TB-2A | 10-10.5 | 4/11/2000 | 1310 | TB-2A | Soil | x | x | x | x | x | | Sample collected with hand auger adjacent to TB-2 borehole location to collect supplemental soil sample below water table. |
| TB-3 | 11-12 | 3/22/2000 | | TB-3 (11-12) | Soil | x | x | x | x | x | | No evidence of hydrocarbon impact in SB. Sample collected at bottom of borehole. |
| TB-4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Not completed. |
| TB-5 | 7-8 | 3/16/2000 | 1445 | TB-5 (7-8) | Soil | x | x | x | x | x | | First available sample in borehole below fill from test pit activities (sample is from below water table). Staining with tar-like material is evident. |
| | 10.5-11.5 | 3/16/2000 | 1415 | TB-5 (10.5-11.5) | Soil | x | x | x | x | x | x | Sample below water table with highest field screening result (PID-190 ppm). |
| | 16-17.5 | 3/16/2000 | 1430 | TB-5 (16-17.5) | Soil | x | x | x | x | x | | Sample at bottom of borehole. |
| MW-1 | 26-27.5 | 3/21/2000 | 1115 | MW-1 (26-27.5) | Soil | x | x | x | x | x | | Sample immediately above water table. No evidence of hydrocarbon impact. |
| | 32-34 | 3/21/2000 | 1145 | MW-1 (32-34) | Soil | x | x | x | x | x | | Sample collected towards bottom of borehole (below water table) prior to change in lithology. |
| MW-2 | 7-10 | 3/15/2000 | 1200 | MW-2 (7-10) | Soil | x | x | x | x | x | | No evidence of hydrocarbon impact. Sample collected immediately above water table. |
| | 24-25 | 3/15/2000 | 1215 | MW-2 (24-25) | Soil | x | x | x | x | x | | Sample collected towards bottom of borehole (below water table) prior to change in lithology. |
| | 27-30 | 3/15/2000 | 1230 | MW-2 (27-30) | Soil | x | x | x | x | x | | Sample collected at bottom of borehole (below water table). |
| MW-3 | 20-22 | 3/21/2000 | 0930 | MW-3 (20-22) | Soil | x | x | x | x | x | | Sample immediately above water table. No evidence of hydrocarbon impact. |
| | 27-29 | 3/21/2000 | 1000 | MW-3 (27-29) | Soil | x | x | x | x | x | | Sample collected towards bottom of borehole (below water table) prior to change in lithology. |
| MW-4 | 10-12.5 | 3/14/2000 | 1300 | MW-4 (12) | Soil | | | x | x | x | | Sample above 12.5 interval collected for PCBs, CN & metals (above water table). |
| | 12.5-12.8 | 3/14/2000 | 1200 | MW-4 (12.5) | Soil | x | x | | | | | Narrow interval with highest field screening result (PID-50 ppm). Sufficient sample volume only for VOCs & SVOCs. |
| | 34-36 | 3/14/2000 | 1400 | MW-4 (34-36) | Soil | x | x | x | x | x | | Sample below the water table near the bottom of the boring. |
| MW-5 | 7-10 | 3/15/2000 | 0830 | MW-5 (7-10) | Soil | x | x | x | x | x | x | Sample collected at interval with highest visual contamination (below water table). Sample above water table not collected (fill from test pit activities) |
| MW-6 | 2-4 | 8/16/2000 | 1510 | MW-6 (2-4) | Soil | x | x | | x | x | x | Shallow sample collected from test pit |
| | 7.5-8.5 | 8/16/2000 | 1520 | MW-6 (7.5-8.5) | Soil | x | x | | x | x | x | Sample collected directly above the water table. |
| | 7.5-8.5 | 8/31/2000 | 0830 | MW-6 (7.5-8.5)Dup | Soil | x | x | x | x | x | x | Duplicate sample. |
| | 8.5-9.5 | 8/31/2000 | 0830 | MW-6 (8.5-9.5) | Soil | x | x | x | x | x | x | MS/MSD sample. |
| | 30-33 | 8/16/2000 | 1530 | MW-6 (30-33) | Soil | x | x | | x | x | | Sample collected at bottom of borehole (below water table). |
| MW-7 | -- | 6/22/2001 | -- | -- | -- | | | | | | | See SB-27 for sampling Information. |
| MW-8 | 2-4 | 8/16/2000 | | MW-8 (2-4) | Soil | x | x | x | x | x | | Shallow sample collected from test pit |
| | 22.3-23 | 8/30/2000 | 1220 | MW-8 (22.3-23) | Soil | x | x | x | x | x | | Sample immediately above water table. No evidence of hydrocarbon impact. |
| | 27-27.5 | 8/30/2000 | 1232 | MW-8 (27-27.5) | Soil | x | x | x | x | x | | Sample immediately below water table. No evidence of hydrocarbon impact. |
| | 36.5-37 | 8/30/2000 | 1535 | MW-8 (36.5-37) | Soil | | | | | | x | Narrow interval with high field screening result and visual evidence of impact. Sample for fingerprint analysis only. |
| | 37.5-38 | 8/30/2000 | 1315 | MW-8 (37.5-38) | Soil | x | x | x | x | x | | Narrow interval with highest field screening result (PID-425 ppm). |
| | 47.5-48 | 8/30/2000 | 1455 | MW-8 (47.5-48) | Soil | x | x | x | x | x | | Sample at bottom of water table below water table. |
| TW-1 | 25-27 | 3/13/2000 | 1400 | TW-1 (25-27) | Soil | x | x | x | x | x | | Highest field screening result (PID-124 ppm) above water table |

**TABLE 2-2**
**SOIL SAMPLE SUMMARY**
**WHITE PLAINS FORMER MGP SITE**

| Location | Interval (feet BG) | Date | Time | Field Sample ID | Matrix (Soil or Water) | VOCs | SVOCs | PCBs | Cyanide | TAL Metals | Fingerprint | Basis for Sample Collection |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 30-32 | 3/13/2000 | 1400 | TW-1 (30-32) | Soil | x | x | x | x | x | | Highest field screening result (PID-39 ppm) below water table |

**TABLE 2-2**
**SOIL SAMPLE SUMMARY**
**WHITE PLAINS FORMER MGP SITE**

| Location | Interval (feet BG) | Date | Time | Field Sample ID | Matrix (Soil or Water) | VOCs | SVOCs | PCBs | Cyanide | TAL Metals | Fingerprint | Basis for Sample Collection |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 24-34 | 4/6/2000 | | MW-1 | Gwater | x | x | x | x | x | | |
| MW-1 | 24-34 | 8/8/2001 | | MW-1 | Gwater | x | x | x | x | x | | |
| MW-2 | 7-17 | 4/6/2000 | | MW-2 | Gwater | x | x | x | x | x | | |
| MW-2 | 7-17 | 8/8/2001 | | MW-2 | Gwater | x | x | x | x | x | | |
| MW-3 | 20-30 | 4/6/2000 | | MW-3 | Gwater | x | x | x | x | x | | |
| MW-3 | 20-30 | 4/6/2000 | | MW-3 dup | Gwater | x | x | x | x | x | | |
| MW-3 | 20-30 | 8/8/2001 | | MW-3 | Gwater | x | x | x | x | x | | |
| MW-4 | 13-23 | 4/6/2000 | | MW-4 | Gwater | x | x | x | x | x | | |
| MW-4 | 13-23 | 8/9/2001 | | MW-4 | Gwater | x | x | x | x | x | | |
| MW-5 | 4-11 | 4/6/2000 | | MW-5 | Gwater | x | x | x | x | x | | |
| MW-5 | 4-11 | 8/9/2001 | | MW-5 | Gwater | x | x | x | x | x | | |
| MW-6 | 5-15 | 7/26/2001 | | MW-6 | Gwater | x | x | x | x | x | | |
| MW-7 | 7-17 | 7/26/2001 | | MW-7 | Gwater | x | x | x | x | x | | |
| MW-8 | 20-40 | 7/27/2001 | | MW-8 | Gwater | x | x | x | x | x | | |
| MW-8 | 20-40 | 7/27/2001 | | MW-8 dup | Gwater | x | x | x | x | x | | |
| TW-1 | 25-35 | 3/14/2000 | | TW-1 | Gwater | x | x | x | x | x | | Temporary well groundwater sample |
| SB-30 | 24 -34 | 6/22/2001 | 943 | TW-30A | Water | x | x | x | x | x | | Sample of groundwater from the water table |
| SB-30 | 68 - 72 | 6/22/2001 | 1300 | TW-30B | Water | x | x | x | x | x | | Sample of groundwater from above the bedrock (in apparent impacted groundwater). |
| SG-X1A | 5 | 5/28/2002 | | SG-X1A | Soil Gas | x | | | | | | |
| SG-X1B | 5 | 5/28/2002 | | SG-X1B | Soil Gas | x | | | | | | |
| SG-X2A | 11 | 5/28/2002 | | SG-X2A | Soil Gas | x | | | | | | |
| SG-X2B | 8 | 5/28/2002 | | SG-X2B | Soil Gas | x | | | | | | |
| SG-3 | 5 | 5/28/2002 | | SG-3 | Soil Gas | x | | | | | | |
| SG-Basement-1 | 2 | 6/4/2002 | | SG-Basement-1 | Soil Gas | x | | | | | | |
| | | | | | | | | | | | | |

**Notes:**

SB = soil borehole
TB = test boring
ppm = parts per million
PID = photoionization detector (calibrated each day to 100 ppm isobutylene standard gas)
BG = below grade

**Table 2-3**
**Summary of QA/QC Samples**

| Type of QA/QC | Sample ID |
|---|---|
| **Soil** | |
| Blind duplicate | SB-3 (28'-29') |
| Blind duplicate | SB-21 (10'-11') |
| Blind duplicate | SB-23 (47'-48') |
| Blind Duplicate | MW-6 (8.5'-9.5') |
| Field Blank | FB (8/30/00) |
| Field Blank | FB (4/24/01) |
| Field Blank | FB (6/1/01) |
| Field Blank | FB (6/4/01) |
| Field Blank | FB (6/20/01) |
| Field Blank | FB (6/26/01) |
| Trip Blank | FB (8/30/00) |
| Trip Blank | FB (8/31/00) |
| Trip Blank | FB (4/24/01) |
| Trip Blank | FB (6/4/01) |
| MS/MSD | SB-11 (2'-4') |
| MS/MSD | SB-21 (10'-11') |
| MS/MSD | SB-24 (2'-3') |
| MS/MSD | SB-28 (50'-52') |
| MS/MSD | SB-29 (3'-4') |
| MS/MSD | SB-30 (26'-28') |
| MS/MSD | MW-6 (8.5'-9.5') |

**Table 2-3 (cont)**
**Summary of QA/QC Samples**

| Type of QA/QC | Sample ID |
|---|---|
| **Groundwater** | |
| Blind duplicate | MW-3 (4/6/00) |
| Blind duplicate | MW-8 (7/27/01) |
| Field Blank | TB (7/27/01) |
| Trip Blank | TB (4/6/00) |
| Trip Blank | TB (6/22/01) |
| Trip Blank | TB (7/27/01) |
| Trip Blank | TB (8/9/01) |
| MS/MSD | MW-1 (4/6/00) |
| MS/MSD | MW-1 (8/8/01) |
| MS/MSD | MW-8 (7/27/01) |

**TABLE 3-1**
**SUMMARY OF WATER LEVEL AND**
**NAPL GAUGING DATA**
**WHITE PLAINS FORMER MGP SITE**

| Location | Elevation TOC (ft MSL) | DTW 3/22/2000 (feet TOC) | NAPL Thickness (feet) | GW Elevation (ft MSL) | DTW 4/6/00 (ft TOC) | NAPL Thickness (feet) | GW Elevation (ft MSL) | DTW 4/26/00 (ft TOC) | NAPL Thickness (feet) | GW Elevation (ft MSL) |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 206.35 | 27.71 | 0 | 178.64 | 27.74 | 0 | 178.61 | NM | NM | NM |
| MW-2 | 190.54 | 11.24 | 0 | 179.30 | 11.26 | 0 | 179.28 | NM | NM | NM |
| MW-3 | 201.58 | 22.6 | 0 | 178.98 | 22.56 | 0 | 179.02 | NM | NM | NM |
| MW-4 | 194.92 | 15.61 | 0 | 179.31 | 15.64 | 0 | 179.28 | NM | NM | NM |
| MW-5 | 189.12 | 6.81 | 0 | 182.31 | 7.13 | 0 | 181.99 | NM | NM | NM |
| MW-6 | 187.82 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | 189.51 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-8 | 202.08 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| SB-1 | 189.10 | NM | NM | NM | 8.56 | Globules | 180.54 | NM | NM | NM |
| TW-30 [(2)] | 206.78 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| TW-1 | 203.88 | -- | -- | -- | 27 | Sheen | 176.88 | -- | -- | -- |
| TB-1 | 201.48 | NM | NM | NM | 22.48 | NM | 179.00 | NM | NM | NM |
| TB-2A | 201.74 | NM | NM | NM | NM | NM | NM | 10.40 | 0 | 191.34 |
| TB-5 | 189.50 | NM | NM | NM | 6.79 | Globules | 182.71 | NM | NM | NM |

**TABLE 3-1**
**SUMMARY OF WATER LEVEL AND**
**NAPL GAUGING DATA**
**WHITE PLAINS FORMER MGP SITE**

| Location | Elevation TOC (ft MSL) | DTW 12/1/00 (ft TOC) | NAPL Thickness (feet) | GW Elevation (ft MSL) | DTW 7/16/01 (ft TOC) | NAPL Thickness (feet) | GW Elevation (ft MSL) | DTW 7/26/01 (ft TOC) | NAPL Thickness (feet) | GW Elevation (ft MSL) |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 206.35 | 28.37 | 0 | 177.98 | NM | NM | NM | 27.80 | 0 | 178.55 |
| MW-2 | 190.54 | 11.82 | 0 | 178.72 | NM | NM | NM | 10.39 | 0 | 180.15 |
| MW-3 | 201.58 | 23.11 | 0 | 178.47 | NM | NM | NM | 22.44 | 0 | 179.14 |
| MW-4 | 194.92 | 16.17 | 0 | 178.75 | NM | NM | NM | 15.57 | 0 | 179.35 |
| MW-5 | 189.12 | 7.89 | 0.01 | 181.23 | NM | NM | NM | 5.22 | 0 | 183.90 |
| MW-6 | 187.82 | 9.41 | 0 | 178.41 | NM | NM | NM | 8.75 | 0 | 179.07 |
| MW-7 | 189.51 | NA | NA | NA | 8.53 | 0 | 180.98 | 8.31 | 0 | 181.20 |
| MW-8 | 202.08 | 23.65 | 0 | 178.43 | NM | NM | NM | 23.10 | 0 | 178.98 |
| SB-1 | 189.10 | 8.61 | 0.03 | 180.49 | NM | NM | NM | 9.00 | 0 | 180.10 |
| TW-30 [(2)] | 206.78 | NA | NA | NA | NM | NM | NM | 26.39 | 0 | 175.69 |
| TW-1 | 203.88 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TB-1 | 201.48 | 23.1 | 0.18 | 178.38 | NM | NM | NM | 22.28 | Globules | 179.20 |
| TB-2A | 201.74 | 11.96 | 0.01 | 189.78 | NM | NM | NM | 11.25 | Globules | 190.49 |
| TB-5 | 189.50 | 8.6 | 0.08 | 180.90 | NM | NM | NM | 7.38 | 0 | 182.12 |

**TABLE 3-1**
**SUMMARY OF WATER LEVEL AND**
**NAPL GAUGING DATA**
**WHITE PLAINS FORMER MGP SITE**

| Location | Elevation TOC (ft MSL) | DTW 8/1/01 (ft TOC) | NAPL Thickness (feet) | GW Elevation (ft MSL) | DTW 8/3/01 (ft TOC) | NAPL Thickness (feet) | GW Elevation (ft MSL) | DTW 8/8/01 (ft TOC) | NAPL Thickness (feet) | GW Elevation (ft MSL) |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 206.35 | 27.85 | 0 | 178.50 | NM | NM | NM | 27.88 | 0 | 178.47 |
| MW-2 | 190.54 | NM | 0 | NM | 11.24 | 0 | 179.3 | 10.82 | 0 | 179.72 |
| MW-3 | 201.58 | 22.60 | 0 | 178.98 | NM | NM | NM | 22.55 | 0 | 179.03 |
| MW-4 | 194.92 | 15.65 | 0 | 179.27 | NM | NM | NM | 16.66 | 0 | 178.26 |
| MW-5 | 189.12 | NM | NM | NM | 7.19 | 0 | 181.93 | 7.23 | 0 | 181.89 |
| MW-6 | 187.82 | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| MW-7 | 189.51 | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| MW-8 | 202.08 | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| SB-1 | 189.10 | NM | NM | NM | 10.40 | Sheen | 178.70 | 10.47 | 0 | 178.63 |
| TW-30 [(2)] | 206.78 | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| TW-1 | 203.88 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TB-1 | 201.48 | NM | NM | NM | dry | Globules | dry | 22.47 | Globules | 179.01 |
| TB-2A | 201.74 | NM | NM | NM | NM | Globules | NM | 12.00 | Globules | 189.74 |
| TB-5 | 189.50 | NM | NM | NM | 15.89 | Sheen | 173.61 | 8.66 | 0 | 180.84 |

**TABLE 3-1**
**SUMMARY OF WATER LEVEL AND**
**NAPL GAUGING DATA**
**WHITE PLAINS FORMER MGP SITE**

| Location | Elevation TOC (ft MSL) | DTW 8/11/01 (ft TOC) | NAPL Thickness (feet) | GW Elevation (ft MSL) |
|---|---|---|---|---|
| MW-1 | 206.35 | 27.91 | 0 | 178.44 |
| MW-2 | 190.54 | NM | NM | NM |
| MW-3 | 201.58 | NM | NM | NM |
| MW-4 | 194.92 | NM | NM | NM |
| MW-5 | 189.12 | NM | NM | NM |
| MW-6 | 187.82 | NM | NM | NM |
| MW-7 | 189.51 | NM | NM | NM |
| MW-8 | 202.08 | NM | NM | NM |
| SB-1 | 189.10 | NM | NM | NM |
| TW-30 (2) | 206.78 | NM | NM | NM |
| TW-1 | 203.88 | -- | -- | -- |
| TB-1 | 201.48 | NM | NM | NM |
| TB-2A | 201.74 | NM | NM | NM |
| TB-5 | 189.50 | NM | NM | NM |

**Notes:**

1 = Elevations tied to on-site datum of 204.65 ft above mean sea level (AMSL), which is permanently marked on the substation.
2 = Water elevation for temporary well TW-30 was measured on June 22, 2001 prior to sampling and prior to removal of the temporary well.
TOC = Measured from top of casing
NM = Not measured
NA = Not available - well not installed at the time of gauging activities
NAPL = non-aqueous phase liquid
DTW = Depth to water

**TABLE 4-1**
**SUMMARY OF HYDROCARBON FINGERPRINT RESULTS**

| Sample Number | Total MAHs (mg/kg) | Total PAHs (mg/kg) | Comments |
|---|---|---|---|
| **Soils** | | | |
| MW-5 (7'-10') | 13.5 | 515 | MGP Tar, intermediate weathering |
| SB-1 (8'-10') | 16.2 | 990 | MGP Tar, least weathered |
| TB-5 (10.5'-11.5') | 6.83 | 206 | MGP Tar, intermediate weathering |
| TB-1 (28'-30') | 0.28 | 17.2 | MGP Tar, most weathered |
| TB-1 (36'-39') | 95.1 | 9,650 | MGP Tar, most weathered |
| TB-2 (17.5') | 14,800 | 114,000 | MGP Tar, intermediate weathering |
| SB-7 (17'-17.4') | 35 | 474 | MGP Tar, less weathered |
| SB-14 (10.5'-11.5') | 4.04 | 323 | MGP Tar, weathered |
| MW-6 (7.5'-8.5') | 4.08 | 587 | MGP Tar and mid-weight petroleum distillate, weathered |
| SB-2 (8'-10') | 3.54 | 168 | MGP Tar and mid-weight petroleum distillate, weathered |
| SB-2 (15'-16.5') | 4.45 | 244 | MGP Tar, weathered |
| SB-NYSDEC (1) 26'-28' | 98.6 | 1,560 | MGP Tar and mid-weight petroleum distillate, weathered |
| SB-NYSDEC (2) 26'-28' | 1.67 | 76.1 | Different pyrogenic source, highly weathered |
| 08387-001 | 43.8 | 12,300 | MGP Tar |
| 08463-001 | 2.37 | 14.9 | MGP Tar and pyrogenic substance |
| 08463-002 | 2.07 | 3.52 | MGP Tar and pyrogenic substance |

**TABLE 4-1 (cont)**
**SUMMARY OF HYDROCARBON FINGERPRINT RESULTS**

| Sample Number | Total MAHs (mg/kg) | Total PAHs (mg/kg) | Comments |
|---|---|---|---|
| **Aqueous** | | | |
| TB-1 | 866 | 9,410 | Carbureted water gas tar |
| TB-5 | 570 | 8,090 | Carbureted water gas tar |
| SB-1 | 931 | 14,500 | Carbureted water gas tar |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-02567-001 | | 00-02567-002 | | 00-02567-003 | | 00-02254-001 | | 00-02750-001 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | TB-1 | | TB-1 | | TB-1 | | TB-2 | | TB-3 | |
| | Depth: | Objectives / | | 21.5'-24' | | 28'-30' | | 36'-39' | | 4' | | 11'-12' | |
| | Laboratory ID: | Eastern USA | | J4469-1 | | J4469-2 | | J4469-3 | | 0800 | | J4480-1 | |
| | Sampling Date: | Background | | 3/17/00 | | 3/17/00 | | 3/17/00 | | 3/9/00 | | 3/22/00 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 42.7 | U | 45.4 | U | 44.6 | U | 40 | U | 42.7 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 182 | U | 193 | U | 190 | U | 40 | U | 182 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 96.4 | U | 102 | U | 101 | U | 40 | U | 96.4 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 40.3 | U | 42.8 | U | 42.1 | U | 40 | U | 40.3 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 91.4 | U | 97.1 | U | 95.5 | U | 40 | U | 91.4 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 21.2 | U | 22.6 | U | 22.2 | U | 40 | U | 21.2 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 60.6 | U | 64.3 | U | 63.2 | U | 40 | U | 60.6 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 537 | U | 57.0 | U | 563 | U | 5 | U | 0.88 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 523 | U | 55.5 | U | 548 | U | 5 | U | 0.89 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 580 | U | 61.5 | U | 607 | U | 5 | U | 1.06 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 354 | U | 37.5 | U | 370 | U | 5 | U | 0.94 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 424 | U | 45.0 | U | 444 | U | 5 | U | 1.10 | U |
| 67-64-1 | Acetone | 200 | µg/kg | 1840 | U | 195 | U | 1930 | U | 63 | | 2.62 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 297 | U | 31.5 | U | 311 | U | NR | | 0.81 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 679 | U | 72.0 | U | 711 | U | 5 | U | 0.75 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 255 | U | 27.0 | U | 267 | U | 5 | U | 0.67 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 396 | U | 42.0 | U | 415 | U | 5 | U | 0.38 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 481 | U | 51.0 | U | 504 | U | 5 | U | 0.81 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 368 | U | 39.0 | U | 385 | U | 5 | U | 0.76 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 269 | U | 28.5 | U | 281 | U | 5 | U | 0.52 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 1160 | U | 123 | U | 1210 | U | 50 | U | 1.05 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 438 | U | 46.5 | U | 459 | U | 5 | U | 0.80 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 481 | U | 51.0 | U | 504 | U | 5 | U | 0.85 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 368 | U | 39.0 | U | 385 | U | 5 | U | 0.75 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 170 | U | 18.0 | U | 178 | U | 5 | U | 0.72 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 269 | U | 28.5 | U | 281 | U | 5 | U | 0.71 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 382 | U | 40.5 | U | 400 | U | 5 | U | 0.85 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 255 | U | 27.0 | U | 267 | U | 5 | U | 0.62 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 523 | U | 55.5 | U | 548 | U | 5 | U | 0.66 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 198 | U | 21.0 | U | 207 | U | 5 | U | 0.15 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 226 | U | 24.0 | U | 237 | U | 5 | U | 0.63 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 283 | U | 30.0 | U | 296 | U | 5 | U | 0.38 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 636 | U | 67.5 | U | 666 | U | 50 | U | 1.94 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 693 | U | 73.5 | U | 726 | U | NR | | 1.58 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 396 | U | 42.0 | U | 415 | U | 5 | U | 0.71 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 226 | U | 24.0 | U | 237 | U | 5 | U | 0.19 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 198 | U | 21.0 | U | 207 | U | 5 | U | 0.67 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 297 | U | 31.5 | U | 311 | U | 5 | U | 0.31 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | **64800** | | 3570 | | 4490 | | 5 | U | 0.10 | U |
| 100-42-5 | Styrene | NA * | µg/kg | 396 | U | 42.0 | U | 415 | U | 5 | U | 0.81 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | **15100** | | **1950** | | **10900** | | 10 | U | 0.18 | U |
| 95-47-6 | o-xylene | 1200 | µg/kg | **10100** | | 1010 | | **4750** | | 5 | U | 0.14 | U |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **90000** | | **6530** | | **20140** | | **0** | | **0** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 3670 | U | 235 | U | 3790 | U | NR | | 21.3 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 3530 | U | 304 | U | 3650 | U | 300 | U | 26.7 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 3600 | U | 286 | U | 3730 | U | NR | | 22.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 3850 | U | 312 | U | 3980 | U | 300 | U | 26.7 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 3740 | U | 296 | U | 3870 | U | 300 | U | 27.3 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 3780 | U | 334 | U | 3910 | U | 300 | U | 27.6 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 3120 | U | 299 | U | 3230 | U | NR | | 21.9 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 4080 | U | 316 | U | 4220 | U | 300 | U | 15.9 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 3020 | U | 300 | U | 3130 | U | NR | | 17.9 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 3670 | U | 276 | U | 3800 | U | 300 | U | 22.3 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 3870 | U | 266 | U | 4010 | U | 300 | U | 27.7 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 4240 | U | 330 | U | 4390 | U | 300 | U | 30.6 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 3880 | U | 269 | U | 4010 | U | 300 | U | 20.6 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 2950 | U | 251 | U | 3050 | U | NR | | 23.5 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 1780 | U | 234 | U | 1840 | U | NR | | 13.2 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 3560 | U | 308 | U | 3680 | U | 300 | U | 24.2 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 3090 | U | 277 | U | 3190 | U | NR | | 22.6 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 3740 | U | 338 | U | 3870 | U | 300 | U | 25.0 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 3890 | U | 167 | U | 4020 | U | NR | | 27.7 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 3740 | U | 316 | U | 3870 | U | 300 | U | 25.4 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 3020 | U | 325 | U | 3120 | U | NR | | 17.3 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 3130 | U | 140 | U | 3240 | U | 300 | U | 41.3 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-02567-001 | | 00-02567-002 | | 00-02567-003 | | 00-02254-001 | | 00-02750-001 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | TB-1 | | TB-1 | | TB-1 | | TB-2 | | TB-3 | |
| | Depth: | Objectives / | | 21.5'-24' | | 28'-30' | | 36'-39' | | 4' | | 11'-12' | |
| | Laboratory ID: | Eastern USA | | J4469-1 | | J4469-2 | | J4469-3 | | 0800 | | J4480-1 | |
| | Sampling Date: | Background | | 3/17/00 | | 3/17/00 | | 3/17/00 | | 3/9/00 | | 3/22/00 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 2980 | U | 278 | U | 3080 | U | NR | | 27.7 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 2870 | U | 248 | U | 2970 | U | NR | | 25.7 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 3430 | U | 323 | U | 3550 | U | 300 | U | 25.7 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 2700 | U | 243 | U | 2790 | U | NR | | 18.0 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 3290 | U | 323 | U | 3400 | U | 300 | U | 23.0 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 3030 | U | 240 | U | 3140 | U | 300 | U | 19.0 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 2900 | U | 154 | U | 3000 | U | NR | | 16.2 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 3450 | U | 229 | U | 3570 | U | NR | | 22.7 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 2240 | U | 514 | U | 2320 | U | NR | | 30.8 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | **6280** | | 1540 | | **102000** | | NR | | 24.5 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 2880 | U | 219 | U | 2980 | U | 300 | U | 14.1 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 2110 | U | 212 | U | 2180 | U | 300 | U | 18.1 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 3340 | U | 382 | U | 3460 | U | 300 | U | 25.1 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 2530 | U | 178 | U | 2620 | U | NR | | 24.1 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 3190 | U | 301 | U | 3300 | U | NR | | 24.8 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 3010 | U | 316 | U | 3120 | U | 300 | U | 22.2 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 3050 | U | 288 | U | 3150 | U | 300 | U | 23.6 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 3350 | U | 283 | U | 3460 | U | 300 | U | 21.5 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 2270 | U | 192 | U | 2350 | U | NR | | 15.9 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 4770 | J | 674 | | 68000 | | NR | | 75.3 | B |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 7360 | U | 126 | JB | 7620 | U | 300 | U | 73.5 | U |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 2250 | U | 188 | U | 2330 | U | 300 | U | 19.5 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 7290 | U | 326 | U | 7540 | U | 3000 | U | 45.8 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 13000 | U | 327 | JB | 2490 | J | 300 | U | 19.2 | JB |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 2020 | U | 243 | U | 2090 | U | 300 | U | 20.2 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | **116000** | | 34700 | | **292000** | | 300 | U | 25.5 | U |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 13700 | | 4340 | | **69200** | | 300 | U | 22.1 | U |
| 120-12-7 | Anthracene | 50000* | µg/kg | **62000** | | 18200 | | **239000** | | 1700 | | 19.2 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 9660 | | 5400 | | 31300 | | 190 | | 14 | U |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | **75500** | | 24200 | | **351000** | | 1500 | | 16.1 | U |
| 86-73-7 | Fluorene | 50000* | µg/kg | **55600** | | 18700 | | **245000** | | 1400 | | 22.4 | U |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | **157000** | | **38500** | | **263000** | | NR | | 24.8 | U |
| 91-20-3 | Naphthalene | 13000 | µg/kg | **215000** | B | **107000** | | **709000** | B | 300 | U | 26.3 | U |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | **204000** | | **72200** | | **855000** | | 6800 | | 11.7 | J |
| 129-00-0 | Pyrene | 50000* | µg/kg | **102000** | | 30600 | | **376000** | | 2900 | | 16.3 | U |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 1010460 | | 353840 | | 3430500 | | 14490 | | 11.7 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | **40300** | | **12500** | | **184000** | | **1100** | | 13.9 | U |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | **12700** | | **4910** | | **73500** | | 290 | | 18.3 | U |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | **17000** | | **7690** | | **94900** | | 290 | | 16.8 | U |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **27800** | | **11200** | | **130000** | | 420 | | 13.6 | U |
| 218-01-9 | Chrysene | 400 | µg/kg | **34700** | | **11100** | | **155000** | | **1500** | | 17.2 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | **7440** | | **4260** | | **30500** | | 160 | | 13.0 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | **2590** | | **1170** | | **10300** | | 300 | U | 14.0 | U |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 142530 | | 52830 | | 678200 | | 3760 | | 0 | |
| | **Total PAHs** | | | **1152990** | | **406670** | | **4108700** | | **18250** | | **11.7** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 3550 | | 3590 | | 2190 | | 4300 | | 9260 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.51 | J | 0.84 | J | 1.18 | U | 1 | U | 3.93 | |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.68 | U | 0.72 | U | 0.71 | U | 0.63 | | 1.73 | |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 22.5 | | 24.9 | | 17.2 | | 52 | | 36.8 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | **0.32** | | **0.29** | | 0.15 | J | 0.12 | | **0.58** | |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.77 | | **1.09** | | 0.79 | | 0.5 | U | **1.48** | |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 1350 | | 1380 | | 20900 | | 720 | | 961 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 8.77 | | 7.96 | | **10.9** | | 9.4 | | **10.8** | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 4.20 | | 5.06 | | 4.66 | | 3.5 | | 5.24 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 10.3 | | 6.77 | | 8.54 | | 8.4 | | 7.28 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **7230** | | **11300** | | **7670** | | **6900** | | **12300** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 1.76 | | 1.85 | | 0.99 | | 1.5 | | 5.07 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | 3070 | | 2340 | | **11600** | | 3000 | | 2770 | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 67.0 | | 92.5 | | 86.3 | | 98 | | 296 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.0099 | U | 0.0018 | J | 0.0100 | U | 0.010 | | 0.018 | |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 6.68 | | 7.21 | | 7.15 | | 8.7 | | 9.03 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 752 | | 702 | | 549 | | 4100 | | 469 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.56 | U | 0.60 | U | 0.59 | U | 0.4 | U | 0.56 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-02567-001 | | 00-02567-002 | | 00-02567-003 | | 00-02254-001 | | 00-02750-001 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | TB-1 | | TB-1 | | TB-1 | | TB-2 | | TB-3 | |
| | Depth: | Objectives / | | 21.5'-24' | | 28'-30' | | 36'-39' | | 4' | | 11'-12' | |
| | Laboratory ID: | Eastern USA | | J4469-1 | | J4469-2 | | J4469-3 | | 0800 | | J4480-1 | |
| | Sampling Date: | Background | | 3/17/00 | | 3/17/00 | | 3/17/00 | | 3/9/00 | | 3/22/00 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.50 | J | 0.96 | U | 0.94 | U | 0.5 | U | 0.90 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 218 | | 166 | | 619 | | 300 | | 113 | U |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 6.10 | U | 6.48 | U | 6.37 | U | 1 | U | 6.10 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 11.9 | | 11.8 | | 8.30 | | 18 | | 17.4 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | 36.9 | | **27.2** | | 15.8 | | **34** | | **31.3** | |
| 57-12-5 | Cyanide | | mg/kg | 1.59 | | 0.0060 | U | 0.0060 | U | 2 | U | 0.0060 | U |
| | % Solids | | % | 88.4 | | 83.2 | | 84.4 | | NR | | 88.5 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-02524-006 | | 00-02524-004 | | 00-02524-005 | | 00-02524-001 | | 00-02524-002 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | TB-5 | | TB-5 | | TB-5 | | SB-1 | | SB-1 | |
| | Depth: | Objectives / | | 7'-8' | | 10.5'-11.5' | | 16.5'-17.5' | | 6'-8' | | 8'-10' | |
| | Laboratory ID: | Eastern USA | | J4466-6 | | J4466-4 | | J4466-5 | | J4466-1 | | J4466-2 | |
| | Sampling Date: | Background | | 3/16/2000 | | 3/16/2000 | | 3/16/2000 | | 3/16/2000 | | 3/16/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 46.1 | U | 49.9 | U | 40.4 | U | 45 | U | 54.1 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 196 | U | 213 | U | 172 | U | 192 | U | 230 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 104 | U | 113 | U | 91.3 | U | 102 | U | 122 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 43.6 | U | 47.1 | U | 38.2 | U | 42.5 | U | 51.1 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 98.7 | U | 107 | U | 86.6 | U | 96.3 | U | 116 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 22.9 | U | 24.8 | U | 20.1 | U | 22.4 | U | 26.9 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 65.4 | U | 70.8 | U | 57.4 | U | 63.8 | U | 76.6 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 2.08 | U | 62.7 | U | 1.82 | U | 0.4 | U | 68 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 2.39 | U | 61 | U | 2.08 | U | 0.46 | U | 66.2 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 2.08 | U | 67.7 | U | 1.82 | U | 0.4 | U | 73.4 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 1.16 | U | 41.3 | U | 1.01 | U | 0.23 | U | 44.8 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 3.3 | U | 49.5 | U | 2.88 | U | 0.64 | U | 53.7 | U |
| 67-64-1 | Acetone | 200 | µg/kg | **302** | | 214 | U | 147 | | 5.16 | U | 233 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 10.3 | | 34.7 | U | 10.2 | | 0.32 | U | 37.6 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 1.29 | U | 79.2 | U | 1.12 | U | 0.25 | U | 85.9 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.98 | U | 29.7 | U | 0.85 | U | 0.19 | U | 32.2 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 2.51 | U | 46.2 | U | 2.19 | U | 0.49 | U | 50.1 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 3.06 | U | 56.1 | U | 2.67 | U | 0.6 | U | 60.9 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 1.04 | U | 42.9 | U | 0.91 | U | 0.2 | U | 46.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 1.84 | U | 31.4 | U | 1.6 | U | 0.36 | U | 34 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 15.4 | U | 135 | U | 13.4 | U | 2.99 | U | 147 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 1.71 | U | 51.2 | U | 1.5 | U | 0.33 | U | 55.5 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 1.65 | U | 56.1 | U | 1.44 | U | 0.32 | U | 60.9 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 1.53 | U | 42.9 | U | 1.34 | U | 0.3 | U | 46.5 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 1.1 | U | 19.8 | U | 0.96 | U | 0.21 | U | 21.5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 1.53 | U | 31.4 | U | 1.34 | U | 0.3 | U | 34 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 1.84 | U | 44.5 | U | 1.6 | U | 0.36 | U | 48.3 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 1.77 | U | 29.7 | U | 1.55 | U | 0.35 | U | 32.2 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 2.88 | U | 61 | U | 2.51 | U | 0.56 | U | 66.2 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 1.71 | U | 23.1 | U | 16.1 | | 0.33 | U | 25.1 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 2.51 | U | 26.4 | U | 2.19 | U | 0.49 | U | 28.6 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 2.94 | U | 33 | U | 2.56 | U | 0.57 | U | 35.8 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 9.06 | U | 74.3 | U | 7.9 | U | 1.76 | U | 80.6 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 9.49 | U | 80.8 | U | 8.28 | U | 1.84 | U | 87.7 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 1.71 | U | 46.2 | U | 1.5 | U | 0.33 | U | 50.1 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 2.02 | U | 26.4 | U | 34.4 | | 0.39 | U | 28.6 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 3.06 | U | 23.1 | U | 2.67 | U | 0.6 | U | 25.1 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 1.77 | U | 34.7 | U | 1.55 | U | 0.35 | U | 37.6 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 278 | | 3020 | | **6000** | | 0.4 | U | 37.6 | U |
| 100-42-5 | Styrene | NA * | µg/kg | 1.77 | U | 46.2 | U | 1.5 | U | 0.35 | U | 50.1 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 81.8 | | **2460** | | **5590** | | 0.75 | U | 80.6 | U |
| 95-47-6 | o-xylene | 1200 | µg/kg | 203 | | **2400** | | **3690** | | 0.33 | U | 48.3 | U |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **562.8** | | **7880** | | **15330.5** | | **0** | | **0** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 112 | U | 124 | U | 100 | U | 111 | U | 53.5 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 141 | U | 156 | U | 126 | U | 139 | U | 67.3 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 116 | U | 128 | U | 104 | U | 114 | U | 55.3 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 141 | U | 156 | U | 126 | U | 139 | U | 67.2 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 144 | U | 159 | U | 129 | U | 142 | U | 68.6 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 145 | U | 161 | U | 130 | U | 143 | U | 69.4 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 116 | U | 128 | U | 103 | U | 114 | U | 55.1 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 84.2 | U | 93.1 | U | 75.3 | U | 82.9 | U | 40.1 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 94.7 | U | 105 | U | 84.7 | U | 93.3 | U | 45.2 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 118 | U | 130 | U | 105 | U | 116 | U | 56.1 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 146 | U | 162 | U | 131 | U | 144 | U | 69.8 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 162 | U | 179 | U | 145 | U | 159 | U | 77.1 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 109 | U | 120 | U | 97.4 | U | 107 | U | 51.9 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 124 | U | 137 | U | 111 | U | 122 | U | 59.2 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 69.7 | U | 77 | U | 62.3 | U | 68.6 | U | 33.2 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 128 | U | 141 | U | 114 | U | 126 | U | 60.9 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 119 | U | 132 | U | 107 | U | 117 | U | 56.8 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 132 | U | 146 | U | 118 | U | 130 | U | 63 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 146 | U | 162 | U | 131 | U | 144 | U | 69.8 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 134 | U | 148 | U | 120 | U | 132 | U | 64 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 91.1 | U | 101 | U | 81.5 | U | 89.8 | U | 43.5 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 218 | U | 241 | U | 195 | U | 215 | U | 104 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-02524-006 | | 00-02524-004 | | 00-02524-005 | | 00-02524-001 | | 00-02524-002 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | TB-5 | | TB-5 | | TB-5 | | SB-1 | | SB-1 | |
| | Depth: | Objectives / | | 7'-8' | | 10.5'-11.5' | | 16.5'-17.5' | | 6'-8' | | 8'-10' | |
| | Laboratory ID: | Eastern USA | | J4466-6 | | J4466-4 | | J4466-5 | | J4466-1 | | J4466-2 | |
| | Sampling Date: | Background | | 3/16/2000 | | 3/16/2000 | | 3/16/2000 | | 3/16/2000 | | 3/16/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 146 | U | 162 | U | 131 | U | 144 | U | 69.8 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 136 | U | 150 | U | 121 | U | 134 | U | 64.7 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 136 | U | 150 | U | 122 | U | 134 | U | 64.8 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 94.9 | U | 105 | U | 84.9 | U | 93.5 | U | 45.3 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 122 | U | 134 | U | 109 | U | 120 | U | 58 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 100 | U | 111 | U | 89.7 | U | 98.8 | U | 47.8 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 85.6 | U | 94.6 | U | 76.5 | U | 84.3 | U | 40.8 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 120 | U | 132 | U | 107 | U | 118 | U | 57.1 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 163 | U | 180 | U | 146 | U | 160 | U | 77.6 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 3210 | | 3710 | | 3510 | | 127 | U | 631 | |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 74.6 | U | 82.5 | U | 66.8 | U | 73.5 | U | 35.6 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 95.3 | U | 105 | U | 85.3 | U | 46.9 | J | 45.5 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 133 | U | 147 | U | 119 | U | 131 | U | 63.3 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 127 | U | 141 | U | 114 | U | 125 | U | 60.7 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 131 | U | 145 | U | 117 | U | 129 | U | 62.4 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 117 | U | 129 | U | 105 | U | 115 | U | 55.8 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 125 | U | 138 | U | 111 | U | 123 | U | 59.4 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 113 | U | 125 | U | 101 | U | 112 | U | 54.1 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 84 | U | 92.8 | U | 75.1 | U | 82.7 | U | 40 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 91.9 | U | 578 | | 1040 | | 90.6 | U | 176 | |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 388 | U | 429 | U | 347 | U | 382 | U | 185 | U |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 103 | U | 114 | U | 92 | U | 101 | U | 49.1 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 242 | U | 267 | U | 216 | U | 238 | U | 115 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 108 | J | 810 | U | 119 | J | 702 | J | 350 | U |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 1070 | U | 118 | U | 95.6 | U | 105 | U | 51 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | **66800** | | **74500** | | 38700 | | 99.7 | J | 19500 | |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 11700 | | 10000 | | 4310 | | 5500 | | 1650 | |
| 120-12-7 | Anthracene | 50000* | µg/kg | **53800** | | 43100 | | 16400 | | 947 | | 7580 | |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 7810 | | 3730 | | 2280 | | 6630 | | 1040 | |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | **67900** | | 40200 | | 21100 | | 317 | | 7640 | |
| 86-73-7 | Fluorene | 50000* | µg/kg | 40400 | | 39700 | | 17100 | | 383 | | 7080 | |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 16300 | | **261000** | | **66300** | | 156 | | 13200 | |
| 91-20-3 | Naphthalene | 13000 | µg/kg | **16000** | | **735000** | | **158000** | | 1080 | | **21100** | |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | **148000** | | **132000** | | **63500** | | 139 | | 26600 | |
| 129-00-0 | Pyrene | 50000* | µg/kg | **92500** | | **63700** | | 31000 | | 544 | | 14100 | |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 521210 | | 1402930 | | 418690 | | 15795.7 | | 119490 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | **39900** | | **25500** | | **11600** | | **479** | | **5520** | |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | **11600** | | **8110** | | **4540** | | **2320** | | **2050** | |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | **15100** | | **10400** | | **5770** | | **1680** | | **2600** | |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **24400** | | **15700** | | **8320** | | **3560** | | **3760** | |
| 218-01-9 | Chrysene | 400 | µg/kg | **33900** | | **23000** | | **10500** | | **710** | | **5400** | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | **6860** | | **3300** | | **1940** | | **2620** | | **917** | |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | **2670** | | **1180** | | **644** | | **716** | | **300** | |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 134430 | | 87190 | | 43314 | | 12085 | | 20547 | |
| | **Total PAHs** | | | **655640** | | **1490120** | | **462004** | | **27880.7** | | **140037** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 5550 | | 4350 | | 3790 | | 7140 | | 16800 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.63 | J | 1.32 | U | 0.98 | J | 0.9 | J | 2.27 | |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.73 | U | 0.79 | U | 0.64 | U | 0.71 | U | 0.86 | U |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 22.6 | | 118 | | 68.1 | | 34.4 | | 97 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | **0.38** | | **0.37** | | **0.26** | | **0.42** | | **0.93** | |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.84 | | 0.85 | | **1.33** | | **1.07** | | **2.1** | |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 874 | | 1780 | | 2010 | | 1430 | | 2400 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 7.09 | | **10.5** | | **11.4** | | 9.71 | | **24.2** | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 5.4 | | 4.07 | | 9.81 | | 5.38 | | 10.1 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 5.59 | | 8.04 | | **30.3** | | 9.78 | | 9.91 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **8350** | | **6780** | | **12900** | | **10500** | | **18800** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 2.12 | | 1.9 | | 1.11 | | 4.06 | | 5.48 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | 2280 | | 1970 | | 2450 | | 3160 | | 4660 | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 67.3 | | 71.1 | | 87.3 | | 115 | | 459 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.028 | | 0.019 | | 0.026 | | 0.013 | | 0.064 | |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 8.94 | | 6.48 | | **20.6** | | 8.46 | | **15.6** | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 378 | | 177 | | 990 | | 730 | | 738 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.38 | J | 1.57 | | 0.17 | J | 0.6 | U | 0.71 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-02524-006 | | 00-02524-004 | | 00-02524-005 | | 00-02524-001 | | 00-02524-002 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | TB-5 | | TB-5 | | TB-5 | | SB-1 | | SB-1 | |
| | Depth: | Objectives / | | 7'-8' | | 10.5'-11.5' | | 16.5'-17.5' | | 6'-8' | | 8'-10' | |
| | Laboratory ID: | Eastern USA | | J4466-6 | | J4466-4 | | J4466-5 | | J4466-1 | | J4466-2 | |
| | Sampling Date: | Background | | 3/16/2000 | | 3/16/2000 | | 3/16/2000 | | 3/16/2000 | | 3/16/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.46 | J | 1.06 | U | 0.14 | J | 0.56 | J | 0.4 | J |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 219 | | 113 | J | 215 | | 386 | | 811 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 6.59 | U | 7.13 | U | 5.78 | U | 6.43 | U | 7.72 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 11.5 | | 21.7 | | 18.6 | | 15.4 | | 32.6 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **24** | | **32.8** | | **24.9** | | **32.9** | | **66.3** | |
| 57-12-5 | Cyanide | | mg/kg | 9.53 | | 0.38 | | 0.41 | | 1.79 | | 1.63 | |
| | % Solids | | % | 81.7 | | 75.8 | | 93.7 | | 84.1 | | 69.8 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-02524-003 | | 00-07683-003 | | 00-07887-001 | | 00-07887-002 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-1 | | SB-2 | | SB-2 | | SB-2 | |
| | Depth: | Objectives / | | 14'-18' | | 2'-4' | | 8'-10' | | 15'-16.5' | |
| | Laboratory ID: | Eastern USA | | J4466-3 | | J7186-3 | | J7197-1 | | J7197-2 | |
| | Sampling Date: | Background | | 3/16/2000 | | 08/08/2000 | | 08/14/2000 | | 08/14/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | |
| | **PCBs** | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 45.4 | U | 2.22 | U | 2.67 | U | 2.26 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 193 | U | 10.4 | U | 12.6 | U | 10.7 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 102 | U | 2.31 | U | 2.79 | U | 2.36 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 42.8 | U | 1.74 | U | 2.1 | U | 1.78 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 97.1 | U | 3.91 | U | 4.72 | U | 4 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 22.6 | U | 5.92 | U | 7.14 | U | 6.05 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 64.3 | U | 6.8 | U | 8.2 | U | 6.95 | U |
| | **Volatiles** | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 572 | U | 0.38 | U | 59 | U | 50 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 557 | U | 0.44 | U | 41 | U | 34.8 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 617 | U | 0.38 | U | 57.4 | U | 48.7 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 376 | U | 0.21 | U | 54.1 | U | 45.9 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 452 | U | 7.8 | B | 32.8 | U | 27.8 | U |
| 67-64-1 | Acetone | 200 | µg/kg | 1960 | U | 4.9 | U | 310 | U | 263 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 316 | U | 0.31 | U | 24.6 | U | 20.8 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 723 | U | 0.24 | U | 34.4 | U | 29.2 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 271 | U | 0.18 | U | 23 | U | 19.5 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 422 | U | 0.46 | U | 44.3 | U | 37.5 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 512 | U | 0.56 | U | 31.2 | U | 26.4 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 392 | U | 0.19 | U | 21.3 | U | 18.1 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 286 | U | 0.34 | U | 26.2 | U | 22.2 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 1230 | U | 2.84 | U | 167 | U | 142 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 467 | U | 0.32 | U | 18 | U | 15.3 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 512 | U | 0.31 | U | 29.5 | U | 25 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 392 | U | 0.21 | U | 29.5 | U | 25 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 181 | U | 0.2 | U | 26.2 | U | 22.2 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 286 | U | 0.28 | U | 29.5 | U | 25 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 407 | U | 0.34 | U | 27.9 | U | 23.6 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 271 | U | 0.33 | U | 13.1 | U | 11.1 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 557 | U | 0.53 | U | 50.8 | U | 43.1 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 211 | U | 2.1 | | 23 | U | 19.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 241 | U | 0.46 | U | 29.5 | U | 25 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 301 | U | 0.54 | U | 19.7 | U | 16.7 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 678 | U | 1.67 | U | 83.6 | U | 70.9 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 738 | U | 1.75 | U | 146 | U | 124 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 422 | U | 0.32 | U | 13.1 | U | 11.1 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 241 | U | 2.1 | | 26.2 | U | 22.2 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 211 | U | 0.56 | U | 21.3 | U | 18.1 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 316 | U | 0.33 | U | 11.5 | U | 9.73 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | **244000** | | 0.38 | U | 1160 | | 144 | |
| 100-42-5 | Styrene | NA * | µg/kg | 422 | U | 0.33 | U | 13.1 | U | 11.1 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | **243000** | | 0.71 | U | 27.9 | U | 134 | |
| 95-47-6 | o-xylene | 1200 | µg/kg | **138000** | | 0.32 | U | 632 | | 11.1 | U |
| | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **625000** | | **4.2** | | **1792** | | **278** | |
| | **Semi-Volatiles** | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 111 | U | 134 | U | 78.1 | U | 66.2 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 140 | U | 173 | U | 101 | U | 85.7 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 115 | U | 162 | U | 95 | U | 80.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 139 | U | 177 | U | 104 | U | 87.8 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 142 | U | 168 | U | 98.5 | U | 83.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 144 | U | 190 | U | 111 | U | 94.1 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 114 | U | 170 | U | 99.6 | U | 84.4 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 83.3 | U | 180 | U | 105 | U | 89 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 93.8 | U | 170 | U | 99.7 | U | 84.5 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 116 | U | 157 | U | 91.8 | U | 77.8 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 145 | U | 151 | U | 88.3 | U | 74.8 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 160 | U | 188 | U | 110 | U | 93 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 108 | U | 153 | U | 89.5 | U | 75.8 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 123 | U | 142 | U | 83.3 | U | 70.6 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 68.9 | U | 133 | U | 77.9 | U | 66 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 126 | U | 175 | U | 102 | U | 86.7 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 118 | U | 157 | U | 92.1 | U | 78 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 131 | U | 192 | U | 112 | U | 95.1 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 145 | U | 95.2 | U | 55.7 | U | 47.2 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 133 | U | 180 | U | 105 | U | 89 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 90.2 | U | 185 | U | 108 | U | 91.6 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 216 | U | 79.5 | U | 46.5 | U | 39.4 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-02524-003 | | 00-07683-003 | | 00-07887-001 | | 00-07887-002 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-1 | | SB-2 | | SB-2 | | SB-2 | |
| | Depth: | Objectives / | | 14'-18' | | 2'-4' | | 8'-10' | | 15'-16.5' | |
| | Laboratory ID: | Eastern USA | | J4466-3 | | J7186-3 | | J7197-1 | | J7197-2 | |
| | Sampling Date: | Background | | 3/16/2000 | | 08/08/2000 | | 08/14/2000 | | 08/14/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 145 | U | 158 | U | 92.5 | U | 78.4 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 134 | U | 141 | U | 82.4 | U | 69.8 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 135 | U | 184 | U | 107 | U | 91 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 94 | U | 138 | U | 80.7 | U | 68.4 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 120 | U | 183 | U | 107 | U | 90.9 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 99.3 | U | 136 | U | 79.6 | U | 67.5 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 84.7 | U | 87.8 | U | 51.4 | U | 43.5 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 119 | U | 130 | U | 76.1 | U | 64.5 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 161 | U | 292 | U | 171 | U | 145 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 3080 | | 189 | U | 220 | | 1530 | |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 73.9 | U | 125 | U | 72.8 | U | 61.7 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 94.4 | U | 121 | U | 70.5 | U | 59.7 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 131 | U | 217 | U | 127 | U | 108 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 126 | U | 101 | U | 59.2 | U | 50.2 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 130 | U | 171 | U | 100 | U | 84.7 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 116 | U | 180 | U | 105 | U | 89.1 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 123 | U | 164 | U | 95.9 | U | 81.3 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 112 | U | 161 | U | 94.1 | U | 79.7 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 83.1 | U | 109 | U | 63.9 | U | 54.2 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 931 | | 87.3 | J | 74.8 | U | 261 | |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 384 | U | 484 | U | 283 | U | 240 | U |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 102 | U | 107 | U | 62.6 | U | 53.1 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 239 | U | 185 | U | 108 | U | 91.9 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 280 | J | 107 | JB | 26.2 | J | 30.1 | J |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 106 | U | 138 | U | 80.7 | U | 68.4 | U |
| | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | **139000** | | 177 | J | 9340 | | 22900 | |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 12000 | | 5390 | | 1400 | | 3060 | |
| 120-12-7 | Anthracene | 50000* | µg/kg | **63000** | | 1200 | | 5120 | | 10200 | |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 10500 | | 4580 | | 959 | | 2150 | |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | **82900** | | 1440 | | 6880 | | 18900 | |
| 86-73-7 | Fluorene | 50000* | µg/kg | **58500** | | 745 | | 5500 | | 10300 | |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | **203000** | | 1160 | | 9310 | | 26900 | |
| 91-20-3 | Naphthalene | 13000 | µg/kg | **926000** | | 2080 | | 1250 | | **54400** | |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | **214000** | | 1010 | | 18900 | | 44300 | |
| 129-00-0 | Pyrene | 50000* | µg/kg | **123000** | | 2960 | | 9060 | | 23600 | |
| | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 1831900 | | 20742 | | 67719 | | 216710 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | **42800** | | **2280** | | **3900** | | **8560** | |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | **14400** | | **5050** | | **1660** | | **4460** | |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | **19400** | | **3530** | | **1620** | | **3580** | |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **32800** | | **5800** | | **2860** | | **6730** | |
| 218-01-9 | Chrysene | 400 | µg/kg | **36800** | | **2970** | | **3160** | | **7100** | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | **8550** | | **3360** | | 843 | | 1940 | |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | **2490** | | **1970** | | **287** | | **763** | |
| | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 157240 | | 24960 | | 14330 | | 33133 | |
| | **Total PAHs** | | | **1989140** | | **45702** | | **82049** | | **249843** | |
| | **Metals** | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 3280 | | 5540 | | 10800 | | 16400 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.13 | J | 0.58 | U | 5.91 | | 5.11 | |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.73 | U | 2.83 | | 1.44 | | 0.44 | |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 36.1 | | 39.6 | | 61.2 | | 139 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | **0.25** | | **0.45** | | **0.66** | | **0.75** | |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.8 | | **1.36** | | **1.78** | | **3.11** | |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 1700 | | 5740 | | 1810 | | 2450 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | **10.4** | | **11** | | **19.4** | | 7.74 | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 3.64 | | 5.42 | | 9.04 | | 7.66 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 10.6 | | 20.3 | | 2.08 | | **28.5** | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **8050** | | **10800** | | **18000** | | **29700** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 1.94 | | 40.1 | | 3.67 | | 1.38 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | 2190 | | 4620 | | 2670 | | **6130** | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 55.4 | | 131 | | 2840 | | 210 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.011 | U | **1.54** | | 0.073 | | 0.0098 | U |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 6.73 | | 9.27 | | 10.5 | | **19.4** | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 652 | | 1530 | | 388 | | 4040 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.25 | J | 0.2 | U | 0.24 | U | 0.21 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-02524-003 | | 00-07683-003 | | 00-07887-001 | | 00-07887-002 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-1 | | SB-2 | | SB-2 | | SB-2 | |
| | Depth: | Objectives / | | 14'-18' | | 2'-4' | | 8'-10' | | 15'-16.5' | |
| | Laboratory ID: | Eastern USA | | J4466-3 | | J7186-3 | | J7197-1 | | J7197-2 | |
| | Sampling Date: | Background | | 3/16/2000 | | 08/08/2000 | | 08/14/2000 | | 08/14/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.17 | J | 0.7 | | 0.26 | | 2.45 | |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 186 | | 461 | | 823 | | 1040 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 6.53 | U | 0.2 | U | 0.24 | U | 0.21 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 11 | | 17.2 | | 31.6 | | 78.6 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | 19.5 | | **70.9** | | **45.1** | | **60** | |
| 57-12-5 | Cyanide | | mg/kg | 0.82 | | 1 | | 1.16 | | 0.28 | U |
| | % Solids | | % | 83 | | 88.5 | | 76.2 | | 89.7 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04272-005 | | 01-04272-006 | | 01-04272-007 | |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-3 | | SB-3 | | SB-3 | |
| | Depth: | Objectives / | | 3' - 4' | | 10' - 11' | | 28.5' - 29.5' | |
| | Laboratory ID: | Eastern USA | | K9228-5 | | K9228-6 | | K9228-7 | |
| | Sampling Date: | Background | | 06/04/2001 | | 06/04/2001 | | 06/04/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | |
| | **PCBs** | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 7.62 | U | 7.95 | U | 8.1 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 9.28 | U | 9.69 | U | 9.87 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 6.62 | U | 6.91 | U | 7.04 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 8.28 | U | 8.65 | U | 8.81 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 10.3 | U | 10.8 | U | 11 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 6.19 | U | 6.46 | U | 6.58 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 6.23 | U | 6.51 | U | 6.63 | U |
| | **Volatiles** | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.39 | U | 2.03 | U | 2.07 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.48 | U | 2.51 | U | 2.56 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.29 | U | 1.5 | U | 1.52 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.25 | U | 1.32 | U | 1.34 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 2.4 | B | 8.3 | B | 9.6 | B |
| 67-64-1 | Acetone | 200 | µg/kg | 36.8 | | **408** | | 80.1 | |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 0.3 | U | 29.3 | | 1.58 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 0.26 | U | 1.38 | U | 1.4 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.26 | U | 1.38 | U | 1.4 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.31 | U | 1.61 | U | 1.64 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.22 | U | 1.14 | U | 1.16 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.28 | U | 1.44 | U | 4.9 | |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.13 | U | 0.66 | U | 0.67 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 5.75 | U | 29.9 | U | 30.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.28 | U | 1.44 | U | 1.46 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.24 | U | 1.26 | U | 1.28 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.15 | U | 0.78 | U | 0.79 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.069 | U | 0.36 | U | 0.37 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.14 | U | 0.72 | U | 0.73 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 3.4 | | 0.78 | U | 0.79 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.092 | U | 0.48 | U | 0.49 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.14 | U | 0.72 | U | 0.73 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 0.28 | U | 1.44 | U | 1.46 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.16 | U | 0.84 | U | 0.85 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.069 | U | 0.36 | U | 0.37 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 5.75 | U | 29.9 | U | 30.5 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 5.75 | U | 29.9 | U | 30.5 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.1 | U | 0.54 | U | 0.55 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 0.99 | | 11.4 | | 0.61 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.1 | U | 0.54 | U | 0.55 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 0.08 | U | 0.42 | U | 0.43 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 1.3 | | 19.4 | | 14 | |
| 100-42-5 | Styrene | NA * | µg/kg | 0.16 | U | 0.84 | U | 0.85 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 3.1 | | 14.2 | | 11.6 | |
| 95-47-6 | o-xylene | 1200 | µg/kg | 1.1 | | 78.1 | | 8 | |
| | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **6.49** | | **134.5** | | **33.6** | |
| | **Semi-Volatiles** | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 21.5 | U | 22.5 | U | 22.9 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 27.1 | U | 28.3 | U | 28.8 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 22.3 | U | 23.2 | U | 23.7 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 27 | U | 28.2 | U | 28.7 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 27.6 | U | 28.8 | U | 29.4 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 27.9 | U | 29.1 | U | 29.7 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 22.2 | U | 23.2 | U | 23.6 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 16.2 | U | 16.9 | U | 17.2 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 16 | J | 19 | U | 19.3 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 22.6 | U | 23.6 | U | 24 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 28.1 | U | 29.3 | U | 29.9 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 31 | U | 32.4 | U | 33 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 20.9 | U | 21.8 | U | 22.2 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 23.8 | U | 24.9 | U | 25.3 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 13.4 | U | 14 | U | 14.2 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 24.5 | U | 25.6 | U | 26.1 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 22.9 | U | 23.9 | U | 24.3 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 25.4 | U | 26.5 | U | 27 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 28.1 | U | 29.3 | U | 29.8 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 25.7 | U | 26.9 | U | 27.4 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 17.5 | U | 18.3 | U | 18.6 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 41.8 | U | 43.7 | U | 44.5 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04272-005 | | 01-04272-006 | | 01-04272-007 | |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-3 | | SB-3 | | SB-3 | |
| | Depth: | Objectives / | | 3' - 4' | | 10' - 11' | | 28.5' - 29.5' | |
| | Laboratory ID: | Eastern USA | | K9228-5 | | K9228-6 | | K9228-7 | |
| | Sampling Date: | Background | | 06/04/2001 | | 06/04/2001 | | 06/04/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 28.1 | U | 29.3 | U | 29.9 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 26 | U | 27.2 | U | 27.7 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 26.1 | U | 27.2 | U | 27.7 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 18.2 | U | 19 | U | 19.4 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 23.3 | U | 24.4 | U | 24.8 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 19.2 | U | 20.1 | U | 20.5 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 16.4 | U | 17.1 | U | 17.5 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 23 | U | 24 | U | 24.4 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 31.2 | U | 32.6 | U | 33.2 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 11.8 | J | 12.8 | J | 26.4 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 14.3 | U | 15 | U | 15.2 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 18.3 | U | 19.1 | U | 19.4 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 25.5 | U | 26.6 | U | 27.1 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 24.4 | U | 25.5 | U | 26 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 25.1 | U | 26.2 | U | 26.7 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 22.4 | U | 23.4 | U | 23.9 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 23.9 | U | 25 | U | 25.4 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 21.8 | U | 22.7 | U | 23.1 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 16.1 | U | 16.8 | U | 17.1 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 34.7 | | 12 | J | 10.6 | J |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 38.2 | J | 12.4 | J | 13.4 | J |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 19.7 | U | 20.6 | U | 21 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 46.4 | U | 48.4 | U | 49.3 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 255 | B | 115 | JB | 171 | B |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 20.5 | U | 21.4 | U | 21.8 | U |
| | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 13.4 | J | 248 | | 107 | |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 288 | | 51.4 | | 33.7 | |
| 120-12-7 | Anthracene | 50000* | µg/kg | 110 | | 178 | | 113 | |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 463 | | 23.5 | | 15 | J |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 1080 | | 240 | | 162 | |
| 86-73-7 | Fluorene | 50000* | µg/kg | 24.4 | | 169 | | 91.4 | |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 34.4 | | 240 | | 59.7 | |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 65.7 | | 391 | | 106 | |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 276 | | 638 | | 408 | |
| 129-00-0 | Pyrene | 50000* | µg/kg | 1120 | | 346 | | 241 | |
| | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 3474.9 | | 2524.9 | | 1336.8 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | **958** | | 120 | | 84 | |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 822 | | 35.9 | | 28.4 | |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | **1180** | | 59.8 | | 41.4 | |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **1200** | | 84.5 | | 51.6 | |
| 218-01-9 | Chrysene | 400 | µg/kg | **908** | | 110 | | 75.5 | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 473 | | 19.1 | | 12.2 | J |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | **170** | | 14.8 | U | 15.1 | U |
| | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 5711 | | 429.3 | | 293.1 | |
| | **Total PAHs** | | | **9185.9** | | **2954.2** | | **1629.9** | |
| | **Metals** | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 5080 | | 4150 | | 4310 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.21 | U | 0.22 | U | 0.085 | J |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.27 | U | 0.29 | U | 0.29 | U |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 37.1 | | 47.8 | | 46.3 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.069 | U | 0.072 | U | 0.073 | U |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.069 | U | 0.072 | U | 0.073 | U |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 4650 | | 11500 | | 13100 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | **11.1** | | **11.6** | | **12.2** | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 4.32 | | 5.07 | | 5.92 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 8.82 | | 12.4 | | 11.2 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **8860** | | **8850** | | **9760** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 296 | | 2.29 | | 2.31 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | 3350 | | **9740** | | **11000** | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 94 | | 88.3 | | 89.2 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | **0.27** | | 0.0012 | J | 0.011 | U |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 8.3 | | 8.65 | | 8.98 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 1650 | | 1950 | | 2130 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.27 | U | 0.28 | U | 0.29 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | **Client Sample ID:** | **TAGM 4046** | | **01-04272-005** | | **01-04272-006** | | **01-04272-007** | |
|---|---|---|---|---|---|---|---|---|---|
| | **Sample Location:** | **Soil Cleanup** | | **SB-3** | | **SB-3** | | **SB-3** | |
| | **Depth:** | **Objectives /** | | **3' - 4'** | | **10' - 11'** | | **28.5' - 29.5'** | |
| | **Laboratory ID:** | **Eastern USA** | | **K9228-5** | | **K9228-6** | | **K9228-7** | |
| | **Sampling Date:** | **Background** | | **06/04/2001** | | **06/04/2001** | | **06/04/2001** | |
| | **Matrix:** | **Concentrations** | | **Soil** | | **Soil** | | **Soil** | |
| | **Validated:** | | | **No** | | **No** | | **No** | |
| **Cas #:** | **Analyte:** | | **Units:** | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.086 | U | 0.09 | U | 0.091 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 640 | | 120 | | 124 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.22 | U | 0.23 | U | 0.24 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 11.7 | | 14.7 | | 15.2 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **50.9** | | **24.2** | | **25.7** | |
| 57-12-5 | Cyanide | | mg/kg | 0.57 | | 0.25 | U | 0.25 | U |
| | % Solids | | % | 87.3 | | 83.6 | | 82.1 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | |
| | | | | | | | | | |
| **Notes** | | | | | | | | | |
| | | | | | | | | | |
| U - Below detection limit | | | | | | | | | |
| J - Estimated value | | | | | | | | | |
| NR - Not run | | | | | | | | | |
| NA - Not available | | | | | | | | | |
| SB - Site background | | | | | | | | | |
| MDL - Method Detection Limit | | | | | | | | | |
| * - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg | | | | | | | | | |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04272-008 | | 01-04362-009 | | 01-04362-011 | | 01-04362-010 | | 01-04270-003 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-3 (Dup) | | SB-4 | | SB-4 | | SB-4 | | SB-5 | |
| | Depth: | Objectives / | | 28' - 29' | | 3' - 4' | | 16' - 18' | | 32' - 33' | | 2' - 4' | |
| | Laboratory ID: | Eastern USA | | K9228-8 | | K9267-9 | | K9266-2 | | K9266-1 | | K9229-3 | |
| | Sampling Date: | Background | | 06/04/2001 | | 06/19/2001 | | 06/19/2001 | | 06/19/2001 | | 05/29/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 7.73 | U | 7.02 | U | 8.03 | U | 8.12 | U | 7.25 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 9.42 | U | 8.55 | U | 9.78 | U | 9.89 | U | 8.83 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 6.72 | U | 6.1 | U | 6.98 | U | 7.06 | U | 6.3 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 8.41 | U | 7.63 | U | 8.73 | U | 8.83 | U | 7.88 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 10.5 | U | 9.52 | U | 10.9 | U | 11 | U | 9.84 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 6.28 | U | 5.7 | U | 6.52 | U | 6.59 | U | 5.89 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 6.33 | U | 5.74 | U | 6.57 | U | 6.64 | U | 5.93 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.39 | U | 0.38 | U | 148 | U | 0.44 | U | 0.33 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.49 | U | 0.18 | U | 130 | U | 0.21 | U | 0.28 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.29 | U | 0.21 | U | 30.2 | U | 0.24 | U | 0.33 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.26 | U | 0.35 | U | 184 | U | 0.4 | U | 0.33 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 1.9 | B | 12.2 | B | 776 | B | 11.5 | B | 0.35 | U |
| 67-64-1 | Acetone | 200 | µg/kg | 40.3 | | 5.3 | U | 942 | U | 82.6 | | 38.6 | |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 2.6 | | 0.21 | U | 60.4 | U | 2.7 | | 2.9 | |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 0.27 | U | 0.34 | U | 90.6 | U | 0.39 | U | 0.9 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.27 | U | 0.16 | U | 66.4 | U | 0.18 | U | 0.26 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.31 | U | 0.16 | U | 60.4 | U | 0.18 | U | 0.31 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.22 | U | 0.18 | U | 63.4 | U | 0.21 | U | 0.22 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.28 | U | 0.17 | U | 60.4 | U | 0.2 | U | 0.19 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.13 | U | 0.23 | U | 69.5 | U | 0.27 | U | 0.13 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 5.8 | U | 4.32 | U | 1510 | U | 4.98 | U | 5.45 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.28 | U | 0.15 | U | 66.4 | U | 0.17 | U | 0.65 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.24 | U | 0.22 | U | 75.5 | U | 0.26 | U | 0.26 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.15 | U | 0.19 | U | 45.3 | U | 0.22 | U | 0.15 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.07 | U | 0.15 | U | 109 | U | 0.17 | U | 0.28 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.14 | U | 0.19 | U | 48.3 | U | 0.22 | U | 0.29 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 0.15 | U | 0.21 | U | 48.3 | U | 0.24 | U | 1.8 | |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.093 | U | 0.25 | U | 33.2 | U | 0.29 | U | 0.96 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.14 | U | 0.2 | U | 27.2 | U | 0.23 | U | 0.33 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 8.3 | | 0.15 | U | 48.3 | U | 2.8 | | 28.4 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.16 | U | 0.23 | U | 24.2 | U | 0.27 | U | 0.29 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.07 | U | 0.25 | U | 30.2 | U | 0.29 | U | 0.32 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 5.8 | U | 5.3 | U | 1510 | U | 6.1 | U | 5.45 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 5.8 | U | 5.3 | U | 1510 | U | 6.1 | U | 5.45 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.1 | U | 0.19 | U | 72.5 | U | 0.22 | U | 0.11 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 9.2 | | 0.21 | U | 42.3 | U | 0.24 | U | 5.5 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.1 | U | 0.21 | U | 48.3 | U | 0.24 | U | 0.44 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 0.081 | U | 0.14 | U | 45.3 | U | 0.16 | U | 0.2 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 155 | | 15.6 | | **67500** | | 12.1 | | 3.6 | |
| 100-42-5 | Styrene | NA * | µg/kg | 0.16 | U | 0.19 | U | 51.3 | U | 0.22 | U | 0.11 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 158 | | 11.7 | | **33400** | | 9.2 | | 4.8 | |
| 95-47-6 | o-xylene | 1200 | µg/kg | 87.6 | | 5 | | **32900** | | 5.2 | | 2.7 | |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **418.1** | | **32.3** | | **133800** | | **29.3** | | **45** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 231 | U | 62.9 | U | 720 | U | 72.8 | U | 217 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 299 | U | 81.5 | U | 932 | U | 94.3 | U | 281 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 281 | U | 76.6 | U | 876 | U | 88.5 | U | 264 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 307 | U | 83.5 | U | 955 | U | 96.6 | U | 288 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 291 | U | 79.4 | U | 908 | U | 91.8 | U | 273 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 329 | U | 89.5 | U | 1020 | U | 104 | U | 308 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 295 | U | 80.3 | U | 918 | U | 92.8 | U | 276 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 311 | U | 84.7 | U | 969 | U | 97.9 | U | 292 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 295 | U | 80.4 | U | 919 | U | 92.9 | U | 277 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 272 | U | 74 | U | 847 | U | 85.6 | U | 255 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 261 | U | 71.2 | U | 814 | U | 82.3 | U | 245 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 325 | U | 88.5 | U | 1010 | U | 102 | U | 305 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 265 | U | 72.1 | U | 825 | U | 83.4 | U | 248 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 247 | U | 67.2 | U | 768 | U | 77.7 | U | 231 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 231 | U | 62.8 | U | 719 | U | 72.6 | U | 216 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 303 | U | 82.5 | U | 943 | U | 95.4 | U | 284 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 272 | U | 74.2 | U | 849 | U | 85.8 | U | 256 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 332 | U | 90.5 | U | 1030 | U | 105 | U | 312 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 165 | U | 44.9 | U | 513 | U | 51.9 | U | 154 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 311 | U | 84.7 | U | 969 | U | 97.9 | U | 292 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 320 | U | 87.1 | U | 996 | U | 101 | U | 300 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 138 | U | 37.5 | U | 429 | U | 43.3 | U | 129 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04272-008 | | 01-04362-009 | | 01-04362-011 | | 01-04362-010 | | 01-04270-003 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-3 (Dup) | | SB-4 | | SB-4 | | SB-4 | | SB-5 | |
| | Depth: | Objectives / | | 28' - 29' | | 3' - 4' | | 16' - 18' | | 32' - 33' | | 2' - 4' | |
| | Laboratory ID: | Eastern USA | | K9228-8 | | K9267-9 | | K9266-2 | | K9266-1 | | K9229-3 | |
| | Sampling Date: | Background | | 06/04/2001 | | 06/19/2001 | | 06/19/2001 | | 06/19/2001 | | 05/29/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 274 | U | 74.6 | U | 853 | U | 86.2 | U | 257 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 244 | U | 66.4 | U | 760 | U | 76.8 | U | 229 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 318 | U | 86.6 | U | 990 | U | 100 | U | 298 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 239 | U | 65 | U | 744 | U | 75.2 | U | 224 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 317 | U | 86.5 | U | 989 | U | 100 | U | 298 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 236 | U | 64.2 | U | 734 | U | 74.2 | U | 221 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 152 | U | 41.4 | U | 473 | U | 47.9 | U | 142 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 225 | U | 61.4 | U | 702 | U | 70.9 | U | 211 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 506 | U | 138 | U | 1580 | U | 159 | U | 474 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 539 | | 89 | U | 5540 | | 162 | | 306 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 216 | U | 58.7 | U | 671 | U | 67.9 | U | 202 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 209 | U | 56.8 | U | 650 | U | 73.3 | | 196 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 376 | U | 102 | U | 1170 | U | 118 | U | 352 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 175 | U | 47.7 | U | 546 | U | 55.2 | U | 164 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 296 | U | 80.6 | U | 921 | U | 93.2 | U | 277 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 311 | U | 84.8 | U | 970 | U | 98 | U | 292 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 284 | U | 77.3 | U | 884 | U | 89.4 | U | 266 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 278 | U | 75.8 | U | 867 | U | 87.7 | U | 261 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 189 | U | 51.5 | U | 589 | U | 59.6 | U | 177 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 221 | U | 60.3 | U | 1590 | | 1890 | | 80 | J |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 837 | U | 24.3 | J | 2610 | U | 31.7 | J | 785 | U |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 185 | U | 50.5 | U | 577 | U | 58.4 | U | 174 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 321 | U | 87.4 | U | 1000 | U | 101 | U | 301 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 1260 | U | 97.1 | J | 1220 | JB | 717 | B | 316 | J |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 239 | U | 65 | U | 744 | U | 75.2 | U | 224 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 10800 | | 28.5 | J | **81800** | | 602 | | 138 | J |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 2580 | | 84.9 | U | 18300 | | 36.6 | J | 2070 | |
| 120-12-7 | Anthracene | 50000* | µg/kg | 8790 | | 21.1 | J | **50400** | | 999 | | 1960 | |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 1240 | | 56 | U | 10200 | | 64.7 | U | 1890 | |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 9300 | | 66.5 | J | **65500** | | 928 | | 7540 | |
| 86-73-7 | Fluorene | 50000* | µg/kg | 7670 | | 92.7 | U | **54900** | | 1900 | | 825 | |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 273 | U | 79.2 | | **211000** | | 1680 | | 469 | |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 321 | U | 244 | | **460000** | | 6370 | | 480 | |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 22700 | | 69.7 | J | **232000** | | 2780 | | 5410 | |
| 129-00-0 | Pyrene | 50000* | µg/kg | 11400 | | 72.9 | | **88600** | | 821 | | 11800 | |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 74480 | | 581.9 | | 1272700 | | 16116.6 | | 32582 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | **5810** | | 35.9 | J | **38700** | | 61.3 | U | **7500** | |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | **2480** | | 33.8 | J | **13500** | | 100 | U | **4830** | |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | **1890** | | 43.3 | J | **18100** | | 81.3 | U | **1940** | |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **3750** | | 46.5 | J | **27000** | | 66.4 | U | **4330** | |
| 218-01-9 | Chrysene | 400 | µg/kg | **5050** | | 50.7 | J | **35600** | | 61 | U | **9120** | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 1050 | | 67.2 | U | **8820** | | 77.7 | U | 1660 | |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | 232 | U | 63.1 | U | 722 | U | 73 | U | **767** | |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 20030 | | 210.2 | | 141720 | | 0 | | 30147 | |
| | **Total PAHs** | | | **94510** | | **792.1** | | **1414420** | | **16116.6** | | **62729** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 3820 | | 5270 | | 3980 | | 2340 | | 3790 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.21 | U | 0.32 | | 0.22 | | 0.32 | | 0.57 | |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.28 | U | 0.25 | U | 0.29 | U | 0.29 | U | 2.39 | |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 20.2 | | 39.2 | | 28.7 | | 26.3 | | **351** | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.07 | U | 0.063 | U | 0.072 | U | 0.073 | U | 0.065 | U |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.07 | U | 0.063 | U | 0.012 | J | 0.073 | U | 1 | |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 754 | | 4760 | | 1570 | | 1260 | | 5540 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 5.74 | | 8.34 | | 8.54 | | 7.58 | | **19.6** | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 2.98 | | 4.96 | | 3.97 | | 3.18 | | 3.94 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 3.81 | | 11.8 | | 6.59 | | 10.7 | | 22.7 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **9210** | | **7940** | | **7300** | | **4220** | | **12200** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 2.08 | | 23.6 | | 382 | | 1.67 | | 578 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | 1750 | | 4970 | | 2300 | | 1690 | | 2730 | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 54.1 | | 159 | | 61.4 | | 41.8 | | 181 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.0033 | J | **0.14** | | 0.045 | | 0.023 | | 0.44 | |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 4.99 | | 7.41 | | 5.89 | | 5.27 | | 12.3 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 420 | | 1340 | | 1100 | | 851 | | 866 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.27 | U | 0.25 | U | 0.28 | U | 0.29 | U | 0.26 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04272-008 | | 01-04362-009 | | 01-04362-011 | | 01-04362-010 | | 01-04270-003 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-3 (Dup) | | SB-4 | | SB-4 | | SB-4 | | SB-5 | |
| | Depth: | Objectives / | | 28' - 29' | | 3' - 4' | | 16' - 18' | | 32' - 33' | | 2' - 4' | |
| | Laboratory ID: | Eastern USA | | K9228-8 | | K9267-9 | | K9266-2 | | K9266-1 | | K9229-3 | |
| | Sampling Date: | Background | | 06/04/2001 | | 06/19/2001 | | 06/19/2001 | | 06/19/2001 | | 05/29/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.087 | U | 0.079 | U | 0.091 | U | 0.092 | U | 0.082 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 353 | | 287 | | 249 | | 53.4 | | 155 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.23 | U | 0.21 | U | 0.24 | U | 0.24 | U | 0.21 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 7.58 | | 10.7 | | 9.4 | | 5.34 | | 10.8 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | 16.4 | | **32.7** | | **21** | | 13 | | **806** | |
| 57-12-5 | Cyanide | | mg/kg | 0.27 | U | 0.066 | J | 0.29 | U | 0.25 | U | 3.21 | |
| | % Solids | | % | 86 | | 94.7 | | 82.8 | | 81.9 | | 91.7 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04270-002 | | 01-04270-004 | | 01-04270-001 | | 01-04362-005 | | 01-04362-007 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-5 | | SB-5 | | SB-5 | | SB-6 | | SB-6 | |
| | Depth: | Objectives / | | 15' - 16' | | 27' - 28' | | 29' - 30' | | 3' - 4' | | 8' - 10' | |
| | Laboratory ID: | Eastern USA | | K9229-2 | | K9229-4 | | K9229-1 | | K9267-5 | | K9267-7 | |
| | Sampling Date: | Background | | 05/29/2001 | | 05/29/2001 | | 05/29/2001 | | 06/19/2001 | | 06/19/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 15.9 | U | 16 | U | 8.39 | U | 7.78 | U | 8.45 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 19.4 | U | 19.5 | U | 10.2 | U | 9.47 | U | 10.3 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 13.8 | U | 13.9 | U | 7.29 | U | 6.76 | U | 7.34 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 17.3 | U | 17.4 | U | 9.12 | U | 8.46 | U | 9.19 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 21.6 | U | 21.7 | U | 11.4 | U | 10.5 | U | 11.5 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 12.9 | U | 13 | U | 6.81 | U | 6.32 | U | 6.86 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 13 | U | 13.1 | U | 6.86 | U | 6.36 | U | 6.91 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.36 | U | 128 | U | 0.38 | U | 0.42 | U | 156 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.31 | U | 98.2 | U | 0.33 | U | 0.2 | U | 137 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.36 | U | 128 | U | 0.38 | U | 0.23 | U | 31.8 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.36 | U | 101 | U | 0.38 | U | 0.39 | U | 194 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 1.7 | B | 55.9 | U | 1.8 | B | 12.2 | B | 947 | B |
| 67-64-1 | Acetone | 200 | µg/kg | 88.2 | | 347 | U | 185 | B | 5.85 | U | 992 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 21.2 | | 102 | | 1.3 | | 0.23 | U | 63.6 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 0.99 | U | 33.2 | U | 1.05 | U | 0.37 | U | 95.4 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.29 | U | 37.8 | U | 0.3 | U | 0.18 | U | 70 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.33 | U | 42.3 | U | 0.35 | U | 0.18 | U | 63.6 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.24 | U | 27.2 | U | 0.25 | U | 0.2 | U | 66.8 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.2 | U | 33.2 | U | 0.21 | U | 0.19 | U | 63.6 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.14 | U | 24.2 | U | 0.15 | U | 0.26 | U | 73.1 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 7.9 | | 2600 | U | 1.3 | J | 4.77 | U | 1590 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.71 | U | 21.1 | U | 0.76 | U | 0.16 | U | 70 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.29 | U | 15.1 | U | 0.3 | U | 0.25 | U | 79.5 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.17 | U | 24.2 | U | 0.18 | U | 0.21 | U | 47.7 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.31 | U | 21.1 | U | 0.33 | U | 0.16 | U | 114 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.32 | U | 33.2 | U | 0.34 | U | 0.21 | U | 50.9 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 0.25 | U | 25.7 | U | 0.26 | U | 0.23 | U | 50.9 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 1.05 | U | 25.7 | U | 1.11 | U | 0.28 | U | 35 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.36 | U | 28.7 | U | 0.38 | U | 0.22 | U | 28.6 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 12.6 | | 25.7 | U | 0.2 | U | 6.7 | | 565 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.32 | U | 21.1 | U | 0.34 | U | 0.26 | U | 25.4 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.35 | U | 40.8 | U | 0.37 | U | 0.28 | U | 31.8 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 5.95 | U | 1360 | U | 6.3 | U | 5.85 | U | 1590 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 5.95 | U | 755 | U | 6.3 | U | 5.85 | U | 1590 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.12 | U | 18.1 | U | 0.13 | U | 0.21 | U | 76.3 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 51.2 | | 21.1 | U | 1.3 | | 4.9 | | 1110 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.48 | U | 22.6 | U | 0.5 | U | 0.23 | U | 50.9 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 0.21 | U | 28.7 | U | 0.23 | U | 0.15 | U | 47.7 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | **7930** | | 411 | | 2.2 | | 8.9 | | **103000** | |
| 100-42-5 | Styrene | NA * | µg/kg | 0.12 | U | 289 | | 0.13 | U | 0.21 | U | 54.1 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | **3000** | | 331 | | 1.8 | | 3.5 | | **59300** | |
| 95-47-6 | o-xylene | 1200 | µg/kg | **3890** | | 268 | | 0.19 | U | 1.9 | | **31500** | |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **14883.8** | | **1010** | | **5.3** | | **25.9** | | **195475** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 23.7 | U | 239 | U | 25 | U | 69.7 | U | 75.7 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 30.7 | U | 310 | U | 32.4 | U | 90.3 | U | 98.1 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 28.9 | U | 291 | U | 30.5 | U | 84.8 | U | 92.1 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 31.5 | U | 318 | U | 33.2 | U | 92.5 | U | 101 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 29.9 | U | 302 | U | 31.6 | U | 88 | U | 95.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 33.8 | U | 341 | U | 35.6 | U | 99.2 | U | 108 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 30.3 | U | 305 | U | 31.9 | U | 88.9 | U | 96.6 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 31.9 | U | 322 | U | 33.7 | U | 93.8 | U | 102 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 30.3 | U | 306 | U | 32 | U | 91.2 | | 96.7 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 27.9 | U | 282 | U | 29.5 | U | 82 | U | 89.1 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 26.8 | U | 271 | U | 28.3 | U | 78.8 | U | 85.6 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 33.4 | U | 337 | U | 35.2 | U | 98 | U | 2660 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 27.2 | U | 274 | U | 28.7 | U | 79.9 | U | 2170 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 25.3 | U | 255 | U | 26.7 | U | 74.4 | U | 2020 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 23.7 | U | 239 | U | 25 | U | 69.6 | U | 1890 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 31.1 | U | 314 | U | 32.8 | U | 91.3 | U | 2480 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 28 | U | 282 | U | 29.5 | U | 82.2 | U | 2230 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 34.1 | U | 344 | U | 36 | U | 100 | U | 2720 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 16.9 | U | 171 | U | 17.9 | U | 49.7 | U | 1350 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 31.9 | U | 322 | U | 33.7 | U | 93.8 | U | 2550 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 32.9 | U | 331 | U | 34.7 | U | 96.5 | U | 2620 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 14.1 | U | 143 | U | 14.9 | U | 41.5 | U | 45.1 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04270-002 | | 01-04270-004 | | 01-04270-001 | | 01-04362-005 | | 01-04362-007 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-5 | | SB-5 | | SB-5 | | SB-6 | | SB-6 | |
| | Depth: | Objectives / | | 15' - 16' | | 27' - 28' | | 29' - 30' | | 3' - 4' | | 8' - 10' | |
| | Laboratory ID: | Eastern USA | | K9229-2 | | K9229-4 | | K9229-1 | | K9267-5 | | K9267-7 | |
| | Sampling Date: | Background | | 05/29/2001 | | 05/29/2001 | | 05/29/2001 | | 06/19/2001 | | 06/19/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 28.1 | U | 284 | U | 29.7 | U | 82.6 | U | 89.7 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 25 | U | 253 | U | 26.4 | U | 73.6 | U | 79.9 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 32.7 | U | 329 | U | 34.5 | U | 95.9 | U | 104 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 24.5 | U | 247 | U | 25.9 | U | 72 | U | 78.3 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 32.6 | U | 329 | U | 34.4 | U | 95.8 | U | 104 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 24.2 | U | 244 | U | 25.6 | U | 71.1 | U | 77.3 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 15.6 | U | 157 | U | 16.5 | U | 45.8 | U | 49.8 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 23.1 | U | 233 | U | 24.4 | U | 68 | U | 73.8 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 52 | U | 524 | U | 54.8 | U | 153 | U | 166 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 33.6 | U | **7940** | | 35.4 | U | 78.4 | J | 2370 | |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 22.1 | U | 223 | U | 23.4 | U | 65 | U | 70.6 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 21.4 | U | 216 | U | 8.8 | J | 62.9 | U | 68.4 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 38.6 | U | 389 | U | 40.7 | U | 113 | U | 123 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 18 | U | 182 | U | 19 | U | 52.9 | U | 57.4 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 30.4 | U | 306 | U | 32.1 | U | 89.2 | U | 96.9 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 32 | U | 322 | U | 33.8 | U | 93.9 | U | 102 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 29.1 | U | 294 | U | 30.8 | U | 85.6 | U | 93 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 28.6 | U | 288 | U | 30.2 | U | 84 | U | 91.2 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 19.4 | U | 196 | U | 20.5 | U | 57.1 | U | 62 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 62.9 | | 229 | U | 24 | U | 52.6 | J | 1130 | |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 86 | U | 867 | U | 90.8 | U | 253 | U | 274 | U |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 19 | U | 192 | U | 20.1 | U | 55.9 | U | 60.7 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 33 | U | 333 | U | 34.8 | U | 96.8 | U | 105 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 45 | J | 1310 | U | 45.8 | J | 339 | J | 624 | |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 24.5 | U | 247 | U | 25.9 | U | 72 | U | 1960 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 9540 | | **113000** | | 42 | | 243 | | 49400 | |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 1100 | | 14400 | | 78.2 | | 2750 | | 7130 | |
| 120-12-7 | Anthracene | 50000* | µg/kg | 3380 | | 37200 | | 223 | | 905 | | 33800 | |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 378 | | 7930 | | 75.2 | | 1720 | | 7530 | |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 2950 | | **76300** | | 449 | | 1180 | | 43000 | |
| 86-73-7 | Fluorene | 50000* | µg/kg | 3720 | | **72100** | | 104 | | 329 | | 29000 | |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 14500 | | **210000** | | 14.3 | J | 1300 | | **172000** | |
| 91-20-3 | Naphthalene | 13000 | µg/kg | **15800** | | **96500** | | 21.9 | J | 9200 | | **1010000** | |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 16900 | | **192000** | | 71.9 | | 1280 | | **96800** | |
| 129-00-0 | Pyrene | 50000* | µg/kg | 7320 | | **90700** | | 590 | | 2220 | | **59000** | |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 75588 | | 910130 | | 1669.5 | | 21127 | | 1507660 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | **2900** | | **33300** | | 223 | | **1260** | | **23900** | |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | **1150** | | **19600** | | 138 | | **3560** | | **8200** | |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 699 | | **13600** | | 44.1 | | **3320** | | **12200** | |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **1520** | | **26700** | | 166 | | **4500** | | **17600** | |
| 218-01-9 | Chrysene | 400 | µg/kg | **3160** | | **31100** | | 203 | | **1960** | | **21500** | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 366 | | **7090** | | 59.3 | | **1700** | | **6510** | |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | **178** | | **2510** | | **22.7** | J | **578** | | **2480** | |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 9973 | | 133900 | | 856.1 | | 16878 | | 92390 | |
| | **Total PAHs** | | | **85561** | | **1044030** | | **2525.6** | | **38005** | | **1600050** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 3980 | | 2440 | | 6950 | | 4760 | | 6960 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.25 | | 0.22 | U | 0.2 | J | 0.33 | | 0.23 | U |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.29 | U | 0.29 | U | 0.3 | U | 1.67 | | 0.095 | J |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 32.6 | | 21.2 | | 96.3 | | 79 | | 64.2 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.072 | U | 0.072 | U | 0.076 | U | 0.07 | U | 0.076 | U |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.072 | U | 0.072 | U | 0.076 | U | 0.19 | | 0.032 | J |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 1360 | | 8220 | | 13400 | | 3160 | | 2770 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | **10.6** | | 7.92 | | **16.7** | | 9.95 | | **12.4** | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 4.84 | | 3.39 | | 7.12 | | 4.61 | | 5.86 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 8.45 | | 8.34 | | 16.2 | | 23.4 | | 21.8 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **7780** | | **6770** | | **12400** | | **9350** | | **14600** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 1.77 | | 1.75 | | 2.86 | | 421 | | 93 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | 2760 | | **5990** | | **10800** | | 3030 | | 3160 | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 63.5 | | 64.9 | | 176 | | 92.6 | | 238 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.01 | U | 0.00063 | J | 0.0015 | J | **0.2** | | 0.059 | |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 7.7 | | 6.01 | | 12 | | 9.4 | | 11.2 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 1400 | | 959 | | 3680 | | 938 | | 1080 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.28 | U | 0.28 | U | 0.3 | U | 0.27 | U | 0.3 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04270-002 | | 01-04270-004 | | 01-04270-001 | | 01-04362-005 | | 01-04362-007 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-5 | | SB-5 | | SB-5 | | SB-6 | | SB-6 | |
| | Depth: | Objectives / | | 15' - 16' | | 27' - 28' | | 29' - 30' | | 3' - 4' | | 8' - 10' | |
| | Laboratory ID: | Eastern USA | | K9229-2 | | K9229-4 | | K9229-1 | | K9267-5 | | K9267-7 | |
| | Sampling Date: | Background | | 05/29/2001 | | 05/29/2001 | | 05/29/2001 | | 06/19/2001 | | 06/19/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.09 | U | 0.09 | U | 0.095 | U | 0.088 | U | 0.095 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 283 | | 195 | | 210 | | 312 | | 420 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.23 | U | 0.23 | U | 0.25 | U | 0.23 | U | 0.25 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 12.5 | | 8.67 | | 21.4 | | 12 | | 18.6 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **22** | | 13.1 | | **39.2** | | **122** | | **78.4** | |
| 57-12-5 | Cyanide | | mg/kg | 0.26 | U | 0.064 | J | 0.28 | U | 0.3 | U | 0.26 | U |
| | % Solids | | % | 83.7 | | 83 | | 79.3 | | 85.5 | | 78.7 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04362-008 | | 01-04362-006 | | 00-07914-001 | | 00-07914-005 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-6 | | SB-6 | | SB-7 | | SB-7 | |
| | Depth: | Objectives / | | 12' - 14' | | 34' - 36' | | 2'-4' | | 17'-17.4' | |
| | Laboratory ID: | Eastern USA | | K9267-8 | | K9267-6 | | J9482-1 | | J9482-5 | |
| | Sampling Date: | Background | | 06/19/2001 | | 06/19/2001 | | 08/16/2000 | | 08/16/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | |
| | **PCBs** | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 9.47 | U | 8.08 | U | 3.03 | U | 2.48 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 11.5 | U | 9.84 | U | 14.2 | U | 11.7 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 8.23 | U | 7.02 | U | 3.16 | U | 2.59 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 10.3 | U | 8.78 | U | 2.37 | U | 1.95 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 12.8 | U | 11 | U | 5.34 | U | 4.38 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 7.69 | U | 6.56 | U | 8.09 | U | 6.63 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 7.75 | U | 6.61 | U | 9.29 | U | 7.62 | U |
| | **Volatiles** | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 2.56 | U | 0.44 | U | 0.5 | U | 54.7 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 1.21 | U | 0.21 | U | 0.58 | U | 38 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 1.42 | U | 0.24 | U | 0.5 | U | 53.2 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 2.35 | U | 0.4 | U | 0.28 | U | 50.2 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 1.57 | U | 12 | B | 0.8 | U | 30.4 | U |
| 67-64-1 | Acetone | 200 | µg/kg | **360** | | 98.1 | | 6.42 | U | 287 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 15.1 | | 0.24 | U | 0.4 | U | 22.8 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 2.28 | U | 0.39 | U | 0.31 | U | 31.9 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 1.07 | U | 0.18 | U | 0.24 | U | 21.3 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 1.07 | U | 0.18 | U | 0.61 | U | 41 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 1.21 | U | 0.21 | U | 0.74 | U | 28.9 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 1.14 | U | 0.2 | U | 0.25 | U | 19.8 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 1.57 | U | 0.27 | U | 0.44 | U | 24.3 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 29 | U | 4.98 | U | 3.71 | U | 155 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 1 | U | 0.17 | U | 0.41 | U | 16.7 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 1.5 | U | 0.26 | U | 0.4 | U | 27.4 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 1.28 | U | 0.22 | U | 0.28 | U | 27.4 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 1 | U | 0.17 | U | 0.27 | U | 24.3 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 1.28 | U | 0.22 | U | 0.37 | U | 27.4 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 1.42 | U | 0.24 | U | 0.44 | U | 25.8 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 1.71 | U | 0.29 | U | 0.43 | U | 12.2 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 1.35 | U | 0.23 | U | 0.7 | U | 47.1 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 376 | | 0.17 | U | 5.3 | | 21.3 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 1.57 | U | 0.27 | U | 0.61 | U | 27.4 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 1.71 | U | 0.29 | U | 0.71 | U | 18.2 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 35.6 | U | 6.1 | U | 2.19 | U | 77.5 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 35.6 | U | 6.1 | U | 2.29 | U | 135 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 1.28 | U | 0.22 | U | 0.41 | U | 12.2 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 1040 | | 0.24 | U | 1.8 | | 24.3 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 1.42 | U | 0.24 | U | 0.74 | U | 19.8 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 0.93 | U | 0.16 | U | 0.43 | U | 10.6 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | **272000** | | 5.3 | | 0.5 | U | **8250** | |
| 100-42-5 | Styrene | NA * | µg/kg | 1.28 | U | 0.22 | U | 0.43 | U | 12.2 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | **210000** | | 3.5 | | 0.93 | U | **4070** | |
| 95-47-6 | o-xylene | 1200 | µg/kg | **44100** | | 1.3 | | 0.41 | U | **2090** | |
| | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **527516** | | **10.1** | | **7.1** | | **14410** | |
| | **Semi-Volatiles** | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 84.9 | U | 72.4 | U | 1550 | U | 119 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 110 | U | 93.8 | U | 2010 | U | 115 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 103 | U | 88.1 | U | 1880 | U | 117 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 113 | U | 96.1 | U | 2060 | U | 125 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 107 | U | 91.4 | U | 1960 | U | 122 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 121 | U | 103 | U | 2200 | U | 123 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 108 | U | 92.3 | U | 1980 | U | 101 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 114 | U | 97.5 | U | 2090 | U | 132 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 108 | U | 92.5 | U | 1980 | U | 98.1 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 99.9 | U | 85.2 | U | 1820 | U | 119 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 96 | U | 81.9 | U | 1750 | U | 126 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 119 | U | 102 | U | 2180 | U | 138 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 97.3 | U | 83 | U | 1780 | U | 126 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 90.6 | U | 77.3 | U | 1650 | U | 95.6 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 84.8 | U | 72.3 | U | 1550 | U | 57.8 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 111 | U | 94.9 | U | 2030 | U | 116 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 100 | U | 85.4 | U | 1830 | U | 100 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 122 | U | 104 | U | 2230 | U | 121 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 60.5 | U | 51.6 | U | 1100 | U | 126 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 114 | U | 97.5 | U | 2090 | U | 122 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 118 | U | 100 | U | 2140 | U | 97.8 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 50.6 | U | 43.1 | U | 923 | U | 102 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04362-008 | | 01-04362-006 | | 00-07914-001 | | 00-07914-005 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-6 | | SB-6 | | SB-7 | | SB-7 | |
| | Depth: | Objectives / | | 12' - 14' | | 34' - 36' | | 2'-4' | | 17'-17.4' | |
| | Laboratory ID: | Eastern USA | | K9267-8 | | K9267-6 | | J9482-1 | | J9482-5 | |
| | Sampling Date: | Background | | 06/19/2001 | | 06/19/2001 | | 08/16/2000 | | 08/16/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 101 | U | 85.8 | U | 1840 | U | 96.6 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 89.6 | U | 76.4 | U | 1640 | U | 93.1 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 117 | U | 99.6 | U | 2130 | U | 111 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 87.7 | U | 74.9 | U | 1600 | U | 87.6 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 117 | U | 99.5 | U | 2130 | U | 107 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 86.6 | U | 73.9 | U | 1580 | U | 98.5 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 55.8 | U | 47.6 | U | 1020 | U | 94.1 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 82.8 | U | 70.6 | U | 1510 | U | 112 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 186 | U | 159 | U | 3390 | U | 72.7 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 1250 | | 102 | U | 2190 | U | 268 | |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 79.2 | U | 67.6 | U | 1450 | U | 93.5 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 76.6 | U | 65.4 | U | 1400 | U | 68.4 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 138 | U | 118 | U | 2520 | U | 108 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 64.4 | U | 54.9 | U | 1180 | U | 82.2 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 109 | U | 92.7 | U | 1980 | U | 104 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 114 | U | 97.6 | U | 2090 | U | 97.7 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 104 | U | 88.9 | U | 1900 | U | 98.9 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 102 | U | 87.2 | U | 1870 | U | 109 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 69.5 | U | 59.3 | U | 1270 | U | 73.6 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 440 | | 69.4 | U | 1480 | U | 245 | U |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 308 | U | 38.9 | J | 5620 | U | 85.2 | JB |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 68.1 | U | 58.1 | U | 1240 | U | 73 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 118 | U | 101 | U | 2150 | U | 237 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 316 | J | 119 | J | 8460 | U | 46.2 | J |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 87.7 | U | 74.9 | U | 1600 | U | 65.6 | U |
| | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 13500 | | 27.9 | J | 2250 | U | 8620 | |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 4380 | | 97.7 | U | 10100 | | 1740 | |
| 120-12-7 | Anthracene | 50000* | µg/kg | 10000 | | 87.2 | U | 2700 | | 5040 | |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 1990 | | 64.4 | U | 9890 | | 845 | |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 11700 | | 65.6 | J | 2990 | | 5930 | |
| 86-73-7 | Fluorene | 50000* | µg/kg | 9640 | | 107 | U | 2280 | U | 4600 | |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | **91800** | | 30.4 | J | 1840 | | 16300 | |
| 91-20-3 | Naphthalene | 13000 | µg/kg | **589000** | | 130 | | 3660 | | **37400** | |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | **53500** | | 82.6 | J | 2780 | | 16900 | |
| 129-00-0 | Pyrene | 50000* | µg/kg | 30500 | | 80.2 | | 6600 | | 7470 | |
| | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 816010 | | 416.7 | | 40560 | | 104845 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | **8360** | | 40.1 | J | **4360** | | **3320** | |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | **3580** | | 24.3 | J | **12900** | | **1450** | |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | **4230** | | 29.2 | J | **10300** | | **1920** | |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **6340** | | 30.4 | J | **12000** | | **3020** | |
| 218-01-9 | Chrysene | 400 | µg/kg | **7780** | | 37.7 | J | **6960** | | **3050** | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | **1870** | | 77.3 | U | **9480** | | 753 | |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | **679** | | 72.7 | U | **6260** | | **258** | |
| | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 32839 | | 161.7 | | 62260 | | 13771 | |
| | **Total PAHs** | | | **848849** | | **578.4** | | **102820** | | **118616** | |
| | **Metals** | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 6160 | | 4510 | | 10300 | | 3070 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.33 | | 0.24 | | 5.12 | | 2.99 | |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.34 | U | 0.29 | U | **13.3** | | 0.17 | J |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 47 | | 65.5 | | 76.1 | | 31.5 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.085 | U | 0.073 | U | **0.45** | | **0.26** | |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.085 | U | 0.073 | U | **2.71** | | 0.96 | |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 1880 | | 15700 | | 6640 | | 874 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | **10.6** | | 9.81 | | **35.5** | | 7.34 | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 4.85 | | 5.47 | | 6.67 | | 3.2 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 7.67 | | 13.7 | | **78.4** | | 8.45 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **9590** | | **8220** | | **25900** | | **9470** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 29.5 | | 2.38 | | 186 | | 1.1 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | 2430 | | **9900** | | **6640** | | 1570 | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 133 | | 105 | | 109 | | 63.7 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | **0.14** | | 0.0096 | J | **0.25** | | 0.011 | U |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 7.24 | | 8.96 | | 13 | | 5.36 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 596 | | 2650 | | 1950 | | 1040 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.33 | U | 0.29 | U | **2.71** | | 0.95 | |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04362-008 | | 01-04362-006 | | 00-07914-001 | | 00-07914-005 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-6 | | SB-6 | | SB-7 | | SB-7 | |
| | Depth: | Objectives / | | 12' - 14' | | 34' - 36' | | 2'-4' | | 17'-17.4' | |
| | Laboratory ID: | Eastern USA | | K9267-8 | | K9267-6 | | J9482-1 | | J9482-5 | |
| | Sampling Date: | Background | | 06/19/2001 | | 06/19/2001 | | 08/16/2000 | | 08/16/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.11 | U | 0.091 | U | 0.24 | J | 0.23 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 414 | | 111 | | 148 | U | 337 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.28 | U | 0.24 | U | 0.27 | U | 0.22 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 14.9 | | 12.5 | | 33.6 | | 9.2 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **37.1** | | **24.6** | | **57.5** | | **23** | |
| 57-12-5 | Cyanide | | mg/kg | 0.22 | | 0.3 | U | 2.98 | | 0.5 | |
| | % Solids | | % | 70.2 | | 82.3 | | 67.4 | | 82.2 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-07914-006 | | 01-04230-002 | | 01-04230-001 | | 01-04230-003 | | 01-04270-005 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-7 | | SB-8 | | SB-8 | | SB-8 | | SB-9 | |
| | Depth: | Objectives / | | 36'-39' | | 2-3' | | 10-11' | | 46-48' | | 2' - 4' | |
| | Laboratory ID: | Eastern USA | | J9482-6 | | | | | | | | K9229-5 | |
| | Sampling Date: | Background | | 08/16/2000 | | 37032 | | 37032 | | 37032 | | 05/30/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 2.48 | U | <36 | U | <42 | U | <36 | U | 7.45 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 11.7 | U | <74 | U | <86 | U | <74 | U | 9.07 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 2.59 | U | <36 | U | <42 | U | <36 | U | 6.47 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 1.95 | U | <36 | U | <42 | U | <36 | U | 8.1 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 4.38 | U | <36 | U | <42 | U | <36 | U | 10.1 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 6.64 | U | <36 | U | <42 | U | <36 | U | 6.05 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 7.62 | U | <36 | U | <42 | U | <36 | U | 6.09 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.41 | U | <11 | U | <1500 | U | <10 | U | 0.34 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.48 | U | <11 | U | <1500 | U | <10 | U | 0.29 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.41 | U | <11 | U | <1500 | U | <10 | U | 0.34 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.23 | U | <11 | U | <1500 | U | <10 | U | 0.34 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 0.66 | U | 2 | JB | <1500 | U | 1 | JB | 11 | B |
| 67-64-1 | Acetone | 200 | µg/kg | 5.29 | U | 5 | JB | <1500 | U | 6 | JB | 42.2 | B |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 0.33 | U | <11 | U | <1500 | U | <10 | U | 2.8 | |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 0.26 | U | <11 | U | <1500 | U | <10 | U | 0.93 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.2 | U | <11 | U | <1500 | U | <10 | U | 0.27 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.5 | U | <11 | U | <1500 | U | <10 | U | 0.31 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.61 | U | <11 | U | <1500 | U | <10 | U | 0.22 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.21 | U | <11 | U | <1500 | U | <10 | U | 0.19 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.37 | U | <11 | U | <1500 | U | <10 | U | 0.13 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 3.06 | U | <11 | U | <1500 | U | <10 | U | 5.6 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.34 | U | <11 | U | <1500 | U | <10 | U | 0.67 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.33 | U | <11 | U | <1500 | U | <10 | U | 0.27 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.23 | U | <11 | U | <1500 | U | <10 | U | 0.16 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.22 | U | <11 | U | <1500 | U | <10 | U | 0.29 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.3 | U | <11 | U | <1500 | U | <10 | U | 0.3 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 0.37 | U | <11 | U | <1500 | U | <10 | U | 1.5 | |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.35 | U | <11 | U | <1500 | U | <10 | U | 0.99 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.57 | U | <11 | U | 1100 | J | <10 | U | 0.34 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 0.34 | U | <11 | U | <1500 | U | <10 | U | 28.1 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.5 | U | <11 | U | <1500 | U | <10 | U | 0.3 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.59 | U | <11 | U | <1500 | U | <10 | U | 0.32 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 1.81 | U | <11 | U | <1500 | U | <10 | U | 5.6 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 1.89 | U | <11 | U | <1500 | U | <10 | U | 5.6 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.34 | U | <11 | U | <1500 | U | <10 | U | 0.11 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 0.4 | U | <11 | U | <1500 | U | <10 | U | 4.8 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.61 | U | <11 | U | <1500 | U | <10 | U | 0.45 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 0.35 | U | <11 | U | <1500 | U | <10 | U | 0.2 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 0.41 | U | <11 | U | **20000** | | <10 | U | 3.3 | |
| 100-42-5 | Styrene | NA * | µg/kg | 0.35 | U | <11 | U | <1500 | U | <10 | U | 0.11 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 0.77 | U | <11 | U | **48000** | | <10 | U | 4.1 | |
| 95-47-6 | o-xylene | 1200 | µg/kg | 0.34 | U | <11 | U | **1500** | J | <10 | U | 2.4 | |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **0** | | **0** | | **69500** | | **0** | | **42.7** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 119 | U | <370 | U | <4300 | U | <360 | U | 222 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 115 | U | <370 | U | <4300 | U | <360 | U | 288 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 117 | U | <370 | U | <4300 | U | <360 | U | 271 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 125 | U | <370 | U | <4300 | U | <360 | U | 295 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 122 | U | <370 | U | <4300 | U | <360 | U | 281 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 123 | U | <370 | U | <4300 | U | <360 | U | 317 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 101 | U | <370 | U | <4300 | U | <360 | U | 284 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 132 | U | <370 | U | <4300 | U | <360 | U | 299 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 98.1 | U | <370 | U | <4300 | U | <360 | U | 284 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 119 | U | <370 | U | <4300 | U | <360 | U | 262 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 126 | U | <370 | U | <4300 | U | <360 | U | 252 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 138 | U | <370 | U | <4300 | U | <360 | U | 313 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 126 | U | <370 | U | <4300 | U | <360 | U | 255 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 95.6 | U | <370 | U | <4300 | U | <360 | U | 237 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 57.8 | U | <370 | U | <4300 | U | <360 | U | 222 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 116 | U | <370 | U | <4300 | U | <360 | U | 292 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 100 | U | <370 | U | <4300 | U | <360 | U | 262 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 121 | U | <370 | U | <4300 | U | <360 | U | 320 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 126 | U | <370 | U | <4300 | U | <360 | U | 159 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 122 | U | <370 | U | <4300 | U | <360 | U | 299 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 97.8 | U | <370 | U | <4300 | U | <360 | U | 308 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 102 | U | <370 | U | <4300 | U | <360 | U | 133 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-07914-006 | | 01-04230-002 | | 01-04230-001 | | 01-04230-003 | | 01-04270-005 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-7 | | SB-8 | | SB-8 | | SB-8 | | SB-9 | |
| | Depth: | Objectives / | | 36'-39' | | 2-3' | | 10-11' | | 46-48' | | 2' - 4' | |
| | Laboratory ID: | Eastern USA | | J9482-6 | | | | | | | | K9229-5 | |
| | Sampling Date: | Background | | 08/16/2000 | | 37032 | | 37032 | | 37032 | | 05/30/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 96.6 | U | <370 | U | <4300 | U | <360 | U | 264 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 93.1 | U | <910 | U | <11000 | U | <890 | U | 235 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 111 | U | <370 | U | <4300 | U | <360 | U | 306 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 87.6 | U | <910 | U | <11000 | U | <890 | U | 230 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 107 | U | <370 | U | <4300 | U | <360 | U | 306 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 98.5 | U | <370 | U | <11000 | U | <360 | U | 227 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 94.1 | U | <910 | U | <4300 | U | <890 | U | 146 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 112 | U | <910 | U | <4300 | U | <890 | U | 217 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 72.7 | U | <910 | U | <11000 | U | <890 | U | 487 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 106 | U | 180 | J | <4300 | U | <360 | U | 153 | J |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 93.5 | U | <370 | U | <4300 | U | <360 | U | 208 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 68.4 | U | <370 | U | <4300 | U | <360 | U | 201 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 108 | U | <370 | U | <4300 | U | <360 | U | 362 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 82.2 | U | <910 | U | <11000 | U | <890 | U | 169 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 104 | U | <910 | U | <11000 | U | <890 | U | 285 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 97.7 | U | <370 | U | <4300 | U | <360 | U | 300 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 98.9 | U | <370 | U | <4300 | U | <360 | U | 273 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 109 | U | <370 | U | <4300 | U | <360 | U | 268 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 73.6 | U | <910 | U | <11000 | U | <890 | U | 182 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 245 | U | 130 | J | <4300 | U | <360 | U | 213 | U |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 71.9 | JB | <370 | U | <4300 | U | <360 | U | 74.7 | J |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 73 | U | <370 | U | <4300 | U | <360 | U | 178 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 237 | U | <370 | U | <4300 | U | <360 | U | 309 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 36.5 | J | 1100 | | 260 | JD | 90 | J | 284 | J |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 65.6 | U | 370 | U | <4300 | U | <360 | U | 230 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 105 | U | 330 | J | <4300 | U | <360 | U | 1630 | |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 111 | U | 3400 | E | <4300 | U | <360 | U | 3630 | |
| 120-12-7 | Anthracene | 50000* | µg/kg | 56 | J | 4400 | E | <4300 | U | <360 | U | 1400 | |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 47.8 | U | 1700 | | <4300 | U | <360 | U | 2670 | |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 104 | | 13000 | E | <4300 | U | <360 | U | 1780 | |
| 86-73-7 | Fluorene | 50000* | µg/kg | 103 | U | 1200 | | <4300 | U | <360 | U | 1240 | |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 98.3 | U | 1500 | | 3900 | JD | <360 | U | 3090 | |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 115 | U | 2800 | | **27000** | | <360 | U | 1490 | |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 179 | | 9500 | E | 260 | JD | <360 | U | 3090 | |
| 129-00-0 | Pyrene | 50000* | µg/kg | 135 | | 25000 | E | <4300 | U | <360 | U | 3200 | |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 474 | | 62830 | | 31160 | | 0 | | 23220 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | 53.6 | J | **7600** | E | <4300 | U | <360 | U | **2160** | |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 51.2 | U | **11000** | E | <4300 | U | <360 | U | **4390** | |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 76.7 | U | **6200** | E | <4300 | U | <360 | U | **2180** | |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | 57.1 | U | **7400** | E | <4300 | U | <360 | U | **5700** | |
| 218-01-9 | Chrysene | 400 | µg/kg | 48.7 | J | **7600** | E | <4300 | U | <360 | U | **2800** | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 49.9 | U | **4400** | E | <4300 | U | <360 | U | 2310 | |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | 50.1 | U | **1500** | | <4300 | U | <360 | U | **810** | |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 102.3 | | 45700 | | 0 | | 0 | | 20350 | |
| | **Total PAHs** | | | **576.3** | | **108530** | | **31160** | | **0** | | **43570** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 3180 | | 6810 | | 14800 | | 5150 | | 2460 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.62 | U | <0.48 | U | <0.48 | U | 0.45 | | 0.2 | U |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.37 | J | 5.6 | | 3.23 | | 0.5 | | 1.66 | |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 46.8 | | 100 | | 88.9 | | 96.1 | | 20.3 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | **0.24** | | **0.17** | | **0.51** | | <0.11 | U | 0.067 | U |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.72 | | <0.11 | U | <0.12 | U | <0.11 | U | 0.0056 | J |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 16400 | | 10400 | | 1860 | | 11900 | | 9100 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 7.82 | | **15.3** | | **27.2** | | **18.2** | | 4.44 | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 4.11 | | 6.4 | | 14.2 | | 6.73 | | 2.22 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 12.1 | | **46.4** | | 9.16 | | 18.2 | | 11.2 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **7450** | | **21400** | | **36100** | | **13400** | | **4420** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 0.16 | U | 190 | | 9.18 | | 2 | | 45.6 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | **9480** | | **5330** | | 3960 | | **8870** | | **5150** | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 241 | | 186 | | 1182 | | 121 | | 72.9 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.011 | U | **0.73** | | 0.087 | | <0.036 | U | **0.18** | |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 6.77 | | 11.9 | | **15.3** | | 11.9 | | 3.93 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 1940 | | 1510 | | 496 | | 2970 | | 557 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.22 | U | **3.2** | | **3.3** | | <0.95 | U | 0.26 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-07914-006 | | 01-04230-002 | | 01-04230-001 | | 01-04230-003 | | 01-04270-005 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-7 | | SB-8 | | SB-8 | | SB-8 | | SB-9 | |
| | Depth: | Objectives / | | 36'-39' | | 2-3' | | 10-11' | | 46-48' | | 2' - 4' | |
| | Laboratory ID: | Eastern USA | | J9482-6 | | | | | | | | K9229-5 | |
| | Sampling Date: | Background | | 08/16/2000 | | 37032 | | 37032 | | 37032 | | 05/30/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.76 | | <0.11 | U | <0.12 | U | <0.11 | U | 0.084 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 122 | U | 557 | | 1090 | | 120 | | 95.3 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.22 | U | 0.64 | | 0.4 | | 0.79 | | 0.22 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 11.2 | | 21.0 | | 48.2 | | 23.4 | | 4.19 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **21** | | **160** | | **67.7** | | **24.5** | | **35.1** | |
| 57-12-5 | Cyanide | | mg/kg | 0.32 | | 2.879 | | 0.326 | | 0.045 | | 1.74 | |
| | % Solids | | % | 82.1 | | 89.4 | | 77.5 | | 89.6 | | 89.3 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04270-006 | | 01-04270-007 | | 01-04270-008 | | 01-04388-001 | | 01-04388-002 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-9 | | SB-9 | | SB-9 | | SB-10 | | SB-10 | |
| | Depth: | Objectives / | | 9' - 10' | | 10' - 12' | | 40' - 44' | | 3' - 4' | | 12' - 14' | |
| | Laboratory ID: | Eastern USA | | K9229-6 | | K9229-7 | | K9229-8 | | K9286-1 | | K9286-2 | |
| | Sampling Date: | Background | | 05/30/2001 | | 05/30/2001 | | 05/30/2001 | | 06/26/2001 | | 06/26/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 7.46 | U | 9.1 | U | 7.1 | U | 7.42 | U | 7.98 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 9.08 | U | 11.1 | U | 8.64 | U | 9.04 | U | 9.72 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 6.48 | U | 7.91 | U | 6.17 | U | 6.45 | U | 6.94 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 8.11 | U | 9.89 | U | 7.72 | U | 8.07 | U | 8.68 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 10.1 | U | 12.3 | U | 9.63 | U | 10.1 | U | 10.8 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 6.05 | U | 7.39 | U | 5.76 | U | 6.03 | U | 6.48 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 6.1 | U | 7.44 | U | 5.81 | U | 6.07 | U | 6.53 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 238 | U | 1450 | U | 0.32 | U | 0.4 | U | 735 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 182 | U | 1110 | U | 0.28 | U | 0.19 | U | 645 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 238 | U | 1450 | U | 0.32 | U | 0.22 | U | 150 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 188 | U | 1150 | U | 0.32 | U | 0.37 | U | 916 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 104 | U | 3710 | B | 0.34 | U | 13.5 | B | 2480 | |
| 67-64-1 | Acetone | 200 | µg/kg | 644 | U | 3930 | U | 25.2 | | 5.6 | U | 4680 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 92.4 | U | 564 | U | 1.2 | | 1.6 | | 300 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 61.6 | U | 376 | U | 0.89 | U | 0.36 | U | 450 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 70 | U | 428 | U | 0.26 | U | 0.17 | U | 330 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 78.4 | U | 479 | U | 0.3 | U | 0.17 | U | 300 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 50.4 | U | 308 | U | 0.21 | U | 1.5 | | 315 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 61.6 | U | 376 | U | 0.18 | U | 0.18 | U | 300 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 44.8 | U | 274 | U | 0.13 | U | 0.25 | U | 345 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 4820 | U | 29400 | U | 5.35 | U | 4.57 | U | 7500 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 39.2 | U | 239 | U | 0.64 | U | 0.16 | U | 330 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 28 | U | 171 | U | 0.26 | U | 0.24 | U | 375 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 44.8 | U | 274 | U | 0.15 | U | 0.2 | U | 225 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 39.2 | U | 239 | U | 0.28 | U | 0.16 | U | 540 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 61.6 | U | 376 | U | 0.29 | U | 0.2 | U | 240 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 47.6 | U | 291 | U | 0.22 | U | 20 | | 240 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 47.6 | U | 291 | U | 0.94 | U | 0.27 | U | 165 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 53.2 | U | 325 | U | 0.32 | U | 0.21 | U | 135 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 303 | | 291 | U | 0.17 | U | 10.1 | | **1940** | |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 39.2 | U | 239 | U | 0.29 | U | 0.25 | U | 120 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 75.6 | U | 462 | U | 0.31 | U | 0.27 | U | 150 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 2520 | U | 15400 | U | 5.35 | U | 5.6 | U | 7500 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 1400 | U | 8550 | U | 5.35 | U | 5.6 | U | 7500 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 33.6 | U | 205 | U | 0.11 | U | 0.2 | U | 360 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 39.2 | U | **2020** | | 0.58 | | 5.9 | | **2750** | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 42 | U | 256 | U | 0.43 | U | 0.22 | U | 240 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 53.2 | U | 325 | U | 0.19 | U | 0.15 | U | 225 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | **16800** | | **134000** | | 1.5 | | 21.7 | | **258000** | |
| 100-42-5 | Styrene | NA * | µg/kg | 36.4 | U | 222 | U | 0.11 | U | 0.2 | U | 255 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | **10100** | | **166000** | | 1.7 | | 17.6 | | **230000** | |
| 95-47-6 | o-xylene | 1200 | µg/kg | **5130** | | **87400** | | 0.69 | | 7.5 | | **107000** | |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **32333** | | **389420** | | **4.47** | | **62.8** | | **599690** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 22.3 | U | 27.2 | U | 21.2 | U | 665 | U | 715 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 28.8 | U | 35.2 | U | 27.5 | U | 862 | U | 927 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 27.1 | U | 33.1 | U | 25.8 | U | 809 | U | 870 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 29.6 | U | 36.1 | U | 28.1 | U | 883 | U | 950 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 28.1 | U | 34.3 | U | 26.7 | U | 839 | U | 903 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 31.7 | U | 38.7 | U | 30.2 | U | 946 | U | 1020 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 28.4 | U | 34.7 | U | 27 | U | 848 | U | 912 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 30 | U | 36.6 | U | 28.5 | U | 895 | U | 963 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 28.4 | U | 34.7 | U | 27.1 | U | 849 | U | 914 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 26.2 | U | 32 | U | 24.9 | U | 782 | U | 842 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 25.2 | U | 30.7 | U | 24 | U | 752 | U | 809 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 626 | U | 38.2 | U | 29.8 | U | 935 | U | 1010 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 510 | U | 31.1 | U | 24.3 | U | 762 | U | 820 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 475 | U | 29 | U | 22.6 | U | 710 | U | 764 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 445 | U | 27.1 | U | 21.2 | U | 664 | U | 714 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 584 | U | 35.6 | U | 27.8 | U | 872 | U | 938 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 525 | U | 32.1 | U | 25 | U | 785 | U | 844 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 641 | U | 39.1 | U | 30.5 | U | 956 | U | 1030 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 318 | U | 19.4 | U | 15.1 | U | 474 | U | 510 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 599 | U | 36.6 | U | 28.5 | U | 895 | U | 963 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 617 | U | 37.6 | U | 29.3 | U | 921 | U | 990 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 13.3 | U | 16.2 | U | 12.6 | U | 396 | U | 426 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04270-006 | | 01-04270-007 | | 01-04270-008 | | 01-04388-001 | | 01-04388-002 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-9 | | SB-9 | | SB-9 | | SB-10 | | SB-10 | |
| | Depth: | Objectives / | | 9' - 10' | | 10' - 12' | | 40' - 44' | | 3' - 4' | | 12' - 14' | |
| | Laboratory ID: | Eastern USA | | K9229-6 | | K9229-7 | | K9229-8 | | K9286-1 | | K9286-2 | |
| | Sampling Date: | Background | | 05/30/2001 | | 05/30/2001 | | 05/30/2001 | | 06/26/2001 | | 06/26/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 26.4 | U | 32.2 | U | 25.1 | U | 788 | U | 848 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 23.5 | U | 28.7 | U | 22.4 | U | 702 | U | 755 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 30.6 | U | 37.4 | U | 29.2 | U | 915 | U | 984 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 23 | U | 28.1 | U | 21.9 | U | 688 | U | 740 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 30.6 | U | 37.3 | U | 29.1 | U | 914 | U | 983 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 22.7 | U | 27.7 | U | 21.6 | U | 679 | U | 730 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 14.6 | U | 17.9 | U | 13.9 | U | 438 | U | 471 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 21.7 | U | 26.5 | U | 20.7 | U | 648 | U | 697 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 48.8 | U | 59.5 | U | 46.4 | U | 1460 | U | 1570 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 81.8 | | 45.1 | | 30 | U | 312 | J | 3720 | |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 20.8 | U | 25.4 | U | 19.8 | U | 621 | U | 667 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 20.1 | U | 9.1 | J | 19.1 | U | 600 | U | 646 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 36.2 | U | 44.2 | U | 34.5 | U | 1080 | U | 1160 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 16.9 | U | 20.6 | U | 16.1 | U | 504 | U | 543 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 28.5 | U | 34.8 | U | 27.1 | U | 852 | U | 916 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 30 | U | 36.6 | U | 28.6 | U | 896 | U | 964 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 27.4 | U | 33.4 | U | 26 | U | 817 | U | 879 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 26.8 | U | 32.7 | U | 25.5 | U | 801 | U | 862 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 18.2 | U | 22.3 | U | 17.4 | U | 545 | U | 586 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 21.3 | J | 14.6 | J | 20.3 | U | NA | | NA | |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 44.8 | J | 43.8 | J | 29.5 | J | 2410 | U | 2590 | U |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 17.9 | U | 21.8 | U | 17 | U | 533 | U | 574 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 30.9 | U | 37.8 | U | 29.5 | U | 924 | U | 994 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 334 | | 340 | | 113 | J | 312 | JB | 3900 | U |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 32.1 | | 35.6 | | 21.9 | U | 688 | U | 740 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 326 | | 229 | | 30.7 | U | 257 | J | **160000** | |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 313 | | 143 | | 28.6 | U | 5190 | | 15600 | |
| 120-12-7 | Anthracene | 50000* | µg/kg | 361 | | 232 | | 25.5 | U | 2800 | | **65700** | |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 167 | | 81.2 | | 18.9 | U | 6430 | | 16000 | |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 622 | | 387 | | 22.6 | U | 7730 | | **81100** | |
| 86-73-7 | Fluorene | 50000* | µg/kg | 513 | | 318 | | 31.2 | U | 391 | J | **61600** | |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 19500 | | 8190 | | 9.3 | J | 614 | J | **254000** | |
| 91-20-3 | Naphthalene | 13000 | µg/kg | **71500** | | **30900** | | 35.6 | | 1940 | | **808000** | |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 1200 | | 793 | | 13.2 | J | 3500 | | **250000** | |
| 129-00-0 | Pyrene | 50000* | µg/kg | 775 | | 473 | | 18.7 | U | 12100 | | **111000** | |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 95277 | | 41746.2 | | 58.1 | | 40952 | | 1823000 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | **348** | | 194 | | 17.9 | U | 6140 | | **49300** | |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 266 | | 158 | | 29.2 | U | 7080 | | **19600** | |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 124 | | 69.3 | | 23.7 | U | 8250 | | **25800** | |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **290** | | **145** | | 19.4 | U | 8940 | | **38000** | |
| 218-01-9 | Chrysene | 400 | µg/kg | 343 | | 192 | | 17.8 | U | 7480 | | **43000** | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 140 | | 68.9 | | 22.6 | U | 5470 | | **13300** | |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | **43.3** | | **26.9** | J | 21.3 | U | **2250** | | **4110** | |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 1554.3 | | 854.1 | | 0 | | 45610 | | 193110 | |
| | **Total PAHs** | | | **96831.3** | | **42600.3** | | **58.1** | | **86562** | | **2016110** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 6450 | | 9210 | | 4940 | | 4370 | | 2950 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.095 | J | 0.25 | U | 0.31 | | 0.79 | | 0.22 | U |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.27 | U | 0.33 | U | 0.26 | U | 4.5 | | 0.29 | U |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 23.6 | | 58.6 | | 89.6 | | 75.9 | | 17.1 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.067 | U | 0.082 | U | 0.064 | U | 0.067 | U | 0.072 | U |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.067 | U | 0.082 | U | 0.064 | U | 0.3 | | 0.072 | U |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 838 | | 1350 | | 11200 | | 7490 | | 1190 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 8.35 | | **13.6** | | **16** | | 9.68 | | 5.37 | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 3.96 | | 5.68 | | 5.73 | | 4.27 | | 2.4 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 6.74 | | 7.76 | | 12.8 | | **36.4** | | 3.66 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **7660** | | **10500** | | **10100** | | **14000** | | **4950** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 7.11 | | 5.25 | | 2.18 | | 225 | | 2.39 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | 2200 | | 3160 | | **7260** | | 3840 | | 1380 | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 115 | | 292 | | 205 | | 139 | | 33.1 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.025 | | 0.037 | | 0.0093 | U | **0.84** | | 0.0089 | J |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 6.91 | | 9.12 | | 10.8 | | 8.15 | | 4.52 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 539 | | 772 | | 3510 | | 793 | | 602 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.26 | U | 0.32 | U | 0.25 | U | 0.26 | U | 0.28 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04270-006 | | 01-04270-007 | | 01-04270-008 | | 01-04388-001 | | 01-04388-002 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-9 | | SB-9 | | SB-9 | | SB-10 | | SB-10 | |
| | Depth: | Objectives / | | 9' - 10' | | 10' - 12' | | 40' - 44' | | 3' - 4' | | 12' - 14' | |
| | Laboratory ID: | Eastern USA | | K9229-6 | | K9229-7 | | K9229-8 | | K9286-1 | | K9286-2 | |
| | Sampling Date: | Background | | 05/30/2001 | | 05/30/2001 | | 05/30/2001 | | 06/26/2001 | | 06/26/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.084 | U | 0.1 | U | 0.08 | U | 0.084 | U | 0.09 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 153 | | 367 | | 116 | | 366 | | 415 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.22 | U | 0.27 | U | 0.21 | U | 0.22 | U | 0.23 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 10.7 | | 18.1 | | 18.5 | | 10.6 | | 5.7 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **27.7** | | **39.1** | | **25.2** | | **148** | | **20** | |
| 57-12-5 | Cyanide | | mg/kg | 0.37 | | 0.28 | U | 0.28 | U | 2.87 | | 0.28 | U |
| | % Solids | | % | 89.2 | | 73.1 | | 93.7 | | 89.6 | | 83.3 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04270-006 | | 01-04270-007 | | 01-04270-008 | | 01-04388-001 | | 01-04388-002 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-9 | | SB-9 | | SB-9 | | SB-10 | | SB-10 | |
| | Depth: | Objectives / | | 9' - 10' | | 10' - 12' | | 40' - 44' | | 3' - 4' | | 12' - 14' | |
| | Laboratory ID: | Eastern USA | | K9229-6 | | K9229-7 | | K9229-8 | | K9286-1 | | K9286-2 | |
| | Sampling Date: | Background | | 05/30/2001 | | 05/30/2001 | | 05/30/2001 | | 06/26/2001 | | 06/26/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | | µg/kg | | | | | | | 0.47 | U | 735 | U |
| 75-45-6 | Chlorodifluoromethane | | µg/kg | | | | | | | 0.36 | U | 315 | U |
| 75-69-4 | Trichlorofluoromethane | | µg/kg | | | | | | | 0.29 | U | 360 | U |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | | µg/kg | | | | | | | 0.28 | U | 345 | U |
| 1634-04-4 | Methyl t-butyl ether | | µg/kg | | | | | | | 0.4 | U | 510 | U |
| 590-20-7 | 2,2-Dichloropropane | | µg/kg | | | | | | | 0.27 | U | 270 | U |
| 74-97-5 | Bromochloromethane | | µg/kg | | | | | | | 0.19 | U | 405 | U |
| 563-58-6 | 1,1-Dichloropropene | | µg/kg | | | | | | | 0.49 | U | 886 | U |
| 74-95-3 | Dibromomethane | | µg/kg | | | | | | | 0.35 | U | 270 | U |
| 110-75-8 | 2-Chloroethylvinylether | | µg/kg | | | | | | | 0.35 | U | 195 | U |
| 142-28-9 | 1,3-Dichloropropane | | µg/kg | | | | | | | 0.43 | U | 300 | U |
| 106-93-4 | 1,2-Dibromoethane | | µg/kg | | | | | | | 0.27 | U | 150 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | | µg/kg | | | | | | | 0.19 | U | 270 | U |
| 98-82-8 | Isopropylbenzene | | µg/kg | | | | | | | 1.4 | | 31600 | |
| 108-86-1 | Bromobenzene | | µg/kg | | | | | | | 0.19 | U | 360 | U |
| 103-65-1 | n-Propylbenzene | | µg/kg | | | | | | | 0.16 | U | 28700 | |
| 96-18-4 | 1,2,3-Trichloropropane | | µg/kg | | | | | | | 0.57 | U | 315 | U |
| 622-96-8 | p-Ethyltoluene | | µg/kg | | | | | | | 11 | | 353000 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | | µg/kg | | | | | | | 4.8 | | 73900 | |
| 95-49-8 | 2-Chlorotoluene | | µg/kg | | | | | | | 0.09 | U | 405 | U |
| 106-43-4 | 4-Chlorotoluene | | µg/kg | | | | | | | 0.16 | U | 525 | U |
| 98-06-6 | tert-Butylbenzene | | µg/kg | | | | | | | 0.17 | U | 360 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | | µg/kg | | | | | | | 10.6 | | 175000 | |
| 135-98-8 | sec-Butylbenzene | | µg/kg | | | | | | | 0.13 | U | 8520 | |
| 99-87-6 | 4-Isopropyltoluene | | µg/kg | | | | | | | 12.9 | | 360 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | µg/kg | | | | | | | 0.2 | U | 345 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | µg/kg | | | | | | | 0.25 | U | 345 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | µg/kg | | | | | | | 0.15 | U | 225 | U |
| 105-05-5 | p-Diethylbenzene | | µg/kg | | | | | | | 0.18 | U | 360 | U |
| 104-51-8 | n-Butylbenzene | | µg/kg | | | | | | | 0.16 | U | 210 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | | µg/kg | | | | | | | 0.28 | U | 15300 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | µg/kg | | | | | | | 0.75 | U | 495 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | µg/kg | | | | | | | 0.43 | U | 330 | U |
| 87-68-3 | Hexachlorobutadiene | | µg/kg | | | | | | | 0.16 | U | 390 | U |
| 91-20-3 | Naphthalene | | µg/kg | | | | | | | 14.7 | | 1880000 | |
| 87-61-6 | 1,2,3-Trichlorobenzene | | µg/kg | | | | | | | 0.41 | U | 255 | U |
| 100-51-6 | Benzyl alcohol | | µg/kg | | | | | | | 845 | U | 909 | U |
| 65-85-0 | Benzoic acid | | µg/kg | | | | | | | 563 | U | 605 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04388-003 | | 01-04270-013 | | 01-04270-016 | | 01-04270-018 | | 01-04270-019 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-10 | | SB-11 | | SB-11 | | SB-11 | | SB-11 | |
| | Depth: | Objectives / | | 45' - 47' | | 2' - 4' | | 6' - 8' | | 14' - 16' | | 44' - 46' | |
| | Laboratory ID: | Eastern USA | | K9286-3 | | K9230-4 | | K9230-5 | | K9230-7 | | K9231-1 | |
| | Sampling Date: | Background | | 06/26/2001 | | 06/01/2001 | | 06/01/2001 | | 06/01/2001 | | 06/01/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 8.85 | U | 7.18 | U | 7.17 | U | 7.16 | U | 15.1 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 10.8 | U | 8.75 | U | 8.73 | U | 8.72 | U | 18.3 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 7.7 | U | 6.24 | U | 6.23 | U | 6.22 | U | 13.1 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 9.63 | U | 7.81 | U | 7.79 | U | 7.78 | U | 16.4 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 12 | U | 9.74 | U | 9.72 | U | 9.71 | U | 20.4 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 7.19 | U | 5.83 | U | 5.82 | U | 5.81 | U | 12.2 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 7.24 | U | 5.87 | U | 5.86 | U | 5.86 | U | 12.3 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.48 | U | 0.32 | U | 0.32 | U | 1140 | U | 269 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.23 | U | 0.28 | U | 0.28 | U | 875 | U | 206 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.27 | U | 0.32 | U | 0.32 | U | 1140 | U | 269 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.44 | U | 0.32 | U | 0.32 | U | 902 | U | 212 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 5.2 | B | 2.7 | B | 2.5 | B | 498 | U | 361 | |
| 67-64-1 | Acetone | 200 | µg/kg | 60.8 | | 85 | | 157 | | 3100 | U | 729 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 0.87 | | 1.4 | | 1.6 | | 444 | U | 105 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 0.43 | U | 0.9 | U | 0.9 | U | 296 | U | 69.7 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.2 | U | 0.26 | U | 0.26 | U | 336 | U | 79.3 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.2 | U | 0.3 | U | 0.3 | U | 377 | U | 88.8 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.23 | U | 0.22 | U | 0.22 | U | 242 | U | 57.1 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.21 | U | 0.18 | U | 0.18 | U | 296 | U | 69.7 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.29 | U | 0.13 | U | 0.13 | U | 215 | U | 50.7 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 5.43 | U | 1 | J | 5.4 | U | 23200 | U | 5450 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.19 | U | 0.65 | U | 0.65 | U | 188 | U | 44.4 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.28 | U | 0.26 | U | 0.26 | U | 135 | U | 31.7 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.24 | U | 0.15 | U | 0.15 | U | 215 | U | 50.7 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.19 | U | 0.28 | U | 0.28 | U | 188 | U | 44.4 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.24 | U | 0.29 | U | 0.29 | U | 296 | U | 69.7 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 0.27 | U | 13.5 | | 26 | | 229 | U | 53.9 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.32 | U | 0.95 | U | 0.95 | U | 229 | U | 53.9 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.25 | U | 0.32 | U | 0.32 | U | 256 | U | 60.2 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 0.19 | U | 0.17 | U | 0.17 | U | 229 | U | **1120** | |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.29 | U | 0.29 | U | 0.29 | U | 188 | U | 44.4 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.32 | U | 0.31 | U | 0.31 | U | 363 | U | 85.6 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 6.65 | U | 5.4 | U | 5.4 | U | 12100 | U | 2850 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 6.65 | U | 5.4 | U | 5.4 | U | 6730 | U | 1580 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.24 | U | 0.11 | U | 0.87 | | 162 | U | 38 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 0.27 | U | 1.4 | | 1.3 | | 1440 | | 1310 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.27 | U | 0.43 | U | 0.43 | U | 202 | U | 47.5 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 0.17 | U | 0.19 | U | 0.19 | U | 256 | U | 60.2 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 0.15 | U | 16 | | 13.5 | | **94600** | | **198000** | |
| 100-42-5 | Styrene | NA * | µg/kg | 0.24 | U | 0.11 | U | 0.11 | U | 175 | U | 41.2 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 0.33 | U | 15.7 | | 5.8 | | **118000** | | **215000** | |
| 95-47-6 | o-xylene | 1200 | µg/kg | 0.24 | U | 26 | | 5.1 | | **62600** | | **99500** | |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **ND** | | **59.1** | | **25.7** | | **276640** | | **514930** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 79.4 | U | 107 | U | 1610 | U | 535 | U | 755 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 103 | U | 139 | U | 2080 | U | 692 | U | 978 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 96.5 | U | 130 | U | 1950 | U | 650 | U | 919 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 105 | U | 142 | U | 2130 | U | 710 | U | 1000 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 100 | U | 135 | U | 2030 | U | 675 | U | 953 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 113 | U | 153 | U | 2280 | U | 761 | U | 1070 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 101 | U | 137 | U | 2050 | U | 682 | U | 963 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 107 | U | 144 | U | 2160 | U | 719 | U | 1020 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 101 | U | 137 | U | 2050 | U | 683 | U | 964 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 93.3 | U | 126 | U | 1890 | U | 629 | U | 888 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 89.7 | U | 121 | U | 1820 | U | 605 | U | 854 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 112 | U | 151 | U | 2260 | U | 752 | U | 1060 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 90.9 | U | 123 | U | 1840 | U | 613 | U | 866 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 84.7 | U | 114 | U | 1710 | U | 570 | U | 806 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 79.2 | U | 107 | U | 1600 | U | 534 | U | 754 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 104 | U | 141 | U | 2100 | U | 701 | U | 990 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 93.6 | U | 127 | U | 1890 | U | 631 | U | 891 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 114 | U | 154 | U | 2310 | U | 769 | U | 1090 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 56.6 | U | 76.5 | U | 1140 | U | 381 | U | 539 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 107 | U | 144 | U | 2160 | U | 719 | U | 1020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 110 | U | 148 | U | 2220 | U | 740 | U | 1050 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 47.3 | U | 63.9 | U | 956 | U | 318 | U | 4500 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04388-003 | | 01-04270-013 | | 01-04270-016 | | 01-04270-018 | | 01-04270-019 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-10 | | SB-11 | | SB-11 | | SB-11 | | SB-11 | |
| | Depth: | Objectives / | | 45' - 47' | | 2' - 4' | | 6' - 8' | | 14' - 16' | | 44' - 46' | |
| | Laboratory ID: | Eastern USA | | K9286-3 | | K9230-4 | | K9230-5 | | K9230-7 | | K9231-1 | |
| | Sampling Date: | Background | | 06/26/2001 | | 06/01/2001 | | 06/01/2001 | | 06/01/2001 | | 06/01/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 94 | U | 127 | U | 1900 | U | 633 | U | 895 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 83.8 | U | 113 | U | 1690 | U | 564 | U | 797 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 109 | U | 148 | U | 2210 | U | 736 | U | 1040 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 82 | U | 111 | U | 1660 | U | 553 | U | 781 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 109 | U | 147 | U | 2210 | U | 735 | U | 1040 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 81 | U | 109 | U | 1640 | U | 545 | U | 771 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 52.2 | U | 70.6 | U | 1060 | U | 352 | U | 497 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 77.4 | U | 105 | U | 1570 | U | 521 | U | 736 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 174 | U | 235 | U | 3520 | U | 1170 | U | 1650 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 112 | U | 64.8 | J | **9320** | | 4580 | | **8480** | |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 74 | U | 100 | U | 1500 | U | 499 | U | 705 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 71.6 | U | 96.8 | U | 1450 | U | 483 | U | 682 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 129 | U | 174 | U | 2610 | U | 869 | U | 1230 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 60.2 | U | 81.4 | U | 1220 | U | 405 | U | 573 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 102 | U | 137 | U | 2060 | U | 684 | U | 967 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 107 | U | 145 | U | 2160 | U | 720 | U | 1020 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 97.5 | U | 132 | U | 1970 | U | 657 | U | 928 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 95.6 | U | 129 | U | 1930 | U | 644 | U | 910 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 65 | U | 87.8 | U | 1310 | U | 438 | U | 618 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | NA | | 135 | | 11100 | | 512 | U | 2460 | |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 51.9 | JB | 54 | J | 5820 | U | 1940 | U | 2740 | U |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 63.7 | U | 86 | U | 1290 | U | 429 | U | 606 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 110 | U | 149 | U | 2230 | U | 743 | U | 1050 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 140 | JB | 594 | | 8760 | U | 2920 | U | 279 | J |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 82 | U | 111 | U | 1660 | U | 553 | U | 781 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 66.6 | J | 108 | J | 6650 | | **75400** | | **102000** | |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 107 | U | 697 | | 7810 | | 11200 | | 19300 | |
| 120-12-7 | Anthracene | 50000* | µg/kg | 53.3 | J | 1610 | | 25400 | | 45400 | | **58000** | |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 70.6 | U | 1110 | | 10500 | | 11000 | | 13300 | |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 71.9 | J | 2190 | | **82200** | | **51900** | | **71600** | |
| 86-73-7 | Fluorene | 50000* | µg/kg | 51.9 | J | 131 | J | 16400 | | 47600 | | **65900** | |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 57.3 | J | 70.2 | J | 2240 | | **191000** | | **294000** | |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 173 | | 146 | J | 7380 | | **546000** | | **850000** | |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 176 | | 1160 | | **83800** | | **188000** | | **268000** | |
| 129-00-0 | Pyrene | 50000* | µg/kg | 115 | | 2160 | | **55300** | | **67200** | | **86500** | |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 765 | | 9382.2 | | 297680 | | 1234700 | | 1828600 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | 54.6 | J | **1360** | | **30100** | | **33600** | | **42500** | |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 109 | U | **1540** | | **30100** | | **16000** | | **19500** | |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 88.7 | U | 868 | | **14700** | | **9170** | | **17300** | |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | 72.4 | U | **1470** | | **24000** | | **23200** | | **31600** | |
| 218-01-9 | Chrysene | 400 | µg/kg | 28 | J | **1410** | | **28100** | | **29000** | | **38800** | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 84.7 | U | 911 | | **10900** | | **8920** | | **10700** | |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | 79.6 | U | **302** | | **3180** | | **2850** | | **3510** | |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 82.6 | | 7861 | | 141080 | | 122740 | | 163910 | |
| | **Total PAHs** | | | **847.6** | | **17243.2** | | **438760** | | **1357440** | | **1992510** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 4390 | | 4790 | | 5270 | | 3910 | | 2100 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.19 | J | 0.14 | J | 0.32 | | 0.17 | J | 0.23 | U |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.32 | U | 0.26 | U | 0.26 | U | 0.26 | U | 0.3 | U |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 78.4 | | 46.1 | | 56.7 | | 38 | | 17.4 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.08 | U | 0.065 | U | 0.065 | U | 0.065 | U | 0.076 | U |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.08 | U | 0.027 | J | 0.032 | J | 0.065 | U | 0.076 | U |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 10900 | | 6700 | | 7500 | | 1120 | | 15900 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | **15.7** | | 8.62 | | 9.22 | | 9.27 | | 6.23 | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 5.43 | | 4.12 | | 4.48 | | 4.94 | | 2.81 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 15.1 | | 15.8 | | 17.7 | | 10.1 | | 4.53 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **9400** | | **8450** | | **9380** | | **8400** | | **5250** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 1.69 | | 44.5 | | 35.9 | | 2.4 | | 1.46 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | **6790** | | 4260 | | 4280 | | 2430 | | **11400** | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 138 | | 129 | | 151 | | 72.5 | | 55.1 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.0051 | J | **0.26** | | **0.28** | | 0.0025 | J | 0.011 | U |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 11.2 | | 6.95 | | 7.96 | | 7.66 | | 4.42 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 2800 | | 1240 | | 1230 | | 1760 | | 720 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.31 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.3 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04388-003 | | 01-04270-013 | | 01-04270-016 | | 01-04270-018 | | 01-04270-019 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-10 | | SB-11 | | SB-11 | | SB-11 | | SB-11 | |
| | Depth: | Objectives / | | 45' - 47' | | 2' - 4' | | 6' - 8' | | 14' - 16' | | 44' - 46' | |
| | Laboratory ID: | Eastern USA | | K9286-3 | | K9230-4 | | K9230-5 | | K9230-7 | | K9231-1 | |
| | Sampling Date: | Background | | 06/26/2001 | | 06/01/2001 | | 06/01/2001 | | 06/01/2001 | | 06/01/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.1 | U | 0.081 | U | 0.081 | U | 0.081 | U | 0.095 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 76.7 | | 190 | | 213 | | 123 | | 167 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.26 | U | 0.21 | U | 0.21 | U | 0.21 | U | 0.25 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 15.2 | | 10.7 | | 11.5 | | 12.3 | | 5.86 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **25** | | **54.1** | | **57.9** | | **22.2** | | 10.6 | |
| 57-12-5 | Cyanide | | mg/kg | 0.26 | U | 0.45 | | 0.8 | | 0.13 | J | 0.3 | U |
| | % Solids | | % | 75.1 | | 92.6 | | 92.8 | | 92.9 | | 78.9 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04388-003 | | 01-04270-013 | | 01-04270-016 | | 01-04270-018 | | 01-04270-019 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-10 | | SB-11 | | SB-11 | | SB-11 | | SB-11 | |
| | Depth: | Objectives / | | 45' - 47' | | 2' - 4' | | 6' - 8' | | 14' - 16' | | 44' - 46' | |
| | Laboratory ID: | Eastern USA | | K9286-3 | | K9230-4 | | K9230-5 | | K9230-7 | | K9231-1 | |
| | Sampling Date: | Background | | 06/26/2001 | | 06/01/2001 | | 06/01/2001 | | 06/01/2001 | | 06/01/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | | µg/kg | 0.56 | U | | | | | | | | |
| 75-45-6 | Chlorodifluoromethane | | µg/kg | 0.43 | U | | | | | | | | |
| 75-69-4 | Trichlorofluoromethane | | µg/kg | 0.35 | U | | | | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | | µg/kg | 0.33 | U | | | | | | | | |
| 1634-04-4 | Methyl t-butyl ether | | µg/kg | 0.48 | U | | | | | | | | |
| 590-20-7 | 2,2-Dichloropropane | | µg/kg | 0.32 | U | | | | | | | | |
| 74-97-5 | Bromochloromethane | | µg/kg | 0.23 | U | | | | | | | | |
| 563-58-6 | 1,1-Dichloropropene | | µg/kg | 0.59 | U | | | | | | | | |
| 74-95-3 | Dibromomethane | | µg/kg | 0.41 | U | | | | | | | | |
| 110-75-8 | 2-Chloroethylvinylether | | µg/kg | 0.41 | U | | | | | | | | |
| 142-28-9 | 1,3-Dichloropropane | | µg/kg | 0.51 | U | | | | | | | | |
| 106-93-4 | 1,2-Dibromoethane | | µg/kg | 0.32 | U | | | | | | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | | µg/kg | 0.23 | U | | | | | | | | |
| 98-82-8 | Isopropylbenzene | | µg/kg | 0.13 | U | | | | | | | | |
| 108-86-1 | Bromobenzene | | µg/kg | 0.23 | U | | | | | | | | |
| 103-65-1 | n-Propylbenzene | | µg/kg | 0.19 | U | | | | | | | | |
| 96-18-4 | 1,2,3-Trichloropropane | | µg/kg | 0.68 | U | | | | | | | | |
| 622-96-8 | p-Ethyltoluene | | µg/kg | 0.23 | U | | | | | | | | |
| 108-67-8 | 1,3,5-Trimethylbenzene | | µg/kg | 0.13 | U | | | | | | | | |
| 95-49-8 | 2-Chlorotoluene | | µg/kg | 0.11 | U | | | | | | | | |
| 106-43-4 | 4-Chlorotoluene | | µg/kg | 0.19 | U | | | | | | | | |
| 98-06-6 | tert-Butylbenzene | | µg/kg | 0.2 | U | | | | | | | | |
| 95-63-6 | 1,2,4-Trimethylbenzene | | µg/kg | 0.27 | U | | | | | | | | |
| 135-98-8 | sec-Butylbenzene | | µg/kg | 0.16 | U | | | | | | | | |
| 99-87-6 | 4-Isopropyltoluene | | µg/kg | 0.24 | U | | | | | | | | |
| 541-73-1 | 1,3-Dichlorobenzene | | µg/kg | 0.24 | U | | | | | | | | |
| 106-46-7 | 1,4-Dichlorobenzene | | µg/kg | 0.29 | U | | | | | | | | |
| 95-50-1 | 1,2-Dichlorobenzene | | µg/kg | 0.17 | U | | | | | | | | |
| 105-05-5 | p-Diethylbenzene | | µg/kg | 0.21 | U | | | | | | | | |
| 104-51-8 | n-Butylbenzene | | µg/kg | 0.19 | U | | | | | | | | |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | | µg/kg | 0.33 | U | | | | | | | | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | µg/kg | 0.89 | U | | | | | | | | |
| 120-82-1 | 1,2,4-Trichlorobenzene | | µg/kg | 0.51 | U | | | | | | | | |
| 87-68-3 | Hexachlorobutadiene | | µg/kg | 0.19 | U | | | | | | | | |
| 91-20-3 | Naphthalene | | µg/kg | 1.8 | | | | | | | | | |
| 87-61-6 | 1,2,3-Trichlorobenzene | | µg/kg | 0.49 | U | | | | | | | | |
| 100-51-6 | Benzyl alcohol | | µg/kg | 101 | U | | | | | | | | |
| 65-85-0 | Benzoic acid | | µg/kg | 67.1 | U | | | | | | | | |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04270-017 | | 01-04362-001 | | 01-04362-004 | | 01-04362-003 | | 01-04362-002 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-11 | | SB-12 | | SB-12 | | SB-12 | | SB-12 | |
| | Depth: | Objectives / | | 54' - 56' | | 2' - 4' | | 14' - 16' | | 42' - 44' | | 48' - 52' | |
| | Laboratory ID: | Eastern USA | | K9230-6 | | K9267-1 | | K9267-4 | | K9267-3 | | K9267-2 | |
| | Sampling Date: | Background | | 06/01/2001 | | 06/18/2001 | | 06/18/2001 | | 06/18/2001 | | 06/18/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 7.99 | U | 7.19 | U | 7.96 | U | 8.54 | U | 8.18 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 9.74 | U | 8.76 | U | 9.7 | U | 10.4 | U | 9.96 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 6.95 | U | 6.25 | U | 6.92 | U | 7.42 | U | 7.11 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 8.69 | U | 7.82 | U | 8.66 | U | 9.28 | U | 8.89 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 10.8 | U | 9.75 | U | 10.8 | U | 11.6 | U | 11.1 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 6.49 | U | 275 | | 6.47 | U | 6.93 | U | 6.64 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 6.54 | U | 5.88 | U | 6.51 | U | 6.98 | U | 6.69 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 1.8 | U | 0.39 | U | 147 | U | 393 | U | 2.21 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 1.56 | U | 0.18 | U | 129 | U | 345 | U | 1.05 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 1.8 | U | 0.22 | U | 29.9 | U | 80.2 | U | 1.23 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 1.8 | U | 0.36 | U | 182 | U | 489 | U | 2.03 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 18.5 | B | 7.4 | B | 880 | B | 2110 | B | 52.7 | B |
| 67-64-1 | Acetone | 200 | µg/kg | **328** | | 34.1 | | 933 | U | 2500 | U | 30.8 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 1.14 | U | 0.22 | U | 59.8 | U | 160 | U | 9.7 | |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 4.99 | U | 0.35 | U | 89.7 | U | 241 | U | 1.97 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 1.44 | U | 0.16 | U | 65.8 | U | 176 | U | 0.92 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 1.68 | U | 0.16 | U | 59.8 | U | 160 | U | 0.92 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 1.2 | U | 0.18 | U | 62.8 | U | 168 | U | 1.05 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 1.02 | U | 0.17 | U | 59.8 | U | 160 | U | 0.98 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.72 | U | 0.24 | U | 68.8 | U | 184 | U | 1.35 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 30 | U | 4.41 | U | 1500 | U | 4010 | U | 25.1 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 3.61 | U | 0.15 | U | 65.8 | U | 176 | U | 0.86 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 1.44 | U | 0.23 | U | 74.8 | U | 200 | U | 1.29 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.84 | U | 0.19 | U | 44.8 | U | 120 | U | 1.11 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 1.56 | U | 0.15 | U | 108 | U | 289 | U | 0.86 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 1.62 | U | 0.19 | U | 47.8 | U | 128 | U | 1.11 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 1.26 | U | 10.2 | | 47.8 | U | 128 | U | 1.23 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 5.29 | U | 0.26 | U | 32.9 | U | 88.2 | U | 1.48 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 1.8 | U | 0.21 | U | 26.9 | U | 72.2 | U | 1.17 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 0.96 | U | 9 | | 47.8 | U | 128 | U | **249** | |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 1.62 | U | 0.24 | U | 23.9 | U | 64.2 | U | 1.35 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 1.74 | U | 0.26 | U | 29.9 | U | 80.2 | U | 1.48 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 30 | U | 5.4 | U | 1500 | U | 4010 | U | 30.8 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 30 | U | 5.4 | U | 1500 | U | 4010 | U | 30.8 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.6 | U | 0.19 | U | 71.8 | U | 192 | U | 1.11 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 0.9 | U | 4.1 | | **2900** | | **1860** | | 6.6 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 2.4 | U | 0.22 | U | 47.8 | U | 128 | U | 1.23 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 1.08 | U | 0.14 | U | 44.8 | U | 120 | U | 0.8 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 16.7 | | 11.1 | | **245000** | | **263000** | | 278 | |
| 100-42-5 | Styrene | NA * | µg/kg | 0.6 | U | 0.19 | U | 50.8 | U | 136 | U | 1.11 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 11.7 | | 10.7 | | **253000** | | **280000** | | 76.4 | |
| 95-47-6 | o-xylene | 1200 | µg/kg | 14.1 | | 5.4 | | **113000** | | **137000** | | 105 | |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **42.5** | | **40.3** | | **613900** | | **681860** | | **715** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 67.8 | U | 64.4 | U | 71.4 | U | 76.5 | U | 73.3 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 85.2 | U | 83.5 | U | 92.5 | U | 99.1 | U | 95 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 70.1 | U | 78.4 | U | 86.8 | U | 93.1 | U | 89.2 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 85.1 | U | 85.5 | U | 94.7 | U | 102 | U | 97.3 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 86.9 | U | 81.3 | U | 90.1 | U | 96.5 | U | 92.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 87.9 | U | 91.7 | U | 102 | U | 109 | U | 104 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 69.8 | U | 82.2 | U | 91 | U | 97.6 | U | 93.5 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 50.8 | U | 86.7 | U | 96 | U | 103 | U | 98.6 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 57.2 | U | 24.9 | J | 91.1 | U | 97.7 | U | 93.6 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 71 | U | 75.8 | U | 84 | U | 90 | U | 86.2 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 88.5 | U | 72.9 | U | 80.7 | U | 86.5 | U | 82.9 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 97.6 | U | 90.6 | U | 100 | U | 2690 | U | 103 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 65.7 | U | 73.8 | U | 81.8 | U | 2190 | U | 84 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 75 | U | 68.8 | U | 76.2 | U | 2040 | U | 78.2 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 42.1 | U | 64.3 | U | 71.3 | U | 1910 | U | 73.2 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 77.2 | U | 84.4 | U | 93.5 | U | 2510 | U | 96.1 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 72 | U | 76 | U | 84.2 | U | 2260 | U | 86.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 79.8 | U | 92.7 | U | 103 | U | 2750 | U | 105 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 88.3 | U | 45.9 | U | 50.9 | U | 1360 | U | 52.3 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 81 | U | 86.7 | U | 96 | U | 2570 | U | 98.6 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 55 | U | 89.2 | U | 98.8 | U | 2650 | U | 101 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 132 | U | 38.4 | U | 42.5 | U | 45.6 | U | 43.7 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04270-017 | | 01-04362-001 | | 01-04362-004 | | 01-04362-003 | | 01-04362-002 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-11 | | SB-12 | | SB-12 | | SB-12 | | SB-12 | |
| | Depth: | Objectives / | | 54' - 56' | | 2' - 4' | | 14' - 16' | | 42' - 44' | | 48' - 52' | |
| | Laboratory ID: | Eastern USA | | K9230-6 | | K9267-1 | | K9267-4 | | K9267-3 | | K9267-2 | |
| | Sampling Date: | Background | | 06/01/2001 | | 06/18/2001 | | 06/18/2001 | | 06/18/2001 | | 06/18/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 88.5 | U | 76.3 | U | 84.6 | U | 90.6 | U | 86.8 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 82 | U | 68 | U | 75.3 | U | 80.7 | U | 77.4 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 82.1 | U | 88.7 | U | 98.2 | U | 105 | U | 101 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 57.3 | U | 66.6 | U | 73.8 | U | 79.1 | U | 75.8 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 73.4 | U | 88.5 | U | 98.1 | U | 105 | U | 101 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 60.6 | U | 65.7 | U | 72.8 | U | 78 | U | 74.8 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 51.7 | U | 42.4 | U | 46.9 | U | 50.3 | U | 48.2 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 72.4 | U | 62.8 | U | 69.6 | U | 74.6 | U | 71.5 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 98.3 | U | 141 | U | 156 | U | 168 | U | 161 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 78.1 | U | 211 | | 1830 | | 5000 | | 104 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 45.1 | U | 60.1 | U | 66.6 | U | 71.4 | U | 68.4 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 57.6 | U | 58.2 | U | 64.4 | U | 69.1 | U | 66.2 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 80.2 | U | 105 | U | 116 | U | 124 | U | 119 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 76.9 | U | 48.9 | U | 54.1 | U | 58 | U | 55.6 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 79.1 | U | 82.5 | U | 91.4 | U | 97.9 | U | 93.8 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 70.7 | U | 86.8 | U | 96.2 | U | 103 | U | 98.8 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 75.2 | U | 79.1 | U | 87.7 | U | 94 | U | 90 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 68.5 | U | 77.6 | U | 86 | U | 92.2 | U | 88.3 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 50.7 | U | 52.8 | U | 58.4 | U | 62.6 | U | 60 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 55.5 | U | 337 | | 505 | | 2110 | | 70.2 | U |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 234 | U | 38.9 | J | 259 | U | 277 | U | 33.2 | J |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 62.1 | U | 51.7 | U | 57.2 | U | 61.4 | U | 58.8 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 146 | U | 89.5 | U | 99.2 | U | 106 | U | 102 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 90.1 | JB | 608 | | 163 | J | 335 | J | 92.3 | J |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 64.5 | U | 66.6 | U | 73.8 | U | 1980 | U | 75.8 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 39.7 | J | 265 | | **52200** | | **118000** | | 28.3 | J |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 70.4 | U | 1580 | | 4480 | | 10200 | | 98.9 | U |
| 120-12-7 | Anthracene | 50000* | µg/kg | 61.3 | U | 1120 | | 27900 | | **59000** | | 88.3 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 44.6 | U | 1510 | | 3190 | | 12900 | | 65.2 | U |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 75.7 | | 5040 | | 34500 | | **78100** | | 25.8 | J |
| 86-73-7 | Fluorene | 50000* | µg/kg | 37.3 | J | 343 | | 26200 | | **62500** | | 29.5 | J |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 32.5 | J | 307 | | **87400** | | **211000** | | 34.4 | J |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 135 | | 832 | | **241000** | E | **885000** | | 204 | |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 52.9 | J | 3210 | | **93100** | | **200000** | | 71.3 | J |
| 129-00-0 | Pyrene | 50000* | µg/kg | 56.5 | | 5590 | | 47200 | | **105000** | | 38.1 | J |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 429.6 | | 19797 | | 617170 | | 1741700 | | 431.4 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | 44.5 | U | **3060** | | **18800** | | **41300** | | 61.7 | U |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 58.3 | U | **3180** | | **5060** | | **16000** | | 101 | U |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 53.5 | U | **3440** | | **6060** | | **20400** | | 81.9 | U |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | 43.3 | U | **3440** | | **9690** | | **30500** | | 66.9 | U |
| 218-01-9 | Chrysene | 400 | µg/kg | 54.7 | U | **3360** | | **16100** | | **36000** | | 61.5 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 41.3 | U | 1580 | | **2920** | | **9850** | | 78.2 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | 44.6 | U | **506** | | **1040** | | **3210** | | 73.6 | U |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 0 | | 18566 | | 59670 | | 157260 | | 0 | |
| | **Total PAHs** | | | **429.6** | | **38363** | | **676840** | | **1898960** | | **431.4** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 4220 | | 2620 | | 3970 | | 1880 | | 3680 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.27 | | 0.34 | | 0.41 | | 0.17 | J | 0.36 | |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.29 | U | 1.52 | | 0.29 | U | 0.31 | U | 0.3 | U |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 46.7 | | 53.2 | | 38 | | 17.1 | | 43.8 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.072 | U | 0.065 | U | 0.072 | U | 0.077 | U | 0.074 | U |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.072 | U | 0.22 | | 0.072 | U | 0.077 | U | 0.074 | U |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 16200 | | 12800 | | 1030 | | 19500 | | 15400 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | **11.2** | | 6.42 | | 8.36 | | 3.43 | | 8.28 | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 5.08 | | 2.99 | | 5.92 | | 2.24 | | 4.72 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 8.36 | | **25.5** | | 10.9 | | 4.44 | | 10.4 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **9080** | | **6270** | | **8030** | | **3710** | | **7480** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 1.79 | | 50.6 | | 2.02 | | 1.37 | | 2.82 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | **10400** | | 3960 | | 2760 | | **13500** | | **9170** | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 115 | | 116 | | 68.1 | | 67 | | 109 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.00013 | J | **1.3** | | 0.0057 | J | 0.0047 | J | 0.01 | J |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 7.85 | | 5.73 | | 8.3 | | 3.32 | | 7.38 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 2400 | | 789 | | 1880 | | 785 | | 2300 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.28 | U | 0.25 | U | 0.28 | U | 0.3 | U | 0.29 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04270-017 | | 01-04362-001 | | 01-04362-004 | | 01-04362-003 | | 01-04362-002 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-11 | | SB-12 | | SB-12 | | SB-12 | | SB-12 | |
| | Depth: | Objectives / | | 54' - 56' | | 2' - 4' | | 14' - 16' | | 42' - 44' | | 48' - 52' | |
| | Laboratory ID: | Eastern USA | | K9230-6 | | K9267-1 | | K9267-4 | | K9267-3 | | K9267-2 | |
| | Sampling Date: | Background | | 06/01/2001 | | 06/18/2001 | | 06/18/2001 | | 06/18/2001 | | 06/18/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.09 | U | 0.081 | U | 0.09 | U | 0.096 | U | 0.092 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 169 | | 241 | | 95 | | 140 | | 149 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.23 | U | 0.21 | U | 0.23 | U | 0.25 | U | 0.24 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 13.3 | | 5.76 | | 10.8 | | 1.78 | | 9.74 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **21.9** | | **59.3** | | **20.9** | | 9.07 | | 19.3 | |
| 57-12-5 | Cyanide | | mg/kg | 0.27 | U | 2.78 | | 0.3 | U | 0.28 | U | 0.28 | U |
| | % Solids | | % | 83.2 | | 92.5 | | 83.5 | | 77.9 | | 81.3 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04272-001 | | 01-04272-002 | | 01-04272-003 | | 01-04272-004 | | 00-07914-003 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-13 | | SB-13 | | SB-13 | | SB-13 | | SB-14 | |
| | Depth: | Objectives / | | 3' - 4' | | 13' - 14' | | 31' - 32' | | 34' - 35' | | 2'-4' | |
| | Laboratory ID: | Eastern USA | | K9228-1 | | K9228-2 | | K9228-3 | | K9228-4 | | J9482-3 | |
| | Sampling Date: | Background | | 06/04/2001 | | 06/04/2001 | | 06/04/2001 | | 06/04/2001 | | 08/16/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 7.1 | U | 8.22 | U | 8.04 | U | 8.19 | U | 2.32 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 8.65 | U | 10 | U | 9.79 | U | 9.98 | U | 10.9 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 6.18 | U | 7.14 | U | 6.99 | U | 7.12 | U | 2.42 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 7.72 | U | 8.94 | U | 8.74 | U | 8.9 | U | 1.82 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 9.64 | U | 11.1 | U | 10.9 | U | 11.1 | U | 4.1 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 5.77 | U | 6.67 | U | 6.53 | U | 6.65 | U | 6.2 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 5.81 | U | 6.72 | U | 6.58 | U | 6.7 | U | 7.12 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.36 | U | 1310 | U | 1280 | U | 2.09 | U | 0.39 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.45 | U | 1000 | U | 982 | U | 2.59 | U | 0.44 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.27 | U | 1310 | U | 1280 | U | 1.54 | U | 0.39 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.24 | U | 1040 | U | 1010 | U | 1.36 | U | 0.22 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 0.6 | U | 2630 | B | 4220 | B | 11 | B | 0.62 | U |
| 67-64-1 | Acetone | 200 | µg/kg | 6.66 | U | 3550 | U | 3480 | U | 42.4 | | 4.95 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 0.28 | U | 510 | U | 499 | U | 1.6 | U | 0.31 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 0.25 | U | 340 | U | 332 | U | 1.42 | U | 0.24 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.25 | U | 386 | U | 378 | U | 1.42 | U | 0.18 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.29 | U | 433 | U | 423 | U | 1.66 | U | 0.47 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.2 | U | 278 | U | 272 | U | 1.17 | U | 0.57 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.26 | U | 340 | U | 332 | U | 5.2 | | 0.19 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.12 | U | 247 | U | 242 | U | 0.68 | U | 0.34 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 5.35 | U | 26600 | U | 26000 | U | 30.8 | U | 2.86 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.26 | U | 216 | U | 212 | U | 1.48 | U | 0.32 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.22 | U | 154 | U | 151 | U | 1.29 | U | 0.31 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.14 | U | 247 | U | 242 | U | 0.8 | U | 0.22 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.064 | U | 216 | U | 212 | U | 0.37 | U | 0.21 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.13 | U | 340 | U | 332 | U | 0.74 | U | 0.28 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 0.14 | U | 263 | U | 257 | U | 0.8 | U | 0.34 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.086 | U | 263 | U | 257 | U | 0.49 | U | 0.33 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.13 | U | 294 | U | 287 | U | 0.74 | U | 0.54 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 0.26 | U | 263 | U | 257 | U | 1.48 | U | 0.32 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.15 | U | 216 | U | 212 | U | 0.86 | U | 0.47 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.064 | U | 417 | U | 408 | U | 0.37 | U | 0.55 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 5.35 | U | 13900 | U | 13600 | U | 30.8 | U | 1.69 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 5.35 | U | 7720 | U | 7560 | U | 30.8 | U | 1.77 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.096 | U | 185 | U | 181 | U | 0.55 | U | 0.32 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 1.8 | | **2640** | | **2450** | | 0.62 | U | 0.38 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.096 | U | 232 | U | 227 | U | 0.55 | U | 0.57 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 0.075 | U | 294 | U | 287 | U | 0.43 | U | 0.33 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 38.9 | | **107000** | | **127000** | | 7.1 | | 0.39 | U |
| 100-42-5 | Styrene | NA * | µg/kg | 0.15 | U | 201 | U | 196 | U | 0.86 | U | 0.33 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 31.6 | | **102000** | | **154000** | | 5.3 | | 0.72 | U |
| 95-47-6 | o-xylene | 1200 | µg/kg | 10 | | **42000** | | **69800** | | 6.5 | | 0.32 | U |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **82.3** | | **253640** | | **353250** | | **18.9** | | **0** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 20.1 | U | 581 | U | 568 | U | 23.2 | U | 67.9 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 25.2 | U | 730 | U | 714 | U | 29.1 | U | 88 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 20.8 | U | 601 | U | 587 | U | 23.9 | U | 82.6 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 25.2 | U | 729 | U | 713 | U | 29.1 | U | 90.2 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 25.7 | U | 745 | U | 729 | U | 29.7 | U | 85.7 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 26 | U | 753 | U | 737 | U | 30 | U | 96.7 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 20.7 | U | 598 | U | 585 | U | 23.9 | U | 86.6 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 15.1 | U | 436 | U | 426 | U | 17.4 | U | 91.4 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 17 | U | 490 | U | 480 | U | 19.5 | U | 86.8 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 21 | U | 609 | U | 596 | U | 24.3 | U | 79.9 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 26.2 | U | 758 | U | 742 | U | 30.2 | U | 76.8 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 28.9 | U | 836 | U | 818 | U | 33.3 | U | 95.5 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 19.5 | U | 563 | U | 551 | U | 22.5 | U | 77.9 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 22.2 | U | 643 | U | 629 | U | 25.6 | U | 72.5 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 12.5 | U | 361 | U | 353 | U | 14.4 | U | 67.8 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 22.9 | U | 661 | U | 647 | U | 26.4 | U | 89 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 21.3 | U | 617 | U | 604 | U | 24.6 | U | 80.1 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 23.6 | U | 684 | U | 669 | U | 27.3 | U | 97.7 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 26.2 | U | 757 | U | 741 | U | 30.2 | U | 48.4 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 24 | U | 694 | U | 679 | U | 27.7 | U | 91.4 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 16.3 | U | 472 | U | 462 | U | 18.8 | U | 94 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 39 | U | 1130 | U | 1100 | U | 45 | U | 40.5 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04272-001 | | 01-04272-002 | | 01-04272-003 | | 01-04272-004 | | 00-07914-003 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-13 | | SB-13 | | SB-13 | | SB-13 | | SB-14 | |
| | Depth: | Objectives / | | 3' - 4' | | 13' - 14' | | 31' - 32' | | 34' - 35' | | 2'-4' | |
| | Laboratory ID: | Eastern USA | | K9228-1 | | K9228-2 | | K9228-3 | | K9228-4 | | J9482-3 | |
| | Sampling Date: | Background | | 06/04/2001 | | 06/04/2001 | | 06/04/2001 | | 06/04/2001 | | 08/16/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 26.2 | U | 758 | U | 742 | U | 30.2 | U | 80.5 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 24.3 | U | 703 | U | 687 | U | 28 | U | 71.7 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 24.3 | U | 704 | U | 688 | U | 28 | U | 93.5 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 17 | U | 491 | U | 481 | U | 19.6 | U | 70.2 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 21.8 | U | 629 | U | 616 | U | 25.1 | U | 93.4 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 17.9 | U | 519 | U | 508 | U | 20.7 | U | 69.3 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 15.3 | U | 443 | U | 433 | U | 17.7 | U | 44.7 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 21.4 | U | 620 | U | 607 | U | 24.7 | U | 66.2 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 29.1 | U | 843 | U | 824 | U | 33.6 | U | 149 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 23.1 | U | 4570 | | **6950** | | 15.6 | J | 96.1 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 13.4 | U | 386 | U | 378 | U | 15.4 | U | 63.4 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 13.5 | J | 493 | U | 483 | U | 19.7 | U | 61.3 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 23.8 | U | 687 | U | 672 | U | 27.4 | U | 110 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 22.8 | U | 659 | U | 645 | U | 26.3 | U | 51.5 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 23.4 | U | 678 | U | 663 | U | 27 | U | 87 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 20.9 | U | 606 | U | 593 | U | 24.1 | U | 91.5 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 22.3 | U | 645 | U | 631 | U | 25.7 | U | 83.4 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 20.3 | U | 587 | U | 574 | U | 23.4 | U | 81.9 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 15 | U | 435 | U | 425 | U | 17.3 | U | 55.6 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 13.9 | J | 476 | U | 2700 | | 138 | | 86.5 | |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 31.3 | J | 2010 | U | 1970 | U | 27.1 | J | 64.8 | JB |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 18.4 | U | 533 | U | 521 | U | 21.2 | U | 54.5 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 43.2 | U | 1250 | U | 1220 | U | 49.8 | U | 94.4 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 657 | B | 216 | JB | 3710 | U | 89.9 | JB | 62.6 | J |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 19.1 | U | 553 | U | 541 | U | 22 | U | 70.2 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 40.2 | | **61700** | | 38900 | | 59.5 | | 28.4 | J |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 377 | | 11500 | | 8120 | | 10.7 | J | 89.9 | J |
| 120-12-7 | Anthracene | 50000* | µg/kg | 118 | | 36400 | | 24100 | | 30.8 | | 303 | |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 239 | | 5830 | | 4560 | | 15.2 | U | 2800 | |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 187 | | 47900 | | 37800 | | 39 | | 8490 | |
| 86-73-7 | Fluorene | 50000* | µg/kg | 27.1 | | 38200 | | 28800 | | 108 | | 100 | U |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 65.9 | | **130000** | | **81900** | | 110 | | 80.4 | U |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 131 | | **305000** | | **241000** | | 328 | | 43.2 | J |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 161 | | **142000** | | **84800** | | 160 | | 485 | |
| 129-00-0 | Pyrene | 50000* | µg/kg | 282 | | **61900** | | 45500 | | 43.5 | | 8060 | |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 1628.2 | | 840430 | | 595480 | | 889.5 | | 20299.5 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | 89 | | **25800** | | **17600** | | 16 | | **8990** | |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 131 | | **8460** | | **6080** | | 19.9 | U | **9740** | |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 115 | | **11900** | | **8560** | | 18.3 | U | **6310** | |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | 236 | | **18000** | | **12600** | | 9.4 | J | **8270** | |
| 218-01-9 | Chrysene | 400 | µg/kg | 122 | | **23000** | | **15800** | | 13.5 | J | **8100** | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 140 | | **4560** | | **3510** | | 14.1 | U | **3350** | |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | 30.6 | | **1470** | | **1050** | | 15.2 | U | **1610** | |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 863.6 | | 93190 | | 65200 | | 38.9 | | 46370 | |
| | **Total PAHs** | | | **2491.8** | | **933620** | | **660680** | | **928.4** | | **66669.5** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 3200 | | 3570 | | 1930 | | 3680 | | 5910 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.021 | J | 0.21 | J | 0.22 | U | 0.062 | J | 1.74 | |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.26 | U | 0.3 | U | 0.29 | U | 0.3 | U | 0.1 | J |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 16.1 | | 32.8 | | 19.8 | | 39.4 | | 60.5 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.064 | U | 0.074 | U | 0.073 | U | 0.074 | U | **0.39** | |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.064 | U | 0.074 | U | 0.073 | U | 0.074 | U | **1.16** | |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 9560 | | 1060 | | 14900 | | 13400 | | 3810 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 5.56 | | 7.72 | | 7.33 | | **10.2** | | **11.4** | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 3.62 | | 3.89 | | 4.48 | | 4.82 | | 5.4 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 10.2 | | 6.48 | | 7.74 | | 7.11 | | 23.8 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **5480** | | **7490** | | **5640** | | **7940** | | **10900** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 2.82 | | 1.85 | | 1.59 | | 1.82 | | 25.1 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | **8410** | | 2020 | | **10600** | | **10500** | | 3440 | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 107 | | 83.6 | | 79.9 | | 88.1 | | 189 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.024 | | 0.011 | U | 0.0025 | J | 0.0078 | J | 0.055 | |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 4.92 | | 6.28 | | 7.33 | | 7.19 | | 9.73 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 782 | | 1020 | | 647 | | 1970 | | 1680 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.25 | U | 0.29 | U | 0.28 | U | 0.29 | U | 0.21 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04272-001 | | 01-04272-002 | | 01-04272-003 | | 01-04272-004 | | 00-07914-003 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-13 | | SB-13 | | SB-13 | | SB-13 | | SB-14 | |
| | Depth: | Objectives / | | 3' - 4' | | 13' - 14' | | 31' - 32' | | 34' - 35' | | 2'-4' | |
| | Laboratory ID: | Eastern USA | | K9228-1 | | K9228-2 | | K9228-3 | | K9228-4 | | J9482-3 | |
| | Sampling Date: | Background | | 06/04/2001 | | 06/04/2001 | | 06/04/2001 | | 06/04/2001 | | 08/16/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.08 | U | 0.093 | U | 0.091 | U | 0.092 | U | 0.55 | |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 230 | | 163 | | 138 | | 112 | | 114 | U |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.21 | U | 0.24 | U | 0.24 | U | 0.24 | U | 0.21 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 5.58 | | 10.1 | | 6.43 | | 11.9 | | 16.4 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **44.6** | | **25.3** | | 11.2 | | **21.2** | | **44.1** | |
| 57-12-5 | Cyanide | | mg/kg | 0.26 | U | 0.21 | J | 0.23 | U | 0.28 | U | 3.08 | |
| | % Solids | | % | 93.6 | | 80.9 | | 82.7 | | 81.2 | | 87.9 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-07914-007 | | 00-07914-008 | | 01-03882-005 | | 01-03882-004 | | 01-03882-003 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-14 | | SB-14 | | SB-15 | | SB-15 | | SB-15 | |
| | Depth: | Objectives / | | 10.5'-11.8' | | 16'-18' | | 2' - 4' | | 10' - 11' | | 21.5' - 22' | |
| | Laboratory ID: | Eastern USA | | J9482-7 | | J9482-8 | | K9161-5 | | K9161-4 | | K9161-3 | |
| | Sampling Date: | Background | | 08/16/2000 | | 08/16/2000 | | 04/24/2001 | | 04/23/2001 | | 04/23/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 2.59 | U | 2.94 | U | 43.2 | U | 45.2 | U | 41.7 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 12.2 | U | 13.8 | U | 184 | U | 193 | U | 178 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 2.71 | U | 3.07 | U | 97.4 | U | 102 | U | 94 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 2.03 | U | 2.31 | U | 40.8 | U | 42.7 | U | 39.4 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 4.57 | U | 5.19 | U | 92.4 | U | 96.8 | U | 89.2 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 6.93 | U | 7.85 | U | 21.5 | U | 22.5 | U | 20.7 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 7.95 | U | 9.02 | U | 61.2 | U | 64.1 | U | 59.1 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 57.2 | U | 64.8 | U | 0.41 | U | 0.43 | U | 0.4 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 39.8 | U | 45 | U | 0.19 | U | 0.2 | U | 0.19 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 55.6 | U | 63 | U | 0.23 | U | 0.24 | U | 0.22 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 52.5 | U | 59.4 | U | 0.38 | U | 0.4 | U | 0.36 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 31.8 | U | 36 | U | 3.6 | B | 3.8 | B | 3.9 | B |
| 67-64-1 | Acetone | 200 | µg/kg | 301 | U | 340 | U | 2.82 | U | **408** | | 74.7 | |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 23.8 | U | 27 | U | 0.23 | U | 1.1 | | 0.22 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 33.4 | U | 37.8 | U | 0.36 | U | 0.38 | U | 0.35 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 22.3 | U | 25.2 | U | 0.17 | U | 0.18 | U | 0.17 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 42.9 | U | 48.6 | U | 0.17 | U | 0.18 | U | 0.17 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 30.2 | U | 34.2 | U | 0.19 | U | 0.2 | U | 0.19 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 20.7 | U | 23.4 | U | 0.18 | U | 0.19 | U | 0.18 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 25.4 | U | 28.8 | U | 0.25 | U | 0.26 | U | 0.24 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 162 | U | 184 | U | 4.65 | U | 4.9 | U | 4.49 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 17.5 | U | 19.8 | U | 1.2 | | 1.1 | | 1 | |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 28.6 | U | 32.4 | U | 0.24 | U | 0.25 | U | 0.23 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 28.6 | U | 32.4 | U | 0.21 | U | 0.22 | U | 0.2 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 25.4 | U | 28.8 | U | 0.16 | U | 0.17 | U | 0.15 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 28.6 | U | 32.4 | U | 0.21 | U | 0.22 | U | 0.2 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 27 | U | 30.6 | U | 0.23 | U | 0.24 | U | 0.22 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 12.7 | U | 14.4 | U | 0.27 | U | 0.29 | U | 0.26 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 49.3 | U | 55.8 | U | 0.22 | U | 0.23 | U | 0.21 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 22.3 | U | 25.2 | U | 0.16 | U | 0.17 | U | 0.15 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 28.6 | U | 32.4 | U | 0.25 | U | 0.26 | U | 0.24 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 19.1 | U | 21.6 | U | 0.27 | U | 0.29 | U | 0.26 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 81.1 | U | 91.8 | U | 1.94 | U | 2.04 | U | 1.87 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 142 | U | 160 | U | 1.69 | U | 1.78 | U | 1.63 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 12.7 | U | 14.4 | U | 0.21 | U | 0.22 | U | 0.2 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 25.4 | U | 28.8 | U | 0.23 | U | 1.1 | | 0.94 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 20.7 | U | 23.4 | U | 0.23 | U | 0.24 | U | 0.22 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 11.1 | U | 12.6 | U | 0.15 | U | 0.16 | U | 0.14 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 896 | | 1290 | | 0.13 | U | 0.13 | U | 0.12 | U |
| 100-42-5 | Styrene | NA * | µg/kg | 12.7 | U | 14.4 | U | 0.21 | U | 0.22 | U | 0.2 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 597 | | 848 | | 0.28 | U | 0.66 | | 1.7 | |
| 95-47-6 | o-xylene | 1200 | µg/kg | 491 | | 857 | | 0.21 | U | 0.22 | U | 0.99 | |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **1984** | | **2995** | | **ND** | | **1.76** | | **3.63** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 124 | U | 140 | U | 136 | U | 71.3 | U | 65.7 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 119 | U | 135 | U | 176 | U | 92.3 | U | 85.1 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 122 | U | 138 | U | 166 | U | 86.7 | U | 79.9 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 130 | U | 147 | U | 181 | U | 94.6 | U | 87.2 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 126 | U | 143 | U | 172 | U | 90 | U | 82.9 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 128 | U | 145 | U | 194 | U | 101 | U | 93.5 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 106 | U | 120 | U | 174 | U | 90.9 | U | 83.8 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 138 | U | 156 | U | 183 | U | 95.9 | U | 88.4 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 102 | U | 116 | U | 174 | U | 91 | U | 83.9 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 124 | U | 141 | U | 160 | U | 83.9 | U | 77.3 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 131 | U | 148 | U | 154 | U | 80.6 | U | 74.3 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 143 | U | 162 | U | 191 | U | 100 | U | 92.4 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 131 | U | 148 | U | 156 | U | 81.7 | U | 75.3 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 99.6 | U | 113 | U | 145 | U | 76.1 | U | 70.1 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 60.2 | U | 68.3 | U | 136 | U | 71.2 | U | 65.6 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 120 | U | 136 | U | 178 | U | 93.4 | U | 86.1 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 104 | U | 118 | U | 161 | U | 84.1 | U | 77.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 126 | U | 143 | U | 196 | U | 103 | U | 94.5 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 131 | U | 149 | U | 97 | U | 50.8 | U | 46.9 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 126 | U | 143 | U | 183 | U | 95.9 | U | 88.4 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 102 | U | 115 | U | 188 | U | 98.7 | U | 91 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 106 | U | 120 | U | 81.1 | U | 42.5 | U | 39.1 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-07914-007 | | 00-07914-008 | | 01-03882-005 | | 01-03882-004 | | 01-03882-003 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-14 | | SB-14 | | SB-15 | | SB-15 | | SB-15 | |
| | Depth: | Objectives / | | 10.5'-11.8' | | 16'-18' | | 2' - 4' | | 10' - 11' | | 21.5' - 22' | |
| | Laboratory ID: | Eastern USA | | J9482-7 | | J9482-8 | | K9161-5 | | K9161-4 | | K9161-3 | |
| | Sampling Date: | Background | | 08/16/2000 | | 08/16/2000 | | 04/24/2001 | | 04/23/2001 | | 04/23/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 101 | U | 114 | U | 161 | U | 84.5 | U | 77.8 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 96.9 | U | 110 | U | 144 | U | 75.2 | U | 69.3 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 116 | U | 131 | U | 187 | U | 98.1 | U | 90.4 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 91.2 | U | 103 | U | 141 | U | 73.7 | U | 67.9 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 111 | U | 126 | U | 187 | U | 98 | U | 90.3 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 102 | U | 116 | U | 139 | U | 72.7 | U | 67 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 97.9 | U | 111 | U | 89.5 | U | 46.9 | U | 43.2 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 116 | U | 132 | U | 133 | U | 69.5 | U | 64.1 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 75.7 | U | 85.8 | U | 298 | U | 156 | U | 144 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 2540 | | 1020 | | 192 | U | 101 | U | 92.9 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 97.3 | U | 110 | U | 127 | U | 66.5 | U | 61.3 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 71.2 | U | 80.8 | U | 45.7 | J | 64.4 | U | 59.3 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 113 | U | 128 | U | 221 | U | 116 | U | 107 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 85.6 | U | 97.1 | U | 103 | U | 54.1 | U | 49.8 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 108 | U | 122 | U | 174 | U | 91.3 | U | 84.1 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 102 | U | 115 | U | 183 | U | 96.1 | U | 88.5 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 103 | U | 117 | U | 167 | U | 87.6 | U | 80.7 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 113 | U | 128 | U | 164 | U | 85.9 | U | 79.2 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 76.6 | U | 86.8 | U | 111 | U | 58.4 | U | 53.8 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 490 | | 249 | J | 130 | U | 68.3 | U | 63 | U |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 249 | U | 49 | JB | 356 | JB | 150 | JB | 168 | JB |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 75.9 | U | 86.1 | U | 109 | U | 57.2 | U | 52.7 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 246 | U | 279 | U | 189 | U | 99 | U | 91.3 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 439 | U | 67.7 | J | 662 | JB | 200 | JB | 331 | JB |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 1370 | U | 77.5 | U | 141 | U | 73.7 | U | 67.9 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 49000 | | 13300 | | 197 | U | 103 | U | 33.1 | J |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 4340 | | 2030 | | 148 | J | 96.2 | U | 88.6 | U |
| 120-12-7 | Anthracene | 50000* | µg/kg | 24500 | | 8420 | | 110 | J | 85.9 | U | 79.2 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 3960 | | 1090 | | 418 | | 63.4 | U | 58.4 | U |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 30400 | | 9680 | | 724 | | 76 | U | 70 | U |
| 86-73-7 | Fluorene | 50000* | µg/kg | 24800 | | 8080 | | 200 | U | 105 | U | 35.3 | J |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | **101000** | | 19900 | | 161 | U | 84.3 | U | 24.3 | J |
| 91-20-3 | Naphthalene | 13000 | µg/kg | **180000** | | **22800** | | 189 | U | 99 | U | 69.5 | J |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | **78600** | | 29400 | | 240 | | 84.2 | U | 89.3 | |
| 129-00-0 | Pyrene | 50000* | µg/kg | 34200 | | 11700 | | 820 | | 62.9 | U | 58 | U |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 530800 | | 126400 | | 2460 | | 0 | | 251.5 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | **11100** | | **5670** | | 562 | | 60 | U | 55.3 | U |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | **5340** | | **2530** | | 598 | | 98.2 | U | 90.5 | U |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | **7240** | | **3480** | | 365 | | 79.7 | U | 73.4 | U |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **11500** | | **4880** | | **626** | | 65.1 | U | 60 | U |
| 218-01-9 | Chrysene | 400 | µg/kg | **10400** | | **5120** | | **546** | | 59.8 | U | 55.1 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | **3280** | | 1040 | | 336 | | 76.1 | U | 70.1 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | **1140** | | **422** | | 137 | U | 71.5 | U | 65.9 | U |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 50000 | | 23142 | | 3033 | | 0 | | 0 | |
| | **Total PAHs** | | | **580800** | | **149542** | | **5493** | | **0** | | **251.5** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 3380 | | 4310 | | 5720 | | 5230 | | 5130 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 2.02 | | 1.47 | | 0.21 | U | 0.22 | U | 0.5 | |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.46 | | 0.49 | U | 0.27 | U | 0.29 | U | 0.26 | U |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 38.8 | | 46.1 | | 42.1 | | 66.3 | | 112 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | **0.3** | | **0.32** | | 0.068 | U | 0.072 | U | 0.066 | U |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.56 | | **1.09** | | 0.051 | J | 0.072 | U | 0.066 | U |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 1090 | | 2130 | | 3370 | | 891 | | 7060 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 6.22 | | 9.49 | | **10.9** | | **10.3** | | **43.9** | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 2.83 | | 6.32 | | 4.46 | | 3.85 | | 11.1 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 4.34 | | 17.1 | | 11.9 | | 4.99 | | 12.2 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **5450** | | **10100** | | **9180** | | **7590** | | **11000** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 0.17 | U | 0.19 | U | 35 | | 2.24 | | 1.91 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | 1320 | | 2720 | | 3090 | | 2030 | | **7950** | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 54.5 | | 71.9 | | 183 | | 69 | | 108 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.011 | U | 0.013 | U | **0.1** | | 0.028 | | 0.01 | |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 4.1 | | 8.41 | | 7.34 | | 5.92 | | **48** | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 298 | | 1400 | | 879 | | 444 | | 3420 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.48 | | 1.61 | | 0.27 | U | 0.28 | U | 0.26 | U |

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SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-07914-007 | | 00-07914-008 | | 01-03882-005 | | 01-03882-004 | | 01-03882-003 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-14 | | SB-14 | | SB-15 | | SB-15 | | SB-15 | |
| | Depth: | Objectives / | | 10.5'-11.8' | | 16'-18' | | 2' - 4' | | 10' - 11' | | 21.5' - 22' | |
| | Laboratory ID: | Eastern USA | | J9482-7 | | J9482-8 | | K9161-5 | | K9161-4 | | K9161-3 | |
| | Sampling Date: | Background | | 08/16/2000 | | 08/16/2000 | | 04/24/2001 | | 04/23/2001 | | 04/23/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.1 | J | 1.24 | | 0.086 | U | 0.09 | U | 0.083 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 257 | | 439 | | 92.6 | | 201 | | 136 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.23 | U | 0.26 | U | 0.22 | U | 0.23 | U | 0.21 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 7.73 | | 15.5 | | 13.9 | | 19.8 | | 20 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **21.3** | | **25.3** | | **40.3** | | **21.3** | | **26.9** | |
| 57-12-5 | Cyanide | | mg/kg | 0.37 | | 0.47 | | 0.18 | J | 0.13 | J | 0.067 | J |
| | % Solids | | % | 78.7 | | 69.4 | | 87.6 | | 83.6 | | 90.7 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03882-002 | | 01-03882-001 | | 00-07683-002 | | 00-07757-001 | | 00-07757-002 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-16 | | SB-16 | | SB-17 | | SB-17 | | SB-17 | |
| | Depth: | Objectives / | | 2' - 4' | | 9.5' - 10' | | 2'-4' | | 26'-28' | | 40'-44' | |
| | Laboratory ID: | Eastern USA | | K9161-2 | | K9161-1 | | J7186-2 | | J7190-1 | | J7190-2 | |
| | Sampling Date: | Background | | 04/24/2001 | | 04/23/2001 | | 08/08/2000 | | 08/10/2000 | | 08/10/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 42.9 | U | 45.9 | U | 2.24 | U | 2.43 | U | 2.6 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 183 | U | 196 | U | 10.6 | U | 11.4 | U | 12.2 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 96.7 | U | 104 | U | 2.34 | U | 2.53 | U | 2.71 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 40.5 | U | 43.4 | U | 1.76 | U | 1.9 | U | 2.04 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 91.7 | U | 98.3 | U | 3.96 | U | 4.28 | U | 4.59 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 157 | | 22.8 | U | 6 | U | 6.48 | U | 6.94 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 60.8 | U | 65.1 | U | 102 | | 7.44 | U | 7.97 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.41 | U | 48.6 | U | 0.38 | U | 2.02 | U | 0.43 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.19 | U | 18.2 | U | 0.43 | U | 2.32 | U | 0.5 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.23 | U | 38 | U | 0.38 | U | 2.02 | U | 0.43 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.37 | U | 45.6 | U | 0.21 | U | 1.13 | U | 0.24 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 2.6 | B | **144** | | 7 | B | 24 | B | 8.6 | |
| 67-64-1 | Acetone | 200 | µg/kg | 69.7 | | 225 | U | 4.82 | U | 25.8 | U | 5.51 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 0.23 | U | 47.1 | U | 0.3 | U | 1.61 | U | 2.2 | |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 0.36 | U | 27.4 | U | 0.23 | U | 1.25 | U | 0.27 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.17 | U | 21.3 | U | 0.18 | U | 0.95 | U | 0.2 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.17 | U | 33.4 | U | 0.46 | U | 2.44 | U | 0.52 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.19 | U | 45.6 | U | 0.56 | U | 2.98 | U | 0.64 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.18 | U | 22.8 | U | 0.19 | U | 1.01 | U | 0.22 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.25 | U | 30.4 | U | 0.33 | U | 1.79 | U | 0.38 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 4.61 | U | 380 | U | 2.79 | U | 14.9 | U | 3.19 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.16 | U | 30.4 | U | 0.31 | U | 1.67 | U | 0.36 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.24 | U | 27.4 | U | 0.3 | U | 1.61 | U | 0.34 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.2 | U | 19.8 | U | 0.21 | U | 1.13 | U | 0.24 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.16 | U | 24.3 | U | 0.2 | U | 1.07 | U | 0.23 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.2 | U | 22.8 | U | 0.28 | U | 1.49 | U | 0.32 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 0.23 | U | 30.4 | U | 0.33 | U | 1.79 | U | 0.38 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.27 | U | 21.3 | U | 0.32 | U | 1.73 | U | 0.37 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.21 | U | 30.4 | U | 0.52 | U | 2.8 | U | 0.6 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 0.16 | U | 15.2 | U | 0.31 | U | 1.67 | U | 0.36 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.25 | U | 22.8 | U | 0.46 | U | 2.44 | U | 0.52 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.27 | U | 13.7 | U | 0.53 | U | 2.86 | U | 0.61 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 1.92 | U | 76 | U | 1.64 | U | 8.81 | U | 1.88 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 1.67 | U | 60.8 | U | 1.72 | U | 9.22 | U | 1.97 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.2 | U | 16.7 | U | 0.31 | U | 1.67 | U | 0.36 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 0.23 | U | 22.8 | U | 0.37 | U | 6.7 | | 0.42 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.23 | U | 33.4 | U | 0.56 | U | 2.98 | U | 0.64 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 0.15 | U | 16.7 | U | 0.32 | U | 1.73 | U | 0.37 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 0.12 | U | 1760 | | 0.38 | U | 328 | | 1.6 | |
| 100-42-5 | Styrene | NA * | µg/kg | 0.2 | U | 35 | U | 0.32 | U | 1.49 | U | 0.37 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 0.28 | U | 349 | | 0.7 | U | 623 | | 0.8 | U |
| 95-47-6 | o-xylene | 1200 | µg/kg | 0.2 | U | 510 | | 0.31 | U | 644 | | 0.36 | U |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **ND** | | **2619** | | **0** | | **1601.7** | | **1.6** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 67.6 | U | 362 | U | 65.6 | U | 70.9 | U | 71.6 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 87.5 | U | 469 | U | 84.9 | U | 91.9 | U | 90 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 82.2 | U | 440 | U | 79.8 | U | 86.3 | U | 74 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 89.7 | U | 481 | U | 87 | U | 94.1 | U | 89.9 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 85.3 | U | 457 | U | 82.7 | U | 89.5 | U | 91.8 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 96.1 | U | 515 | U | 93.3 | U | 101 | U | 92.8 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 86.2 | U | 462 | U | 83.6 | U | 90.4 | U | 73.8 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 90.9 | U | 487 | U | 88.2 | U | 95.4 | U | 53.7 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 86.3 | U | 462 | U | 83.7 | U | 90.6 | U | 60.5 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 79.5 | U | 426 | U | 77.1 | U | 83.4 | U | 75.1 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 76.4 | U | 409 | U | 74.1 | U | 80.2 | U | 93.5 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 95 | U | 509 | U | 92.2 | U | 99.7 | U | 103 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 77.4 | U | 415 | U | 75.1 | U | 81.3 | U | 69.5 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 72.1 | U | 386 | U | 70 | U | 75.7 | U | 79.2 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 67.5 | U | 361 | U | 65.5 | U | 70.8 | U | 44.4 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 88.5 | U | 474 | U | 85.9 | U | 92.9 | U | 81.5 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 79.7 | U | 427 | U | 77.3 | U | 83.7 | U | 76.1 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 97.2 | U | 521 | U | 94.3 | U | 102 | U | 84.3 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 48.2 | U | 258 | U | 46.8 | U | 50.6 | U | 93.3 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 90.9 | U | 487 | U | 88.2 | U | 95.4 | U | 85.6 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 93.5 | U | 501 | U | 90.8 | U | 98.2 | U | 58.2 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 40.2 | U | 216 | U | 39 | U | 42.2 | U | 139 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03882-002 | | 01-03882-001 | | 00-07683-002 | | 00-07757-001 | | 00-07757-002 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-16 | | SB-16 | | SB-17 | | SB-17 | | SB-17 | |
| | Depth: | Objectives / | | 2' - 4' | | 9.5' - 10' | | 2'-4' | | 26'-28' | | 40'-44' | |
| | Laboratory ID: | Eastern USA | | K9161-2 | | K9161-1 | | J7186-2 | | J7190-1 | | J7190-2 | |
| | Sampling Date: | Background | | 04/24/2001 | | 04/23/2001 | | 08/08/2000 | | 08/10/2000 | | 08/10/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 80 | U | 429 | U | 77.7 | U | 84 | U | 93.5 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 71.3 | U | 382 | U | 69.2 | U | 74.9 | U | 86.6 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 93 | U | 498 | U | 90.2 | U | 97.6 | U | 86.7 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 69.8 | U | 374 | U | 67.8 | U | 73.3 | U | 60.6 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 92.9 | U | 498 | U | 90.1 | U | 97.5 | U | 77.6 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 68.9 | U | 369 | U | 66.9 | U | 72.4 | U | 64 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 44.4 | U | 238 | U | 43.1 | U | 46.6 | U | 54.6 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 65.9 | U | 353 | U | 63.9 | U | 69.1 | U | 76.5 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 148 | U | 793 | U | 144 | U | 155 | U | 104 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 95.6 | U | 512 | U | 92.7 | U | 3970 | | 82.5 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 63 | U | 338 | U | 61.2 | U | 66.2 | U | 47.6 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 61 | U | 327 | U | 59.2 | U | 64 | U | 60.8 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 110 | U | 589 | U | 107 | U | 115 | U | 84.7 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 51.2 | U | 275 | U | 49.7 | U | 53.8 | U | 81.3 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 86.5 | U | 464 | U | 83.9 | U | 90.8 | U | 83.6 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 91 | U | 488 | U | 88.3 | U | 95.6 | U | 74.7 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 83 | U | 445 | U | 80.5 | U | 87.1 | U | 79.5 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 81.4 | U | 436 | U | 79 | U | 85.4 | U | 72.4 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 55.3 | U | 296 | U | 53.7 | U | 58.1 | U | 53.6 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 64.7 | U | 347 | U | 93.5 | | 67.9 | U | 111 | |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 130 | JB | 261 | JB | 31.9 | J | 257 | U | 248 | U |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 54.2 | U | 290 | U | 52.6 | U | 56.9 | U | 65.7 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 93.9 | U | 503 | U | 91.1 | U | 98.5 | U | 154 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 241 | JB | 377 | JB | 47.3 | JB | 387 | U | 468 | U |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 69.8 | U | 374 | U | 67.8 | U | 73.3 | U | 68.2 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 31.7 | J | 9560 | | 44 | J | **61700** | | 43.3 | J |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 119 | | 3760 | | 147 | | 7640 | | 74.4 | U |
| 120-12-7 | Anthracene | 50000* | µg/kg | 112 | | 11400 | | 178 | | 29700 | | 164 | |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 297 | | 5230 | | 528 | | 5100 | | 47.1 | U |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 753 | | 19900 | | 1510 | | 37900 | | 56.1 | |
| 86-73-7 | Fluorene | 50000* | µg/kg | 55.6 | J | 8210 | | 61.6 | J | 33500 | | 116 | |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 104 | | 1960 | | 47.3 | J | **72100** | | 34.4 | J |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 334 | | 3550 | | 106 | | **167000** | | 150 | |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 339 | | 28400 | | 826 | | **95500** | | 163 | |
| 129-00-0 | Pyrene | 50000* | µg/kg | 729 | | 27200 | | 1370 | | **53200** | | 79 | |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 2874.3 | | 119170 | | 4817.9 | | 563340 | | 805.8 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | **592** | | **13500** | | **787** | | **21400** | | 47 | U |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 527 | | **7780** | | 762 | | **10300** | | 61.6 | U |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 367 | | **5170** | | 602 | | **8930** | | 56.5 | U |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **565** | | **9510** | | **735** | | **16800** | | 45.7 | U |
| 218-01-9 | Chrysene | 400 | µg/kg | **498** | | **11800** | | **790** | | **17900** | | 57.8 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 272 | | **4300** | | 436 | | **4720** | | 43.7 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | 67.8 | U | **1550** | | **242** | | **1970** | | 47.1 | U |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 2821 | | 53610 | | 4354 | | 82020 | | 0 | |
| | **Total PAHs** | | | **5695.3** | | **172780** | | **9171.9** | | **645360** | | **805.8** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 4770 | | 5410 | | 7670 | | 3480 | | 1290 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.045 | J | 0.22 | U | 0.57 | U | 0.61 | U | 0.65 | U |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.27 | U | 0.29 | U | 4.6 | | 1.01 | | 0.19 | |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 53.8 | | 44.5 | | 51.4 | | 37 | | 12.3 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.068 | U | 0.073 | U | **0.44** | | **0.24** | | 0.1 | J |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.062 | J | 0.073 | U | **1.42** | | 0.69 | | 0.25 | |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 7.48 | U | 1410 | | 9150 | | 24400 | | 11800 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 8.44 | | **10.7** | | **12.2** | | 7.04 | | 2.79 | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 4.43 | | 4.87 | | 6.11 | | 4.36 | | 1.98 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 14.2 | | 8.68 | | 17 | | 8.68 | | 5.14 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **8270** | | **11600** | | **12100** | | **7590** | | **33900** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 39.9 | | 14.6 | | 31.5 | | 3.09 | | 0.38 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | 3730 | | 2440 | | 4760 | | **16900** | | **7660** | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 146 | | 73.6 | | 202 | | 98.1 | | 42.3 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | **0.14** | | **0.17** | | **0.35** | | 0.01 | U | 0.011 | U |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 7.35 | | 7.89 | | 9.77 | | 6.52 | | 3.15 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 1180 | | 1000 | | 1730 | | 330 | | 418 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.27 | U | 0.29 | U | 0.2 | U | 0.21 | U | 0.23 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03882-002 | | 01-03882-001 | | 00-07683-002 | | 00-07757-001 | | 00-07757-002 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-16 | | SB-16 | | SB-17 | | SB-17 | | SB-17 | |
| | Depth: | Objectives / | | 2' - 4' | | 9.5' - 10' | | 2'-4' | | 26'-28' | | 40'-44' | |
| | Laboratory ID: | Eastern USA | | K9161-2 | | K9161-1 | | J7186-2 | | J7190-1 | | J7190-2 | |
| | Sampling Date: | Background | | 04/24/2001 | | 04/23/2001 | | 08/08/2000 | | 08/10/2000 | | 08/10/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.085 | U | 0.091 | U | 0.78 | | 0.36 | | 0.24 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 140 | | 137 | | 566 | | 684 | | 402 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.22 | U | 0.24 | U | 0.2 | U | 0.21 | U | 0.23 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 12.4 | | 14.7 | | 18.7 | | 9.99 | | 3.34 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **38.6** | | **100** | | **87.5** | | **30.2** | | 7.45 | |
| 57-12-5 | Cyanide | | mg/kg | 0.16 | J | 2.17 | | 0.26 | J | 0.28 | U | 0.27 | U |
| | % Solids | | % | 88.2 | | 82.3 | | 90 | | 84.1 | | 78.5 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-07757-003 | | 00-07757-004 | | 00-07683-001 | | 00-07683-005 | | 00-07683-006 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-17 | | SB-17 | | SB-18 | | SB-18 | | SB-18 | |
| | Depth: | Objectives / | | 54.5'-55' | | 55'-56' | | 2'-4' | | 26'-28' | | 59'-60' | |
| | Laboratory ID: | Eastern USA | | J7190-3 | | J7190-4 | | J7186-1 | | J7190-5 | | J7190-6 | |
| | Sampling Date: | Background | | 08/10/2000 | | 08/10/2000 | | 08/08/2000 | | 08/11/2000 | | 08/11/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 2.44 | U | 2.46 | U | 2.31 | U | 2.47 | U | 2.53 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 11.5 | U | 11.6 | U | 10.9 | U | 11.6 | U | 11.9 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 2.54 | U | 2.57 | U | 2.41 | U | 2.58 | U | 2.64 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 1.91 | U | 1.93 | U | 1.81 | U | 1.94 | U | 1.98 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 4.3 | U | 4.34 | U | 4.07 | U | 4.36 | U | 4.46 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 6.51 | U | 6.57 | U | 6.16 | U | 6.61 | U | 6.75 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 7.48 | U | 7.54 | U | 7.08 | U | 7.59 | U | 7.76 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 1080 | U | 0.41 | U | 0.39 | U | 2.06 | U | 0.84 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 747 | U | 0.47 | U | 0.45 | U | 2.36 | U | 0.97 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 1050 | U | 0.41 | U | 0.39 | U | 2.06 | U | 0.84 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 986 | U | 0.23 | U | 0.22 | U | 1.15 | U | 0.47 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 597 | U | 8 | | 7.4 | B | 24.1 | B | 13.5 | |
| 67-64-1 | Acetone | 200 | µg/kg | 5650 | U | 5.21 | U | 5.03 | U | 26.3 | U | 10.8 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 448 | U | 2 | | 0.31 | U | 1.64 | U | 3.5 | |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 627 | U | 0.25 | U | 0.24 | U | 1.27 | U | 0.52 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 418 | U | 0.19 | U | 0.19 | U | 0.97 | U | 0.4 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 806 | U | 0.49 | U | 0.48 | U | 2.48 | U | 1.02 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 568 | U | 0.6 | U | 0.58 | U | 3.03 | U | 1.24 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 388 | U | 0.2 | U | 0.2 | U | 1.03 | U | 0.42 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 478 | U | 0.36 | U | 0.35 | U | 1.82 | U | 0.74 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 3050 | U | 3.01 | U | 2.91 | U | 15.2 | U | 6.22 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 329 | U | 0.34 | U | 0.32 | U | 1.7 | U | 0.69 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 538 | U | 0.32 | U | 0.31 | U | 1.64 | U | 0.67 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 538 | U | 0.23 | U | 0.22 | U | 1.15 | U | 0.47 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 478 | U | 0.22 | U | 0.21 | U | 1.09 | U | 0.45 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 538 | U | 0.3 | U | 0.29 | U | 1.52 | U | 0.62 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 508 | U | 0.36 | U | 0.35 | U | 1.82 | U | 0.74 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 239 | U | 0.35 | U | 0.34 | U | 1.76 | U | 0.72 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 926 | U | 0.56 | U | 0.55 | U | 2.85 | U | 1.17 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 418 | U | 0.34 | U | 0.32 | U | 1.7 | U | 0.69 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 538 | U | 0.49 | U | 0.48 | U | 2.48 | U | 1.02 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 358 | U | 0.58 | U | 0.56 | U | 2.91 | U | 1.19 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 1520 | U | 1.78 | U | 1.72 | U | 8.97 | U | 3.67 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 2660 | U | 1.86 | U | 1.8 | U | 9.39 | U | 3.84 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 239 | U | 0.34 | U | 0.32 | U | 1.7 | U | 0.69 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | **80600** | | 0.4 | U | 0.38 | U | 2 | U | 0.82 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 388 | U | 0.6 | U | 0.58 | U | 3.03 | U | 1.24 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 209 | U | 0.35 | U | 0.34 | U | 1.76 | U | 0.72 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | **292000** | | 0.41 | U | 0.39 | U | 22.7 | | 0.84 | U |
| 100-42-5 | Styrene | NA * | µg/kg | 239 | U | 0.35 | U | 0.34 | U | 1.76 | U | 0.72 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | **372000** | | 0.76 | U | 0.73 | U | 19.9 | | 1.56 | U |
| 95-47-6 | o-xylene | 1200 | µg/kg | **174000** | | 0.34 | U | 0.32 | U | 22.2 | | 0.69 | U |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **918600** | | **0** | | **0** | | **64.8** | | **0** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 715 | U | 67.7 | U | 67.3 | U | 72.1 | U | 73.9 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 926 | U | 85.1 | U | 87.2 | U | 93.4 | U | 95.7 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 870 | U | 70 | U | 81.9 | U | 87.7 | U | 89.9 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 949 | U | 85 | U | 89.4 | U | 95.7 | U | 98.1 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 902 | U | 86.8 | U | 85 | U | 91 | U | 93.2 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 1020 | U | 87.7 | U | 95.8 | U | 103 | U | 105 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 912 | U | 69.7 | U | 85.9 | U | 92 | U | 94.2 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 962 | U | 50.8 | U | 90.6 | U | 97 | U | 99.4 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 913 | U | 57.1 | U | 86 | U | 92.1 | U | 94.4 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 841 | U | 70.9 | U | 79.2 | U | 84.8 | U | 86.9 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 809 | U | 88.3 | U | 76.2 | U | 81.6 | U | 83.6 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 1010 | U | 97.4 | U | 94.7 | U | 101 | U | 104 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 820 | U | 65.6 | U | 77.2 | U | 82.6 | U | 84.7 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 763 | U | 74.9 | U | 71.9 | U | 77 | U | 78.9 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 714 | U | 42 | U | 67.2 | U | 72 | U | 73.8 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 937 | U | 77 | U | 88.3 | U | 94.5 | U | 96.8 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 844 | U | 71.9 | U | 79.4 | U | 85.1 | U | 87.2 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 1030 | U | 79.7 | U | 96.8 | U | 104 | U | 106 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 510 | U | 88.2 | U | 48 | U | 51.4 | U | 52.7 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 962 | U | 80.9 | U | 90.6 | U | 97 | U | 99.4 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 990 | U | 55 | U | 93.2 | U | 99.8 | U | 102 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 426 | U | 132 | U | 40.1 | U | 43 | U | 44 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-07757-003 | | 00-07757-004 | | 00-07683-001 | | 00-07683-005 | | 00-07683-006 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-17 | | SB-17 | | SB-18 | | SB-18 | | SB-18 | |
| | Depth: | Objectives / | | 54.5'-55' | | 55'-56' | | 2'-4' | | 26'-28' | | 59'-60' | |
| | Laboratory ID: | Eastern USA | | J7190-3 | | J7190-4 | | J7186-1 | | J7190-5 | | J7190-6 | |
| | Sampling Date: | Background | | 08/10/2000 | | 08/10/2000 | | 08/08/2000 | | 08/11/2000 | | 08/11/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 847 | U | 88.3 | U | 79.8 | U | 85.4 | U | 87.5 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 755 | U | 81.8 | U | 71.1 | U | 76.1 | U | 78 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 984 | U | 82 | U | 92.7 | U | 99.2 | U | 102 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 739 | U | 57.2 | U | 69.6 | U | 74.5 | U | 76.4 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 983 | U | 73.3 | U | 92.5 | U | 99.1 | U | 102 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 730 | U | 60.5 | U | 68.7 | U | 73.6 | U | 75.4 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 470 | U | 51.6 | U | 44.3 | U | 47.4 | U | 48.6 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 697 | U | 72.2 | U | 65.7 | U | 70.3 | U | 72 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 1570 | U | 98.2 | U | 147 | U | 158 | U | 162 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | **56500** | | 78 | U | 95.3 | U | 102 | U | 105 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 667 | U | 45 | U | 62.8 | U | 67.3 | U | 68.9 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 646 | U | 57.5 | U | 60.8 | U | 65.1 | U | 66.7 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 1160 | U | 80 | U | 109 | U | 117 | U | 120 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 542 | U | 76.8 | U | 51.1 | U | 54.7 | U | 56 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 916 | U | 79 | U | 86.2 | U | 92.3 | U | 94.6 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 964 | U | 70.6 | U | 90.7 | U | 97.2 | U | 99.6 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 878 | U | 75.1 | U | 82.7 | U | 88.6 | U | 90.8 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 862 | U | 68.4 | U | 81.1 | U | 86.9 | U | 89 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 586 | U | 50.6 | U | 55.1 | U | 59 | U | 60.5 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 23200 | | 39.8 | J | 64.5 | U | 69.1 | U | 70.8 | U |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 2590 | U | 234 | U | 40.7 | J | 261 | U | 268 | U |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 574 | U | 62 | U | 54 | U | 57.8 | U | 59.3 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 994 | U | 146 | U | 93.6 | U | 100 | U | 103 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 3900 | U | 25.3 | JB | 41.8 | JB | 393 | U | 403 | U |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 739 | U | 64.4 | U | 69.6 | U | 74.5 | U | 76.4 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | **356000** | | 37.3 | J | 97.6 | U | 1280 | | 107 | U |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | **60200** | | 70.3 | U | 90.9 | U | 7480 | | 99.7 | U |
| 120-12-7 | Anthracene | 50000* | µg/kg | **195000** | | 63.9 | | 81.1 | U | 1540 | | 89 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 25000 | | 44.5 | U | 59.9 | U | 6360 | | 65.7 | U |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | **295000** | | 90.4 | | 71.8 | U | 11000 | | 78.7 | U |
| 86-73-7 | Fluorene | 50000* | µg/kg | **257000** | | 54.2 | J | 99.2 | U | 245 | | 109 | U |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | **690000** | | 86.7 | | 79.7 | U | 177 | | 87.4 | U |
| 91-20-3 | Naphthalene | 13000 | µg/kg | **1850000** | | 376 | | 93.6 | U | 815 | | 103 | U |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | **757000** | | 330 | | 79.6 | U | 876 | | 87.3 | U |
| 129-00-0 | Pyrene | 50000* | µg/kg | **354000** | | 137 | | 26 | J | 6100 | | 65.2 | U |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 4839200 | | 1175.5 | | 26 | | 35873 | | 0 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | **118000** | | 43.4 | J | 56.7 | U | **8760** | | 62.2 | U |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | **52500** | | 58.2 | U | 92.8 | U | **10600** | | 102 | U |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | **70600** | | 53.4 | U | 75.3 | U | **8740** | | 82.6 | U |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **93400** | | 24.1 | J | 61.5 | U | **22400** | | 67.5 | U |
| 218-01-9 | Chrysene | 400 | µg/kg | **101000** | | 39.8 | J | 56.5 | U | **10600** | | 62 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | **25000** | | 41.3 | U | 71.9 | U | **5770** | | 78.9 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | **10000** | | 44.5 | U | 67.6 | U | **2280** | | 74.2 | U |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 470500 | | 107.3 | | 0 | | 69150 | | 0 | |
| | **Total PAHs** | | | **5309700** | | **1282.8** | | **26** | | **105023** | | **0** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 1690 | | 3380 | | 3290 | | 2080 | | 7460 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.61 | U | 0.61 | U | 0.59 | U | 0.62 | U | 0.63 | U |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 1.23 | | 0.76 | | 1 | | 0.42 | | 0.42 | U |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 17.1 | | 39.6 | | 33.4 | | 13.6 | | 88.3 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.14 | | **0.24** | | **0.26** | | **0.18** | | **0.38** | |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.42 | | 0.73 | | 0.63 | | 0.38 | | **1.45** | |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 15700 | | 15600 | | 7880 | | 9180 | | 1180 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 4.76 | | 8.83 | | 6.53 | | 4.73 | | **15.5** | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 2.59 | | 4.48 | | 3.13 | | 2.81 | | 8.39 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 7.88 | | 10.2 | | 10.2 | | 6.46 | | 13.8 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **4700** | | **8290** | | **5660** | | **4710** | | **15400** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 1.9 | | 1.08 | | 38.4 | | 0.96 | | 1.86 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | **8500** | | **9110** | | **5220** | | **6510** | | **9140** | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 63.5 | | 108 | | 126 | | 59.1 | | 269 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.01 | U | 0.011 | U | 0.34 | | 0.011 | U | 0.011 | U |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 4.32 | | 7.4 | | 5.41 | | 4.02 | | **13.3** | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 962 | | 2450 | | 954 | | 716 | | 4460 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.21 | U | 0.22 | U | 0.21 | U | 0.22 | U | 0.22 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-07757-003 | | 00-07757-004 | | 00-07683-001 | | 00-07683-005 | | 00-07683-006 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-17 | | SB-17 | | SB-18 | | SB-18 | | SB-18 | |
| | Depth: | Objectives / | | 54.5'-55' | | 55'-56' | | 2'-4' | | 26'-28' | | 59'-60' | |
| | Laboratory ID: | Eastern USA | | J7190-3 | | J7190-4 | | J7186-1 | | J7190-5 | | J7190-6 | |
| | Sampling Date: | Background | | 08/10/2000 | | 08/10/2000 | | 08/08/2000 | | 08/11/2000 | | 08/11/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.23 | U | 0.86 | | 1.39 | | 0.097 | J | 2.39 | |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 635 | | 636 | | 365 | | 386 | | 887 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.21 | U | 0.22 | U | 0.21 | U | 0.22 | U | 0.22 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 7.21 | | 13.3 | | 8.93 | | 6.56 | | 24.8 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | 9.59 | | **20.5** | | **32.4** | | 14.5 | | **39** | |
| 57-12-5 | Cyanide | | mg/kg | 0.27 | U | 0.28 | U | 0.22 | J | 0.28 | U | 0.28 | U |
| | % Solids | | % | 83.7 | | 83 | | 85.9 | | 82.5 | | 80.7 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04230-005 | | 01-04367-001 | | 01-04367-002 | | 01-04367-003 | | 01-03839-005 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-19 (TP Wat) | | SB-19 | | SB-19 | | SB-19 | | SB-20 | |
| | Depth: | Objectives / | | 2' - 3' | | 5' - 6' | | 12' - 14' | | 48' - 52' | | 3' - 4' | |
| | Laboratory ID: | Eastern USA | | | | K9270-1 | | K9270-2 | | K9270-3 | | K9155-5 | |
| | Sampling Date: | Background | | 05/22/01 | | 06/21/2001 | | 06/21/2001 | | 06/21/2001 | | 04/19/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | <36 | U | 7.61 | U | 7.95 | U | 8.32 | U | 42.7 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | <74 | U | 9.27 | U | 9.69 | U | 10.1 | U | 182 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | <36 | U | 6.61 | U | 6.91 | U | 7.23 | U | 96.3 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | <36 | U | 8.27 | U | 8.65 | U | 9.05 | U | 40.3 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | <36 | U | 10.3 | U | 10.8 | U | 11.3 | U | 91.3 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | <36 | U | 6.18 | U | 6.46 | U | 6.76 | U | 21.2 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | <36 | U | 6.22 | U | 6.51 | U | 6.81 | U | 60.5 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | <10 | U | 0.41 | U | 0.43 | U | 0.45 | U | 0.41 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | <10 | U | 0.19 | U | 0.2 | U | 0.21 | U | 0.19 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | <10 | U | 0.23 | U | 0.24 | U | 0.25 | U | 0.23 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | <10 | U | 0.38 | U | 0.4 | U | 0.41 | U | 0.37 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 5 | JB | 6.7 | B | 13.9 | B | 11.3 | B | 1.9 | |
| 67-64-1 | Acetone | 200 | µg/kg | 2 | JB | 5.7 | U | **233** | | 57.5 | | 2.79 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | <10 | U | 0.23 | U | 3.1 | | 0.95 | | 0.23 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | <10 | U | 0.36 | U | 0.38 | U | 0.4 | U | 0.36 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | <10 | U | 0.17 | U | 0.18 | U | 0.19 | U | 0.17 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | <10 | U | 0.17 | U | 0.18 | U | 0.19 | U | 0.17 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | <10 | U | 0.19 | U | 0.2 | U | 0.21 | U | 0.19 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | <10 | U | 0.18 | U | 0.19 | U | 0.2 | U | 0.18 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | <10 | U | 0.25 | U | 0.26 | U | 0.28 | U | 0.25 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | <10 | U | 4.65 | U | 4.9 | U | 5.1 | U | 4.61 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | <10 | U | 0.16 | U | 0.17 | U | 0.17 | U | 0.16 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | <10 | U | 0.24 | U | 0.25 | U | 0.26 | U | 0.24 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | <10 | U | 0.21 | U | 0.22 | U | 0.22 | U | 0.2 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | <10 | U | 0.16 | U | 0.17 | U | 0.17 | U | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | <10 | U | 0.21 | U | 0.22 | U | 0.22 | U | 0.2 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | <10 | U | 0.23 | U | 0.24 | U | 0.25 | U | 0.23 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | <10 | U | 0.27 | U | 0.29 | U | 0.3 | U | 0.27 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | <10 | U | 0.22 | U | 0.23 | U | 0.24 | U | 0.21 | U |
| 71-43-2 | Benzene | 60 | µg/kg | <10 | U | 1.3 | | 0.17 | U | 0.17 | U | 0.16 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | <10 | U | 0.25 | U | 0.26 | U | 0.28 | U | 0.25 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | <10 | U | 0.27 | U | 0.29 | U | 0.3 | U | 0.27 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | <10 | U | 5.7 | U | 6 | U | 6.25 | U | 1.92 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | <10 | U | 5.7 | U | 6 | U | 6.25 | U | 1.67 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | <10 | U | 0.68 | | 0.22 | U | 0.22 | U | 0.2 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | <10 | U | 0.23 | U | 0.24 | U | 0.25 | U | 1.9 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | <10 | U | 0.23 | U | 0.24 | U | 0.25 | U | 0.23 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | <10 | U | 0.15 | U | 0.16 | U | 0.16 | U | 0.15 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | <10 | U | 0.13 | U | 0.13 | U | 0.14 | U | 0.12 | U |
| 100-42-5 | Styrene | NA * | µg/kg | <10 | U | 0.21 | U | 0.22 | U | 0.22 | U | 0.2 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | <10 | U | 0.28 | U | 0.3 | U | 0.31 | U | 2.8 | |
| 95-47-6 | o-xylene | 1200 | µg/kg | <10 | U | 0.21 | U | 0.22 | U | 0.22 | U | 0.85 | |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **0** | | **1.98** | | **0** | | **0** | | **5.55** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | <360 | U | 727 | | 71.3 | U | 74.6 | U | 36.7 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | <360 | U | 442 | U | 92.3 | U | 96.6 | U | 35.3 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | <360 | U | 415 | U | 86.7 | U | 90.7 | U | 36 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | <360 | U | 452 | U | 94.6 | U | 99 | U | 38.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | <360 | U | 430 | U | 90 | U | 94.1 | U | 37.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | <360 | U | 485 | U | 101 | U | 106 | U | 37.8 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | <360 | U | 235 | J | 90.9 | U | 95.1 | U | 31.3 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | <360 | U | 459 | U | 95.9 | U | 100 | U | 40.8 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 18 | J | 1020 | | 91 | U | 95.2 | U | 30.2 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | <360 | U | 401 | U | 83.9 | U | 87.7 | U | 36.8 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | <360 | U | 386 | U | 80.6 | U | 84.4 | U | 38.7 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | <360 | U | 479 | U | 100 | U | 105 | U | 42.4 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | <360 | U | 391 | U | 81.7 | U | 85.5 | U | 38.8 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | <360 | U | 364 | U | 76.1 | U | 79.6 | U | 29.5 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | <360 | U | 320 | J | 71.2 | U | 74.5 | U | 17.8 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | <360 | U | 447 | U | 93.4 | U | 97.7 | U | 35.6 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | <360 | U | 402 | U | 84.1 | U | 88 | U | 30.9 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | <360 | U | 490 | U | 103 | U | 107 | U | 37.4 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | <360 | U | 243 | U | 50.8 | U | 53.2 | U | 38.9 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | <360 | U | 459 | U | 95.9 | U | 100 | U | 37.5 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | <360 | U | 472 | U | 98.7 | U | 103 | U | 30.2 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | <360 | U | 203 | U | 42.5 | U | 44.4 | U | 31.3 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04230-005 | | 01-04367-001 | | 01-04367-002 | | 01-04367-003 | | 01-03839-005 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-19 (TP Wat) | | SB-19 | | SB-19 | | SB-19 | | SB-20 | |
| | Depth: | Objectives / | | 2' - 3' | | 5' - 6' | | 12' - 14' | | 48' - 52' | | 3' - 4' | |
| | Laboratory ID: | Eastern USA | | | | K9270-1 | | K9270-2 | | K9270-3 | | K9155-5 | |
| | Sampling Date: | Background | | 05/22/01 | | 06/21/2001 | | 06/21/2001 | | 06/21/2001 | | 04/19/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | <360 | U | 404 | U | 84.5 | U | 88.4 | U | 29.8 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | <910 | U | 360 | U | 75.2 | U | 78.7 | U | 28.7 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | <360 | U | 469 | U | 98.1 | U | 103 | U | 34.3 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | <910 | U | 352 | U | 73.7 | U | 77.1 | U | 27 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | <360 | U | 468 | U | 98 | U | 103 | U | 32.9 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | <360 | U | 348 | U | 72.7 | U | 76.1 | U | 30.4 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | <910 | U | 224 | U | 46.9 | U | 49.1 | U | 29 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | <910 | U | 332 | U | 69.5 | U | 72.7 | U | 34.5 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | <910 | U | 746 | U | 156 | U | 163 | U | 22.4 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 29 | J | 3210 | | 101 | U | 106 | U | 16.6 | J |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | <360 | U | 318 | U | 66.5 | U | 69.6 | U | 28.8 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | <360 | U | 308 | U | 64.4 | U | 67.3 | U | 21.1 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | <360 | U | 554 | U | 116 | U | 121 | U | 33.4 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | <910 | U | 259 | U | 54.1 | U | 56.6 | U | 25.4 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | <910 | U | 436 | U | 91.3 | U | 95.5 | U | 31.9 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | <360 | U | 459 | U | 96.1 | U | 101 | U | 30.1 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | <360 | U | 419 | U | 87.6 | U | 91.6 | U | 30.5 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | <360 | U | 411 | U | 85.9 | U | 89.9 | U | 33.5 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | <910 | U | 279 | U | 58.4 | U | 61.1 | U | 22.7 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 35 | J | 2360 | | 68.3 | U | 71.5 | U | 138 | |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 35 | J | 1240 | U | 258 | U | 270 | U | 25.6 | J |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | <360 | U | 273 | U | 57.2 | U | 59.8 | U | 22.5 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | <360 | U | 474 | U | 99 | U | 104 | U | 72.9 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 25 | J | 475 | JB | 389 | U | 47.6 | J | 33.5 | J |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | <360 | U | 352 | U | 73.7 | U | 77.1 | U | 20.2 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | <360 | U | 1640 | | 41.9 | J | 108 | U | 53.8 | |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 260 | J | 5390 | | 96.2 | U | 101 | U | 388 | |
| 120-12-7 | Anthracene | 50000* | µg/kg | 250 | J | 14800 | | 85.9 | U | 89.9 | U | 220 | |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 860 | | 8300 | | 63.4 | U | 66.3 | U | 406 | |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 2700 | | **69000** | | 76 | U | 79.5 | U | 1000 | |
| 86-73-7 | Fluorene | 50000* | µg/kg | 59 | J | 6560 | | 105 | U | 110 | U | 55.3 | |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 90 | J | 463 | | 84.3 | U | 88.2 | U | 33.1 | |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 220 | J | 1410 | | 99 | U | 104 | U | 52.7 | |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 830 | | 42200 | | 84.2 | U | 88.1 | U | 601 | |
| 129-00-0 | Pyrene | 50000* | µg/kg | 2300 | | 51000 | | 62.9 | U | 65.8 | U | 1040 | |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 7569 | | 200763 | | 41.9 | | 0 | | 3849.9 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | **1400** | | **34500** | | 60 | U | 62.8 | U | **654** | |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | **1400** | | **19500** | | 98.2 | U | 103 | U | 656 | |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | **1400** | | **27500** | | 79.7 | U | 83.4 | U | 623 | |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **1400** | | **24300** | | 65.1 | U | 68.1 | U | **771** | |
| 218-01-9 | Chrysene | 400 | µg/kg | **1200** | | **28400** | | 59.8 | U | 62.6 | U | **763** | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 730 | | **10300** | | 76.1 | U | 79.6 | U | 361 | |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | 250 | J | **6340** | | 71.5 | U | 74.8 | U | **126** | |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 7780 | | 150840 | | 0 | | 0 | | 3954 | |
| | **Total PAHs** | | | **15349** | | **351603** | | **41.9** | | **0** | | **7803.9** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 8580 | | 5190 | | 6060 | | 3910 | | 6000 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | <0.45 | U | 0.35 | | 0.27 | | 0.29 | | 0.78 | |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 2.7 | | 0.28 | | 0.29 | U | 0.3 | U | 0.21 | J |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 102 | | 53.6 | | 41 | | 44.9 | | 103 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | **0.19** | | 0.069 | U | 0.072 | U | 0.075 | U | 0.068 | U |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | <0.11 | U | 0.046 | J | 0.072 | U | 0.075 | U | 0.17 | |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 6500 | | 3940 | | 669 | | 16500 | | 4590 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | **16.7** | | 7.36 | | **13.1** | | 9.29 | | **11.8** | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 7.8 | | 4.37 | | 4.42 | | 4.56 | | 5.22 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | **51.0** | | 21.1 | | 5.38 | | 9.46 | | **33.3** | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **18900** | | **8890** | | **9060** | | **7810** | | **12100** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 171 | | 61.2 | | 2.61 | | 2 | | 256 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | **5530** | | 3460 | | 3690 | | **10200** | | 3480 | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 205 | | 152 | | 71.1 | | 96.8 | | 177 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | **0.81** | | **0.24** | | 0.01 | | 0.015 | | **0.31** | |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 12.9 | | 7.36 | | 9.26 | | 7.52 | | 10.4 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 1930 | | 893 | | 1550 | | 2260 | | 1170 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | <1.0 | U | 0.27 | U | 0.28 | U | 0.29 | U | 0.27 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04230-005 | | 01-04367-001 | | 01-04367-002 | | 01-04367-003 | | 01-03839-005 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-19 (TP Wat) | | SB-19 | | SB-19 | | SB-19 | | SB-20 | |
| | Depth: | Objectives / | | 2' - 3' | | 5' - 6' | | 12' - 14' | | 48' - 52' | | 3' - 4' | |
| | Laboratory ID: | Eastern USA | | | | K9270-1 | | K9270-2 | | K9270-3 | | K9155-5 | |
| | Sampling Date: | Background | | 05/22/01 | | 06/21/2001 | | 06/21/2001 | | 06/21/2001 | | 04/19/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | <0.11 | U | 0.086 | U | 0.09 | U | 0.094 | U | 0.085 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 245 | | 103 | | 400 | | 102 | | 161 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | <0.32 | U | 0.22 | U | 0.23 | U | 0.24 | U | 0.22 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 23.2 | | 10 | | 10.3 | | 10.5 | | 16.5 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **184** | | **48.9** | | **26.7** | | **22.1** | | **134** | |
| 57-12-5 | Cyanide | | mg/kg | 0.178 | | 1.02 | | 0.26 | U | 0.29 | U | 0.17 | J |
| | % Solids | | % | 88.9 | | 87.4 | | 83.6 | | 79.9 | | 88.6 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03882-009 | | 01-03882-008 | |
|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-20 | | SB-20 | |
| | Depth: | Objectives / | | 11' - 12' | | 30' - 31.5' | |
| | Laboratory ID: | Eastern USA | | K9161-9 | | K9161-8 | |
| | Sampling Date: | Background | | 04/24/2001 | | 04/24/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | |
| | Validated: | | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | |
| | **PCBs** | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 61.9 | U | 41.9 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 264 | U | 178 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 140 | U | 94.6 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 58.4 | U | 39.6 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 132 | U | 89.7 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 30.8 | U | 20.8 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 87.7 | U | 59.4 | U |
| | **Volatiles** | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.59 | U | 0.4 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.28 | U | 0.19 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.33 | U | 0.22 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.54 | U | 0.37 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 4.7 | B | 3.7 | B |
| 67-64-1 | Acetone | 200 | µg/kg | 61 | | 2.74 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 1.8 | | 0.22 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 0.52 | U | 0.36 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.25 | U | 0.17 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.25 | U | 0.17 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.28 | U | 0.19 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.26 | U | 0.18 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.36 | U | 0.24 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 6.69 | U | 4.53 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 1.4 | | 1 | |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.34 | U | 0.23 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.3 | U | 0.2 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.23 | U | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.3 | U | 0.2 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 0.33 | U | 0.22 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.39 | U | 0.27 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.31 | U | 0.21 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 0.23 | U | 0.16 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.36 | U | 0.24 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.39 | U | 0.27 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 2.79 | U | 1.89 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 2.43 | U | 1.64 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.3 | U | 0.2 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 1.4 | | 1 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.33 | U | 0.22 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 0.21 | U | 0.14 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 0.18 | U | 0.12 | U |
| 100-42-5 | Styrene | NA * | µg/kg | 0.3 | U | 0.2 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 1.2 | | 0.28 | U |
| 95-47-6 | o-xylene | 1200 | µg/kg | 0.3 | U | 0.2 | U |
| | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **2.6** | | **1** | |
| | **Semi-Volatiles** | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 97.5 | U | 66.1 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 126 | U | 85.6 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 119 | U | 80.4 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 129 | U | 87.7 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 123 | U | 83.4 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 139 | U | 94 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 124 | U | 84.3 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 131 | U | 88.9 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 125 | U | 84.4 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 115 | U | 77.7 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 110 | U | 74.7 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 137 | U | 92.9 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 112 | U | 75.7 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 104 | U | 70.5 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 97.4 | U | 66 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 128 | U | 86.6 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 115 | U | 77.9 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 140 | U | 95 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 69.6 | U | 47.1 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 131 | U | 88.9 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 135 | U | 91.5 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 58.1 | U | 39.4 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03882-009 | | 01-03882-008 | |
|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-20 | | SB-20 | |
| | Depth: | Objectives / | | 11' - 12' | | 30' - 31.5' | |
| | Laboratory ID: | Eastern USA | | K9161-9 | | K9161-8 | |
| | Sampling Date: | Background | | 04/24/2001 | | 04/24/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | |
| | Validated: | | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 116 | U | 78.3 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 103 | U | 69.7 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 134 | U | 90.9 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 101 | U | 68.3 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 134 | U | 90.8 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 99.5 | U | 67.4 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 64.2 | U | 43.5 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 95.1 | U | 64.4 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 214 | U | 145 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 138 | U | 93.5 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 91 | U | 61.6 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 88.1 | U | 59.6 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 159 | U | 107 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 74 | U | 50.1 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 125 | U | 84.6 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 131 | U | 89 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 120 | U | 81.1 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 118 | U | 79.6 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 79.9 | U | 54.1 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 93.5 | U | 63.3 | U |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 254 | JB | 150 | JB |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 78.2 | U | 23.3 | J |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 136 | U | 91.8 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 368 | JB | 548 | B |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 101 | U | 68.3 | U |
| | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 141 | U | 95.8 | U |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 132 | U | 89.1 | U |
| 120-12-7 | Anthracene | 50000* | µg/kg | 118 | U | 79.6 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 86.7 | U | 58.8 | U |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 104 | U | 70.4 | U |
| 86-73-7 | Fluorene | 50000* | µg/kg | 144 | U | 97.3 | U |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 115 | U | 78.2 | U |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 136 | U | 91.8 | U |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 115 | U | 78 | U |
| 129-00-0 | Pyrene | 50000* | µg/kg | 86.1 | U | 58.3 | U |
| | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 0 | | 0 | |
| | **Probable Carcinogenic PAHs** | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | 82.2 | U | 55.7 | U |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 134 | U | 91 | U |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 109 | U | 73.8 | U |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | 89 | U | 60.3 | U |
| 218-01-9 | Chrysene | 400 | µg/kg | 81.8 | U | 55.4 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 104 | U | 70.5 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | 97.9 | U | 66.3 | U |
| | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 0 | | 0 | |
| | **Total PAHs** | | | **0** | | **0** | |
| | **Metals** | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 8650 | | 2460 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.041 | J | 0.17 | J |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.39 | U | 0.27 | U |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 64.5 | | 31.7 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.098 | U | 0.067 | U |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.098 | U | 0.067 | U |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 1850 | | 779 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | **15.5** | | 6.19 | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 4.88 | | 3.25 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 5.2 | | 4.63 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **10200** | | **6230** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 4.03 | | 1.82 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | 2380 | | 1430 | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 93.8 | | 85.8 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.058 | | 0.013 | |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 8.03 | | 5.08 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 491 | | 1160 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.38 | U | 0.26 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03882-009 | | 01-03882-008 | |
|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-20 | | SB-20 | |
| | Depth: | Objectives / | | 11' - 12' | | 30' - 31.5' | |
| | Laboratory ID: | Eastern USA | | K9161-9 | | K9161-8 | |
| | Sampling Date: | Background | | 04/24/2001 | | 04/24/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | |
| | Validated: | | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.12 | U | 0.083 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 298 | | 70.9 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.32 | U | 0.22 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 18.2 | | 7.46 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **31.1** | | 14.3 | |
| 57-12-5 | Cyanide | | mg/kg | 0.3 | U | 0.27 | U |
| | % Solids | | % | 61.1 | | 90.2 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03839-006 | | 01-03882-011 | | 01-03882-012 | | 01-03882-013 | | 01-03882-010 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-21 | | SB-21 | | SB-21 (Dup) | | SB-21 (Dup2) | | SB-21 | |
| | Depth: | Objectives / | | 3' - 4' | | 10' - 11' | | 10' - 11' | | 10' - 11' | | 34' - 35 | |
| | Laboratory ID: | Eastern USA | | K9155-6 | | K9162-2 | | K9162-3 | | K9162-4 | | K9162-1 | |
| | Sampling Date: | Background | | 04/19/2001 | | 04/24/2001 | | 04/24/2001 | | 04/24/2001 | | 04/24/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 41.9 | U | 48.6 | U | 45.5 | U | 55.4 | U | 49.1 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 178 | U | 207 | U | 194 | U | 236 | U | 209 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 94.6 | U | 110 | U | 103 | U | 125 | U | 111 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 39.6 | U | 45.9 | U | 43 | U | 52.3 | U | 46.4 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 89.7 | U | 104 | U | 97.4 | U | 119 | U | 105 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 20.8 | U | 24.2 | U | 22.6 | U | 27.6 | U | 24.4 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 59.4 | U | 69 | U | 64.5 | U | 78.6 | U | 69.6 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.4 | U | 0.46 | U | 0.43 | U | 0.53 | U | 0.47 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.19 | U | 0.22 | U | 0.2 | U | 0.25 | U | 0.22 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.22 | U | 0.26 | U | 0.24 | U | 0.29 | U | 0.26 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.37 | U | 0.43 | U | 0.4 | U | 0.49 | U | 0.43 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 6.8 | | 3.9 | B | 3.7 | B | 2.8 | B | 3.4 | B |
| 67-64-1 | Acetone | 200 | µg/kg | 2.74 | U | 62.1 | | 73.6 | | 3.63 | U | 3.21 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 0.22 | U | 0.26 | U | 0.24 | U | 0.29 | U | 0.26 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 0.36 | U | 0.41 | U | 0.38 | U | 0.47 | U | 0.42 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.17 | U | 0.19 | U | 0.18 | U | 0.22 | U | 0.19 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.17 | U | 0.19 | U | 0.18 | U | 0.22 | U | 0.19 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.19 | U | 0.22 | U | 0.2 | U | 0.25 | U | 0.22 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.18 | U | 0.21 | U | 0.19 | U | 0.24 | U | 0.21 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.24 | U | 0.28 | U | 0.26 | U | 0.32 | U | 0.29 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 4.53 | U | 5.26 | U | 4.9 | U | 6 | U | 5.3 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.16 | U | 1.2 | | 1.2 | | 0.21 | U | 0.91 | |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.23 | U | 0.27 | U | 0.25 | U | 0.31 | U | 0.27 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.2 | U | 0.23 | U | 0.22 | U | 0.26 | U | 0.23 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.16 | U | 0.18 | U | 0.17 | U | 0.21 | U | 0.18 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.2 | U | 0.23 | U | 0.22 | U | 0.26 | U | 0.23 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 0.22 | U | 0.26 | U | 0.24 | U | 0.29 | U | 0.26 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.27 | U | 0.31 | U | 0.29 | U | 0.35 | U | 0.31 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.21 | U | 0.25 | U | 0.23 | U | 0.28 | U | 0.25 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 0.16 | U | 0.18 | U | 0.17 | U | 0.21 | U | 0.18 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.24 | U | 0.28 | U | 0.26 | U | 0.32 | U | 0.29 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.27 | U | 0.31 | U | 0.29 | U | 0.35 | U | 0.31 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 1.89 | U | 2.19 | U | 2.04 | U | 2.5 | U | 2.21 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 1.64 | U | 1.91 | U | 1.78 | U | 2.18 | U | 1.92 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.2 | U | 0.23 | U | 0.22 | U | 0.26 | U | 0.23 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 2.6 | | 2.2 | | 3.3 | | 1.3 | | 1.2 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.22 | U | 0.26 | U | 0.24 | U | 0.29 | U | 0.26 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 0.14 | U | 0.17 | U | 0.16 | U | 0.19 | U | 0.17 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 0.12 | U | 0.14 | U | 0.13 | U | 0.16 | U | 0.14 | U |
| 100-42-5 | Styrene | NA * | µg/kg | 0.2 | U | 0.23 | U | 0.22 | U | 0.26 | U | 0.23 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 1.3 | | 1 | | 1.4 | | 1.2 | | 2.1 | |
| 95-47-6 | o-xylene | 1200 | µg/kg | 0.2 | U | 0.23 | U | 0.22 | U | 0.26 | U | 0.23 | U |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **3.9** | | **3.2** | | **4.7** | | **2.5** | | **3.3** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 36 | U | 125 | U | 117 | U | 143 | U | 127 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 34.7 | U | 121 | U | 113 | U | 138 | U | 122 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 35.4 | U | 123 | U | 115 | U | 140 | U | 124 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 37.8 | U | 132 | U | 123 | U | 150 | U | 133 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 36.8 | U | 128 | U | 120 | U | 146 | U | 129 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 37.2 | U | 129 | U | 121 | U | 148 | U | 131 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 30.7 | U | 107 | U | 100 | U | 122 | U | 108 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 40.1 | U | 140 | U | 130 | U | 159 | U | 141 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 29.7 | U | 103 | U | 96.8 | U | 118 | U | 104 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 36.1 | U | 126 | U | 118 | U | 143 | U | 127 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 38.1 | U | 133 | U | 124 | U | 151 | U | 134 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 41.7 | U | 145 | U | 136 | U | 165 | U | 146 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 38.1 | U | 133 | U | 124 | U | 151 | U | 134 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 29 | U | 101 | U | 94.3 | U | 115 | U | 102 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 17.5 | U | 61 | U | 57 | U | 69.5 | U | 61.6 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 35 | U | 122 | U | 114 | U | 139 | U | 123 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 30.3 | U | 106 | U | 98.8 | U | 120 | U | 107 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 36.7 | U | 128 | U | 120 | U | 146 | U | 129 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 38.2 | U | 133 | U | 124 | U | 152 | U | 134 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 36.8 | U | 128 | U | 120 | U | 146 | U | 129 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 29.6 | U | 103 | U | 96.5 | U | 118 | U | 104 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 30.8 | U | 107 | U | 100 | U | 122 | U | 108 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 29.3 | U | 102 | U | 95.3 | U | 116 | U | 103 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03839-006 | | 01-03882-011 | | 01-03882-012 | | 01-03882-013 | | 01-03882-010 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-21 | | SB-21 | | SB-21 (Dup) | | SB-21 (Dup2) | | SB-21 | |
| | Depth: | Objectives / | | 3' - 4' | | 10' - 11' | | 10' - 11' | | 10' - 11' | | 34' - 35 | |
| | Laboratory ID: | Eastern USA | | K9155-6 | | K9162-2 | | K9162-3 | | K9162-4 | | K9162-1 | |
| | Sampling Date: | Background | | 04/19/2001 | | 04/24/2001 | | 04/24/2001 | | 04/24/2001 | | 04/24/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 28.2 | U | 98.2 | U | 91.8 | U | 112 | U | 99.1 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 33.7 | U | 118 | U | 110 | U | 134 | U | 119 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 26.5 | U | 92.4 | U | 86.4 | U | 105 | U | 93.2 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 32.3 | U | 112 | U | 105 | U | 128 | U | 114 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 29.8 | U | 104 | U | 97.1 | U | 118 | U | 105 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 28.5 | U | 99.2 | U | 92.8 | U | 113 | U | 100 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 33.9 | U | 118 | U | 110 | U | 134 | U | 119 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 22 | U | 76.7 | U | 71.7 | U | 87.4 | U | 77.4 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 32.2 | U | 112 | U | 105 | U | 128 | U | 113 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 28.3 | U | 98.6 | U | 92.2 | U | 112 | U | 99.5 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 20.7 | U | 29.6 | J | 67.5 | U | 32.3 | J | 72.9 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 32.8 | U | 114 | U | 107 | U | 130 | U | 115 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 24.9 | U | 86.7 | U | 81.1 | U | 98.8 | U | 87.5 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 31.4 | U | 109 | U | 102 | U | 124 | U | 110 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 29.6 | U | 103 | U | 96.4 | U | 117 | U | 104 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 30 | U | 104 | U | 97.6 | U | 119 | U | 105 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 32.9 | U | 115 | U | 107 | U | 131 | U | 116 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 22.3 | U | 77.6 | U | 72.6 | U | 88.4 | U | 78.3 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 67.3 | J | 258 | U | 241 | U | 294 | U | 261 | U |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 29.2 | J | 180 | JB | 176 | JB | 213 | JB | 203 | JB |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 22.1 | U | 77 | U | 72 | U | 87.7 | U | 77.7 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 71.6 | U | 250 | U | 233 | U | 284 | U | 252 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 35.1 | J | 463 | B | 266 | JB | 642 | B | 277 | JB |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 19.9 | U | 69.2 | U | 64.7 | U | 78.9 | U | 69.9 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 12.9 | J | 111 | U | 104 | U | 127 | U | 112 | U |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 146 | | 118 | U | 110 | U | 134 | U | 119 | U |
| 120-12-7 | Anthracene | 50000* | µg/kg | 92 | | 86 | U | 80.4 | U | 97.9 | U | 86.8 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 185 | | 50.5 | U | 47.2 | U | 57.5 | U | 50.9 | U |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 596 | | 84.3 | U | 78.8 | U | 96 | U | 85.1 | U |
| 86-73-7 | Fluorene | 50000* | µg/kg | 15.5 | J | 109 | U | 102 | U | 124 | U | 110 | U |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 21.1 | J | 104 | U | 97 | U | 118 | U | 105 | U |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 27.3 | J | 122 | U | 114 | U | 139 | U | 123 | U |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 223 | | 94.2 | U | 88.1 | U | 107 | U | 95.1 | U |
| 129-00-0 | Pyrene | 50000* | µg/kg | 541 | | 85.2 | U | 79.7 | U | 97.1 | U | 86 | U |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 1859.8 | | 0 | | 0 | | 0 | | 0 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | 390 | | 77.7 | U | 72.7 | U | 88.6 | U | 78.4 | U |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 377 | | 54.1 | U | 50.5 | U | 61.6 | U | 54.5 | U |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 388 | | 81 | U | 75.7 | U | 92.2 | U | 81.7 | U |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **423** | | 60.2 | U | 56.3 | U | 68.6 | U | 60.8 | U |
| 218-01-9 | Chrysene | 400 | µg/kg | **434** | | 82.9 | U | 77.5 | U | 94.4 | U | 83.6 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 181 | | 52.6 | U | 49.2 | U | 60 | U | 53.1 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | 57.6 | | 52.9 | U | 49.5 | U | 60.3 | U | 53.4 | U |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 2250.6 | | 0 | | 0 | | 0 | | 0 | |
| | **Total PAHs** | | | **4110.4** | | **0** | | **0** | | **0** | | **0** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 6350 | | 7730 | | 5270 | | 8170 | | 11200 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.2 | | 0.23 | U | 0.024 | J | 0.037 | J | 0.052 | J |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.27 | U | 0.31 | U | 0.29 | U | 0.35 | U | 0.31 | U |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 70 | | 46 | | 44.4 | | 61 | | 113 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.066 | U | 0.077 | U | 0.072 | U | 0.088 | U | 0.078 | U |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.05 | J | 0.077 | U | 0.018 | J | 0.088 | U | 0.078 | U |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 8430 | | 1270 | | 1130 | | 1690 | | 8.57 | U |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | **11.6** | | **12.8** | | **10.3** | | **18.4** | | **19.9** | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 5.14 | | 3.73 | | 2.62 | | 3.5 | | 10.1 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 19.2 | | 4.66 | | 4.84 | | 5.4 | | 17.8 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **10400** | | **6520** | | **3990** | | **6130** | | **18400** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 72.5 | | 3.03 | | 2.05 | | 3.15 | | 3.1 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | **5590** | | 2500 | | 1690 | | 2040 | | **16200** | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 175 | | 48 | | 32.3 | | 43 | | 193 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | **0.17** | | 0.033 | | 0.019 | | 0.059 | | 0.0057 | J |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 9.24 | | 7.24 | | 4.97 | | 7.58 | | 15.7 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 1170 | | 517 | | 416 | | 438 | | 6520 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.26 | U | 0.3 | U | 0.28 | U | 0.34 | U | 0.31 | U |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.083 | U | 0.097 | U | 0.09 | U | 0.11 | U | 0.097 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 146 | | 45 | | 36.6 | | 38.4 | | 217 | |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03839-006 | | 01-03882-011 | | 01-03882-012 | | 01-03882-013 | | 01-03882-010 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-21 | | SB-21 | | SB-21 (Dup) | | SB-21 (Dup2) | | SB-21 | |
| | Depth: | Objectives / | | 3' - 4' | | 10' - 11' | | 10' - 11' | | 10' - 11' | | 34' - 35 | |
| | Laboratory ID: | Eastern USA | | K9155-6 | | K9162-2 | | K9162-3 | | K9162-4 | | K9162-1 | |
| | Sampling Date: | Background | | 04/19/2001 | | 04/24/2001 | | 04/24/2001 | | 04/24/2001 | | 04/24/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.22 | U | 0.25 | U | 0.23 | U | 0.29 | U | 0.25 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 17.7 | | 14.2 | | 9.52 | | 17.3 | | 30.2 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **93.4** | | **29.5** | | 19 | | **24.1** | | **66.2** | |
| 57-12-5 | Cyanide | | mg/kg | 0.057 | J | 0.075 | J | 0.078 | J | 0.12 | J | 0.28 | U |
| | % Solids | | % | 90.2 | | 77.7 | | 83.1 | | 68.2 | | 77 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | | | | | | | | | | |
| | | | | | | | | | | | | | |
| **Notes** | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| U - Below detection limit | | | | | | | | | | | | | |
| J - Estimated value | | | | | | | | | | | | | |
| NR - Not run | | | | | | | | | | | | | |
| NA - Not available | | | | | | | | | | | | | |
| SB - Site background | | | | | | | | | | | | | |
| MDL - Method Detection Limit | | | | | | | | | | | | | |
| * - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg | | | | | | | | | | | | | |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03839-007 | | 01-03882-007 | | 01-03882-006 | | 01-03839-012 | | 01-03839-013 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-22 | | SB-22 | | SB-22 | | SB-23 | | SB-23 | |
| | Depth: | Objectives / | | 3' - 4' | | 10' - 11' | | 34' - 35' | | 3' - 4' | | 23' - 24' | |
| | Laboratory ID: | Eastern USA | | K9155-7 | | K9161-7 | | K9161-6 | | K9156-4 | | K9156-5 | |
| | Sampling Date: | Background | | 04/19/2001 | | 04/23/2001 | | 04/23/2001 | | 04/20/2001 | | 04/20/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 42.5 | U | 46.8 | U | 41.4 | U | 40.4 | U | 39.4 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 181 | U | 199 | U | 176 | U | 172 | U | 168 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 96 | U | 106 | U | 93.4 | U | 91.1 | U | 88.9 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 40.2 | U | 44.2 | U | 39.1 | U | 38.1 | U | 37.2 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 91 | U | 100 | U | 88.6 | U | 86.4 | U | 84.3 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 21.1 | U | 23.3 | U | 20.6 | U | 20.1 | U | 19.6 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 60.3 | U | 66.3 | U | 58.7 | U | 57.3 | U | 55.8 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.4 | U | 0.45 | U | 0.4 | U | 0.39 | U | 0.37 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.19 | U | 0.21 | U | 0.19 | U | 0.18 | U | 0.18 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.22 | U | 0.25 | U | 0.22 | U | 0.21 | U | 0.21 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.37 | U | 0.41 | U | 0.36 | U | 0.35 | U | 0.34 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 6 | | 2.4 | B | 3.4 | B | 6.6 | | 6 | |
| 67-64-1 | Acetone | 200 | µg/kg | 31.4 | | 3.06 | U | 2.72 | U | 2.64 | U | 2.57 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 0.22 | U | 0.25 | U | 0.22 | U | 0.21 | U | 0.21 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 0.36 | U | 0.4 | U | 0.35 | U | 0.34 | U | 0.33 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.17 | U | 0.19 | U | 0.17 | U | 0.16 | U | 0.16 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.17 | U | 0.19 | U | 0.17 | U | 0.16 | U | 0.16 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.19 | U | 0.21 | U | 0.19 | U | 0.18 | U | 0.18 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.18 | U | 0.2 | U | 0.18 | U | 0.17 | U | 0.17 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.25 | U | 0.27 | U | 0.24 | U | 0.24 | U | 0.23 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 4.57 | U | 5.06 | U | 4.49 | U | 4.37 | U | 4.24 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.16 | U | 0.9 | | 0.87 | | 0.15 | U | 0.15 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.24 | U | 0.26 | U | 0.23 | U | 0.22 | U | 0.22 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.2 | U | 0.22 | U | 0.2 | U | 0.19 | U | 0.19 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.16 | U | 0.17 | U | 0.15 | U | 0.15 | U | 0.15 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.2 | U | 0.22 | U | 0.2 | U | 0.19 | U | 0.19 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 0.22 | U | 0.25 | U | 0.22 | U | 0.21 | U | 0.21 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.27 | U | 0.3 | U | 0.26 | U | 0.26 | U | 0.25 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.21 | U | 0.24 | U | 0.21 | U | 0.2 | U | 0.2 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 0.16 | U | 0.17 | U | 0.15 | U | 0.15 | U | 0.15 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.25 | U | 0.27 | U | 0.24 | U | 0.24 | U | 0.23 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.27 | U | 0.3 | U | 0.26 | U | 0.26 | U | 0.25 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 1.9 | U | 2.11 | U | 1.87 | U | 1.82 | U | 1.77 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 1.66 | U | 1.84 | U | 1.63 | U | 1.58 | U | 1.54 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.2 | U | 0.22 | U | 0.2 | U | 0.19 | U | 0.19 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 1.6 | | 1.5 | | 0.93 | | 2.4 | | 2.2 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.22 | U | 0.25 | U | 0.22 | U | 0.21 | U | 0.21 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 0.15 | U | 0.16 | U | 0.14 | U | 0.14 | U | 0.14 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 0.12 | U | 5.6 | | 0.12 | U | 0.12 | U | 0.11 | U |
| 100-42-5 | Styrene | NA * | µg/kg | 0.2 | U | 0.22 | U | 0.2 | U | 0.19 | U | 0.19 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 1.6 | | 17.1 | | 0.58 | | 1.8 | | 1.5 | |
| 95-47-6 | o-xylene | 1200 | µg/kg | 0.2 | U | 11.6 | | 0.2 | U | 0.73 | | 0.57 | |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **3.2** | | **30.2** | | **1.51** | | **4.93** | | **4.27** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 22.4 | U | 73.8 | U | 65.3 | U | 34.7 | U | 33.9 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 29 | U | 95.5 | U | 84.6 | U | 33.4 | U | 32.6 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 27.2 | U | 89.7 | U | 79.4 | U | 34.1 | U | 33.3 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 29.7 | U | 97.9 | U | 86.6 | U | 36.5 | U | 35.6 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 28.2 | U | 93.1 | U | 82.4 | U | 35.5 | U | 34.6 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 31.8 | U | 105 | U | 92.9 | U | 35.8 | U | 34.9 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 28.5 | U | 94.1 | U | 83.2 | U | 29.6 | U | 28.9 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 30.1 | U | 99.3 | U | 87.8 | U | 38.6 | U | 37.6 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 28.5 | U | 94.2 | U | 83.4 | U | 28.6 | U | 27.9 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 26.3 | U | 86.8 | U | 76.8 | U | 34.8 | U | 33.9 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 25.3 | U | 83.4 | U | 73.8 | U | 36.7 | U | 35.8 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 31.4 | U | 104 | U | 91.8 | U | 40.2 | U | 39.2 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 25.6 | U | 84.5 | U | 74.8 | U | 36.7 | U | 35.8 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 23.9 | U | 78.7 | U | 69.7 | U | 27.9 | U | 27.2 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 22.3 | U | 73.6 | U | 65.2 | U | 16.9 | U | 16.5 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 29.3 | U | 96.7 | U | 85.5 | U | 33.7 | U | 32.9 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 26.4 | U | 87 | U | 77 | U | 29.2 | U | 28.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 32.1 | U | 106 | U | 93.9 | U | 35.4 | U | 34.5 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 15.9 | U | 52.6 | U | 46.6 | U | 36.8 | U | 35.9 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 30.1 | U | 99.3 | U | 87.8 | U | 35.5 | U | 34.6 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 30.9 | U | 102 | U | 90.4 | U | 28.6 | U | 27.8 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 13.3 | U | 43.9 | U | 38.9 | U | 29.7 | U | 28.9 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 26.5 | U | 87.4 | U | 77.3 | U | 28.2 | U | 27.5 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03839-007 | | 01-03882-007 | | 01-03882-006 | | 01-03839-012 | | 01-03839-013 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-22 | | SB-22 | | SB-22 | | SB-23 | | SB-23 | |
| | Depth: | Objectives / | | 3' - 4' | | 10' - 11' | | 34' - 35' | | 3' - 4' | | 23' - 24' | |
| | Laboratory ID: | Eastern USA | | K9155-7 | | K9161-7 | | K9161-6 | | K9156-4 | | K9156-5 | |
| | Sampling Date: | Background | | 04/19/2001 | | 04/23/2001 | | 04/23/2001 | | 04/20/2001 | | 04/20/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 23.6 | U | 77.8 | U | 68.9 | U | 27.2 | U | 26.5 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 30.8 | U | 101 | U | 89.8 | U | 32.5 | U | 31.7 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 23.1 | U | 76.2 | U | 67.5 | U | 25.6 | U | 24.9 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 30.7 | U | 101 | U | 89.7 | U | 31.1 | U | 30.3 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 22.8 | U | 75.2 | U | 66.6 | U | 28.7 | U | 28 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 14.7 | U | 48.5 | U | 42.9 | U | 27.5 | U | 26.8 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 21.8 | U | 71.9 | U | 63.6 | U | 32.7 | U | 31.8 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 48.9 | U | 162 | U | 143 | U | 21.2 | U | 20.7 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 10.5 | J | 104 | U | 92.3 | U | 31.1 | U | 30.3 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 20.9 | U | 68.8 | U | 60.9 | U | 27.3 | U | 26.6 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 20.2 | U | 66.6 | U | 58.9 | U | 20 | U | 19.5 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 36.3 | U | 120 | U | 106 | U | 31.7 | U | 30.9 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 17 | U | 55.9 | U | 49.5 | U | 24 | U | 23.4 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 28.6 | U | 94.4 | U | 83.6 | U | 30.2 | U | 29.5 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 30.1 | U | 99.4 | U | 88 | U | 28.5 | U | 27.8 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 27.5 | U | 90.6 | U | 80.2 | U | 28.9 | U | 28.2 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 26.9 | U | 88.9 | U | 78.6 | U | 31.7 | U | 30.9 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 18.3 | U | 60.4 | U | 53.5 | U | 21.5 | U | 20.9 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 34.5 | | 70.7 | U | 62.5 | U | 71.4 | U | 69.6 | U |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 35.6 | J | 176 | JB | 165 | JB | 24.2 | JB | 14.9 | JB |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 17.9 | U | 59.2 | U | 52.4 | U | 21.3 | U | 20.8 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 31 | U | 102 | U | 90.7 | U | 69 | U | 67.3 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 64.9 | J | 255 | JB | 300 | JB | 88.3 | JB | 140 | B |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 23.1 | U | 76.2 | U | 67.5 | U | 7.5 | J | 18.7 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 18.4 | J | 107 | U | 94.6 | U | 30.7 | U | 30 | U |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 132 | | 99.5 | U | 88.1 | U | 32.5 | U | 31.7 | U |
| 120-12-7 | Anthracene | 50000* | µg/kg | 77.6 | | 88.9 | U | 78.6 | U | 23.8 | U | 23.2 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 229 | | 65.6 | U | 58.1 | U | 14 | U | 13.6 | U |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 401 | | 78.6 | U | 69.6 | U | 23.3 | U | 22.7 | U |
| 86-73-7 | Fluorene | 50000* | µg/kg | 30.7 | J | 109 | U | 96.2 | U | 30.2 | U | 29.4 | U |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 12.7 | J | 87.3 | U | 77.2 | U | 50.2 | | 28 | U |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 18.7 | J | 102 | U | 90.7 | U | 15.7 | J | 32.8 | U |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 192 | | 87.1 | U | 77.1 | U | 13.9 | J | 25.4 | U |
| 129-00-0 | Pyrene | 50000* | µg/kg | 497 | | 65.1 | U | 57.6 | U | 23.6 | U | 23 | U |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 1609.1 | | 0 | | 0 | | 79.8 | | 0 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | **301** | | 62.1 | U | 55 | U | 21.5 | U | 21 | U |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 338 | | 102 | U | 89.9 | U | 15 | U | 14.6 | U |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 306 | | 82.4 | U | 72.9 | U | 22.4 | U | 21.8 | U |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **345** | | 67.3 | U | 59.6 | U | 16.7 | U | 16.2 | U |
| 218-01-9 | Chrysene | 400 | µg/kg | 345 | | 61.9 | U | 54.8 | U | 22.9 | U | 22.4 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 174 | | 78.7 | U | 69.7 | U | 14.6 | U | 14.2 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | **69.7** | | 74 | U | 65.5 | U | 14.6 | U | 14.3 | U |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 1878.7 | | 0 | | 0 | | 0 | | 0 | |
| | **Total PAHs** | | | **3487.8** | | **0** | | **0** | | **79.8** | | **0** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 6550 | | 5090 | | 6020 | | 4360 | | 2700 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.18 | J | 0.22 | U | 0.16 | J | 0.19 | U | 0.11 | J |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.27 | U | 0.3 | U | 0.26 | U | 0.26 | U | 0.25 | U |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 65.1 | | 51.3 | | 110 | | 29 | | 19.6 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.067 | U | 0.074 | U | 0.066 | U | 0.064 | U | 0.063 | U |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.056 | J | 0.074 | U | 0.066 | U | 0.064 | U | 0.063 | U |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 10500 | | 1160 | | 7290 | | 1770 | | 11800 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | **12.5** | | 9.98 | | **16.3** | | 8.16 | | 6.08 | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 5.1 | | 3.04 | | 6.6 | | 4.67 | | 3.57 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 19.8 | | 5.29 | | 18.1 | | 9.47 | | 7.28 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **10800** | | **6350** | | **12500** | | **7550** | | **6530** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 85.7 | | 6.44 | | 1.98 | | 2.66 | | 2.09 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | **6410** | | 1630 | | **6510** | | 2770 | | **8020** | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 158 | | 75.5 | | 167 | | 135 | | 98.7 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | **0.18** | | 0.017 | | 0.014 | | 0.017 | | 0.014 | |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 9.67 | | 5.28 | | 9.93 | | 7.32 | | 5.21 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 1440 | | 463 | | 4350 | | 1170 | | 827 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.26 | U | 0.29 | U | 0.26 | U | 0.25 | U | 0.24 | U |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.084 | U | 0.093 | U | 0.082 | U | 0.08 | U | 0.078 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 147 | | 60.9 | | 122 | | 162 | | 76.1 | |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03839-007 | | 01-03882-007 | | 01-03882-006 | | 01-03839-012 | | 01-03839-013 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-22 | | SB-22 | | SB-22 | | SB-23 | | SB-23 | |
| | Depth: | Objectives / | | 3' - 4' | | 10' - 11' | | 34' - 35' | | 3' - 4' | | 23' - 24' | |
| | Laboratory ID: | Eastern USA | | K9155-7 | | K9161-7 | | K9161-6 | | K9156-4 | | K9156-5 | |
| | Sampling Date: | Background | | 04/19/2001 | | 04/23/2001 | | 04/23/2001 | | 04/20/2001 | | 04/20/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.22 | U | 0.24 | U | 0.21 | U | 0.21 | U | 0.2 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 18.8 | | 11.2 | | 24.8 | | 10.8 | | 7.4 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **91.4** | | **26.3** | | **27.1** | | **21.9** | | 14.8 | |
| 57-12-5 | Cyanide | | mg/kg | 0.099 | J | 0.084 | J | 0.28 | U | 0.16 | J | 0.071 | J |
| | % Solids | | % | 88.9 | | 80.8 | | 91.3 | | 93.6 | | 96 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | | | | | | | | | | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03839-014 | | 01-03839-015 | | 01-03839-016 | | 01-03839-001 | | 01-03839-002 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-23 | | SB-23 | | SB-23 (Dup) | | SB-24 | | SB-24 | |
| | Depth: | Objectives / | | 37' - 38' | | 47' - 48' | | 47' - 48' | | 2' - 3' | | 21' - 22' | |
| | Laboratory ID: | Eastern USA | | K9156-6 | | K9156-7 | | K9156-8 | | K9155-1 | | K9155-2 | |
| | Sampling Date: | Background | | 04/20/2001 | | 04/20/2001 | | 04/20/2001 | | 04/19/2001 | | 04/19/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 45.8 | U | 46.3 | U | 46.8 | U | 42 | U | 42 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 195 | U | 197 | U | 200 | U | 179 | U | 179 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 103 | U | 104 | U | 106 | U | 94.7 | U | 94.8 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 43.2 | U | 43.7 | U | 44.2 | U | 39.6 | U | 39.7 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 97.9 | U | 99 | U | 100 | U | 89.8 | U | 89.9 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 22.8 | U | 23 | U | 23.3 | U | 20.9 | U | 20.9 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 64.9 | U | 65.6 | U | 66.4 | U | 59.5 | U | 59.6 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.44 | U | 0.44 | U | 0.45 | U | 0.4 | U | 0.4 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.21 | U | 0.21 | U | 0.21 | U | 0.19 | U | 0.19 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.24 | U | 0.24 | U | 0.25 | U | 0.22 | U | 0.22 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.4 | U | 0.4 | U | 0.41 | U | 0.37 | U | 0.37 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 1.4 | | 6.6 | | 6.2 | | 4.1 | | 5 | |
| 67-64-1 | Acetone | 200 | µg/kg | 2.99 | U | 3.01 | U | 3.06 | U | 2.74 | U | 2.74 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 0.24 | U | 0.24 | U | 0.25 | U | 0.22 | U | 0.22 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 0.39 | U | 0.39 | U | 0.4 | U | 0.36 | U | 0.36 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.18 | U | 0.18 | U | 0.19 | U | 0.17 | U | 0.17 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.18 | U | 0.18 | U | 0.19 | U | 0.17 | U | 0.17 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.21 | U | 0.21 | U | 0.21 | U | 0.19 | U | 0.19 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.19 | U | 0.2 | U | 0.2 | U | 0.18 | U | 0.18 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.27 | U | 0.27 | U | 0.27 | U | 0.24 | U | 0.24 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 4.94 | U | 4.98 | U | 5.06 | U | 4.53 | U | 4.53 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.17 | U | 0.17 | U | 0.17 | U | 0.16 | U | 0.16 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.25 | U | 0.26 | U | 0.26 | U | 0.23 | U | 0.23 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.22 | U | 0.22 | U | 0.22 | U | 0.2 | U | 0.2 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.17 | U | 0.17 | U | 0.17 | U | 0.16 | U | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.22 | U | 0.22 | U | 0.22 | U | 0.2 | U | 0.2 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 0.24 | U | 0.24 | U | 0.25 | U | 0.22 | U | 0.22 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.29 | U | 0.29 | U | 0.3 | U | 0.27 | U | 0.27 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.23 | U | 0.23 | U | 0.24 | U | 0.21 | U | 0.21 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 0.69 | | 0.17 | U | 0.17 | U | 0.16 | U | 0.16 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.27 | U | 0.27 | U | 0.27 | U | 0.24 | U | 0.24 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.29 | U | 0.29 | U | 0.3 | U | 0.27 | U | 0.27 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 2.06 | U | 2.07 | U | 2.11 | U | 1.89 | U | 1.89 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 1.79 | U | 1.81 | U | 1.84 | U | 1.64 | U | 1.64 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.22 | U | 0.22 | U | 0.22 | U | 0.2 | U | 0.2 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 3.1 | | 2.6 | | 2.6 | | 2.5 | | 2.6 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.24 | U | 0.24 | U | 0.25 | U | 0.22 | U | 0.22 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 1.2 | | 0.16 | U | 0.16 | U | 0.14 | U | 0.14 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 0.13 | U | 0.13 | U | 0.14 | U | 0.12 | U | 1.3 | |
| 100-42-5 | Styrene | NA * | µg/kg | 0.22 | U | 0.22 | U | 0.22 | U | 0.2 | U | 0.2 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 1.6 | | 1.2 | | 1.2 | | 1 | | 1 | |
| 95-47-6 | o-xylene | 1200 | µg/kg | 0.69 | | 0.22 | U | 0.22 | U | 0.2 | U | 0.2 | U |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **5.39** | | **3.8** | | **3.8** | | **3.5** | | **3.6** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 39.4 | U | 39.8 | U | 40.3 | U | 36.2 | U | 36.1 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 37.9 | U | 38.3 | U | 38.8 | U | 34.9 | U | 34.8 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 38.7 | U | 39.1 | U | 39.6 | U | 35.6 | U | 35.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 41.3 | U | 41.8 | U | 42.3 | U | 38 | U | 37.9 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 40.2 | U | 40.6 | U | 41.1 | U | 37 | U | 36.9 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 40.6 | U | 41 | U | 41.6 | U | 37.3 | U | 37.3 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 33.5 | U | 33.9 | U | 34.3 | U | 30.8 | U | 30.8 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 43.8 | U | 44.2 | U | 44.8 | U | 40.2 | U | 40.2 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 32.4 | U | 32.8 | U | 33.2 | U | 29.8 | U | 29.8 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 39.4 | U | 39.9 | U | 40.4 | U | 36.3 | U | 36.2 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 41.6 | U | 42 | U | 42.5 | U | 38.2 | U | 38.2 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 45.5 | U | 46 | U | 46.6 | U | 41.9 | U | 41.8 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 41.6 | U | 42.1 | U | 42.6 | U | 38.3 | U | 38.2 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 31.6 | U | 32 | U | 32.4 | U | 29.1 | U | 29 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 19.1 | U | 19.3 | U | 19.6 | U | 17.6 | U | 17.6 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 38.2 | U | 38.6 | U | 39.1 | U | 35.2 | U | 35.1 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 33.1 | U | 33.5 | U | 33.9 | U | 30.5 | U | 30.4 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 40.1 | U | 40.6 | U | 41.1 | U | 36.9 | U | 36.8 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 41.7 | U | 42.2 | U | 42.7 | U | 38.4 | U | 38.3 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 40.2 | U | 40.6 | U | 41.1 | U | 37 | U | 36.9 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 32.4 | U | 32.7 | U | 33.1 | U | 29.8 | U | 29.7 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 33.6 | U | 34 | U | 34.4 | U | 30.9 | U | 30.9 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 32 | U | 32.3 | U | 32.7 | U | 29.4 | U | 29.3 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03839-014 | | 01-03839-015 | | 01-03839-016 | | 01-03839-001 | | 01-03839-002 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-23 | | SB-23 | | SB-23 (Dup) | | SB-24 | | SB-24 | |
| | Depth: | Objectives / | | 37' - 38' | | 47' - 48' | | 47' - 48' | | 2' - 3' | | 21' - 22' | |
| | Laboratory ID: | Eastern USA | | K9156-6 | | K9156-7 | | K9156-8 | | K9155-1 | | K9155-2 | |
| | Sampling Date: | Background | | 04/20/2001 | | 04/20/2001 | | 04/20/2001 | | 04/19/2001 | | 04/19/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 30.8 | U | 31.1 | U | 31.5 | U | 28.3 | U | 28.3 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 36.8 | U | 37.3 | U | 37.7 | U | 33.9 | U | 33.8 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 29 | U | 29.3 | U | 29.7 | U | 26.7 | U | 26.6 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 35.3 | U | 35.7 | U | 36.1 | U | 32.4 | U | 32.4 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 32.6 | U | 32.9 | U | 33.3 | U | 30 | U | 29.9 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 31.1 | U | 31.5 | U | 31.9 | U | 28.6 | U | 28.6 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 37 | U | 37.4 | U | 37.9 | U | 34 | U | 34 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 24.1 | U | 24.3 | U | 24.6 | U | 22.1 | U | 22.1 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 35.2 | U | 35.6 | U | 36 | U | 32.4 | U | 32.3 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 30.9 | U | 31.3 | U | 31.6 | U | 28.4 | U | 28.4 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 22.6 | U | 22.9 | U | 14.9 | J | 20.8 | U | 20.8 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 35.9 | U | 36.3 | U | 36.7 | U | 33 | U | 32.9 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 27.2 | U | 27.5 | U | 27.8 | U | 25 | U | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 34.3 | U | 34.6 | U | 35.1 | U | 31.5 | U | 31.4 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 32.3 | U | 32.7 | U | 33.1 | U | 29.7 | U | 29.7 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 32.7 | U | 33.1 | U | 33.5 | U | 30.1 | U | 30 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 35.9 | U | 36.3 | U | 36.8 | U | 33 | U | 33 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 24.3 | U | 24.6 | U | 24.9 | U | 22.4 | U | 22.3 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 81 | U | 81.8 | U | 82.9 | U | 74.5 | U | 74.3 | U |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 23.8 | JB | 17.1 | JB | 21.5 | J | 24.1 | J | 31.1 | J |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 24.1 | U | 24.4 | U | 24.7 | U | 22.2 | U | 22.1 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 78.3 | U | 79.1 | U | 80.1 | U | 72 | U | 71.8 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 85.1 | JB | 553 | B | 1090 | | 481 | | 55.2 | J |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 21.7 | U | 22 | U | 22.2 | U | 20 | U | 19.9 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 436 | | 35.2 | U | 35.7 | U | 32 | U | 32 | U |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 36.8 | U | 37.3 | U | 16.1 | J | 33.9 | U | 33.8 | U |
| 120-12-7 | Anthracene | 50000* | µg/kg | 103 | | 27.3 | U | 27.6 | U | 24.8 | U | 24.7 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 15.8 | U | 16 | U | 16.2 | U | 14.6 | U | 14.5 | U |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 50.4 | | 26.7 | U | 27.1 | U | 24.3 | U | 24.3 | U |
| 86-73-7 | Fluorene | 50000* | µg/kg | 121 | | 34.6 | U | 35 | U | 31.5 | U | 31.4 | U |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 245 | | 32.9 | U | 33.3 | U | 29.9 | U | 29.9 | U |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 964 | | 38.6 | U | 39 | U | 35.1 | U | 35 | U |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 527 | | 29.9 | U | 30.2 | U | 27.2 | U | 27.1 | U |
| 129-00-0 | Pyrene | 50000* | µg/kg | 59.3 | | 27 | U | 27.3 | U | 24.6 | U | 24.5 | U |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 2505.7 | | 0 | | 16.1 | | 0 | | 0 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | 24.4 | U | 24.6 | U | 25 | U | 22.4 | U | 22.4 | U |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 17 | U | 17.1 | U | 9.5 | J | 15.6 | U | 15.6 | U |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 25.4 | U | 25.7 | U | 26 | U | 23.3 | U | 23.3 | U |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | 18.9 | U | 19.1 | U | 33 | | 17.4 | U | 17.3 | U |
| 218-01-9 | Chrysene | 400 | µg/kg | 26 | U | 26.3 | U | 26.6 | U | 23.9 | U | 23.9 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 16.5 | U | 16.7 | U | 16.9 | U | 15.2 | U | 15.1 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | 16.6 | U | 16.8 | U | 17 | U | 15.3 | U | 15.2 | U |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 0 | | 0 | | 42.5 | | 0 | | 0 | |
| | **Total PAHs** | | | **2505.7** | | **0** | | **58.6** | | **0** | | **0** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 2300 | | 2130 | | 2030 | | 7030 | | 3960 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.018 | J | 0.22 | U | 0.32 | | 0.13 | J | 0.27 | |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.29 | U | 0.29 | U | 0.3 | U | 0.27 | U | 0.27 | U |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 16.4 | | 15.1 | | 13.9 | | 44.5 | | 29.2 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.073 | U | 0.073 | U | 0.074 | U | 0.067 | U | 0.067 | U |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.073 | U | 0.073 | U | 0.074 | U | 0.067 | U | 0.067 | U |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 18000 | | 17900 | | 17700 | | 1020 | | 1480 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 6.7 | | 4.85 | | 4.88 | | **10.6** | | 8.01 | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 2.69 | | 2.8 | | 2.5 | | 5.75 | | 4.54 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 7.49 | | 6.4 | | 6.3 | | 8.86 | | 8.53 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **6300** | | **5060** | | **5020** | | **10400** | | **7590** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 1.71 | | 1.77 | | 1.59 | | 2.89 | | 2.11 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | **9400** | | **9350** | | **9070** | | 3590 | | 2830 | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 71.5 | | 54.5 | | 54.9 | | 180 | | 102 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.0061 | J | 0.0029 | J | 0.006 | J | 0.016 | | 0.0067 | J |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 4.27 | | 4.02 | | 4.02 | | 8.56 | | 6.67 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 722 | | 613 | | 558 | | 1720 | | 1240 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.28 | U | 0.29 | U | 0.29 | U | 0.26 | U | 0.26 | U |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.091 | U | 0.092 | U | 6.16 | | 0.084 | U | 4.06 | |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 185 | | 254 | | 254 | | 575 | | 564 | |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03839-014 | | 01-03839-015 | | 01-03839-016 | | 01-03839-001 | | 01-03839-002 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-23 | | SB-23 | | SB-23 (Dup) | | SB-24 | | SB-24 | |
| | Depth: | Objectives / | | 37' - 38' | | 47' - 48' | | 47' - 48' | | 2' - 3' | | 21' - 22' | |
| | Laboratory ID: | Eastern USA | | K9156-6 | | K9156-7 | | K9156-8 | | K9155-1 | | K9155-2 | |
| | Sampling Date: | Background | | 04/20/2001 | | 04/20/2001 | | 04/20/2001 | | 04/19/2001 | | 04/19/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.24 | U | 0.24 | U | 0.24 | U | 0.22 | U | 0.22 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 7.69 | | 5.36 | | 5.05 | | 15 | | 10.5 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | 12.2 | | 9.88 | | 10.1 | | **25.5** | | **21.8** | |
| 57-12-5 | Cyanide | | mg/kg | 0.12 | J | 0.053 | J | 0.27 | U | 0.12 | J | 0.1 | J |
| | % Solids | | % | 82.6 | | 81.7 | | 80.7 | | 89.8 | | 90 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | | | | | | | | | | |
| | | | | | | | | | | | | | |
| **Notes** | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| U - Below detection limit | | | | | | | | | | | | | |
| J - Estimated value | | | | | | | | | | | | | |
| NR - Not run | | | | | | | | | | | | | |
| NA - Not available | | | | | | | | | | | | | |
| SB - Site background | | | | | | | | | | | | | |
| MDL - Method Detection Limit | | | | | | | | | | | | | |
| * - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg | | | | | | | | | | | | | |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03839-003 | | 01-03839-004 | | 01-03839-008 | | 01-03839-009 | | 01-03839-010 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-24 | | SB-24 | | SB-25 | | SB-25 | | SB-25 | |
| | Depth: | Objectives / | | 36' - 38' | | 51' - 52' | | 3' - 4' | | 21' - 22' | | 22.5' - 23.5' | |
| | Laboratory ID: | Eastern USA | | K9155-3 | | K9155-4 | | K9155-8 | | K9156-1 | | K9156-2 | |
| | Sampling Date: | Background | | 04/19/2001 | | 04/19/2001 | | 04/20/2001 | | 04/20/2001 | | 04/20/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 42.7 | U | 47.8 | U | 42.8 | U | 41.7 | U | 46.6 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 182 | U | 204 | U | 182 | U | 178 | U | 199 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 96.3 | U | 108 | U | 96.5 | U | 94.2 | U | 105 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 40.3 | U | 45.2 | U | 40.4 | U | 39.4 | U | 44 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 91.3 | U | 102 | U | 91.5 | U | 89.3 | U | 99.8 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 21.2 | U | 23.8 | U | 21.3 | U | 20.8 | U | 23.2 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 60.5 | U | 67.8 | U | 60.6 | U | 59.2 | U | 66.1 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 2030 | U | 0.46 | U | 0.41 | U | 0.4 | U | 0.44 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 5140 | U | 0.22 | U | 0.19 | U | 0.19 | U | 0.21 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 1640 | U | 0.25 | U | 0.23 | U | 0.22 | U | 0.25 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 903 | U | 0.42 | U | 0.37 | U | 0.36 | U | 0.41 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 1020 | U | 8.1 | | 5.9 | | 6 | | 6.7 | |
| 67-64-1 | Acetone | 200 | µg/kg | 9990 | U | 3.14 | U | 2.79 | U | 2.72 | U | 3.04 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 1350 | U | 0.25 | U | 0.23 | U | 0.22 | U | 0.25 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 1690 | U | 0.41 | U | 0.36 | U | 0.35 | U | 0.39 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 1190 | U | 0.19 | U | 0.17 | U | 0.17 | U | 0.18 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 1130 | U | 0.19 | U | 0.17 | U | 0.17 | U | 0.18 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 1810 | U | 0.22 | U | 0.19 | U | 0.19 | U | 0.21 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 790 | U | 0.2 | U | 0.18 | U | 0.18 | U | 0.2 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 734 | U | 0.28 | U | 0.25 | U | 0.24 | U | 0.27 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 3780 | U | 5.18 | U | 4.61 | U | 4.49 | U | 5.02 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 1300 | U | 0.18 | U | 0.16 | U | 0.15 | U | 0.17 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 734 | U | 0.27 | U | 0.24 | U | 0.23 | U | 0.26 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 677 | U | 0.23 | U | 0.2 | U | 0.2 | U | 0.22 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 1020 | U | 0.18 | U | 0.16 | U | 0.15 | U | 0.17 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 1300 | U | 0.23 | U | 0.2 | U | 0.2 | U | 0.22 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 1580 | U | 0.25 | U | 0.23 | U | 0.22 | U | 0.25 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 959 | U | 0.3 | U | 0.27 | U | 0.26 | U | 0.3 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 1300 | U | 0.24 | U | 0.21 | U | 0.21 | U | 0.23 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 677 | U | 0.18 | U | 0.16 | U | 0.15 | U | 0.17 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 1240 | U | 0.28 | U | 0.25 | U | 0.24 | U | 0.27 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 790 | U | 0.3 | U | 0.27 | U | 0.26 | U | 0.3 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 3160 | U | 2.16 | U | 1.92 | U | 1.87 | U | 2.09 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 5080 | U | 1.88 | U | 1.67 | U | 1.63 | U | 1.82 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 1300 | U | 1.2 | | 0.2 | U | 0.2 | U | 0.22 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 734 | U | 3 | | 3.6 | | 2.5 | | 2.8 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 1810 | U | 0.25 | U | 0.23 | U | 0.22 | U | 0.25 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 790 | U | 0.17 | U | 0.15 | U | 0.14 | U | 0.16 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 903 | U | 13.1 | | 0.12 | U | 0.12 | U | 0.14 | U |
| 100-42-5 | Styrene | NA * | µg/kg | 621 | U | 96.5 | | 0.2 | U | 0.2 | U | 0.22 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | **27400** | | 176 | | 3.9 | | 1.1 | | 1.4 | |
| 95-47-6 | o-xylene | 1200 | µg/kg | **9880** | | 73.2 | | 1.8 | | 0.2 | U | 0.22 | U |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **37280** | | **265.3** | | **9.3** | | **3.6** | | **4.2** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 734 | U | 41.1 | U | 36.8 | U | 35.9 | U | 40.1 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 707 | U | 39.6 | U | 35.4 | U | 34.5 | U | 38.6 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 721 | U | 40.4 | U | 36.1 | U | 35.2 | U | 39.4 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 770 | U | 43.2 | U | 38.6 | U | 37.7 | U | 42.1 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 749 | U | 42 | U | 37.6 | U | 36.6 | U | 40.9 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 757 | U | 42.4 | U | 37.9 | U | 37 | U | 41.3 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 625 | U | 35.1 | U | 31.3 | U | 30.6 | U | 34.2 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 816 | U | 45.7 | U | 40.9 | U | 39.9 | U | 44.6 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 605 | U | 33.9 | U | 30.3 | U | 29.6 | U | 33 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 735 | U | 41.2 | U | 36.8 | U | 35.9 | U | 40.2 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 775 | U | 43.5 | U | 38.8 | U | 37.9 | U | 42.3 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 849 | U | 47.6 | U | 42.5 | U | 41.5 | U | 46.4 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 776 | U | 43.5 | U | 38.9 | U | 37.9 | U | 42.4 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 590 | U | 33.1 | U | 29.6 | U | 28.8 | U | 32.2 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 357 | U | 20 | U | 17.9 | U | 17.4 | U | 19.5 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 713 | U | 40 | U | 35.7 | U | 34.8 | U | 38.9 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 618 | U | 34.6 | U | 31 | U | 30.2 | U | 33.7 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 748 | U | 41.9 | U | 37.5 | U | 36.6 | U | 40.9 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 778 | U | 43.6 | U | 39 | U | 38 | U | 42.5 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 749 | U | 42 | U | 37.6 | U | 36.6 | U | 40.9 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 603 | U | 33.8 | U | 30.2 | U | 29.5 | U | 33 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 627 | U | 35.1 | U | 31.4 | U | 30.6 | U | 34.2 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 596 | U | 33.4 | U | 29.9 | U | 29.1 | U | 32.6 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03839-003 | | 01-03839-004 | | 01-03839-008 | | 01-03839-009 | | 01-03839-010 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-24 | | SB-24 | | SB-25 | | SB-25 | | SB-25 | |
| | Depth: | Objectives / | | 36' - 38' | | 51' - 52' | | 3' - 4' | | 21' - 22' | | 22.5' - 23.5' | |
| | Laboratory ID: | Eastern USA | | K9155-3 | | K9155-4 | | K9155-8 | | K9156-1 | | K9156-2 | |
| | Sampling Date: | Background | | 04/19/2001 | | 04/19/2001 | | 04/20/2001 | | 04/20/2001 | | 04/20/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 574 | U | 32.2 | U | 28.8 | U | 28.1 | U | 31.4 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 687 | U | 38.5 | U | 34.4 | U | 33.6 | U | 37.5 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 540 | U | 30.3 | U | 27.1 | U | 26.4 | U | 29.5 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 658 | U | 36.9 | U | 33 | U | 32.2 | U | 35.9 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 607 | U | 34 | U | 30.4 | U | 29.7 | U | 33.2 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 580 | U | 32.5 | U | 29.1 | U | 28.4 | U | 31.7 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 690 | U | 38.7 | U | 34.6 | U | 33.7 | U | 37.7 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 448 | U | 25.1 | U | 22.5 | U | 21.9 | U | 24.5 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | **11200** | | 36.8 | U | 32.9 | U | 32.1 | U | 35.8 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 576 | U | 32.3 | U | 28.9 | U | 28.2 | U | 31.5 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 422 | U | 23.7 | U | 21.2 | U | 8.1 | J | 23.1 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 669 | U | 37.5 | U | 33.5 | U | 32.7 | U | 36.5 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 507 | U | 28.4 | U | 25.4 | U | 24.8 | U | 27.7 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 639 | U | 35.8 | U | 32 | U | 31.2 | U | 34.9 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 603 | U | 33.8 | U | 30.2 | U | 29.5 | U | 32.9 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 610 | U | 34.2 | U | 30.6 | U | 29.8 | U | 33.3 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 670 | U | 37.5 | U | 33.6 | U | 32.7 | U | 36.6 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 454 | U | 25.4 | U | 22.7 | U | 22.2 | U | 24.8 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 1510 | U | 84.6 | U | 75.6 | U | 73.8 | U | 82.4 | U |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 1470 | U | 38 | J | 26.8 | J | 27.6 | JB | 17.3 | JB |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 450 | U | 25.2 | U | 22.6 | U | 22 | U | 24.6 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 1460 | U | 81.8 | U | 73.1 | U | 71.3 | U | 79.7 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 2600 | U | 154 | | 52.8 | J | 59.6 | JB | 30.4 | JB |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 405 | U | 22.7 | U | 20.3 | U | 19.8 | U | 22.1 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 30500 | | 34.2 | J | 32.5 | U | 31.7 | U | 35.5 | U |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | **463000** | | 477 | | 34.4 | U | 33.6 | U | 37.5 | U |
| 120-12-7 | Anthracene | 50000* | µg/kg | **211000** | | 273 | | 25.2 | U | 24.6 | U | 27.5 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 22400 | | 89.5 | | 14.8 | U | 14.4 | U | 16.1 | U |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | **281000** | | 478 | | 24.7 | U | 24.1 | U | 26.9 | U |
| 86-73-7 | Fluorene | 50000* | µg/kg | **242000** | | 219 | | 32 | U | 31.2 | U | 34.9 | U |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | **599000** | | 351 | | 30.4 | U | 29.7 | U | 33.1 | U |
| 91-20-3 | Naphthalene | 13000 | µg/kg | **1570000** | | 771 | | 35.6 | U | 34.8 | U | 38.8 | U |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | **728000** | | 1100 | | 27.6 | U | 26.9 | U | 30.1 | U |
| 129-00-0 | Pyrene | 50000* | µg/kg | **355000** | | 621 | | 25 | U | 24.4 | U | 27.2 | U |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 4501900 | | 4413.7 | | 0 | | 0 | | 0 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | **146000** | | 222 | | 22.8 | U | 22.2 | U | 24.8 | U |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | **44700** | | 81.4 | | 15.8 | U | 15.5 | U | 17.3 | U |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | **53400** | | 113 | | 23.7 | U | 23.1 | U | 25.9 | U |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **113000** | | **185** | | 17.6 | U | 17.2 | U | 19.2 | U |
| 218-01-9 | Chrysene | 400 | µg/kg | **125000** | | 205 | | 24.3 | U | 23.7 | U | 26.5 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | **19600** | | 59.9 | | 15.4 | U | 15 | U | 16.8 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | **6570** | | 17.3 | U | 15.5 | U | 15.1 | U | 16.9 | U |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 508270 | | | | 0 | | 0 | | 0 | |
| | **Total PAHs** | | | **5010170** | | **4413.7** | | **0** | | **0** | | **0** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 2880 | | 1750 | | 6750 | | 4250 | | 3800 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.14 | J | 0.032 | J | 0.085 | J | 0.05 | J | 0.17 | J |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.27 | U | 0.3 | U | 0.27 | U | 0.26 | U | 0.3 | U |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 26.1 | | 12.3 | | 51.8 | | 32.5 | | 36.8 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.068 | U | 0.076 | U | 0.068 | U | 0.066 | U | 0.074 | U |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.068 | U | 0.076 | U | 0.068 | U | 0.066 | U | 0.074 | U |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 34600 | | 19900 | | 1030 | | 1140 | | 27700 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 5.58 | | 6.51 | | **11.5** | | 8.58 | | 7.83 | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 3.67 | | 3.11 | | 6.78 | | 4.95 | | 4.52 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 7.41 | | 7.35 | | 12.7 | | 9.42 | | 7.32 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **6690** | | **5910** | | **12100** | | **8530** | | **7770** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 1.82 | | 1.85 | | 2.66 | | 2.05 | | 2 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | **17300** | | **9850** | | 3600 | | 2820 | | **16300** | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 81.1 | | 60.2 | | 144 | | 136 | | 118 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.0083 | J | 0.0078 | J | 0.014 | | 0.0048 | J | 0.0034 | J |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 4.91 | | 4.09 | | 9.86 | | 6.78 | | 6.35 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 1150 | | 498 | | 2270 | | 1550 | | 1570 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.27 | U | 0.3 | U | 0.27 | U | 0.26 | U | 0.29 | U |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.085 | U | 0.095 | U | 0.085 | U | 0.083 | U | 0.093 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 149 | | 210 | | 91.6 | | 61.1 | | 117 | |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03839-003 | | 01-03839-004 | | 01-03839-008 | | 01-03839-009 | | 01-03839-010 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-24 | | SB-24 | | SB-25 | | SB-25 | | SB-25 | |
| | Depth: | Objectives / | | 36' - 38' | | 51' - 52' | | 3' - 4' | | 21' - 22' | | 22.5' - 23.5' | |
| | Laboratory ID: | Eastern USA | | K9155-3 | | K9155-4 | | K9155-8 | | K9156-1 | | K9156-2 | |
| | Sampling Date: | Background | | 04/19/2001 | | 04/19/2001 | | 04/20/2001 | | 04/20/2001 | | 04/20/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.22 | U | 0.25 | U | 0.22 | U | 0.22 | U | 0.24 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 7.54 | | 6.77 | | 17.9 | | 11.5 | | 10.1 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | 14.1 | | 8.87 | | **30** | | **20** | | 16.6 | |
| 57-12-5 | Cyanide | | mg/kg | 0.26 | U | 0.24 | U | 0.29 | U | 0.096 | J | 0.29 | U |
| | % Solids | | % | 88.6 | | 79 | | 88.4 | | 90.6 | | 81.1 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | | | | | | | | | | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03839-011 | | 01-04367-005 | | 01-04367-006 | | 01-04367-007 | | 01-04230-004 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-25 | | SB-26 | | SB-26 | | SB-26 | | SB-27A (MLK) | |
| | Depth: | Objectives / | | 43' - 44' | | 5' - 7' | | 10' - 12' | | 28' - 32' | | 2' - 3' | |
| | Laboratory ID: | Eastern USA | | K9156-3 | | K9270-5 | | K9270-6 | | K9270-7 | | | |
| | Sampling Date: | Background | | 04/20/2001 | | 06/22/2001 | | 06/22/2001 | | 06/22/2001 | | 5/22/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 46.8 | U | 7.66 | U | 8.34 | U | 7.41 | U | <36 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 199 | U | 9.33 | U | 10.2 | U | 9.03 | U | <74 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 106 | U | 6.66 | U | 7.25 | U | 6.44 | U | <36 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 44.2 | U | 8.33 | U | 9.07 | U | 8.06 | U | <36 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 100 | U | 10.4 | U | 11.3 | U | 10.1 | U | <36 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 23.3 | U | 6.22 | U | 6.78 | U | 6.02 | U | <36 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 66.3 | U | 6.27 | U | 6.83 | U | 6.06 | U | <36 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.45 | U | 0.41 | U | 0.45 | U | 0.4 | U | <11 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.21 | U | 0.2 | U | 0.21 | U | 0.19 | U | <11 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.25 | U | 0.23 | U | 0.25 | U | 0.22 | U | <11 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.41 | U | 0.38 | U | 0.41 | U | 0.37 | U | <11 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 5.9 | | 12.3 | B | 11.9 | B | 11.1 | B | <11 | U |
| 67-64-1 | Acetone | 200 | µg/kg | 3.06 | U | 117 | | 65 | | 5.55 | U | 5 | JB |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 0.25 | U | 0.23 | U | 2 | | 0.59 | | <11 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 0.4 | U | 0.37 | U | 0.4 | U | 0.36 | U | <11 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.19 | U | 0.17 | U | 0.19 | U | 0.17 | U | <11 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.19 | U | 0.17 | U | 0.19 | U | 0.17 | U | <11 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.21 | U | 0.2 | U | 0.21 | U | 0.19 | U | <11 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.2 | U | 0.18 | U | 0.2 | U | 0.18 | U | <11 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.27 | U | 0.25 | U | 0.28 | U | 0.24 | U | <11 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 5.06 | U | 4.69 | U | 5.1 | U | 4.53 | U | <11 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.17 | U | 0.16 | U | 0.17 | U | 0.16 | U | <11 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.26 | U | 0.24 | U | 0.26 | U | 0.23 | U | <11 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.22 | U | 0.21 | U | 0.22 | U | 0.2 | U | <11 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.17 | U | 0.16 | U | 0.17 | U | 0.16 | U | <11 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.22 | U | 0.21 | U | 0.22 | U | 0.2 | U | <11 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 0.25 | U | 0.23 | U | 0.25 | U | 0.22 | U | <11 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.3 | U | 0.28 | U | 0.3 | U | 0.27 | U | <11 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.24 | U | 0.22 | U | 0.24 | U | 0.21 | U | <11 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 0.17 | U | 0.16 | U | 0.17 | U | 0.16 | U | <11 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.27 | U | 0.25 | U | 0.28 | U | 0.24 | U | <11 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.3 | U | 0.28 | U | 0.3 | U | 0.27 | U | <11 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 2.11 | U | 5.75 | U | 6.25 | U | 5.55 | U | <11 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 1.84 | U | 5.75 | U | 6.25 | U | 5.55 | U | <11 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.22 | U | 1.1 | | 0.22 | U | 0.2 | U | <11 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 3.7 | | 0.23 | U | 0.25 | U | 0.22 | U | <11 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.25 | U | 0.23 | U | 0.25 | U | 0.22 | U | <11 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 0.16 | U | 0.15 | U | 0.16 | U | 0.14 | U | <11 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 0.14 | U | 0.13 | U | 0.14 | U | 0.12 | U | <11 | U |
| 100-42-5 | Styrene | NA * | µg/kg | 0.22 | U | 0.21 | U | 0.22 | U | 0.2 | U | <11 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 1.3 | | 0.29 | U | 0.31 | U | 0.28 | U | <11 | U |
| 95-47-6 | o-xylene | 1200 | µg/kg | 0.22 | U | 0.21 | U | 0.22 | U | 0.2 | U | <11 | U |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **5** | | **0** | | **0** | | **0** | | **0** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 40.2 | U | 68.7 | U | 74.8 | U | 66.4 | U | **49** | J |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 38.7 | U | 88.9 | U | 96.9 | U | 86.1 | U | <360 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 39.5 | U | 83.5 | U | 91 | U | 80.8 | U | <360 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 42.2 | U | 91.1 | U | 99.2 | U | 88.2 | U | <360 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 41.1 | U | 86.6 | U | 94.4 | U | 83.8 | U | <360 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 41.5 | U | 97.7 | U | 106 | U | 94.5 | U | <360 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 34.3 | U | 87.6 | U | 95.4 | U | 84.7 | U | <360 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 44.7 | U | 92.4 | U | 101 | U | 89.4 | U | <360 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 33.2 | U | 87.7 | U | 95.5 | U | 84.8 | U | <360 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 40.3 | U | 80.8 | U | 88 | U | 78.1 | U | <360 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 42.5 | U | 77.7 | U | 84.6 | U | 75.1 | U | <360 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 46.5 | U | 96.5 | U | 105 | U | 93.4 | U | <360 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 42.5 | U | 78.7 | U | 85.7 | U | 76.1 | U | <360 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 32.3 | U | 73.3 | U | 79.8 | U | 70.9 | U | <360 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 19.6 | U | 68.5 | U | 74.7 | U | 66.3 | U | <360 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 39.1 | U | 90 | U | 98 | U | 87.1 | U | <360 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 33.9 | U | 81 | U | 88.2 | U | 78.4 | U | <360 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 41 | U | 98.7 | U | 108 | U | 95.5 | U | <360 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 42.7 | U | 49 | U | 53.3 | U | 47.4 | U | <360 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 41.1 | U | 92.4 | U | 101 | U | 89.4 | U | <360 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 33.1 | U | 95 | U | 104 | U | 92 | U | 69 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 34.4 | U | 40.9 | U | 44.5 | U | 39.6 | U | <360 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 32.7 | U | 81.3 | U | 88.6 | U | 78.7 | U | <360 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03839-011 | | 01-04367-005 | | 01-04367-006 | | 01-04367-007 | | 01-04230-004 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-25 | | SB-26 | | SB-26 | | SB-26 | | SB-27A (MLK) | |
| | Depth: | Objectives / | | 43' - 44' | | 5' - 7' | | 10' - 12' | | 28' - 32' | | 2' - 3' | |
| | Laboratory ID: | Eastern USA | | K9156-3 | | K9270-5 | | K9270-6 | | K9270-7 | | | |
| | Sampling Date: | Background | | 04/20/2001 | | 06/22/2001 | | 06/22/2001 | | 06/22/2001 | | 5/22/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 31.5 | U | 72.5 | U | 78.9 | U | 70.1 | U | <910 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 37.7 | U | 94.5 | U | 103 | U | 91.4 | U | <360 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 29.6 | U | 71 | U | 77.3 | U | 68.7 | U | <910 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 36.1 | U | 94.4 | U | 103 | U | 91.3 | U | <360 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 33.3 | U | 70 | U | 76.3 | U | 67.8 | U | <360 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 31.8 | U | 45.2 | U | 49.2 | U | 43.7 | U | <910 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 37.8 | U | 66.9 | U | 72.9 | U | 64.8 | U | <910 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 24.6 | U | 150 | U | 164 | U | 145 | U | <910 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 36 | U | 97.1 | U | 106 | U | 94 | U | <360 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 31.6 | U | 64.1 | U | 69.8 | U | 62 | U | <360 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 23.1 | U | 62 | U | 67.5 | U | 60 | U | <360 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 36.7 | U | 112 | U | 122 | U | 108 | U | <360 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 27.8 | U | 52.1 | U | 56.7 | U | 50.4 | U | <910 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 35 | U | 87.9 | U | 95.7 | U | 85.1 | U | <910 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 33 | U | 92.5 | U | 101 | U | 89.5 | U | <360 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 33.5 | U | 84.3 | U | 91.8 | U | 81.6 | U | <360 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 36.7 | U | 82.7 | U | 90.1 | U | 80 | U | <360 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 24.9 | U | 56.2 | U | 61.2 | U | 54.4 | U | <910 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 82.7 | U | 65.8 | U | 71.6 | U | 63.7 | U | <360 | U |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 23.5 | JB | 249 | U | 271 | U | 241 | U | 30 | J |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 24.7 | U | 55.1 | U | 60 | U | 53.3 | U | 20 | J |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 80 | U | 95.4 | U | 104 | U | 92.3 | U | <360 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 283 | B | 36.9 | JB | 286 | JB | 41.2 | JB | 24 | J |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 22.2 | U | 71 | U | 77.3 | U | 68.7 | U | <360 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 35.6 | U | 99.5 | U | 108 | U | 96.3 | U | <360 | U |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 37.7 | U | 92.6 | U | 101 | U | 89.6 | U | 34 | J |
| 120-12-7 | Anthracene | 50000* | µg/kg | 27.6 | U | 82.7 | U | 90.1 | U | 80 | U | 25 | J |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 16.2 | U | 61.1 | U | 66.5 | U | 59.1 | U | 130 | J |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 27 | U | 73.2 | U | 79.7 | U | 70.8 | U | 190 | J |
| 86-73-7 | Fluorene | 50000* | µg/kg | 35 | U | 101 | U | 110 | U | 97.9 | U | <360 | U |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 33.2 | U | 81.2 | U | 46.4 | J | 78.6 | U | <360 | U |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 39 | U | 95.4 | U | 55.2 | J | 92.3 | U | 22 | J |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 30.2 | U | 81.1 | U | 60.2 | J | 78.5 | U | 98 | J |
| 129-00-0 | Pyrene | 50000* | µg/kg | 27.3 | U | 60.6 | U | 31.4 | J | 58.6 | U | 210 | J |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 0 | | 0 | | 193.2 | | 0 | | 709 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | 24.9 | U | 57.8 | U | 63 | U | 56 | U | 150 | J |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 17.3 | U | 94.6 | U | 103 | U | 91.5 | U | 200 | J |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 25.9 | U | 76.7 | U | 83.6 | U | 74.2 | U | 130 | J |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | 19.3 | U | 62.7 | U | 68.3 | U | 60.6 | U | **180** | J |
| 218-01-9 | Chrysene | 400 | µg/kg | 26.6 | U | 57.6 | U | 62.7 | U | 55.7 | U | 150 | J |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 16.9 | U | 73.3 | U | 79.8 | U | 70.9 | U | 110 | J |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | 17 | U | 68.9 | U | 75 | U | 66.7 | U | **40** | J |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 0 | | 0 | | 0 | | 0 | | 960 | |
| | **Total PAHs** | | | **0** | | **0** | | **193.2** | | **0** | | **1669** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 2440 | | 5090 | | 4720 | | 3550 | | 9060 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.18 | J | 0.081 | J | 0.46 | | 0.44 | | <0.41 | U |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.3 | U | 0.28 | U | 0.3 | U | 0.27 | U | 2.3 | |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 21.6 | | 29.3 | | 73.3 | | 65.4 | | 80.9 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.074 | U | 0.069 | U | 0.075 | U | 0.067 | U | **0.2** | |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.074 | U | 0.069 | U | 0.33 | | 0.067 | U | <0.11 | U |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 15700 | | 1260 | | 1460 | | 9590 | | 6740 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 6.53 | | 7.53 | | **10.4** | | **29.9** | | **14.3** | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 2.98 | | 4.41 | | 6.81 | | 5 | | 7.9 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 4.83 | | 8.67 | | 12.6 | | 11.4 | | 22.4 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **6880** | | **7680** | | **6180** | | **7490** | | **18100** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 1.77 | | 14.1 | | 2.2 | | 1.5 | | 48.1 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | **9100** | | 2380 | | 2790 | | **7210** | | **6130** | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 61.3 | | 133 | | 53.1 | | 87.5 | | 305 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.015 | | 0.021 | | 0.013 | | 0.0076 | J | **0.13** | |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 4.72 | | 7.02 | | 8.44 | | **30** | | 12.9 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 881 | | 1060 | | 931 | | 2110 | | 1940 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.29 | U | 0.27 | U | 0.29 | U | 0.26 | U | 1.5 | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.093 | U | 0.086 | U | 0.094 | U | 0.084 | U | <0.1 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 247 | | 187 | | 558 | | 138 | | 200 | |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03839-011 | | 01-04367-005 | | 01-04367-006 | | 01-04367-007 | | 01-04230-004 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-25 | | SB-26 | | SB-26 | | SB-26 | | SB-27A (MLK) | |
| | Depth: | Objectives / | | 43' - 44' | | 5' - 7' | | 10' - 12' | | 28' - 32' | | 2' - 3' | |
| | Laboratory ID: | Eastern USA | | K9156-3 | | K9270-5 | | K9270-6 | | K9270-7 | | | |
| | Sampling Date: | Background | | 04/20/2001 | | 06/22/2001 | | 06/22/2001 | | 06/22/2001 | | 5/22/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.24 | U | 0.22 | U | 0.24 | U | 0.22 | U | 0.76 | |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 7.37 | | 9.99 | | 16.2 | | 12.5 | | 22.8 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | 12.6 | | **20.6** | | **28.8** | | 15.5 | | 76.7 | |
| 57-12-5 | Cyanide | | mg/kg | 0.24 | U | 0.063 | J | 0.26 | U | 0.27 | U | <0.03 | U |
| | % Solids | | % | 80.8 | | 86.8 | | 79.7 | | 89.7 | | 91.4 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | | | | | | | | | | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04367-014 | | 01-04367-008 | | 01-04367-009 | | 01-04367-010 | | 01-04230-009 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-27 | | MW-27 | | MW-27 | | MW-27 | | SB-28 | |
| | Depth: | Objectives / | | 2' - 3' | | 9' - 10.5' | | 11' - 12' | | 30' - 31.5' | | 2' - 4' | |
| | Laboratory ID: | Eastern USA | | K9271-5 | | K9270-8 | | K9270-9- | | K9271-1 | | | |
| | Sampling Date: | Background | | 06/21/2001 | | 06/22/2001 | | 06/22/2001 | | 06/22/2001 | | 5/24/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 7.39 | U | 7.95 | U | NR | | 8.87 | U | <35 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 9 | U | 9.68 | U | NR | | 10.8 | U | <72 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 6.42 | U | 6.91 | U | NR | | 7.71 | U | <35 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 8.03 | U | 8.64 | U | NR | | 9.64 | U | <35 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 10 | U | 10.8 | U | NR | | 12 | U | <35 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 6 | U | 6.45 | U | NR | | 7.2 | U | <35 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 6.04 | U | 6.5 | U | NR | | 7.25 | U | <35 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.4 | U | 0.43 | U | NR | | 2.4 | U | <10 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.19 | U | 0.2 | U | NR | | 1.13 | U | <10 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.22 | U | 0.24 | U | NR | | 1.33 | U | <10 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.37 | U | 0.39 | U | NR | | 2.2 | U | <10 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 10.7 | B | 14.1 | B | NR | | 41.8 | B | 1 | JB |
| 67-64-1 | Acetone | 200 | µg/kg | 60.4 | | 5.95 | U | NR | | **363** | | 3 | JB |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 0.22 | U | 0.24 | U | NR | | 1.33 | U | <10 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 0.36 | U | 0.38 | U | NR | | 2.13 | U | <10 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.17 | U | 0.18 | U | NR | | 1 | U | <10 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.17 | U | 0.18 | U | NR | | 1 | U | <10 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.19 | U | 0.2 | U | NR | | 1.13 | U | <10 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.18 | U | 0.19 | U | NR | | 1.07 | U | <10 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.24 | U | 0.26 | U | NR | | 1.47 | U | <10 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 4.53 | U | 4.86 | U | NR | | 27.2 | U | <10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.16 | U | 0.17 | U | NR | | 0.93 | U | <10 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.23 | U | 0.25 | U | NR | | 1.4 | U | <10 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.2 | U | 0.21 | U | NR | | 1.2 | U | <10 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.16 | U | 0.17 | U | NR | | 0.93 | U | <10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.2 | U | 0.21 | U | NR | | 1.2 | U | <10 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 0.22 | U | 0.24 | U | NR | | 1.33 | U | <10 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.27 | U | 0.29 | U | NR | | 1.6 | U | <10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.21 | U | 0.23 | U | NR | | 1.27 | U | <10 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 0.16 | U | 0.17 | U | NR | | 0.93 | U | <10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.24 | U | 0.26 | U | NR | | 1.47 | U | <10 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.27 | U | 0.29 | U | NR | | 1.6 | U | <10 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 5.55 | U | 5.95 | U | NR | | 33.3 | U | <10 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 5.55 | U | 5.95 | U | NR | | 33.3 | U | <10 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.2 | U | 0.21 | U | NR | | 1.2 | U | <10 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 0.22 | U | 0.24 | U | NR | | 4.4 | | <10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.22 | U | 0.24 | U | NR | | 1.33 | U | <10 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 0.14 | U | 0.15 | U | NR | | 0.87 | U | <10 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 0.12 | U | 0.13 | U | NR | | 0.73 | U | <10 | U |
| 100-42-5 | Styrene | NA * | µg/kg | 0.2 | U | 0.21 | U | NR | | 1.2 | U | <10 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 0.28 | U | 1.1 | | NR | | 7.7 | | <10 | U |
| 95-47-6 | o-xylene | 1200 | µg/kg | 0.2 | U | 0.21 | U | NR | | 1.2 | U | <10 | U |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **0** | | **1.1** | | **NR** | | **12.1** | | **0** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 66.2 | U | 71.2 | U | NR | | 79.5 | U | <350 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 85.8 | U | 92.2 | U | NR | | 103 | U | <350 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 80.6 | U | 86.6 | U | NR | | 96.7 | U | <350 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 87.9 | U | 94.5 | U | NR | | 105 | U | <350 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 83.6 | U | 89.8 | U | NR | | 100 | U | <350 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 94.2 | U | 101 | U | NR | | 113 | U | <350 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 84.4 | U | 90.8 | U | NR | | 101 | U | <350 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 89.1 | U | 95.8 | U | NR | | 107 | U | <350 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 84.6 | U | 90.9 | U | NR | | 101 | U | <350 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 77.9 | U | 83.7 | U | NR | | 93.5 | U | <350 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 74.9 | U | 80.5 | U | NR | | 89.9 | U | <350 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 93.1 | U | 100 | U | NR | | 112 | U | <350 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 75.9 | U | 81.6 | U | NR | | 91.1 | U | <350 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 70.7 | U | 76 | U | NR | | 84.8 | U | <350 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 66.1 | U | 71.1 | U | NR | | 79.3 | U | <350 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 86.8 | U | 93.3 | U | NR | | 104 | U | <350 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 78.1 | U | 84 | U | NR | | 93.7 | U | <350 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 95.2 | U | 102 | U | NR | | 114 | U | <350 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 47.2 | U | 50.8 | U | NR | | 56.7 | U | <350 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 89.1 | U | 95.8 | U | NR | | 107 | U | <350 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 91.7 | U | 98.6 | U | NR | | 110 | U | <350 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 39.4 | U | 42.4 | U | NR | | 47.3 | U | <350 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 78.4 | U | 84.3 | U | NR | | 94.1 | U | <350 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04367-014 | | 01-04367-008 | | 01-04367-009 | | 01-04367-010 | | 01-04230-009 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-27 | | MW-27 | | MW-27 | | MW-27 | | SB-28 | |
| | Depth: | Objectives / | | 2' - 3' | | 9' - 10.5' | | 11' - 12' | | 30' - 31.5' | | 2' - 4' | |
| | Laboratory ID: | Eastern USA | | K9271-5 | | K9270-8 | | K9270-9- | | K9271-1 | | | |
| | Sampling Date: | Background | | 06/21/2001 | | 06/22/2001 | | 06/22/2001 | | 06/22/2001 | | 5/24/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 69.9 | U | 75.1 | U | NR | | 83.9 | U | <880 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 91.1 | U | 98 | U | NR | | 109 | U | <350 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 68.4 | U | 73.6 | U | NR | | 82.1 | U | <880 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 91 | U | 97.8 | U | NR | | 109 | U | <350 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 67.6 | U | 72.6 | U | NR | | 81.1 | U | <350 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 43.6 | U | 46.8 | U | NR | | 52.3 | U | <880 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 64.6 | U | 69.4 | U | NR | | 77.5 | U | <880 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 145 | U | 156 | U | NR | | 174 | U | <880 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 93.7 | U | 101 | U | NR | | 112 | U | <350 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 61.8 | U | 66.4 | U | NR | | 74.1 | U | <350 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 59.8 | U | 64.3 | U | NR | | 71.7 | U | <350 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 108 | U | 116 | U | NR | | 129 | U | <350 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 50.2 | U | 54 | U | NR | | 60.3 | U | <350 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 84.8 | U | 91.2 | U | NR | | 102 | U | <350 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 89.2 | U | 95.9 | U | NR | | 107 | U | <350 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 81.3 | U | 87.5 | U | NR | | 97.6 | U | <350 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 79.8 | U | 85.8 | U | NR | | 95.7 | U | <350 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 54.2 | U | 58.3 | U | NR | | 65.1 | U | <880 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 63.4 | U | 68.2 | U | NR | | 76.1 | U | <350 | U |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 240 | U | 258 | U | NR | | 288 | U | <350 | U |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 53.1 | U | 57.1 | U | NR | | 63.7 | U | <350 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 92 | U | 98.9 | U | NR | | 110 | U | <350 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 66.7 | J | 66.9 | JB | NR | | 56 | JB | 20 | J |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 68.4 | U | 73.6 | U | NR | | 82.1 | U | <350 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 96 | U | 103 | U | NR | | 115 | U | <350 | U |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 137 | | 96.1 | U | NR | | 107 | U | <350 | U |
| 120-12-7 | Anthracene | 50000* | µg/kg | 47.8 | J | 85.8 | U | NR | | 95.7 | U | <350 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 282 | | 63.3 | U | NR | | 70.7 | U | <350 | U |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 261 | | 75.9 | U | NR | | 84.7 | U | <350 | U |
| 86-73-7 | Fluorene | 50000* | µg/kg | 97.6 | U | 105 | U | NR | | 117 | U | <350 | U |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 24.4 | J | 84.2 | U | NR | | 94 | U | <350 | U |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 51.1 | J | 44.2 | J | NR | | 110 | U | <350 | U |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 102 | | 84.1 | U | NR | | 93.9 | U | <350 | U |
| 129-00-0 | Pyrene | 50000* | µg/kg | 372 | | 62.8 | U | NR | | 70.1 | U | <350 | U |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 1277.3 | | 44.2 | | NR | | 0 | | 0 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | 207 | | 60 | U | NR | | 66.9 | U | <350 | U |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 249 | | 98.1 | U | NR | | 109 | U | <350 | U |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 321 | | 79.6 | U | NR | | 88.8 | U | <350 | U |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **293** | | 65 | U | NR | | **633** | | <350 | U |
| 218-01-9 | Chrysene | 400 | µg/kg | 301 | | 59.7 | U | NR | | 66.7 | U | <350 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 203 | | 76 | U | NR | | 84.8 | U | <350 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | **53.3** | J | 71.4 | U | NR | | 79.7 | U | <350 | U |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 1627.3 | | 0 | | NR | | 633 | | 0 | |
| | **Total PAHs** | | | **2904.6** | | **44.2** | | **NR** | | **633** | | **0** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 4500 | | 3110 | | NR | | 5580 | | 6830 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.061 | J | 0.06 | J | NR | | 0.24 | U | 0.84 | |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.27 | U | 0.29 | U | NR | | 0.32 | U | 0.71 | |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 35.8 | | 42.5 | | NR | | 62.5 | | 33.2 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.067 | U | 0.072 | U | NR | | 0.08 | U | **0.19** | |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.067 | U | 0.072 | U | NR | | 0.08 | U | <0.1 | U |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 4720 | | 7770 | | NR | | 1160 | | 225 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 7.49 | | 8.64 | | NR | | **10.4** | | 9.5 | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 3.71 | | 3.83 | | NR | | 4.09 | | 6.8 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 15 | | 7.95 | | NR | | 5.22 | | 13.7 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **7210** | | **6080** | | NR | | **8280** | | **13500** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 26 | | 2.29 | | NR | | 3.32 | | 3.4 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | 3410 | | **5370** | | NR | | 1810 | | 2520 | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 126 | | 73 | | NR | | 142 | | 245 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | **0.13** | | 0.052 | | NR | | 0.026 | | <0.036 | U |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 6.08 | | 6.79 | | NR | | 6.39 | | 10.6 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 1200 | | 1520 | | NR | | 445 | | 769 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.26 | U | 0.28 | U | NR | | 0.31 | U | 0.93 | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.083 | U | 0.09 | U | NR | | 0.1 | U | <0.1 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 207 | | 167 | | NR | | 244 | | 30.8 | |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | **Client Sample ID:** | **TAGM 4046** | | **01-04367-014** | | **01-04367-008** | | **01-04367-009** | | **01-04367-010** | | **01-04230-009** | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Sample Location:** | **Soil Cleanup** | | **SB-27** | | **MW-27** | | **MW-27** | | **MW-27** | | **SB-28** | |
| | **Depth:** | **Objectives /** | | **2' - 3'** | | **9' - 10.5'** | | **11' - 12'** | | **30' - 31.5'** | | **2' - 4'** | |
| | **Laboratory ID:** | **Eastern USA** | | **K9271-5** | | **K9270-8** | | **K9270-9-** | | **K9271-1** | | | |
| | **Sampling Date:** | **Background** | | **06/21/2001** | | **06/22/2001** | | **06/22/2001** | | **06/22/2001** | | **5/24/2001** | |
| | **Matrix:** | **Concentrations** | | **Soil** | | **Soil** | | **Soil** | | **Soil** | | **Soil** | |
| | **Validated:** | | | **No** | | **No** | | **No** | | **No** | | **No** | |
| **Cas #:** | **Analyte:** | | **Units:** | | | | | | | | | | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.22 | U | 0.23 | U | NR | | 0.26 | U | <0.32 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 10 | | 7.93 | | NR | | 15.2 | | 13.9 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **31.1** | | 15.6 | | NR | | **22.5** | | **25.6** | |
| 57-12-5 | Cyanide | | mg/kg | 0.28 | U | 0.28 | U | NR | | 0.1 | J | <0.03 | U |
| | % Solids | | % | 90 | | 83.7 | | NR | | 75 | | 92.8 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | | | | | | | | | | |
| | | | | | | | | | | | | | |
| **Notes** | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| U - Below detection limit | | | | | | | | | | | | | |
| J - Estimated value | | | | | | | | | | | | | |
| NR - Not run | | | | | | | | | | | | | |
| NA - Not available | | | | | | | | | | | | | |
| SB - Site background | | | | | | | | | | | | | |
| MDL - Method Detection Limit | | | | | | | | | | | | | |
| * - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04230-008 | | 01-04230-007 | | 01-04230-010 | | 01-04230-006 | | 01-04230- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-28 | | SB-28 | | SB-28 | | SB-28 | | SB-28 |
| | Depth: | Objectives / | | 10' - 11' | | 27' - 28' | | 50' - 52' | | 68' - 75' | | 75' - 77 |
| | Laboratory ID: | Eastern USA | | | | | | | | | | |
| | Sampling Date: | Background | | 5/24/2001 | | 5/24/2001 | | 5/24/2001 | | 5/21/2001 | | 5/24/200 |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil |
| | Validated: | | | No | | No | | No | | No | | No |
| Cas #: | Analyte: | | Units: | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | <34 | U | <38 | U | <39 | U | <40 | U | <40 |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | <69 | U | <78 | U | <79 | U | <80 | U | <82 |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | <34 | U | <38 | U | <39 | U | <40 | U | <40 |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | <34 | U | <38 | U | <39 | U | <40 | U | <40 |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | <34 | U | <38 | U | <39 | U | <40 | U | <40 |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | <34 | U | <38 | U | <39 | U | <40 | U | <40 |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | <34 | U | <38 | U | <39 | U | <40 | U | <40 |
| | **Volatiles** | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 74-83-9 | Bromomethane | NA * | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 75-00-3 | Chloroethane | 1900 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | <10 | U | 2 | JB | 2 | JB | <12 | U | 2 |
| 67-64-1 | Acetone | 200 | µg/kg | 5 | JB | 13 | B | 10 | JB | 8 | JB | 11 |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 67-66-3 | Chloroform | 300 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 78-93-3 | 2-Butanone | 300 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 79-01-6 | Trichloroethene | 700 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 71-43-2 | Benzene | 60 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 75-25-2 | Bromoform | NA * | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 108-88-3 | Toluene | 1500 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 100-42-5 | Styrene | NA * | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| 95-47-6 | o-xylene | 1200 | µg/kg | <10 | U | <11 | U | <11 | U | <12 | U | <12 |
| | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **0** | | **0** | | **0** | | **0** | | **0** |
| | **Semi-Volatiles** | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | **120** |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 78-59-1 | Isophorone | 4400 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | 270 |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04230-008 | | 01-04230-007 | | 01-04230-010 | | 01-04230-006 | | 01-04230- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-28 | | SB-28 | | SB-28 | | SB-28 | | SB-28 |
| | Depth: | Objectives / | | 10' - 11' | | 27' - 28' | | 50' - 52' | | 68' - 75' | | 75' - 77 |
| | Laboratory ID: | Eastern USA | | | | | | | | | | |
| | Sampling Date: | Background | | 5/24/2001 | | 5/24/2001 | | 5/24/2001 | | 5/21/2001 | | 5/24/200 |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil |
| | Validated: | | | No | | No | | No | | No | | No |
| Cas #: | Analyte: | | Units: | | | | | | | | | |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | <850 | U | <980 | U | <980 | U | <1000 | U | <1000 |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | <340 | U | <980 | U | <980 | U | <1000 | U | <1000 |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | <850 | U | <980 | U | <980 | U | <1000 | U | <1000 |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | <850 | U | <980 | U | <980 | U | <1000 | U | <1000 |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | <850 | U | <980 | U | <980 | U | <1000 | U | <1000 |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | <850 | U | <980 | U | <390 | U | <1000 | U | <1000 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | <850 | U | <980 | U | <390 | U | <1000 | U | <1000 |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | <850 | U | <980 | U | <980 | U | <1000 | U | <1000 |
| 86-74-8 | Carbazole | NA * | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 21 | J | 33 | J | <390 | U | <400 | U | 23 |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 57 | J | 56 | J | 180 | J | 20 | J | 46 |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 120-12-7 | Anthracene | 50000* | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 86-73-7 | Fluorene | 50000* | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 91-20-3 | Naphthalene | 13000 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 129-00-0 | Pyrene | 50000* | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 0 | | 0 | | 0 | | 0 | | 0 |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 218-01-9 | Chrysene | 400 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | <340 | U | <390 | U | <390 | U | <400 | U | <410 |
| | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 0 | | 0 | | 0 | | 0 | | 0 |
| | **Total PAHs** | | | **0** | | **0** | | **0** | | **0** | | **0** |
| | **Metals** | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 3070 | | 5650 | | 4990 | | 2960 | | 6310 |
| 7440-36-0 | Antimony | SB / NA | mg/kg | <0.41 | U | <0.47 | U | <0.45 | U | <0.45 | U | <0.46 |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 1.1 | | 0.57 | | 0.56 | | 0.82 | | 0.96 |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 28.1 | | 48.4 | | 82.8 | | 31.2 | | 52.9 |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | <0.1 | U | <0.12 | U | **1.1** | | <0.11 | U | <0.12 |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | <0.1 | U | <0.12 | U | <0.11 | U | <0.11 | U | <0.12 |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | **43300** | | 10300 | | 2080 | | 22000 | | 33200 |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 6.5 | | **10.4** | | **31.3** | | 9 | | **13.0** |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 3.1 | | 7.5 | | 17.5 | | 4.21 | | 6.4 |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 19.1 | | 19.4 | | 13 | | 13.1 | | 17.3 |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **6460** | | **12700** | | **63600** | | **9300** | | **12500** |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 5 | | 3.9 | | 2.5 | | 2.4 | | 2.9 |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | **24100** | | **9330** | | 3130 | | **11500** | | **21100** |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 99.7 | | 129 | | 109 | | 104 | | 128 |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | <0.034 | U | <0.039 | U | <0.04 | U | <0.038 | U | <0.042 |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 5.4 | | 10.3 | | **14.6** | | 7.7 | | 10.1 |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 1480 | | 2120 | | 2310 | | 1280 | | 3250 |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | <0.92 | U | **3** | | <1 | U | <1 | U | <1 |
| 7440-22-4 | Silver | SB / NA | mg/kg | <0.1 | U | <0.12 | U | <0.11 | U | <0.11 | U | <0.12 |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 60.1 | | 82.2 | | 269 | | 254 | | 334 |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04230-008 | | 01-04230-007 | | 01-04230-010 | | 01-04230-006 | | 01-04230- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-28 | | SB-28 | | SB-28 | | SB-28 | | SB-28 |
| | Depth: | Objectives / | | 10' - 11' | | 27' - 28' | | 50' - 52' | | 68' - 75' | | 75' - 77 |
| | Laboratory ID: | Eastern USA | | | | | | | | | | |
| | Sampling Date: | Background | | 5/24/2001 | | 5/24/2001 | | 5/24/2001 | | 5/21/2001 | | 5/24/200 |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil |
| | Validated: | | | No | | No | | No | | No | | No |
| Cas #: | Analyte: | | Units: | | | | | | | | | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 1.1 | | <0.35 | U | 0.79 | | 0.74 | | 0.85 |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 8.4 | | 16.1 | | 60.3 | | 11.8 | | 20.4 |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | 19.3 | | **33.3** | | **63.8** | | 17.4 | | **37.9** |
| 57-12-5 | Cyanide | | mg/kg | <0.03 | U | <0.03 | U | <0.03 | U | <0.03 | U | <0.03 |
| | % Solids | | % | 96.7 | | 83.4 | | 82.4 | | 82.6 | | 79.6 |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | | | | | | | | | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 013 | 01-04388-004 | | 01-04388-007 | | 01-04388-008 | | 01-04388-009 | | 01-04388-010 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | | SB-29 | | SB-29 | | SB-29 | | SB-29 | | SB-29 | |
| | Depth: | Objectives / | | ' | 3' - 4' | | 28' - 30' | | 38' - 40' | | 56' - 58' | | 68' - 72' | |
| | Laboratory ID: | Eastern USA | | | K9286-4 | | K9286-5 | | K9286-6 | | K9286-7 | | K9286-8 | |
| | Sampling Date: | Background | | )1 | 06/26/2001 | | 06/26/2001 | | 06/26/2001 | | 06/26/2001 | | 06/26/2001 | |
| | Matrix: | Concentrations | | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | U | 8.16 | U | 8.21 | U | 8.03 | U | 8.17 | U | 8.19 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | U | 9.94 | U | 10 | U | 9.78 | U | 9.95 | U | 9.98 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | U | 7.09 | U | 7.14 | U | 6.98 | U | 7.1 | U | 7.12 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | U | 8.87 | U | 8.93 | U | 8.73 | U | 8.88 | U | 8.9 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | U | 11.1 | U | 11.1 | U | 10.9 | U | 11.1 | U | 11.1 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | U | 6.63 | U | 6.67 | U | 6.52 | U | 6.63 | U | 6.65 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | U | 6.67 | U | 6.72 | U | 6.57 | U | 6.68 | U | 6.7 | U |
| | **Volatiles** | | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | U | 0.42 | U | 0.44 | U | 0.44 | U | 0.44 | U | 0.44 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | U | 0.2 | U | 0.21 | U | 0.21 | U | 0.21 | U | 0.21 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | U | 0.24 | U | 0.25 | U | 0.24 | U | 0.25 | U | 0.25 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | U | 0.39 | U | 0.41 | U | 0.4 | U | 0.41 | U | 0.41 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | JB | 5.1 | B | 10.5 | B | 9.2 | B | 8.4 | B | 7.3 | B |
| 67-64-1 | Acetone | 200 | µg/kg | JB | 5.9 | U | 6.15 | U | 6.05 | U | 44.8 | | 6.15 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | U | 0.24 | U | 0.25 | U | 0.24 | U | 0.25 | U | 1.5 | |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | U | 0.38 | U | 0.39 | U | 0.39 | U | 0.39 | U | 0.39 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | U | 0.18 | U | 0.18 | U | 0.18 | U | 0.18 | U | 0.18 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | U | 0.18 | U | 0.18 | U | 0.18 | U | 0.18 | U | 0.18 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | U | 0.2 | U | 0.21 | U | 0.21 | U | 0.21 | U | 0.21 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | U | 0.19 | U | 0.2 | U | 0.19 | U | 0.2 | U | 0.2 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | U | 0.26 | U | 0.27 | U | 0.27 | U | 0.27 | U | 0.27 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | U | 4.81 | U | 5.02 | U | 4.94 | U | 5.02 | U | 5.02 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | U | 0.17 | U | 0.17 | U | 0.17 | U | 0.17 | U | 0.17 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.26 | U | 0.26 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | U | 0.21 | U | 0.22 | U | 0.22 | U | 0.22 | U | 0.22 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | U | 0.17 | U | 0.17 | U | 0.17 | U | 0.17 | U | 0.17 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | U | 0.21 | U | 0.22 | U | 0.22 | U | 0.22 | U | 0.22 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | U | 0.79 | | 0.25 | U | 0.24 | U | 0.25 | U | 0.25 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | U | 0.28 | U | 0.3 | U | 0.29 | U | 0.3 | U | 0.3 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | U | 0.22 | U | 0.23 | U | 0.23 | U | 0.23 | U | 0.23 | U |
| 71-43-2 | Benzene | 60 | µg/kg | U | 0.17 | U | 0.17 | U | 0.17 | U | 0.17 | U | 0.17 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | U | 0.26 | U | 0.27 | U | 0.27 | U | 0.27 | U | 0.27 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | U | 0.28 | U | 0.3 | U | 0.29 | U | 0.3 | U | 0.3 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | U | 5.9 | U | 6.15 | U | 6.05 | U | 6.15 | U | 6.15 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | U | 5.9 | U | 6.15 | U | 6.05 | U | 6.15 | U | 6.15 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | U | 0.21 | U | 0.22 | U | 0.22 | U | 0.22 | U | 0.22 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | U | 1.1 | | 0.25 | U | 0.24 | U | 5.5 | | 1.9 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | U | 0.24 | U | 0.25 | U | 0.24 | U | 0.25 | U | 0.25 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | U | 0.15 | U | 0.16 | U | 0.16 | U | 0.16 | U | 0.16 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | U | 0.13 | U | 0.14 | U | 0.13 | U | 0.14 | U | 0.14 | U |
| 100-42-5 | Styrene | NA * | µg/kg | U | 0.21 | U | 0.22 | U | 0.22 | U | 0.22 | U | 0.22 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | U | 0.94 | | 0.31 | U | 0.3 | U | 0.93 | | 0.31 | U |
| 95-47-6 | o-xylene | 1200 | µg/kg | U | 0.21 | U | 0.22 | U | 0.22 | U | 0.22 | U | 8.1 | |
| | | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | | **2.04** | | **0** | | **0** | | **6.43** | | **10** | |
| | **Semi-Volatiles** | | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | | 70 | U | 73.6 | U | 72 | U | 73.2 | U | 73.4 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | U | 90.7 | U | 95.3 | U | 93.2 | U | 94.8 | U | 95.1 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | U | 85.2 | U | 89.5 | U | 87.6 | U | 89.1 | U | 89.3 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | U | 93 | U | 97.7 | U | 95.5 | U | 97.2 | U | 97.4 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | U | 88.4 | U | 92.8 | U | 90.8 | U | 92.4 | U | 92.6 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | U | 99.6 | U | 105 | U | 102 | U | 104 | U | 104 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | U | 89.3 | U | 93.8 | U | 91.8 | U | 93.4 | U | 93.6 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | U | 94.2 | U | 99 | U | 96.9 | U | 98.5 | U | 98.8 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | U | 89.4 | U | 94 | U | 91.9 | U | 93.5 | U | 93.7 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | U | 82.4 | U | 86.5 | U | 84.7 | U | 86.1 | U | 86.3 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | U | 79.2 | U | 83.2 | U | 81.4 | U | 82.8 | U | 83 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | U | 98.5 | U | 103 | U | 101 | U | 103 | U | 103 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | U | 80.3 | U | 84.3 | U | 82.5 | U | 83.9 | U | 84.1 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | U | 74.7 | U | 78.5 | U | 76.8 | U | 78.1 | U | 78.3 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | U | 69.9 | U | 73.5 | U | 71.9 | U | 73.1 | U | 73.3 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | U | 91.8 | U | 96.4 | U | 94.3 | U | 95.9 | U | 96.2 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | U | 82.6 | U | 86.8 | U | 84.9 | U | 86.4 | U | 86.6 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | U | 101 | U | 106 | U | 103 | U | 105 | U | 106 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | U | 49.9 | U | 52.5 | U | 51.3 | U | 52.2 | U | 52.3 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | U | 94.2 | U | 99 | U | 96.9 | U | 98.5 | U | 98.8 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | J | 96.9 | U | 102 | U | 99.6 | U | 101 | U | 102 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | U | 41.7 | U | 43.8 | U | 42.9 | U | 43.6 | U | 43.7 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | U | 83 | U | 87.2 | U | 85.3 | U | 86.7 | U | 86.9 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 013 | 01-04388-004 | | 01-04388-007 | | 01-04388-008 | | 01-04388-009 | | 01-04388-010 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | | SB-29 | | SB-29 | | SB-29 | | SB-29 | | SB-29 | |
| | Depth: | Objectives / | | ' | 3' - 4' | | 28' - 30' | | 38' - 40' | | 56' - 58' | | 68' - 72' | |
| | Laboratory ID: | Eastern USA | | | K9286-4 | | K9286-5 | | K9286-6 | | K9286-7 | | K9286-8 | |
| | Sampling Date: | Background | | )1 | 06/26/2001 | | 06/26/2001 | | 06/26/2001 | | 06/26/2001 | | 06/26/2001 | |
| | Matrix: | Concentrations | | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | | |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | U | 73.9 | U | 77.7 | U | 76 | U | 77.3 | U | 77.5 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | U | 96.4 | U | 101 | U | 99 | U | 101 | U | 101 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | U | 72.4 | U | 76.1 | U | 74.4 | U | 75.7 | U | 75.9 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | U | 96.2 | U | 101 | U | 98.9 | U | 101 | U | 101 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | U | 71.4 | U | 75.1 | U | 73.4 | U | 74.7 | U | 74.9 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | U | 46.1 | U | 48.4 | U | 47.3 | U | 48.2 | U | 48.3 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | U | 68.3 | U | 71.7 | U | 70.2 | U | 71.4 | U | 71.6 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | U | 153 | U | 161 | U | 158 | U | 160 | U | 161 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | U | 99.1 | U | 104 | U | 102 | U | 104 | U | 104 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | U | 65.3 | U | 68.6 | U | 67.1 | U | 68.3 | U | 68.5 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | U | 63.2 | U | 66.4 | U | 65 | U | 66.1 | U | 66.3 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | U | 114 | U | 120 | U | 117 | U | 119 | U | 119 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | U | 53.1 | U | 55.8 | U | 54.6 | U | 55.5 | U | 55.7 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | U | 89.7 | U | 94.2 | U | 92.1 | U | 93.7 | U | 94 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | U | 94.4 | U | 99.1 | U | 97 | U | 98.6 | U | 98.9 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | U | 86 | U | 90.4 | U | 88.4 | U | 89.9 | U | 90.1 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | U | 84.4 | U | 88.6 | U | 86.7 | U | 88.2 | U | 88.4 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | U | 57.3 | U | 60.2 | U | 58.9 | U | 60 | U | 60.1 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | U | NA | | NA | | NA | | NA | | NA | |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | J | 43.5 | JB | 38.3 | JB | 41.1 | JB | 43 | JB | 55.4 | JB |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | U | 56.2 | U | 59 | U | 57.7 | U | 58.7 | U | 58.9 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | U | 97.3 | U | 102 | U | 100 | U | 102 | U | 102 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | J | 181 | JB | 76.5 | JB | 112 | JB | 103 | JB | 156 | JB |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | U | 72.4 | U | 76.1 | U | 74.4 | U | 75.7 | U | 75.9 | U |
| | | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | U | 102 | U | 107 | U | 104 | U | 106 | U | 39.4 | J |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | U | 94.5 | U | 99.3 | U | 97.1 | U | 98.8 | U | 64 | J |
| 120-12-7 | Anthracene | 50000* | µg/kg | U | 84.4 | U | 88.6 | U | 86.7 | U | 88.2 | U | 88.4 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | U | 62.3 | U | 65.4 | U | 64 | U | 65.1 | U | 65.3 | U |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | U | 74.6 | U | 78.4 | U | 29 | J | 29.5 | J | 78.2 | U |
| 86-73-7 | Fluorene | 50000* | µg/kg | U | 103 | U | 108 | U | 106 | U | 108 | U | 108 | U |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | U | 82.8 | U | 87 | U | 85.1 | U | 31.9 | J | 86.8 | U |
| 91-20-3 | Naphthalene | 13000 | µg/kg | U | 97.3 | U | 102 | U | 100 | U | 115 | | 111 | |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | U | 37.6 | J | 86.9 | U | 85 | U | 62.7 | J | 69 | J |
| 129-00-0 | Pyrene | 50000* | µg/kg | U | 61.8 | U | 64.9 | U | 35 | J | 34.4 | J | 64.8 | U |
| | | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | | 37.6 | | 0 | | 64 | | 273.5 | | 283.4 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | U | 59 | U | 62 | U | 60.6 | U | 61.7 | U | 61.8 | U |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | U | 96.5 | U | 101 | U | 99.2 | U | 101 | U | 101 | U |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | U | 78.3 | U | 82.2 | U | 80.4 | U | 81.8 | U | 82 | U |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | U | 63.9 | U | 67.2 | U | 65.7 | U | 66.8 | U | 67 | U |
| 218-01-9 | Chrysene | 400 | µg/kg | U | 58.8 | U | 61.7 | U | 60.4 | U | 61.4 | U | 61.6 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | U | 74.7 | U | 78.5 | U | 76.8 | U | 78.1 | U | 78.3 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | U | 70.3 | U | 73.8 | U | 72.2 | U | 73.5 | U | 73.6 | U |
| | | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | | 0 | | 0 | | 0 | | 0 | | 0 | |
| | **Total PAHs** | | | | **37.6** | | **0** | | **64** | | **273.5** | | **283.4** | |
| | **Metals** | | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | | 5260 | | 5740 | | 3990 | | 2400 | | 6230 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | U | 0.21 | U | 0.41 | | 0.22 | U | 0.2 | J | 0.062 | J |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | | 0.28 | U | 0.3 | U | 0.29 | U | 0.29 | U | 0.3 | U |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | | 45.7 | | 48.8 | | 38.9 | | 22.3 | | 75.3 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | U | 0.071 | U | 0.074 | U | 0.072 | U | 0.074 | U | 0.074 | U |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | U | 0.071 | U | 0.074 | U | 0.072 | U | 0.074 | U | 0.074 | U |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | | 826 | | 8.14 | U | 7.97 | U | 8.1 | U | 8.13 | U |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | | 7.17 | | **10.5** | | 7.88 | | 4.99 | | **14.1** | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | | 4.48 | | 6.22 | | 4.6 | | 3.16 | | 6.92 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | | 8.45 | | 8.57 | | 8.85 | | 6.19 | | 12.9 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | | **7960** | | **8830** | | **7470** | | **4430** | | **12400** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | | 31 | | 1.33 | | 1.5 | | 0.91 | | 2.14 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | | 2110 | | **13400** | | **13100** | | **9430** | | **9940** | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | | 262 | | 106 | | 90.8 | | 60 | | 176 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | U | **0.12** | | 0.0026 | J | 0.0032 | J | 0.003 | J | 0.0087 | J |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | | 8.28 | | 8.79 | | 6.79 | | 4.91 | | 11.9 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | | 782 | | 2610 | | 1810 | | 954 | | 3640 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | U | 0.28 | U | 0.29 | U | 0.28 | U | 0.29 | U | 0.29 | U |
| 7440-22-4 | Silver | SB / NA | mg/kg | U | 0.088 | U | 0.093 | U | 0.091 | U | 0.092 | U | 0.092 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | | 54.8 | | 62.1 | | 58.6 | | 109 | | 309 | |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 013 | 01-04388-004 | | 01-04388-007 | | 01-04388-008 | | 01-04388-009 | | 01-04388-010 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | | SB-29 | | SB-29 | | SB-29 | | SB-29 | | SB-29 | |
| | Depth: | Objectives / | | ' | 3' - 4' | | 28' - 30' | | 38' - 40' | | 56' - 58' | | 68' - 72' | |
| | Laboratory ID: | Eastern USA | | | K9286-4 | | K9286-5 | | K9286-6 | | K9286-7 | | K9286-8 | |
| | Sampling Date: | Background | | )1 | 06/26/2001 | | 06/26/2001 | | 06/26/2001 | | 06/26/2001 | | 06/26/2001 | |
| | Matrix: | Concentrations | | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | | 0.23 | U | 0.24 | U | 0.24 | U | 0.24 | U | 0.24 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | | 9.14 | | 12 | | 8.41 | | 3.34 | | 17.2 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | | **22.8** | | **34** | | 19.7 | | 11.9 | | **34.2** | |
| 57-12-5 | Cyanide | | mg/kg | U | 0.29 | U | 0.28 | U | 0.26 | U | 0.26 | U | 0.28 | U |
| | % Solids | | % | | 85.1 | | 81 | | 82.8 | | 81.4 | | 81.2 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | | | | | | | | | | | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 013 | 01-04388-004 | | 01-04388-007 | | 01-04388-008 | | 01-04388-009 | | 01-04388-010 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | | SB-29 | | SB-29 | | SB-29 | | SB-29 | | SB-29 | |
| | Depth: | Objectives / | | ' | 3' - 4' | | 28' - 30' | | 38' - 40' | | 56' - 58' | | 68' - 72' | |
| | Laboratory ID: | Eastern USA | | | K9286-4 | | K9286-5 | | K9286-6 | | K9286-7 | | K9286-8 | |
| | Sampling Date: | Background | | )1 | 06/26/2001 | | 06/26/2001 | | 06/26/2001 | | 06/26/2001 | | 06/26/2001 | |
| | Matrix: | Concentrations | | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | | µg/kg | | 0.5 | U | 0.52 | U | 0.51 | U | 0.52 | U | 0.52 | U |
| 75-45-6 | Chlorodifluoromethane | | µg/kg | | 0.38 | U | 0.39 | U | 0.39 | U | 0.39 | U | 0.39 | U |
| 75-69-4 | Trichlorofluoromethane | | µg/kg | | 0.31 | U | 0.32 | U | 0.31 | U | 0.32 | U | 0.32 | U |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | | µg/kg | | 0.29 | U | 0.31 | U | 0.3 | U | 0.31 | U | 0.31 | U |
| 1634-04-4 | Methyl t-butyl ether | | µg/kg | | 0.42 | U | 0.44 | U | 0.44 | U | 0.44 | U | 0.44 | U |
| 590-20-7 | 2,2-Dichloropropane | | µg/kg | | 0.28 | U | 0.3 | U | 0.29 | U | 0.3 | U | 0.3 | U |
| 74-97-5 | Bromochloromethane | | µg/kg | | 0.2 | U | 0.21 | U | 0.21 | U | 0.21 | U | 0.21 | U |
| 563-58-6 | 1,1-Dichloropropene | | µg/kg | | 0.52 | U | 0.54 | U | 0.53 | U | 0.54 | U | 0.54 | U |
| 74-95-3 | Dibromomethane | | µg/kg | | 0.37 | U | 0.38 | U | 0.38 | U | 0.38 | U | 0.38 | U |
| 110-75-8 | 2-Chloroethylvinylether | | µg/kg | | 0.37 | U | 0.38 | U | 0.38 | U | 0.38 | U | 0.38 | U |
| 142-28-9 | 1,3-Dichloropropane | | µg/kg | | 0.45 | U | 0.47 | U | 0.46 | U | 0.47 | U | 0.47 | U |
| 106-93-4 | 1,2-Dibromoethane | | µg/kg | | 0.28 | U | 0.3 | U | 0.29 | U | 0.3 | U | 0.3 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | | µg/kg | | 0.2 | U | 0.21 | U | 0.21 | U | 0.21 | U | 0.21 | U |
| 98-82-8 | Isopropylbenzene | | µg/kg | | 0.12 | U | 0.12 | U | 0.12 | U | 0.12 | U | 0.12 | U |
| 108-86-1 | Bromobenzene | | µg/kg | | 0.2 | U | 0.21 | U | 0.21 | U | 0.21 | U | 0.21 | U |
| 103-65-1 | n-Propylbenzene | | µg/kg | | 0.17 | U | 0.17 | U | 0.17 | U | 0.17 | U | 0.17 | U |
| 96-18-4 | 1,2,3-Trichloropropane | | µg/kg | | 0.6 | U | 0.63 | U | 0.62 | U | 0.63 | U | 0.63 | U |
| 622-96-8 | p-Ethyltoluene | | µg/kg | | 0.2 | U | 0.21 | U | 0.81 | | 0.21 | U | 0.21 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | | µg/kg | | 0.12 | U | 0.12 | U | 0.12 | U | 0.12 | U | 0.12 | U |
| 95-49-8 | 2-Chlorotoluene | | µg/kg | | 0.094 | U | 0.098 | U | 0.097 | U | 0.098 | U | 0.098 | U |
| 106-43-4 | 4-Chlorotoluene | | µg/kg | | 0.17 | U | 0.17 | U | 0.17 | U | 0.17 | U | 0.17 | U |
| 98-06-6 | tert-Butylbenzene | | µg/kg | | 0.18 | U | 0.18 | U | 0.18 | U | 0.18 | U | 0.18 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | | µg/kg | | 0.9 | | 0.25 | U | 0.74 | | 0.25 | U | 0.25 | U |
| 135-98-8 | sec-Butylbenzene | | µg/kg | | 0.14 | U | 0.15 | U | 0.15 | U | 0.15 | U | 0.15 | U |
| 99-87-6 | 4-Isopropyltoluene | | µg/kg | | 0.21 | U | 0.22 | U | 0.22 | U | 2.6 | | 0.22 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | µg/kg | | 0.21 | U | 0.22 | U | 0.22 | U | 0.22 | U | 0.22 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | µg/kg | | 0.26 | U | 0.27 | U | 0.27 | U | 0.27 | U | 0.27 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | µg/kg | | 0.15 | U | 0.16 | U | 0.16 | U | 0.16 | U | 0.16 | U |
| 105-05-5 | p-Diethylbenzene | | µg/kg | | 0.19 | U | 0.2 | U | 0.19 | U | 0.2 | U | 0.2 | U |
| 104-51-8 | n-Butylbenzene | | µg/kg | | 0.17 | U | 0.17 | U | 0.17 | U | 0.17 | U | 0.17 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | | µg/kg | | 0.29 | U | 0.31 | U | 0.3 | U | 0.31 | U | 0.73 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | µg/kg | | 0.79 | U | 0.82 | U | 0.81 | U | 0.82 | U | 0.82 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | µg/kg | | 0.45 | U | 0.47 | U | 0.46 | U | 0.47 | U | 0.47 | U |
| 87-68-3 | Hexachlorobutadiene | | µg/kg | | 0.17 | U | 0.17 | U | 0.17 | U | 0.17 | U | 0.17 | U |
| 91-20-3 | Naphthalene | | µg/kg | | 2.6 | | 0.89 | U | 0.87 | U | 0.89 | U | 0.89 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | | µg/kg | | 0.44 | U | 0.46 | U | 0.45 | U | 0.46 | U | 0.46 | U |
| 100-51-6 | Benzyl alcohol | | µg/kg | | 89 | U | 93.5 | U | 91.4 | U | 93 | U | 93.2 | U |
| 65-85-0 | Benzoic acid | | µg/kg | | 59.2 | U | 62.2 | U | 60.9 | U | 61.9 | U | 62.1 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04362-012 | | 01-04362-013 | | 01-04362-014 | | 01-04362-017 | | 01-04270-009 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-30 | | SB-30 | | SB-30 | | SB-30 | | SB-31 | |
| | Depth: | Objectives / | | 14' - 16' | | 20' - 22' | | 26' - 28' | | 68' - 72' | | 4' - 5' | |
| | Laboratory ID: | Eastern USA | | K9266-3 | | K9266-4 | | K9266-5 | | K9266-6 | | K9229-9 | |
| | Sampling Date: | Background | | 06/20/2001 | | 06/20/2001 | | 06/20/2001 | | 06/20/2001 | | 05/31/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 6.79 | U | 6.82 | U | 7.23 | U | 7.45 | U | 7.61 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 8.27 | U | 8.31 | U | 8.8 | U | 9.07 | U | 9.27 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 5.9 | U | 5.93 | U | 6.28 | U | 6.47 | U | 6.61 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 7.38 | U | 7.42 | U | 7.86 | U | 8.1 | U | 8.27 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 9.2 | U | 9.25 | U | 9.8 | U | 10.1 | U | 10.3 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 5.51 | U | 5.54 | U | 5.87 | U | 6.05 | U | 6.18 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 5.55 | U | 5.58 | U | 5.91 | U | 6.09 | U | 6.22 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.37 | U | 0.37 | U | 0.39 | U | 0.4 | U | 486 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.17 | U | 0.18 | U | 0.19 | U | 0.19 | U | 372 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.2 | U | 0.21 | U | 0.22 | U | 0.22 | U | 486 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.34 | U | 0.34 | U | 0.36 | U | 0.37 | U | 383 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 3.6 | B | 8.9 | B | 8.1 | B | 7.5 | B | 212 | U |
| 67-64-1 | Acetone | 200 | µg/kg | 5.1 | U | 5.15 | U | 5.45 | U | 52 | | 1320 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 0.2 | U | 0.21 | U | 0.22 | U | 0.22 | U | 189 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 0.33 | U | 0.33 | U | 0.35 | U | 0.36 | U | 126 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.15 | U | 0.15 | U | 0.16 | U | 0.17 | U | 143 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.15 | U | 0.15 | U | 0.16 | U | 0.17 | U | 160 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.17 | U | 0.18 | U | 0.19 | U | 0.19 | U | 103 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.16 | U | 0.16 | U | 0.17 | U | 0.18 | U | 126 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.22 | U | 0.23 | U | 0.24 | U | 0.25 | U | 91.5 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 4.16 | U | 4.2 | U | 4.45 | U | 4.57 | U | 9840 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.14 | U | 0.14 | U | 0.15 | U | 0.16 | U | 80.1 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.21 | U | 0.22 | U | 0.23 | U | 0.24 | U | 57.2 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.18 | U | 0.19 | U | 0.2 | U | 0.2 | U | 91.5 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.14 | U | 0.14 | U | 0.15 | U | 0.16 | U | 80.1 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.18 | U | 0.19 | U | 0.2 | U | 0.2 | U | 126 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 0.2 | U | 0.21 | U | 0.22 | U | 0.22 | U | 97.2 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.24 | U | 0.25 | U | 0.26 | U | 0.27 | U | 97.2 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.19 | U | 0.2 | U | 0.21 | U | 0.21 | U | 109 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 0.14 | U | 0.14 | U | 0.15 | U | 0.16 | U | **538** | |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.22 | U | 0.23 | U | 0.24 | U | 0.25 | U | 80.1 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.24 | U | 0.25 | U | 0.26 | U | 0.27 | U | 154 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 5.1 | U | 5.15 | U | 5.45 | U | 5.6 | U | 5150 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 5.1 | U | 5.15 | U | 5.45 | U | 5.6 | U | 2860 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.18 | U | 0.19 | U | 0.2 | U | 0.2 | U | 68.6 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 0.2 | U | 0.21 | U | 0.22 | U | 0.22 | U | 360 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.2 | U | 0.21 | U | 0.22 | U | 0.22 | U | 85.8 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 0.13 | U | 0.13 | U | 0.14 | U | 0.15 | U | 109 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 0.11 | U | 0.92 | | 0.12 | U | 0.12 | U | 3610 | |
| 100-42-5 | Styrene | NA * | µg/kg | 0.18 | U | 0.19 | U | 0.2 | U | 0.2 | U | 74.4 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 0.25 | U | 1.9 | | 0.82 | | 0.58 | | **7110** | |
| 95-47-6 | o-xylene | 1200 | µg/kg | 0.18 | U | 1.5 | | 0.2 | U | 0.2 | U | **3450** | |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **0** | | **4.32** | | **0.82** | | **0.58** | | **15068** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 60.8 | U | 61.1 | U | 64.8 | U | 66.7 | U | 227 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 78.8 | U | 79.2 | U | 83.9 | U | 86.4 | U | 294 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 74 | U | 74.4 | U | 78.8 | U | 81.2 | U | 277 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 80.7 | U | 81.1 | U | 86 | U | 88.6 | U | 302 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 76.7 | U | 77.1 | U | 81.7 | U | 84.2 | U | 287 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 86.5 | U | 87 | U | 92.2 | U | 95 | U | 323 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 77.6 | U | 77.9 | U | 82.6 | U | 85.1 | U | 290 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 81.8 | U | 82.3 | U | 87.2 | U | 89.8 | U | 306 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 77.7 | U | 78 | U | 82.7 | U | 85.2 | U | 290 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 71.5 | U | 71.9 | U | 76.2 | U | 78.5 | U | 267 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 68.8 | U | 69.1 | U | 73.3 | U | 75.5 | U | 257 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 85.5 | U | 85.9 | U | 91.1 | U | 93.8 | U | 320 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 69.7 | U | 70 | U | 74.2 | U | 76.5 | U | 260 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 64.9 | U | 65.2 | U | 69.1 | U | 71.2 | U | 243 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 60.7 | U | 61 | U | 64.7 | U | 66.6 | U | 227 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 79.7 | U | 80.1 | U | 84.9 | U | 87.5 | U | 298 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 71.7 | U | 72.1 | U | 76.4 | U | 78.7 | U | 268 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 87.4 | U | 87.9 | U | 93.2 | U | 96 | U | 327 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 43.4 | U | 43.6 | U | 46.2 | U | 47.6 | U | 162 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 81.8 | U | 82.3 | U | 87.2 | U | 89.8 | U | 306 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 84.2 | U | 84.6 | U | 89.7 | U | 92.4 | U | 315 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 36.2 | U | 36.4 | U | 38.6 | U | 39.8 | U | 135 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 72 | U | 72.4 | U | 76.7 | U | 79.1 | U | 269 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04362-012 | | 01-04362-013 | | 01-04362-014 | | 01-04362-017 | | 01-04270-009 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-30 | | SB-30 | | SB-30 | | SB-30 | | SB-31 | |
| | Depth: | Objectives / | | 14' - 16' | | 20' - 22' | | 26' - 28' | | 68' - 72' | | 4' - 5' | |
| | Laboratory ID: | Eastern USA | | K9266-3 | | K9266-4 | | K9266-5 | | K9266-6 | | K9229-9 | |
| | Sampling Date: | Background | | 06/20/2001 | | 06/20/2001 | | 06/20/2001 | | 06/20/2001 | | 05/31/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 64.2 | U | 64.5 | U | 68.4 | U | 70.4 | U | 240 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 83.7 | U | 84.1 | U | 89.1 | U | 91.8 | U | 313 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 62.9 | U | 63.2 | U | 67 | U | 69 | U | 235 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 83.6 | U | 84 | U | 89 | U | 91.7 | U | 312 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 62 | U | 62.4 | U | 66.1 | U | 68.1 | U | 232 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 40 | U | 40.2 | U | 42.6 | U | 43.9 | U | 150 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 59.3 | U | 59.6 | U | 63.2 | U | 65.1 | U | 222 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 133 | U | 134 | U | 142 | U | 146 | U | 498 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 58.2 | J | 86.5 | U | 91.6 | U | 94.4 | U | 721 | |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 56.7 | U | 57 | U | 60.4 | U | 62.3 | U | 212 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 60.2 | | 50.3 | J | 200 | | 60.2 | U | 205 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 98.9 | U | 99.4 | U | 105 | U | 109 | U | 370 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 46.1 | U | 46.4 | U | 49.1 | U | 50.6 | U | 172 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 77.9 | U | 78.3 | U | 82.9 | U | 85.4 | U | 291 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 81.9 | U | 82.4 | U | 87.3 | U | 89.9 | U | 306 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 74.7 | U | 75.1 | U | 79.6 | U | 82 | U | 279 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 73.3 | U | 73.6 | U | 78 | U | 80.4 | U | 274 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 49.8 | U | 50 | U | 53 | U | 54.6 | U | 186 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 58.3 | U | 58.6 | U | 62.1 | U | 63.9 | U | 183 | J |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 220 | U | 28.7 | J | 29.3 | J | 242 | U | 114 | J |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 48.8 | U | 49 | U | 52 | U | 53.5 | U | 210 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 84.5 | U | 84.9 | U | 90 | U | 92.7 | U | 316 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 459 | B | 446 | B | 2200 | B | 166 | JB | 2790 | |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 62.9 | U | 63.2 | U | 67 | U | 69 | U | 324 | |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 881 | | 103 | | 26.1 | J | 96.8 | U | 1460 | |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 162 | | 29.7 | J | 87.4 | U | 90 | U | 2390 | |
| 120-12-7 | Anthracene | 50000* | µg/kg | 541 | | 109 | | 35.9 | J | 80.4 | U | 2700 | |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 128 | | 25.6 | J | 57.6 | U | 59.3 | U | 1270 | |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 789 | | 167 | | 57.6 | J | 71.1 | U | 3260 | |
| 86-73-7 | Fluorene | 50000* | µg/kg | 629 | | 104 | | 44.6 | J | 98.3 | U | 3440 | |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 1320 | | 60.5 | J | 25 | J | 29.1 | J | 12700 | |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 1620 | | 41 | J | 27.2 | J | 63.8 | J | 3620 | |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 2120 | | 425 | | 149 | | 33.6 | J | 8040 | |
| 129-00-0 | Pyrene | 50000* | µg/kg | 1080 | | 230 | | 79.3 | | 58.9 | U | 4640 | |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 9270 | | 1294.8 | | 444.7 | | 126.5 | | 43520 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | **429** | | 88.2 | | 54.6 | U | 56.2 | U | **1950** | |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 154 | | 31.8 | J | 89.2 | U | 91.9 | U | **1710** | |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 193 | | 41 | J | 72.4 | U | 74.6 | U | **1100** | |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **294** | | **63.6** | | 59.1 | U | 60.9 | U | **1950** | |
| 218-01-9 | Chrysene | 400 | µg/kg | 371 | | 83.1 | | 54.3 | U | 56 | U | **2220** | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 101 | | 65.2 | U | 69.1 | U | 71.2 | U | 965 | |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | **52** | J | 61.3 | U | 65 | U | 67 | U | **359** | |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 1594 | | 307.7 | | 0 | | 0 | | 10254 | |
| | **Total PAHs** | | | **10864** | | **1602.5** | | **444.7** | | **126.5** | | **53774** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 2060 | | 1870 | | 3030 | | 5660 | | 4680 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.22 | | 0.14 | J | 0.22 | | 0.65 | | 0.12 | J |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.24 | U | 0.25 | U | 0.26 | U | 0.27 | U | 1.16 | |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 21.7 | | 15.7 | | 27.6 | | 91.4 | | 84.2 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.061 | U | 0.062 | U | 0.065 | U | 0.067 | U | 0.069 | U |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.061 | U | 0.062 | U | 0.065 | U | 0.067 | U | 0.097 | |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 18700 | | 8300 | | 10700 | | 12600 | | 4660 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 3.21 | | 3.06 | | 6.17 | | **17.8** | | 9.35 | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 2.26 | | 2.3 | | 3.79 | | 6.07 | | 4.76 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 5.71 | | 4.81 | | 8.02 | | 13.6 | | 27.7 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **3880** | | **3610** | | **5710** | | **10800** | | **9820** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 1.84 | | 1.55 | | 2.2 | | 1.81 | | 276 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | **11700** | | 4890 | | **7920** | | **8200** | | 3780 | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 78.8 | | 62.6 | | 88.3 | | 151 | | 111 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.0064 | J | 0.0076 | J | 0.006 | J | 0.0037 | J | **0.37** | |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 3.44 | | 3.5 | | 5.74 | | 10.5 | | 8.09 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 926 | | 640 | | 1320 | | 3530 | | 843 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.24 | U | 0.24 | U | 0.26 | U | 0.26 | U | 0.27 | U |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.077 | U | 0.077 | U | 0.082 | U | 0.084 | U | 0.086 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 46.1 | | 52.8 | | 102 | | 109 | | 159 | |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04362-012 | | 01-04362-013 | | 01-04362-014 | | 01-04362-017 | | 01-04270-009 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-30 | | SB-30 | | SB-30 | | SB-30 | | SB-31 | |
| | Depth: | Objectives / | | 14' - 16' | | 20' - 22' | | 26' - 28' | | 68' - 72' | | 4' - 5' | |
| | Laboratory ID: | Eastern USA | | K9266-3 | | K9266-4 | | K9266-5 | | K9266-6 | | K9229-9 | |
| | Sampling Date: | Background | | 06/20/2001 | | 06/20/2001 | | 06/20/2001 | | 06/20/2001 | | 05/31/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.2 | U | 0.2 | U | 0.21 | U | 0.22 | U | 0.22 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 2.34 | | 2.26 | | 5.6 | | 18.8 | | 11.8 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | 10.8 | | 9.59 | | 15.6 | | **27.7** | | **73.7** | |
| 57-12-5 | Cyanide | | mg/kg | 0.24 | U | 0.29 | U | 0.27 | U | 0.25 | U | 0.12 | J |
| | % Solids | | % | 98 | | 97.5 | | 92 | | 89.3 | | 87.4 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | 3.42 | U | NR | | NR | | NR | | | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04270-010 | | 01-04270-011 | | 01-04270-012 | |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-31 | | SB-31 | | SB-31 | |
| | Depth: | Objectives / | | 7' - 8' | | 11' - 12' | | 40' - 42' | |
| | Laboratory ID: | Eastern USA | | K9230-1 | | K9230-2 | | K9230-3 | |
| | Sampling Date: | Background | | 05/31/2001 | | 05/31/2001 | | 05/31/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | |
| | **PCBs** | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 8.01 | U | 8.06 | U | 7.33 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 9.76 | U | 9.82 | U | 8.93 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 6.96 | U | 7.01 | U | 6.37 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 8.71 | U | 8.76 | U | 7.97 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 10.9 | U | 10.9 | U | 9.94 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 6.51 | U | 6.55 | U | 5.95 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 6.55 | U | 6.59 | U | 6 | U |
| | **Volatiles** | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 128 | U | 129 | U | 0.33 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 98.2 | U | 98.8 | U | 0.29 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 128 | U | 129 | U | 0.33 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 101 | U | 102 | U | 0.33 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 55.9 | U | 56.2 | U | 45.3 | B |
| 67-64-1 | Acetone | 200 | µg/kg | 347 | U | 350 | U | 42.7 | |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 49.8 | U | 50.2 | U | 0.21 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 33.2 | U | 33.4 | U | 0.91 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 37.8 | U | 38 | U | 0.26 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 42.3 | U | 42.6 | U | 0.31 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 27.2 | U | 27.4 | U | 0.22 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 33.2 | U | 33.4 | U | 0.19 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 24.2 | U | 24.3 | U | 0.13 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 2600 | U | 2610 | U | 5.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 21.1 | U | 21.3 | U | 0.66 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 15.1 | U | 15.2 | U | 0.26 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 24.2 | U | 24.3 | U | 0.15 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 21.1 | U | 21.3 | U | 0.29 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 33.2 | U | 33.4 | U | 0.3 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 25.7 | U | 25.8 | U | 0.23 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 25.7 | U | 25.8 | U | 0.97 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 28.7 | U | 28.9 | U | 0.33 | U |
| 71-43-2 | Benzene | 60 | µg/kg | **1110** | | **197** | | 0.18 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 21.1 | U | 21.3 | U | 0.3 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 40.8 | U | 41 | U | 0.32 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 1360 | U | 1370 | U | 5.5 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 755 | U | 760 | U | 5.5 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 18.1 | U | 18.2 | U | 0.11 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 390 | | 21.3 | U | 0.17 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 22.6 | U | 22.8 | U | 0.44 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 28.7 | U | 28.9 | U | 0.2 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | **16100** | | **17500** | | 0.9 | |
| 100-42-5 | Styrene | NA * | µg/kg | 19.6 | U | 19.8 | U | 0.11 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | **7960** | | **6390** | | 1.2 | |
| 95-47-6 | o-xylene | 1200 | µg/kg | **1920** | | **1910** | | 0.17 | U |
| | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **27480** | | **25997** | | **2.1** | |
| | **Semi-Volatiles** | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 479 | U | 482 | U | 21.9 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 620 | U | 624 | U | 28.4 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 582 | U | 586 | U | 26.6 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 635 | U | 639 | U | 29.1 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 604 | U | 608 | U | 27.6 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 681 | U | 259 | J | 31.2 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 610 | U | 614 | U | 27.9 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 644 | U | 648 | U | 29.5 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 611 | U | 615 | U | 28 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 563 | U | 566 | U | 25.8 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 541 | U | 545 | U | 24.8 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 673 | U | 677 | U | 30.8 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 549 | U | 552 | U | 25.1 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 511 | U | 514 | U | 23.4 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 478 | U | 481 | U | 21.9 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 627 | U | 631 | U | 28.7 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 565 | U | 568 | U | 25.8 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 688 | U | 693 | U | 31.5 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 341 | U | 343 | U | 15.6 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 644 | U | 648 | U | 29.5 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 663 | U | 667 | U | 30.3 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 285 | U | 287 | U | 13 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 567 | U | 571 | U | 25.9 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04270-010 | | 01-04270-011 | | 01-04270-012 | |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-31 | | SB-31 | | SB-31 | |
| | Depth: | Objectives / | | 7' - 8' | | 11' - 12' | | 40' - 42' | |
| | Laboratory ID: | Eastern USA | | K9230-1 | | K9230-2 | | K9230-3 | |
| | Sampling Date: | Background | | 05/31/2001 | | 05/31/2001 | | 05/31/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 505 | U | 508 | U | 23.1 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 659 | U | 663 | U | 30.1 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 495 | U | 498 | U | 22.6 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 658 | U | 662 | U | 30.1 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 488 | U | 491 | U | 22.3 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 315 | U | 317 | U | 14.4 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 467 | U | 470 | U | 21.4 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 1050 | U | 1050 | U | 48 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 677 | U | 681 | U | 31 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 447 | U | 449 | U | 20.4 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 432 | U | 435 | U | 19.8 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 778 | U | 783 | U | 35.6 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 363 | U | 365 | U | 16.6 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 613 | U | 617 | U | 28 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 645 | U | 649 | U | 29.5 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 588 | U | 592 | U | 26.9 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 577 | U | 580 | U | 26.4 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 392 | U | 394 | U | 17.9 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 459 | U | 461 | U | 21 | U |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 1730 | U | 1750 | U | 36.4 | J |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 384 | U | 386 | U | 17.6 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 665 | U | 669 | U | 30.4 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 5050 | | 2960 | | 313 | |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 570 | | 380 | J | 22.6 | U |
| | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 4630 | | 3790 | | 31.8 | U |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 1350 | | 1070 | | 7.4 | J |
| 120-12-7 | Anthracene | 50000* | µg/kg | 2550 | | 2410 | | 26.4 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 964 | | 743 | | 19.5 | U |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 4080 | | 3890 | | 23.3 | U |
| 86-73-7 | Fluorene | 50000* | µg/kg | 6010 | | 4620 | | 32.3 | U |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 31100 | | 34700 | | 9.6 | J |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 6660 | | **14400** | | 9.9 | J |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 12600 | | 10600 | | 12.1 | J |
| 129-00-0 | Pyrene | 50000* | µg/kg | 5100 | | 4660 | | 19.3 | U |
| | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 75044 | | 80883 | | 39 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | **2040** | | **1820** | | 18.4 | U |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | **1410** | | **1180** | | 30.2 | U |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | **1010** | | 840 | | 24.5 | U |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **1580** | | **1370** | | 9.9 | J |
| 218-01-9 | Chrysene | 400 | µg/kg | **2160** | | **1890** | | 18.4 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 835 | | 663 | | 23.4 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | **321** | J | **299** | J | 22 | U |
| | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 9356 | | 8062 | | 9.9 | |
| | **Total PAHs** | | | **84400** | | **88945** | | **48.9** | |
| | **Metals** | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 5680 | | 4650 | | 5400 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.34 | | 0.13 | J | 0.53 | |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 1.17 | | 0.29 | U | 0.26 | U |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 53.4 | | 25.4 | | 113 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.072 | U | 0.073 | U | 0.066 | U |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.2 | | 0.073 | U | 0.066 | U |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 2710 | | 768 | | 7200 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 9.96 | | 6.97 | | **15.5** | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 4.22 | | 3.08 | | 6.81 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 11.8 | | 4.45 | | 22.8 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **9410** | | **6850** | | **10800** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 80 | | 3.39 | | 2.26 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | 2970 | | 1950 | | **6340** | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 127 | | 74.3 | | 131 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | **0.16** | | 0.01 | J | 0.00014 | J |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 8.16 | | 5.25 | | **13.3** | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 900 | | 401 | | 3660 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.28 | U | 0.28 | U | 0.26 | U |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.09 | U | 0.091 | U | 0.083 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 314 | | 306 | | 144 | |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04270-010 | | 01-04270-011 | | 01-04270-012 | |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-31 | | SB-31 | | SB-31 | |
| | Depth: | Objectives / | | 7' - 8' | | 11' - 12' | | 40' - 42' | |
| | Laboratory ID: | Eastern USA | | K9230-1 | | K9230-2 | | K9230-3 | |
| | Sampling Date: | Background | | 05/31/2001 | | 05/31/2001 | | 05/31/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.23 | U | 0.24 | U | 0.21 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 12.4 | | 8.45 | | 24 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **428** | | **21.9** | | **27.1** | |
| 57-12-5 | Cyanide | | mg/kg | 0.078 | J | 0.27 | U | 0.25 | U |
| | % Solids | | % | 83 | | 82.5 | | 90.7 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | | | | | | |
| | | | | | | | | | |
| **Notes** | | | | | | | | | |
| | | | | | | | | | |
| U - Below detection limit | | | | | | | | | |
| J - Estimated value | | | | | | | | | |
| NR - Not run | | | | | | | | | |
| NA - Not available | | | | | | | | | |
| SB - Site background | | | | | | | | | |
| MDL - Method Detection Limit | | | | | | | | | |
| * - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg | | | | | | | | | |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-02657-001 | | 00-02657-002 | | 00-02460-002 | | 00-02460-003 | | 00-02460-004 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | MW-1 | | MW-1 | | MW-2 | | MW-2 | | MW-2 | |
| | Depth: | Objectives / | | 26'-27.5' | | 32'-34' | | 7'-10' | | 24'-25' | | 27'-30' | |
| | Laboratory ID: | Eastern USA | | J4474-1 | | J4474-2 | | J4455-2 | | J4455-3 | | J4455-4 | |
| | Sampling Date: | Background | | 3/21/00 | | 3/21/00 | | 3/15/00 | | 3/15/00 | | 3/15/00 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 3.80 | U | 4.67 | U | 4.54 | U | 4.54 | U | 4.91 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 16.2 | U | 19.9 | U | 19.3 | U | 19.3 | U | 20.9 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 8.56 | U | 10.5 | U | 10.2 | U | 10.2 | U | 11.1 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 3.58 | U | 4.41 | U | 4.28 | U | 4.28 | U | 4.64 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 8.12 | U | 10.0 | U | 9.71 | U | 9.71 | U | 10.5 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 1.89 | U | 2.32 | U | 2.26 | U | 2.26 | U | 2.44 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 5.38 | U | 6.63 | U | 6.43 | U | 6.43 | U | 6.97 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.80 | U | 0.97 | U | 0.40 | U | 0.81 | U | 0.43 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.81 | U | 0.98 | U | 0.46 | U | 0.92 | U | 0.49 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.97 | U | 1.17 | U | 0.40 | U | 0.81 | U | 0.43 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.85 | U | 1.03 | U | 0.22 | U | 0.45 | U | 0.24 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 1.00 | U | 80.4 | | 0.64 | U | 1.28 | U | 0.68 | U |
| 67-64-1 | Acetone | 200 | µg/kg | 2.39 | U | 2.88 | U | 23.3 | | 10.3 | U | 15.7 | |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 0.74 | U | 0.89 | U | 0.32 | U | 0.64 | U | 0.34 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 0.68 | U | 0.82 | U | 0.25 | U | 0.50 | U | 0.26 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.61 | U | 0.73 | U | 0.19 | U | 0.38 | U | 0.20 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.35 | U | 0.42 | U | 0.48 | U | 0.97 | U | 0.51 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.74 | U | 0.89 | U | 0.59 | U | 1.18 | U | 0.63 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.69 | U | 0.83 | U | 0.20 | U | 0.40 | U | 0.21 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.47 | U | 0.57 | U | 0.35 | U | 0.71 | U | 0.38 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 0.96 | U | 1.15 | U | 2.96 | U | 5.95 | U | 3.14 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.73 | U | 0.88 | U | 0.33 | U | 0.66 | U | 0.35 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.77 | U | 0.93 | U | 0.32 | U | 0.64 | U | 0.34 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.68 | U | 0.82 | U | 0.29 | U | 0.59 | U | 0.31 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.66 | U | 0.79 | U | 0.21 | U | 0.43 | U | 0.22 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.65 | U | 0.78 | U | 0.29 | U | 0.59 | U | 0.31 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 0.77 | U | 0.93 | U | 0.35 | U | 0.71 | U | 0.38 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.57 | U | 0.68 | U | 0.34 | U | 0.69 | U | 0.36 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.60 | U | 0.72 | U | 0.55 | U | 1.11 | U | 0.59 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 0.13 | U | 0.16 | U | 0.33 | U | 0.66 | U | 0.35 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.58 | U | 0.69 | U | 0.48 | U | 0.97 | U | 0.51 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.35 | U | 0.42 | U | 0.57 | U | 1.14 | U | 0.60 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 1.77 | U | 2.13 | U | 1.75 | U | 3.51 | U | 1.85 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 1.44 | U | 1.74 | U | 1.83 | U | 3.67 | U | 1.94 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.65 | U | 0.78 | U | 0.33 | U | 0.66 | U | 0.35 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 0.18 | U | 0.21 | U | 15.2 | | 0.78 | U | 0.41 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.61 | U | 0.73 | U | 0.59 | U | 1.18 | U | 0.63 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 0.28 | U | 0.33 | U | 0.34 | U | 0.69 | U | 0.36 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 0.093 | U | 0.11 | U | 0.40 | U | 0.81 | U | 0.43 | U |
| 100-42-5 | Styrene | NA * | µg/kg | 0.74 | U | 0.89 | U | 0.34 | U | 0.69 | U | 0.36 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 0.16 | U | 0.20 | U | 0.74 | U | 1.49 | U | 0.79 | U |
| 95-47-6 | o-xylene | 1200 | µg/kg | 0.12 | U | 0.15 | U | 0.33 | U | 0.66 | U | 0.35 | U |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **0** | | **0** | | **15.2** | | **0** | | **0** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 33.3 | U | 39.7 | U | 21.7 | U | 22.2 | U | 23.5 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 32.1 | U | 38.2 | U | 27.3 | U | 27.9 | U | 29.5 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 32.8 | U | 39.0 | U | 22.4 | U | 22.9 | U | 24.3 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 35.0 | U | 41.7 | U | 27.3 | U | 27.8 | U | 29.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 34.1 | U | 40.5 | U | 27.8 | U | 28.4 | U | 30.1 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 34.4 | U | 40.9 | U | 28.1 | U | 28.7 | U | 30.4 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 28.4 | U | 33.8 | U | 22.4 | U | 22.8 | U | 24.2 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 37.1 | U | 44.1 | U | 16.3 | U | 16.6 | U | 17.6 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 27.5 | U | 32.7 | U | 18.3 | U | 18.7 | U | 19.8 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 33.4 | U | 39.8 | U | 22.8 | U | 23.2 | U | 24.6 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 35.2 | U | 41.9 | U | 28.3 | U | 28.9 | U | 30.6 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 38.6 | U | 45.9 | U | 31.3 | U | 31.9 | U | 33.8 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 35.3 | U | 42.0 | U | 21.1 | U | 21.5 | U | 22.8 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 26.8 | U | 31.9 | U | 24.0 | U | 24.5 | U | 26.0 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 16.2 | U | 19.3 | U | 13.5 | U | 13.8 | U | 14.6 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 32.4 | U | 38.5 | U | 24.7 | U | 25.2 | U | 26.7 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 28.1 | U | 33.4 | U | 23.1 | U | 23.5 | U | 24.9 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 34.0 | U | 40.5 | U | 25.6 | U | 26.1 | U | 27.6 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 35.4 | U | 42.1 | U | 28.3 | U | 28.9 | U | 30.6 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 34.1 | U | 40.5 | U | 25.9 | U | 26.5 | U | 28.0 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 27.4 | U | 32.6 | U | 17.6 | U | 18.0 | U | 19.1 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 28.5 | U | 33.9 | U | 42.2 | U | 43.1 | U | 45.6 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-02657-001 | | 00-02657-002 | | 00-02460-002 | | 00-02460-003 | | 00-02460-004 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | MW-1 | | MW-1 | | MW-2 | | MW-2 | | MW-2 | |
| | Depth: | Objectives / | | 26'-27.5' | | 32'-34' | | 7'-10' | | 24'-25' | | 27'-30' | |
| | Laboratory ID: | Eastern USA | | J4474-1 | | J4474-2 | | J4455-2 | | J4455-3 | | J4455-4 | |
| | Sampling Date: | Background | | 3/21/00 | | 3/21/00 | | 3/15/00 | | 3/15/00 | | 3/15/00 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 27.1 | U | 32.2 | U | 28.3 | U | 28.9 | U | 30.6 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 26.1 | U | 31.1 | U | 26.3 | U | 26.8 | U | 28.4 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 31.2 | U | 37.2 | U | 26.3 | U | 26.8 | U | 28.4 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 24.6 | U | 29.2 | U | 18.4 | U | 18.7 | U | 19.8 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 29.9 | U | 35.6 | U | 23.5 | U | 24.0 | U | 25.4 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 27.6 | U | 32.8 | U | 19.4 | U | 19.8 | U | 21.0 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 26.4 | U | 31.4 | U | 16.6 | U | 16.9 | U | 17.9 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 31.4 | U | 37.3 | U | 23.2 | U | 23.7 | U | 25.0 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 20.4 | U | 24.3 | U | 31.5 | U | 32.1 | U | 34.0 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 29.8 | U | 35.5 | U | 25.0 | U | 25.5 | U | 27.0 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 26.2 | U | 31.2 | U | 14.4 | U | 14.7 | U | 15.6 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 19.2 | U | 22.8 | U | 18.4 | U | 18.8 | U | 19.9 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 30.4 | U | 36.2 | U | 25.7 | U | 26.2 | U | 27.7 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 23.1 | U | 27.4 | U | 24.6 | U | 25.2 | U | 26.6 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 29.0 | U | 34.6 | U | 25.3 | U | 25.9 | U | 27.4 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 27.4 | U | 32.6 | U | 22.6 | U | 23.1 | U | 24.5 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 27.7 | U | 33.0 | U | 24.1 | U | 24.6 | U | 26.0 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 30.4 | U | 36.2 | U | 21.9 | U | 22.4 | U | 23.7 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 20.6 | U | 24.5 | U | 16.2 | U | 16.6 | U | 17.6 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 68.6 | U | 81.6 | U | 17.8 | U | 18.2 | U | 19.2 | U |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 67.0 | U | 79.7 | U | 75.1 | U | 76.6 | U | 81.1 | U |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 20.5 | U | 24.3 | U | 19.9 | U | 20.3 | U | 21.5 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 66.3 | U | 78.9 | U | 46.7 | U | 47.7 | U | 50.5 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 15.8 | JB | 141 | U | 309 | B | 294 | B | 21.6 | JB |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 18.4 | U | 21.9 | U | 20.7 | U | 21.1 | U | 22.3 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 29.5 | U | 35.1 | U | 26.1 | U | 26.6 | U | 28.2 | U |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 31.2 | U | 37.2 | U | 11.9 | J | 23.0 | U | 24.4 | U |
| 120-12-7 | Anthracene | 50000* | µg/kg | 22.8 | U | 27.2 | U | 19.6 | U | 20.0 | U | 21.2 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 13.4 | U | 16.0 | U | 18.5 | | 14.6 | U | 15.4 | U |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 22.4 | U | 26.7 | U | 13.1 | J | 16.8 | U | 17.8 | U |
| 86-73-7 | Fluorene | 50000* | µg/kg | 29.0 | U | 34.5 | U | 22.8 | U | 23.3 | U | 24.7 | U |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 27.6 | U | 32.8 | U | 25.4 | U | 25.9 | U | 27.4 | U |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 32.3 | U | 38.5 | U | 11.2 | J | 27.4 | U | 29.0 | U |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 25.0 | U | 29.8 | U | 15.4 | J | 18.8 | U | 19.9 | U |
| 129-00-0 | Pyrene | 50000* | µg/kg | 22.6 | U | 26.9 | U | 23.5 | | 17.0 | U | 18.0 | U |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 0 | | 0 | | 43.5 | | 0 | | 0 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | 20.7 | U | 24.6 | U | 12.7 | J | 14.5 | U | 15.4 | U |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 14.4 | U | 17.1 | U | 10.8 | J | 19.1 | U | 20.2 | U |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 21.5 | U | 25.6 | U | 14.2 | J | 17.5 | U | 18.5 | U |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | 16.0 | U | 19.0 | U | 18.5 | | 14.1 | U | 15.0 | U |
| 218-01-9 | Chrysene | 400 | µg/kg | 22.0 | U | 26.2 | U | 12.7 | J | 17.9 | U | 18.9 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 14.0 | U | 16.6 | U | 13.2 | U | 13.5 | U | 14.3 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | 14.1 | U | 16.7 | U | 14.3 | U | 14.6 | U | 15.4 | U |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 0 | | 0 | | 68.9 | | 0 | | 0 | |
| | **Total PAHs** | | | **0** | | **0** | | **112.4** | | **0** | | **0** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 2080 | | 1770 | | 4850 | | 2410 | | 5710 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 1.03 | U | 1.24 | U | 0.46 | J | 1.19 | U | 1.25 | U |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 2.31 | | 0.74 | U | 0.71 | U | 0.71 | U | 0.75 | U |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 12.6 | | 12.5 | | 31.0 | | 22.2 | | 106 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.13 | J | **0.17** | J | **0.44** | | **0.23** | J | **0.31** | |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.59 | | 0.52 | | **1.16** | | 0.51 | | **1.39** | |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 26500 | | 16500 | | 4840 | | 6460 | | 10600 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 4.25 | | 3.99 | | **11.2** | | 6.93 | | **20.1** | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 2.35 | | 2.23 | | 7.16 | | 2.87 | | 7.38 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 8.27 | | 7.46 | | 13.0 | | 9.34 | | **26.0** | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **4940** | | **4710** | | **10200** | | **4680** | | **13400** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 0.82 | | 0.42 | | 2.41 | | 1.04 | | 1.31 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | **17500** | | **9100** | | **5610** | | 4530 | | **8040** | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 64.3 | | 72.4 | | 225 | | 49.2 | | 217 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.0014 | J | 0.0036 | J | 0.030 | | 0.022 | | 0.018 | |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 3.98 | | 3.30 | | 9.97 | | 5.11 | | **14.6** | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 755 | | 439 | | 921 | | 539 | | 2770 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.51 | U | 0.62 | U | 0.59 | U | 0.60 | U | 0.63 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-02657-001 | | 00-02657-002 | | 00-02460-002 | | 00-02460-003 | | 00-02460-004 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | MW-1 | | MW-1 | | MW-2 | | MW-2 | | MW-2 | |
| | Depth: | Objectives / | | 26'-27.5' | | 32'-34' | | 7'-10' | | 24'-25' | | 27'-30' | |
| | Laboratory ID: | Eastern USA | | J4474-1 | | J4474-2 | | J4455-2 | | J4455-3 | | J4455-4 | |
| | Sampling Date: | Background | | 3/21/00 | | 3/21/00 | | 3/15/00 | | 3/15/00 | | 3/15/00 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.82 | U | 0.99 | U | 0.60 | J | 0.24 | J | 2.45 | |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 703 | | 413 | | 412 | | 504 | | 669 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 5.56 | U | 6.70 | U | 6.37 | U | 6.43 | U | 6.75 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 5.85 | | 6.21 | | 15.3 | | 9.71 | | 25.0 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | 15.0 | | 11.1 | | **91.6** | | 14.6 | | **33.3** | |
| 57-12-5 | Cyanide | | mg/kg | 0.0060 | U | 0.0060 | U | 0.0060 | U | 0.0060 | U | 0.0060 | U |
| | % Solids | | % | 96.7 | | 80.9 | | 84.9 | | 84.3 | | 80.2 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | | | | | | | | | | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-02657-003 | | 00-02657-004 | | 00-02434-004 | | 00-02434-005 | | 00-02434-006 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | MW-3 | | MW-3 | | MW-4 | | MW-4 | | MW-4 | |
| | Depth: | Objectives / | | 20'-22' | | 27'-29' | | 12.5'-12.8' | | 10'-12.5' | | 34'-36' | |
| | Laboratory ID: | Eastern USA | | J4474-3 | | J4474-4 | | J4459-4 | | J4459-5 | | J4459-6 | |
| | Sampling Date: | Background | | 3/21/00 | | 3/21/00 | | 3/14/00 | | 3/14/00 | | 3/14/00 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 3.97 | U | 4.69 | U | NR | | 4.54 | U | 4.91 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 16.9 | U | 20.0 | U | NR | | 19.3 | U | 20.9 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 8.97 | U | 10.6 | U | NR | | 10.2 | U | 11.1 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 3.75 | U | 4.43 | U | NR | | 4.28 | U | 4.64 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 8.50 | U | 10.0 | U | NR | | 9.71 | U | 10.5 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 1.98 | U | 2.33 | U | NR | | 2.26 | U | 2.44 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 5.63 | U | 6.65 | U | NR | | 6.43 | U | 6.97 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.78 | U | 0.78 | U | 2.14 | U | NR | | 0.43 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.79 | U | 0.79 | U | 2.46 | U | NR | | 0.49 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.94 | U | 0.94 | U | 2.14 | U | NR | | 0.43 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.83 | U | 0.83 | U | 1.20 | U | NR | | 0.24 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 0.97 | U | 0.97 | U | 23.4 | | NR | | 7.50 | |
| 67-64-1 | Acetone | 200 | µg/kg | 4.90 | | 11.0 | | 106 | | NR | | 36.7 | |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 0.72 | U | 0.72 | U | 1.70 | U | NR | | 0.34 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 0.66 | U | 0.66 | U | 1.32 | U | NR | | 0.26 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.59 | U | 0.59 | U | 1.01 | U | NR | | 0.20 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.34 | U | 0.34 | U | 2.58 | U | NR | | 0.51 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.72 | U | 0.72 | U | 3.15 | U | NR | | 0.63 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.67 | U | 0.67 | U | 1.07 | U | NR | | 0.21 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.46 | U | 0.46 | U | 1.89 | U | NR | | 0.38 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 0.93 | U | 0.93 | U | 15.8 | U | NR | | 3.14 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.71 | U | 0.71 | U | 1.76 | U | NR | | 0.35 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.75 | U | 0.75 | U | 1.70 | U | NR | | 0.34 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.66 | U | 0.66 | U | 1.58 | U | NR | | 0.31 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.64 | U | 0.64 | U | 1.13 | U | NR | | 0.22 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.63 | U | 0.63 | U | 1.58 | U | NR | | 0.31 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 0.75 | U | 0.75 | U | 1.89 | U | NR | | 0.38 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.55 | U | 0.55 | U | 1.83 | U | NR | | 0.36 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.58 | U | 0.58 | U | 2.96 | U | NR | | 0.59 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 0.13 | U | 0.13 | U | 1.76 | U | NR | | 0.35 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.56 | U | 0.56 | U | 2.58 | U | NR | | 0.51 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.34 | U | 0.34 | U | 3.02 | U | NR | | 0.60 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 1.72 | U | 1.72 | U | 9.32 | U | NR | | 1.85 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 1.40 | U | 1.40 | U | 9.77 | U | NR | | 1.94 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.63 | U | 0.63 | U | 1.76 | U | NR | | 0.35 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 0.17 | U | 1 | | 2.08 | U | NR | | 19.9 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.59 | U | 0.59 | U | 3.15 | U | NR | | 0.63 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 0.27 | U | 0.27 | U | 1.83 | U | NR | | 0.36 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 0.090 | U | 1.7 | | 7.20 | | NR | | 0.43 | U |
| 100-42-5 | Styrene | NA * | µg/kg | 0.72 | U | 0.72 | U | 1.83 | U | NR | | 0.36 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 0.16 | U | 3.4 | | 8.60 | | NR | | 0.79 | U |
| 95-47-6 | o-xylene | 1200 | µg/kg | 0.12 | U | 2.5 | | 1.76 | U | NR | | 0.35 | U |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **0** | | **8.6** | | **15.8** | | **NR** | | **19.9** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 33.9 | U | 41.3 | U | 23.2 | U | NR | | 23.0 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 32.7 | U | 39.8 | U | 29.2 | U | NR | | 28.9 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 33.3 | U | 40.6 | U | 24.0 | U | NR | | 23.8 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 35.6 | U | 43.4 | U | 29.2 | U | NR | | 28.9 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 34.7 | U | 42.2 | U | 29.8 | U | NR | | 29.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 35.0 | U | 42.7 | U | 30.1 | U | NR | | 29.8 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 28.9 | U | 35.2 | U | 23.9 | U | NR | | 23.7 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 37.7 | U | 46.0 | U | 17.4 | U | NR | | 17.3 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 28.0 | U | 34.1 | U | 19.6 | U | NR | | 19.4 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 34.0 | U | 41.4 | U | 24.3 | U | NR | | 24.1 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 35.8 | U | 43.7 | U | 30.3 | U | NR | | 30.0 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 39.3 | U | 47.8 | U | 33.5 | U | NR | | 33.1 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 35.9 | U | 43.7 | U | 22.5 | U | NR | | 22.3 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 27.3 | U | 33.2 | U | 25.7 | U | NR | | 25.5 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 16.5 | U | 20.1 | U | 14.4 | U | NR | | 14.3 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 33.0 | U | 40.2 | U | 26.5 | U | NR | | 26.2 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 28.6 | U | 34.8 | U | 24.7 | U | NR | | 24.4 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 34.6 | U | 42.1 | U | 27.4 | U | NR | | 27.1 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 36.0 | U | 43.8 | U | 30.3 | U | NR | | 30.0 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 34.7 | U | 42.2 | U | 27.8 | U | NR | | 27.5 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 27.9 | U | 34.0 | U | 18.9 | U | NR | | 18.7 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 29.0 | U | 35.3 | U | 45.2 | U | NR | | 44.7 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-02657-003 | | 00-02657-004 | | 00-02434-004 | | 00-02434-005 | | 00-02434-006 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | MW-3 | | MW-3 | | MW-4 | | MW-4 | | MW-4 | |
| | Depth: | Objectives / | | 20'-22' | | 27'-29' | | 12.5'-12.8' | | 10'-12.5' | | 34'-36' | |
| | Laboratory ID: | Eastern USA | | J4474-3 | | J4474-4 | | J4459-4 | | J4459-5 | | J4459-6 | |
| | Sampling Date: | Background | | 3/21/00 | | 3/21/00 | | 3/14/00 | | 3/14/00 | | 3/14/00 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 27.6 | U | 33.6 | U | 30.3 | U | NR | | 30.0 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 26.6 | U | 32.4 | U | 28.1 | U | NR | | 27.8 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 31.8 | U | 38.7 | U | 28.1 | U | NR | | 27.9 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 25.0 | U | 30.4 | U | 19.7 | U | NR | | 19.5 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 30.4 | U | 37.1 | U | 25.2 | U | NR | | 24.9 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 28.1 | U | 34.2 | U | 20.8 | U | NR | | 20.6 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 26.8 | U | 32.7 | U | 17.7 | U | NR | | 17.5 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 31.9 | U | 38.9 | U | 24.8 | U | NR | | 24.6 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 20.7 | U | 25.3 | U | 33.7 | U | NR | | 33.4 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 30.3 | U | 37.0 | U | 26.8 | U | NR | | 26.5 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 26.7 | U | 32.5 | U | 15.5 | U | NR | | 15.3 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 19.5 | U | 23.8 | U | 19.7 | U | NR | | 19.5 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 30.9 | U | 37.7 | U | 27.5 | U | NR | | 27.2 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 23.5 | U | 28.6 | U | 26.4 | U | NR | | 26.1 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 29.5 | U | 36.0 | U | 27.1 | U | NR | | 26.8 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 27.9 | U | 34.0 | U | 24.2 | U | NR | | 24.0 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 28.2 | U | 34.4 | U | 25.8 | U | NR | | 25.5 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 31.0 | U | 37.7 | U | 23.5 | U | NR | | 23.3 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 21.0 | U | 25.6 | U | 17.4 | U | NR | | 17.2 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 69.8 | U | 85.1 | U | 19.0 | U | NR | | 18.8 | U |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 68.1 | U | 83.0 | U | 80.3 | U | NR | | 79.6 | U |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 20.8 | U | 25.4 | U | 21.3 | U | NR | | 21.1 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 67.5 | U | 82.2 | U | 50.0 | U | NR | | 49.5 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 10.8 | JB | 11.9 | JB | 36.6 | JB | NR | | 180 | B |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 18.7 | U | 22.8 | U | 22.1 | U | NR | | 21.9 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 30.0 | U | 36.6 | U | 671 | | NR | | 27.6 | U |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 31.8 | U | 38.7 | U | 24.1 | U | NR | | 23.9 | U |
| 120-12-7 | Anthracene | 50000* | µg/kg | 23.2 | U | 28.3 | U | 563 | | NR | | 20.8 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 13.6 | U | 16.6 | U | 219 | | NR | | 15.1 | U |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 22.8 | U | 27.8 | U | 2620 | | NR | | 17.5 | U |
| 86-73-7 | Fluorene | 50000* | µg/kg | 29.5 | U | 36.0 | U | 2050 | | NR | | 24.2 | U |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 28.0 | U | 34.2 | U | 27.2 | U | NR | | 26.9 | U |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 32.9 | U | 40.1 | U | 28.8 | U | NR | | 28.5 | U |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 25.5 | U | 31.0 | U | 5380 | | NR | | 8.60 | J |
| 129-00-0 | Pyrene | 50000* | µg/kg | 23.0 | U | 28.1 | U | 1930 | | NR | | 12.2 | J |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 0 | | 0 | | 13433 | | NR | | 0 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | 21.0 | U | 25.6 | U | **971** | | NR | | 15.1 | U |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 14.6 | U | 17.8 | U | 795 | | NR | | 19.8 | U |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 21.9 | U | 26.7 | U | 857 | | NR | | 18.2 | U |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | 16.3 | U | 19.8 | U | **707** | | NR | | 14.7 | U |
| 218-01-9 | Chrysene | 400 | µg/kg | 22.4 | U | 27.3 | U | **1120** | | NR | | 18.6 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 14.2 | U | 17.3 | U | 244 | | NR | | 14.0 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | 14.3 | U | 17.4 | U | **80.7** | | NR | | 15.1 | U |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 0 | | 0 | | 4774.7 | | NR | | 0 | |
| | **Total PAHs** | | | **0** | | **0** | | **18207.7** | | **NR** | | **0** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 3000 | | 3140 | | NR | | 7550 | | 2810 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 1.18 | | 1.36 | | NR | | 1.15 | U | 1.25 | U |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.64 | U | 0.77 | U | NR | | 1.82 | | 0.75 | U |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 40.7 | | 34.6 | | NR | | 63.4 | | 20.3 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | **0.22** | | **0.28** | | NR | | **0.44** | | **0.20** | J |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.76 | | 1.00 | | NR | | **1.67** | | 0.54 | |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 2200 | | 4170 | | NR | | 13200 | | 20000 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 6.00 | | 7.50 | | NR | | **15.2** | | 5.85 | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 4.19 | | 4.10 | | NR | | 8.37 | | 2.86 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 11.2 | | 9.48 | | NR | | 15.1 | | 8.80 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **6460** | | **9320** | | NR | | **14700** | | **5210** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 1.43 | | 1.64 | | NR | | 2.32 | | 0.51 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | 3430 | | 4150 | | NR | | **12000** | | **13000** | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 440 | | 148 | | NR | | 166 | | 81.1 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.0026 | J | 0.0026 | J | NR | | 0.013 | | 0.017 | |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 7.58 | | 6.13 | | NR | | 12.7 | | 4.69 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 738 | | 767 | | NR | | 2830 | | 833 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.53 | U | 0.64 | U | NR | | 0.57 | U | 0.63 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-02657-003 | | 00-02657-004 | | 00-02434-004 | | 00-02434-005 | | 00-02434-006 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | MW-3 | | MW-3 | | MW-4 | | MW-4 | | MW-4 | |
| | Depth: | Objectives / | | 20'-22' | | 27'-29' | | 12.5'-12.8' | | 10'-12.5' | | 34'-36' | |
| | Laboratory ID: | Eastern USA | | J4474-3 | | J4474-4 | | J4459-4 | | J4459-5 | | J4459-6 | |
| | Sampling Date: | Background | | 3/21/00 | | 3/21/00 | | 3/14/00 | | 3/14/00 | | 3/14/00 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.85 | U | 1.02 | U | NR | | 1.90 | | 0.24 | J |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 262 | | 414 | | NR | | 764 | | 902 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 5.72 | U | 6.91 | U | NR | | 6.21 | U | 6.75 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 8.02 | | 10.3 | | NR | | 23.8 | | 8.23 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **21.4** | | **24.3** | | NR | | **41.7** | | 20.5 | |
| 57-12-5 | Cyanide | | mg/kg | 0.0060 | U | 0.0060 | U | NR | | 0.0060 | U | 0.0060 | U |
| | % Solids | | % | 94.2 | | 78.3 | | 79.4 | | 87.3 | | 80.3 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | | | | | | | | | | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-02460-001 | | 00-07914-002 | | 00-07914-009 | | 00-08470-003 | | 00-08470-004 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | MW-5 | | MW-6 | | MW-6 | | MW-6 | | MW-6 (Dup) | |
| | Depth: | Objectives / | | 7'-10' | | 2'-4' | | 7.5'-8.5' | | 8.5'-9.5' | | 8.5'-9.5' | |
| | Laboratory ID: | Eastern USA | | J4455-1 | | J9482-2 | | J9482-9 | | J6936-3 | | J6936-4 | |
| | Sampling Date: | Background | | 3/15/00 | | 08/16/2000 | | 08/16/2000 | | 08/31/2000 | | 08/31/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 4.16 | U | 3.11 | U | 2.56 | U | 2.18 | U | 2.17 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 17.7 | U | 14.7 | U | 12.1 | U | 10.3 | U | 10.2 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 9.38 | U | 3.25 | U | 2.68 | U | 2.28 | U | 2.27 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 3.93 | U | 2.44 | U | 2.01 | U | 1.71 | U | 1.71 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 8.90 | U | 5.5 | U | 4.52 | U | 3.85 | U | 3.84 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 2.07 | U | 8.32 | U | 6.85 | U | 5.82 | U | 5.81 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 5.90 | U | 9.56 | U | 7.86 | U | 6.69 | U | 6.67 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 250 | U | 0.52 | U | 56.5 | U | 1.82 | U | 1.81 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 243 | U | 0.6 | U | 39.3 | U | 2.08 | U | 2.08 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 270 | U | 0.52 | U | 54.9 | U | 1.82 | U | 1.81 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 164 | U | 0.29 | U | 51.8 | U | 1.01 | U | 1.01 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 197 | U | 0.83 | U | 31.4 | U | 47.6 | | 60.2 | |
| 67-64-1 | Acetone | 200 | µg/kg | **15800** | | 6.64 | U | 297 | U | 23.2 | U | 23.1 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 138 | U | 10.5 | | 188 | | 1.44 | U | 1.44 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 316 | U | 0.32 | U | 33 | U | 1.12 | U | 1.12 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 118 | U | 0.24 | U | 22 | U | 0.85 | U | 0.85 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 184 | U | 0.63 | U | 42.4 | U | 2.19 | U | 2.19 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 224 | U | 0.77 | U | 29.8 | U | 2.67 | U | 2.66 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 171 | U | 0.26 | U | 20.4 | U | 0.91 | U | 0.91 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 125 | U | 0.46 | U | 25.1 | U | 1.6 | U | 1.6 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 540 | U | 3.84 | U | 160 | U | 13.4 | U | 13.4 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 204 | U | 0.43 | U | 17.3 | U | 1.5 | U | 1.49 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 224 | U | 0.41 | U | 28.3 | U | 1.44 | U | 1.44 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 171 | U | 0.29 | U | 28.3 | U | 1.01 | U | 1.01 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 79.0 | U | 0.28 | U | 25.1 | U | 0.96 | U | 0.96 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 125 | U | 0.38 | U | 28.3 | U | 1.34 | U | 1.33 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 178 | U | 0.46 | U | 26.7 | U | 1.6 | U | 1.6 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 118 | U | 0.44 | U | 12.6 | U | 1.55 | U | 1.55 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 243 | U | 0.72 | U | 48.7 | U | 2.51 | U | 2.51 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 92.1 | U | 7.1 | | **2510** | | 10.3 | | 37.3 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 105 | U | 0.63 | U | 28.3 | U | 2.19 | U | 2.19 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 132 | U | 0.73 | U | 18.8 | U | 2.56 | U | 2.56 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 296 | U | 2.26 | U | 80.1 | U | 7.9 | U | 7.89 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 322 | U | 2.37 | U | 140 | U | 8.28 | U | 8.26 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 184 | U | 0.43 | U | 12.6 | U | 1.5 | U | 1.49 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 105 | U | 2.5 | | 916 | | 4.6 | | 9.1 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 92.1 | U | 0.77 | U | 20.4 | U | 2.67 | U | 2.66 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 138 | U | 0.44 | U | 11 | U | 1.55 | U | 1.55 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 2450 | | 3.5 | | 886 | | 12.9 | | 43.2 | |
| 100-42-5 | Styrene | NA * | µg/kg | 184 | U | 0.44 | U | 12.6 | U | 1.55 | U | 1.55 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | **1820** | | 3.8 | | 441 | | 6.9 | | 10.3 | |
| 95-47-6 | o-xylene | 1200 | µg/kg | 1130 | | 0.43 | U | 223 | | 7.9 | | 16.2 | |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **5400** | | **16.9** | | **4976** | | **42.6** | | **116.1** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 98.1 | U | 697 | U | 2450 | U | 104 | U | 60.1 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 123 | U | 903 | U | 2360 | U | 100 | U | 75.6 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 101 | U | 848 | U | 2400 | U | 102 | U | 62.2 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 123 | U | 925 | U | 2570 | U | 109 | U | 75.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 126 | U | 880 | U | 2500 | U | 106 | U | 77.1 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 127 | U | 992 | U | 2530 | U | 107 | U | 77.9 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 101 | U | 889 | U | 2090 | U | 88.8 | U | 61.9 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 73.6 | U | 938 | U | 2720 | U | 116 | U | 45.1 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 82.8 | U | 890 | U | 2020 | U | 85.9 | U | 50.7 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 103 | U | 820 | U | 2450 | U | 104 | U | 63 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 128 | U | 789 | U | 2590 | U | 110 | U | 78.5 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 141 | U | 980 | U | 2830 | U | 121 | U | 86.6 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 95.2 | U | 799 | U | 2590 | U | 110 | U | 58.3 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 109 | U | 744 | U | 1970 | U | 83.8 | U | 66.5 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 60.9 | U | 696 | U | 1190 | U | 50.6 | U | 37.3 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 112 | U | 914 | U | 2380 | U | 101 | U | 68.4 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 104 | U | 823 | U | 2060 | U | 87.7 | U | 63.9 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 116 | U | 1000 | U | 2490 | U | 106 | U | 70.8 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 128 | U | 497 | U | 2600 | U | 110 | U | 78.4 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 117 | U | 938 | U | 2500 | U | 106 | U | 71.9 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 79.7 | U | 965 | U | 2010 | U | 85.7 | U | 48.8 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 191 | U | 415 | U | 2090 | U | 89 | U | 117 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-02460-001 | | 00-07914-002 | | 00-07914-009 | | 00-08470-003 | | 00-08470-004 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | MW-5 | | MW-6 | | MW-6 | | MW-6 | | MW-6 (Dup) | |
| | Depth: | Objectives / | | 7'-10' | | 2'-4' | | 7.5'-8.5' | | 8.5'-9.5' | | 8.5'-9.5' | |
| | Laboratory ID: | Eastern USA | | J4455-1 | | J9482-2 | | J9482-9 | | J6936-3 | | J6936-4 | |
| | Sampling Date: | Background | | 3/15/00 | | 08/16/2000 | | 08/16/2000 | | 08/31/2000 | | 08/31/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 128 | U | 826 | U | 1990 | U | 84.6 | U | 78.5 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 119 | U | 736 | U | 1920 | U | 81.5 | U | 72.7 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 119 | U | 959 | U | 2290 | U | 97.5 | U | 72.8 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 83.0 | U | 721 | U | 1800 | U | 76.7 | U | 50.9 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 106 | U | 958 | U | 2190 | U | 93.4 | U | 65.1 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 87.7 | U | 711 | U | 2030 | U | 86.2 | U | 53.7 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 74.8 | U | 459 | U | 1940 | U | 82.4 | U | 45.8 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 105 | U | 680 | U | 2300 | U | 98 | U | 64.2 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 142 | U | 1530 | U | 1500 | U | 63.7 | U | 87.2 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 2550 | | 423 | J | 4020 | | 93.2 | U | 69.3 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 65.3 | U | 651 | U | 1920 | U | 81.8 | U | 40 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 83.3 | U | 629 | U | 1410 | U | 59.9 | U | 51.1 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 116 | U | 1130 | U | 2230 | U | 95 | U | 71.1 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 111 | U | 529 | U | 1690 | U | 72 | U | 68.2 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 114 | U | 893 | U | 2130 | U | 90.7 | U | 70.1 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 102 | U | 940 | U | 2010 | U | 85.6 | U | 62.7 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 109 | U | 856 | U | 2040 | U | 86.6 | U | 66.7 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 99.2 | U | 840 | U | 2230 | U | 95.1 | U | 60.8 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 73.4 | U | 571 | U | 1510 | U | 64.4 | U | 45 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 1020 | | 668 | U | 1160 | J | 214 | U | 49.3 | U |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 339 | U | 2530 | U | 4910 | U | 209 | U | 30.9 | J |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 90.0 | U | 559 | U | 1500 | U | 63.9 | U | 55.1 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 211 | U | 969 | U | 4870 | U | 207 | U | 129 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 181 | JB | 493 | J | 8670 | U | 29.9 | JB | 44.8 | JB |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 469 | U | 721 | U | 1350 | U | 57.5 | U | 57.2 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 33500 | | 798 | J | **87500** | | 76.9 | J | 151 | |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 5210 | | 5580 | | 11300 | | 112 | | 94.9 | |
| 120-12-7 | Anthracene | 50000* | µg/kg | 13000 | | 3040 | | **57200** | | 99.4 | | 109 | |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 1150 | | 6870 | | 8490 | | 161 | | 174 | |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 12400 | | 13100 | | **79100** | | 263 | | 284 | |
| 86-73-7 | Fluorene | 50000* | µg/kg | 15400 | | 1170 | | 44700 | | 44.9 | J | 46.9 | J |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | **53800** | | 1490 | | 955 | J | 65.2 | J | 35.2 | J |
| 91-20-3 | Naphthalene | 13000 | µg/kg | **74300** | | 4410 | | 2810 | | 145 | | 118 | |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | **51100** | | 4720 | | **150000** | | 214 | | 177 | |
| 129-00-0 | Pyrene | 50000* | µg/kg | 23100 | | 19900 | | **95100** | | 361 | | 421 | |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 282960 | | 61078 | | 537155 | | 1542.4 | | 1611 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | **6860** | | **10400** | | **44300** | | 201 | | 206 | |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | **2250** | | **10300** | | **25200** | | 208 | | 124 | |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | **3190** | | **9040** | | **30500** | | 264 | | 142 | |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **4750** | | **9110** | | **40000** | | 260 | | 206 | |
| 218-01-9 | Chrysene | 400 | µg/kg | **6600** | | **11500** | | **39500** | | 239 | | 240 | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 993 | | **6120** | | **8520** | | 137 | | 124 | |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | **418** | | **3110** | | **3220** | | 43.9 | U | **34.1** | J |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | | | 59580 | | 191240 | | 1446 | | 1076.1 | |
| | **Total PAHs** | | | **282960** | | **120658** | | **728395** | | **2988.4** | | **2687.1** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 17400 | | 6430 | | 6950 | | 898 | | 746 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 3.64 | | 0.8 | U | 4.31 | | 0.55 | U | ND | |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.63 | U | 4.31 | | 1.68 | | 0.12 | J | 0.27 | |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | **381** | | 86.2 | | 50.5 | | 6.96 | | 5.14 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | **0.54** | | **0.5** | | **0.42** | | 0.12 | | 0.13 | |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | **4.31** | | **2.03** | | **1.56** | | 0.19 | | 0.15 | |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 2640 | | 12000 | | 1560 | | 361 | | 1010 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | **58.7** | | **15.1** | | **11.3** | | 1.54 | | 1.53 | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 18.6 | | 7.04 | | 5.28 | | 0.99 | | 0.8 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 23.3 | | **47.6** | | 11.2 | | 9.14 | | 6.18 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **34000** | | **17100** | | **14900** | | 1710 | | 1430 | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 2.32 | | 178 | | 27.8 | | 10.1 | | 6.81 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | **14500** | | **7330** | | 2790 | | 370 | | 664 | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 560 | | 137 | | 132 | | 20.7 | | 22.5 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.025 | | **0.4** | | **0.16** | | 0.044 | | 0.04 | |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 39.4 | | 12.8 | | 8.71 | | 1.46 | | 1.18 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 3160 | | 1820 | | 952 | | 91.3 | J | 69.9 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.52 | U | 0.3 | | 0.48 | | 0.13 | J | 0.19 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-02460-001 | | 00-07914-002 | | 00-07914-009 | | 00-08470-003 | | 00-08470-004 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | MW-5 | | MW-6 | | MW-6 | | MW-6 | | MW-6 (Dup) | |
| | Depth: | Objectives / | | 7'-10' | | 2'-4' | | 7.5'-8.5' | | 8.5'-9.5' | | 8.5'-9.5' | |
| | Laboratory ID: | Eastern USA | | J4455-1 | | J9482-2 | | J9482-9 | | J6936-3 | | J6936-4 | |
| | Sampling Date: | Background | | 3/15/00 | | 08/16/2000 | | 08/16/2000 | | 08/31/2000 | | 08/31/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 7.74 | | 0.44 | | 0.38 | | 1.01 | | 0.2 | U |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 1310 | | 361 | | 756 | | 100 | J | 74.4 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 5.67 | U | 0.28 | U | 0.23 | U | 0.19 | U | 0.19 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 67.3 | | 22.2 | | 17 | | 2.48 | | 2.08 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **192** | | **137** | | **41.7** | | 12 | | 8.77 | |
| 57-12-5 | Cyanide | | mg/kg | 1.72 | | 1.75 | | 0.27 | J | 1.09 | | 0.59 | |
| | % Solids | | % | 95.0 | | 63.9 | | 79.6 | | 93.6 | | 93.8 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | | | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-07914-010 | | 00-07914-004 | | 00-08386-001 | | 00-08386-002 | | 00-08386-003 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | MW-6 | | MW-8 | | MW-8 | | MW-8 | | MW-8 | |
| | Depth: | Objectives / | | 30'-33' | | 2'-4' | | 22.3'-23' | | 27'-27.5' | | 37.5'-38' | |
| | Laboratory ID: | Eastern USA | | J9482-10 | | J9482-4 | | J6935-1 | | J6935-2 | | J6935-3 | |
| | Sampling Date: | Background | | 08/16/2000 | | 08/16/2000 | | 08/30/2000 | | 08/30/2000 | | 08/30/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 2.61 | U | 2.23 | U | 2.14 | U | 2.18 | U | 2.41 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 12.3 | U | 10.5 | U | 10.1 | U | 10.3 | U | 11.3 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 2.72 | U | 2.33 | U | 2.24 | U | 2.28 | U | 2.52 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 2.05 | U | 1.75 | U | 1.68 | U | 1.71 | U | 1.89 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 4.6 | U | 3.93 | U | 3.78 | U | 3.85 | U | 4.26 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 6.97 | U | 5.95 | U | 5.72 | U | 5.82 | U | 6.44 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 8.01 | U | 6.83 | U | 6.57 | U | 6.69 | U | 7.4 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.44 | U | 0.37 | U | 0.36 | U | 0.36 | U | 53.3 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.5 | U | 0.43 | U | 0.41 | U | 0.42 | U | 37 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.44 | U | 0.37 | U | 0.36 | U | 0.36 | U | 51.8 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.24 | U | 0.21 | U | 0.2 | U | 0.2 | U | 48.8 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 0.69 | U | 0.59 | U | 0.57 | U | 0.58 | U | 29.6 | U |
| 67-64-1 | Acetone | 200 | µg/kg | 5.56 | U | 4.73 | U | 4.56 | U | 4.64 | U | 280 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 0.35 | U | 0.29 | U | 0.28 | U | 0.29 | U | 22.2 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 0.27 | U | 0.23 | U | 0.22 | U | 0.22 | U | 31.1 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.2 | U | 0.17 | U | 0.17 | U | 0.17 | U | 20.7 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.52 | U | 0.45 | U | 0.43 | U | 0.44 | U | 40 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.64 | U | 0.55 | U | 0.53 | U | 0.54 | U | 28.1 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.22 | U | 0.19 | U | 0.18 | U | 0.18 | U | 19.2 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.38 | U | 0.33 | U | 0.32 | U | 0.32 | U | 23.7 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 3.21 | U | 2.74 | U | 2.64 | U | 2.69 | U | 151 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.36 | U | 0.31 | U | 0.29 | U | 0.3 | U | 16.3 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.35 | U | 0.29 | U | 0.28 | U | 0.29 | U | 26.6 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.24 | U | 0.21 | U | 0.2 | U | 0.2 | U | 26.6 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.23 | U | 0.2 | U | 0.19 | U | 0.19 | U | 23.7 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.32 | U | 0.27 | U | 0.26 | U | 0.27 | U | 26.6 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 0.38 | U | 0.33 | U | 0.32 | U | 0.32 | U | 25.2 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.37 | U | 0.32 | U | 0.3 | U | 0.31 | U | 11.8 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.6 | U | 0.51 | U | 0.49 | U | 0.5 | U | 45.9 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 0.36 | U | 0.31 | U | 0.29 | U | 0.3 | U | 20.7 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.52 | U | 0.45 | U | 0.43 | U | 0.44 | U | 26.6 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.61 | U | 0.52 | U | 0.5 | U | 0.51 | U | 17.8 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 1.89 | U | 1.61 | U | 1.55 | U | 1.58 | U | 75.5 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 1.98 | U | 1.69 | U | 1.63 | U | 1.66 | U | 132 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.36 | U | 0.31 | U | 0.29 | U | 0.3 | U | 11.8 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 0.42 | U | 0.36 | U | 0.35 | U | 0.35 | U | 23.7 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.64 | U | 0.55 | U | 0.53 | U | 0.54 | U | 19.2 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 0.37 | U | 0.32 | U | 0.3 | U | 0.31 | U | 10.4 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 0.44 | U | 0.37 | U | 0.36 | U | 0.36 | U | 25.2 | U |
| 100-42-5 | Styrene | NA * | µg/kg | 0.37 | U | 0.32 | U | 0.3 | U | 0.31 | U | 11.8 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 0.81 | U | 0.69 | U | 0.66 | U | 0.67 | U | 341 | |
| 95-47-6 | o-xylene | 1200 | µg/kg | 0.36 | U | 0.31 | U | 0.29 | U | 0.3 | U | 11.8 | U |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **0** | | **0** | | **0** | | **0** | | **341** | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 125 | U | 65 | U | 102 | U | 104 | U | 1150 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 120 | U | 84.1 | U | 98.5 | U | 100 | U | 1110 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 123 | U | 79 | U | 101 | U | 102 | U | 1130 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 131 | U | 86.2 | U | 107 | U | 109 | U | 1210 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 127 | U | 82 | U | 105 | U | 106 | U | 1180 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 129 | U | 92.4 | U | 106 | U | 107 | U | 1190 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 106 | U | 82.8 | U | 87.2 | U | 88.8 | U | 982 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 139 | U | 87.4 | U | 114 | U | 116 | U | 1280 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 103 | U | 82.9 | U | 84.4 | U | 85.9 | U | 950 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 125 | U | 76.4 | U | 103 | U | 104 | U | 1150 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 132 | U | 73.5 | U | 108 | U | 110 | U | 1220 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 144 | U | 91.3 | U | 118 | U | 121 | U | 1330 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 132 | U | 74.4 | U | 108 | U | 110 | U | 1220 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 100 | U | 69.3 | U | 82.3 | U | 83.8 | U | 927 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 60.7 | U | 64.9 | U | 49.7 | U | 50.6 | U | 560 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 121 | U | 85.1 | U | 99.4 | U | 101 | U | 1120 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 105 | U | 76.6 | U | 86.1 | U | 87.7 | U | 970 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 127 | U | 93.4 | U | 104 | U | 106 | U | 1170 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 132 | U | 46.3 | U | 108 | U | 110 | U | 1220 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 127 | U | 87.4 | U | 105 | U | 106 | U | 1180 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 103 | U | 89.9 | U | 84.2 | U | 85.7 | U | 948 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 107 | U | 38.7 | U | 87.4 | U | 89 | U | 985 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-07914-010 | | 00-07914-004 | | 00-08386-001 | | 00-08386-002 | | 00-08386-003 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | MW-6 | | MW-8 | | MW-8 | | MW-8 | | MW-8 | |
| | Depth: | Objectives / | | 30'-33' | | 2'-4' | | 22.3'-23' | | 27'-27.5' | | 37.5'-38' | |
| | Laboratory ID: | Eastern USA | | J9482-10 | | J9482-4 | | J6935-1 | | J6935-2 | | J6935-3 | |
| | Sampling Date: | Background | | 08/16/2000 | | 08/16/2000 | | 08/30/2000 | | 08/30/2000 | | 08/30/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 101 | U | 77 | U | 83.1 | U | 84.6 | U | 936 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 97.7 | U | 68.6 | U | 80.1 | U | 81.5 | U | 902 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 117 | U | 89.4 | U | 95.8 | U | 97.5 | U | 1080 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 91.9 | U | 67.1 | U | 75.3 | U | 76.7 | U | 849 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 112 | U | 89.3 | U | 91.7 | U | 93.4 | U | 1030 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 103 | U | 66.3 | U | 84.7 | U | 86.2 | U | 954 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 98.7 | U | 42.7 | U | 80.9 | U | 82.4 | U | 911 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 117 | U | 63.3 | U | 96.2 | U | 98 | U | 1080 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 76.3 | U | 142 | U | 62.5 | U | 63.7 | U | 704 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 112 | U | 91.9 | U | 91.5 | U | 93.2 | U | 7300 | |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 98 | U | 60.6 | U | 80.4 | U | 81.8 | U | 905 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 71.8 | U | 58.6 | U | 58.9 | U | 59.9 | U | 663 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 114 | U | 106 | U | 93.3 | U | 95 | U | 1050 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 86.3 | U | 49.3 | U | 70.7 | U | 72 | U | 797 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 109 | U | 83.2 | U | 89.1 | U | 90.7 | U | 1000 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 103 | U | 87.5 | U | 84 | U | 85.6 | U | 947 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 104 | U | 79.8 | U | 85.1 | U | 86.6 | U | 959 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 114 | U | 78.3 | U | 93.4 | U | 95.1 | U | 1050 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 77.2 | U | 53.2 | U | 63.3 | U | 64.4 | U | 713 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 257 | U | 62.2 | U | 210 | U | 214 | U | 2370 | U |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 251 | U | 235 | U | 205 | U | 209 | U | 2310 | U |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 76.5 | U | 52.1 | U | 62.7 | U | 63.9 | U | 707 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 248 | U | 90.3 | U | 203 | U | 207 | U | 2290 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 34.5 | J | 43.7 | J | 362 | U | 369 | U | 4080 | U |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 68.9 | U | 67.1 | U | 56.5 | U | 57.5 | U | 636 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 373 | | 94.2 | U | 90.6 | U | 92.2 | U | **353000** | |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 61.4 | J | 87.6 | U | 95.8 | U | 97.5 | U | 35400 | |
| 120-12-7 | Anthracene | 50000* | µg/kg | 379 | | 78.3 | U | 70.1 | U | 71.4 | U | **104000** | |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 50.2 | U | 59 | | 41.1 | U | 41.9 | U | 22400 | |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 556 | | 63.3 | J | 68.7 | U | 70 | U | **211000** | |
| 86-73-7 | Fluorene | 50000* | µg/kg | 258 | | 95.7 | U | 89 | U | 90.6 | U | **110000** | |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 103 | U | 76.8 | U | 84.6 | U | 86.1 | U | **540000** | |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 121 | U | 90.3 | U | 99.2 | U | 101 | U | **1840000** | |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 1170 | | 26.2 | J | 76.8 | U | 78.2 | U | **528000** | |
| 129-00-0 | Pyrene | 50000* | µg/kg | 720 | | 60 | | 69.5 | U | 70.7 | U | **263000** | |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 3517.4 | | 208.5 | | 0 | | 0 | | 4006800 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | **295** | | 61.1 | | 63.4 | U | 64.5 | U | **72400** | |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 116 | | 59 | J | 44.1 | U | 44.9 | U | **35200** | |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 174 | | 78.6 | | 66 | U | 67.2 | U | **45000** | |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | **206** | | 85.2 | | 49.1 | U | 50 | U | **74000** | |
| 218-01-9 | Chrysene | 400 | µg/kg | 263 | | 77.5 | | 67.6 | U | 68.8 | U | **67500** | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 52.4 | U | 52.4 | J | 42.9 | U | 43.7 | U | **21000** | |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | 52.6 | U | **24** | J | 43.1 | U | 43.9 | U | **6300** | |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 1106.4 | | 437.8 | | 0 | | 0 | | 321400 | |
| | **Total PAHs** | | | **4623.8** | | **646.3** | | **0** | | **0** | | **4328200** | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 6690 | | 6920 | | 2490 | | 1660 | | 2060 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.65 | U | 3.41 | | 0.54 | U | 0.55 | U | 0.6 | U |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.46 | | 0.8 | | 0.21 | J | 0.82 | | 0.71 | |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 88.9 | | 45.1 | | 19.5 | | 13 | | 14.6 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | **0.47** | | **0.47** | | **0.21** | | **0.21** | | **0.24** | |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | **1.52** | | **1.28** | | 0.55 | | 0.42 | | 0.53 | |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 18400 | | 2120 | | 8710 | | 14000 | | 16800 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | **16.6** | | **10.9** | | 6.28 | | 3.96 | | 6.15 | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 7.35 | | 5.94 | | 2.71 | | 1.96 | | 2.75 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 16.3 | | 14.4 | | 5.61 | | 10 | | 7.04 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **14200** | | **11300** | | **4940** | | **3630** | | **5210** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 0.13 | J | 14.8 | | 2.96 | | 1.93 | | 0.21 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | **12200** | | 3660 | | **6120** | | **9810** | | **10700** | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 183 | | 206 | | 86.9 | | 71.4 | | 98 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | **0.19** | | 0.031 | | 0.0092 | U | 0.0093 | U | 0.01 | U |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 11.9 | | 9.3 | | 5.2 | | 3.58 | | 4.3 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 5170 | | 1910 | | 1090 | | 642 | | 844 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.23 | U | 0.2 | U | 0.19 | U | 0.19 | U | 0.21 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-07914-010 | | 00-07914-004 | | 00-08386-001 | | 00-08386-002 | | 00-08386-003 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | MW-6 | | MW-8 | | MW-8 | | MW-8 | | MW-8 | |
| | Depth: | Objectives / | | 30'-33' | | 2'-4' | | 22.3'-23' | | 27'-27.5' | | 37.5'-38' | |
| | Laboratory ID: | Eastern USA | | J9482-10 | | J9482-4 | | J6935-1 | | J6935-2 | | J6935-3 | |
| | Sampling Date: | Background | | 08/16/2000 | | 08/16/2000 | | 08/30/2000 | | 08/30/2000 | | 08/30/2000 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 2.18 | | 1.16 | | 1.05 | | 0.65 | | 0.63 | |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 128 | U | 109 | U | 392 | | 453 | | 718 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.23 | U | 0.2 | U | 0.19 | U | 0.19 | U | 0.21 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 24.5 | | 16.8 | | 7.77 | | 4.88 | | 7.54 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | **42.7** | | **63.1** | | 16.9 | | 13.1 | | 15.6 | |
| 57-12-5 | Cyanide | | mg/kg | 0.32 | | 0.53 | | 0.28 | U | 0.28 | U | 0.28 | U |
| | % Solids | | % | 78.2 | | 91.6 | | 95.3 | | 93.6 | | 84.6 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-08386-004 | | 00-02434-001 | | 00-02434-002 | |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | MW-8 | | TW-1 | | TW-1 | |
| | Depth: | Objectives / | | 47.5'-48' | | 25'-27' | | 30'-32' | |
| | Laboratory ID: | Eastern USA | | J6935-4 | | J4459-1 | | J4459-2 | |
| | Sampling Date: | Background | | 08/30/2000 | | 3/13/00 | | 3/13/00 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | |
| | **PCBs** | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 2.48 | U | 4.16 | U | 4.54 | U |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 11.7 | U | 17.7 | U | 19.3 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 2.59 | U | 9.38 | U | 10.2 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 1.95 | U | 3.93 | U | 4.28 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 4.38 | U | 8.90 | U | 9.71 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 6.63 | U | 2.07 | U | 2.26 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 7.62 | U | 5.90 | U | 6.43 | U |
| | **Volatiles** | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.41 | U | 1.93 | U | 2.07 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.48 | U | 2.22 | U | 2.38 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.41 | U | 1.93 | U | 2.07 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.23 | U | 1.08 | U | 1.16 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 0.66 | U | 23.7 | | 40.2 | |
| 67-64-1 | Acetone | 200 | µg/kg | 5.29 | U | 70.9 | | 85.1 | |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 0.33 | U | 1.54 | U | 1.65 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 0.26 | U | 1.19 | U | 1.28 | U |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.2 | U | 0.91 | U | 0.98 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.5 | U | 2.33 | U | 2.50 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.61 | U | 2.85 | U | 3.05 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.21 | U | 0.97 | U | 1.04 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.37 | U | 1.71 | U | 1.83 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 3.06 | U | 14.3 | U | 15.3 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.34 | U | 1.59 | U | 1.71 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.33 | U | 1.54 | U | 1.65 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.23 | U | 1.42 | U | 1.52 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.22 | U | 1.02 | U | 1.10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.3 | U | 1.42 | U | 1.52 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 0.37 | U | 1.71 | U | 1.83 | U |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.35 | U | 1.65 | U | 1.77 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.57 | U | 2.67 | U | 2.87 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 0.34 | U | 1.59 | U | 1.71 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.5 | U | 2.33 | U | 2.50 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.59 | U | 2.73 | U | 2.93 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 1.81 | U | 8.42 | U | 9.03 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 1.89 | U | 8.82 | U | 9.45 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.34 | U | 1.59 | U | 1.71 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 0.4 | U | 1.88 | U | 2.01 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.61 | U | 2.85 | U | 3.05 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 0.35 | U | 1.65 | U | 1.77 | U |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 0.41 | U | 151 | | 206 | |
| 100-42-5 | Styrene | NA * | µg/kg | 0.35 | U | 1.65 | U | 1.77 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 0.77 | U | 66.4 | | 49.2 | |
| 95-47-6 | o-xylene | 1200 | µg/kg | 0.34 | U | 62.3 | | 89.9 | |
| | | | | | | | | | |
| | **Total BTEX** | | **µg/kg** | **0** | | **279.7** | | **345.1** | |
| | **Semi-Volatiles** | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 119 | U | 185 | U | 22.7 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 114 | U | 178 | U | 28.6 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 117 | U | 182 | U | 23.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 125 | U | 195 | U | 28.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 121 | U | 189 | U | 29.1 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 122 | U | 191 | U | 29.5 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 101 | U | 158 | U | 23.4 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 132 | U | 206 | U | 17.0 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 97.8 | U | 153 | U | 19.2 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 119 | U | 186 | U | 23.8 | U |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 125 | U | 196 | U | 29.7 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 137 | U | 214 | U | 32.7 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 125 | U | 196 | U | 22.0 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 95.4 | U | 149 | U | 25.1 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 57.7 | U | 90.1 | U | 14.1 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 115 | U | 180 | U | 25.9 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 99.9 | U | 156 | U | 24.1 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 121 | U | 189 | U | 26.8 | U |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 126 | U | 196 | U | 29.6 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 121 | U | 189 | U | 27.2 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 97.6 | U | 152 | U | 18.5 | U |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 101 | U | 158 | U | 44.2 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-08386-004 | | 00-02434-001 | | 00-02434-002 | |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | MW-8 | | TW-1 | | TW-1 | |
| | Depth: | Objectives / | | 47.5'-48' | | 25'-27' | | 30'-32' | |
| | Laboratory ID: | Eastern USA | | J6935-4 | | J4459-1 | | J4459-2 | |
| | Sampling Date: | Background | | 08/30/2000 | | 3/13/00 | | 3/13/00 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 96.3 | U | 150 | U | 29.7 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 92.8 | U | 145 | U | 27.5 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 111 | U | 173 | U | 27.5 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 87.3 | U | 136 | U | 19.2 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 106 | U | 166 | U | 24.6 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 98.2 | U | 153 | U | 20.3 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 93.8 | U | 146 | U | 17.3 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 112 | U | 174 | U | 24.3 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 72.5 | U | 113 | U | 33.0 | U |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 106 | U | 102 | J | 35.4 | |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 93.2 | U | 146 | U | 15.1 | U |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 68.2 | U | 62.6 | J | 19.3 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 108 | U | 169 | U | 26.9 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 82 | U | 128 | U | 25.8 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 103 | U | 161 | U | 26.5 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 97.4 | U | 152 | U | 23.7 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 98.7 | U | 154 | U | 25.2 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 108 | U | 169 | U | 23.0 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 73.4 | U | 115 | U | 17.0 | U |
| 86-74-8 | Carbazole | NA * | µg/kg | 244 | U | 118 | J | 11.3 | J |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 238 | U | 372 | U | 78.6 | U |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 72.7 | U | 114 | U | 20.8 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 236 | U | 368 | U | 48.9 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 420 | U | 341 | JB | 260 | B |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 65.4 | U | 102 | U | 21.6 | U |
| | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 105 | | 4120 | | 1590 | |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 111 | U | 3020 | | 23.6 | U |
| 120-12-7 | Anthracene | 50000* | µg/kg | 70.6 | J | 2100 | | 570 | |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 47.7 | U | 2400 | | 15.0 | U |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 99.8 | | 2510 | | 114 | |
| 86-73-7 | Fluorene | 50000* | µg/kg | 58.4 | J | 1730 | | 654 | |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 64.5 | J | 4780 | | 2380 | |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 227 | | 12300 | | 9670 | |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 276 | | 5660 | | 2200 | |
| 129-00-0 | Pyrene | 50000* | µg/kg | 141 | | 11300 | | 153 | |
| | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | 1042.3 | | 49920 | | 2160 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | 48.7 | J | **1540** | | 14.9 | U |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 51.1 | U | **4040** | | 19.5 | U |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 76.5 | U | **4140** | | 17.9 | U |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | 37.7 | J | **7530** | | 11.3 | J |
| 218-01-9 | Chrysene | 400 | µg/kg | 46.2 | J | **2730** | | 18.3 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 49.8 | U | 2030 | | 13.9 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | 50 | U | **690** | | 15.0 | U |
| | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | 132.6 | | 22700 | | 11.3 | |
| | **Total PAHs** | | | **1174.9** | | **72620** | | **2171.3** | |
| | **Metals** | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 1650 | | 2700 | | 3880 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 0.62 | U | 1.14 | U | 1.22 | U |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.87 | | 0.68 | U | 0.73 | U |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 19.5 | | 22.9 | | 37.4 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.16 | | **0.23** | J | **0.27** | |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.44 | | 0.68 | | 0.92 | |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 15200 | | 13400 | | 17400 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 3.98 | | 7.67 | | 7.61 | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 2.46 | | 3.31 | | 4.75 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 10.2 | | 7.91 | | 8.63 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | **4120** | | **6420** | | **8480** | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 0.98 | | 0.95 | | 1.00 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | **8590** | | **9860** | | **11600** | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 55.3 | | 168 | | 105 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.011 | U | 0.013 | | 0.014 | |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 4.5 | | 5.29 | | 7.41 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 640 | | 696 | | 1380 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.22 | U | 0.57 | U | 0.61 | U |

TABLE 4-2
SOIL SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 00-08386-004 | | 00-02434-001 | | 00-02434-002 | |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | MW-8 | | TW-1 | | TW-1 | |
| | Depth: | Objectives / | | 47.5'-48' | | 25'-27' | | 30'-32' | |
| | Laboratory ID: | Eastern USA | | J6935-4 | | J4459-1 | | J4459-2 | |
| | Sampling Date: | Background | | 08/30/2000 | | 3/13/00 | | 3/13/00 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.26 | | 0.56 | J | 0.71 | J |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 580 | | 447 | | 541 | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.22 | U | 6.16 | U | 6.59 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 5.29 | | 8.23 | | 11.8 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | 18.1 | | 19.9 | | **29.8** | |
| 57-12-5 | Cyanide | | mg/kg | 0.29 | U | 0.0060 | U | 0.40 | |
| | % Solids | | % | 82.2 | | 87.9 | | 82.0 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | | | | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL QC SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04270-014 | | 01-04270-015 | | 01-03882-013 | | -03882-013 MS | | 01-03839-001 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-11 MS | | SB-11 MSD | | SB-21 MS | | SB-21 MSD | | SB-24 MS | |
| | Depth: | Objectives / | | 2' - 4' | | 2' - 4' | | 10' - 11' | | 10' - 11' | | 2' - 3' | |
| | Laboratory ID: | Eastern USA | | K9230-4M | | K9230-4N | | K9162-4M | | K9162-4N | | K9155-1M | |
| | Sampling Date: | Background | | 06/01/2001 | | 06/01/2001 | | 04/24/2001 | | 04/24/2001 | | 04/19/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 84.4 | | 85.4 | | 177 | | 193 | | 185 | |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 8.75 | U | 8.75 | U | 236 | U | 236 | U | 179 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 6.24 | U | 6.24 | U | 125 | U | 125 | U | 95 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 7.81 | U | 7.81 | U | 52.3 | U | 52.3 | U | 39.8 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 9.74 | U | 9.74 | U | 119 | U | 119 | U | 90.1 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 5.83 | U | 5.83 | U | 27.6 | U | 27.6 | U | 20.9 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 88.9 | | 87 | | 230 | | 290 | | 288 | |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.32 | U | 0.32 | U | 0.53 | U | 0.53 | U | 0.4 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.28 | U | 0.28 | U | 0.25 | U | 0.25 | U | 3.7 | |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.32 | U | 0.32 | U | 0.29 | U | 0.29 | U | 0.22 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.32 | U | 0.32 | U | 0.49 | U | 0.49 | U | 0.37 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 0.35 | U | 0.35 | U | 7.9 | B | 7.7 | B | 0.24 | U |
| 67-64-1 | Acetone | 200 | µg/kg | 59 | | 78.3 | | 3.63 | U | 3.63 | U | 2.74 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 0.21 | U | 0.21 | U | 0.29 | U | 0.29 | U | 0.22 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 60.1 | | 53.1 | | 77.7 | | 70.5 | | 37.3 | |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.26 | U | 0.26 | U | 0.22 | U | 0.22 | U | 0.17 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.3 | U | 0.3 | U | 0.22 | U | 0.22 | U | 0.17 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.22 | U | 0.22 | U | 0.25 | U | 0.25 | U | 0.19 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.18 | U | 0.18 | U | 0.24 | U | 0.24 | U | 0.18 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.13 | U | 1.4 | | 0.32 | U | 0.32 | U | 0.24 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 0.9 | J | 1.3 | J | 6 | U | 6 | U | 4.53 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.65 | U | 0.65 | U | 3.1 | | 2.9 | | 0.16 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.26 | U | 0.26 | U | 0.31 | U | 0.31 | U | 0.23 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.15 | U | 0.15 | U | 0.26 | U | 0.26 | U | 0.2 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.28 | U | 0.28 | U | 0.21 | U | 0.21 | U | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.29 | U | 0.29 | U | 0.26 | U | 0.26 | U | 0.2 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 56 | | 55.5 | | 81.3 | | 75.6 | | 34.5 | |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.95 | U | 0.95 | U | 0.35 | U | 0.35 | U | 0.27 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.32 | U | 0.32 | U | 0.28 | U | 0.28 | U | 0.21 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 50.8 | | 49.3 | | 88.9 | | 81.3 | | 35.7 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.29 | U | 0.29 | U | 0.32 | U | 0.32 | U | 0.24 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.31 | U | 0.31 | U | 0.35 | U | 0.35 | U | 0.27 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 5.4 | U | 5.4 | U | 2.5 | U | 2.5 | U | 1.89 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 5.4 | U | 5.4 | U | 2.18 | U | 2.18 | U | 1.64 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.11 | U | 0.11 | U | 0.26 | U | 0.26 | U | 0.2 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 45.7 | | 43.1 | | 82.8 | | 78.9 | | 36.9 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.43 | U | 0.43 | U | 0.29 | U | 0.29 | U | 0.22 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 45.1 | | 43.2 | | 83.4 | | 79.5 | | 36.1 | |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 2.2 | | 3.4 | | 0.16 | U | 0.16 | U | 0.12 | U |
| 100-42-5 | Styrene | NA * | µg/kg | 0.11 | U | 0.11 | U | 0.26 | U | 0.26 | U | 0.2 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 1.3 | | 2 | | 1.3 | | 1.1 | | 0.28 | U |
| 95-47-6 | o-xylene | 1200 | µg/kg | 0.9 | | 1.4 | | 0.26 | U | 0.26 | U | 0.2 | U |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | | | | | | | | | | | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 2420 | | 2190 | | 8650 | | 9980 | | 1980 | |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 139 | U | 139 | U | 145 | | 138 | U | 34.8 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 2430 | | 2290 | | 8620 | | 10100 | | 1990 | |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 142 | U | 142 | U | 150 | U | 150 | U | 38 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 1250 | | 1170 | | 4580 | | 5330 | | 1020 | |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 153 | U | 153 | U | 148 | U | 148 | U | 37.3 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 137 | U | 137 | U | 122 | U | 122 | U | 30.8 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 144 | U | 144 | U | 159 | U | 159 | U | 40.2 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 137 | U | 137 | U | 118 | U | 118 | U | 29.8 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 999 | | 1050 | | 4840 | | 5830 | | 1100 | |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 121 | U | 121 | U | 151 | U | 151 | U | 38.2 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 151 | U | 151 | U | 165 | U | 165 | U | 41.8 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 123 | U | 123 | U | 151 | U | 151 | U | 38.3 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 114 | U | 114 | U | 115 | U | 115 | U | 29.1 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 107 | U | 107 | U | 69.5 | U | 69.5 | U | 17.6 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 141 | U | 141 | U | 139 | U | 139 | U | 35.1 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 127 | U | 127 | U | 120 | U | 120 | U | 30.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 1270 | | 1240 | | 4850 | | 5910 | | 1130 | |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 76.5 | U | 76.5 | U | 152 | U | 152 | U | 38.4 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 144 | U | 144 | U | 146 | U | 146 | U | 37 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 2220 | | 2170 | | 9230 | | 11400 | | 2300 | |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 63.9 | U | 63.9 | U | 122 | U | 122 | U | 30.9 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 127 | U | 127 | U | 116 | U | 116 | U | 29.4 | U |

TABLE 4-2
SOIL QC SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04270-014 | | 01-04270-015 | | 01-03882-013 | | -03882-013 MS | | 01-03839-001 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-11 MS | | SB-11 MSD | | SB-21 MS | | SB-21 MSD | | SB-24 MS | |
| | Depth: | Objectives / | | 2' - 4' | | 2' - 4' | | 10' - 11' | | 10' - 11' | | 2' - 3' | |
| | Laboratory ID: | Eastern USA | | K9230-4M | | K9230-4N | | K9162-4M | | K9162-4N | | K9155-1M | |
| | Sampling Date: | Background | | 06/01/2001 | | 06/01/2001 | | 04/24/2001 | | 04/24/2001 | | 04/19/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 113 | U | 113 | U | 112 | U | 112 | U | 28.3 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 148 | U | 148 | U | 134 | U | 134 | U | 33.9 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 111 | U | 111 | U | 105 | U | 105 | U | 26.6 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 147 | U | 147 | U | 128 | U | 128 | U | 32.4 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 109 | U | 109 | U | 118 | U | 118 | U | 29.9 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 70.6 | U | 70.6 | U | 113 | U | 113 | U | 28.6 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 105 | U | 105 | U | 134 | U | 134 | U | 34 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 1920 | | 235 | U | 10300 | | 12500 | | 2900 | |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 59.4 | J | 81 | J | 128 | U | 128 | U | 32.4 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 938 | | 886 | | 4380 | | 5340 | | 1170 | |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 96.8 | U | 96.8 | U | 30.8 | J | 32.3 | J | 20.8 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 174 | U | 174 | U | 130 | U | 130 | U | 33 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 81.4 | U | 81.4 | U | 98.8 | U | 98.8 | U | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 137 | U | 137 | U | 124 | U | 124 | U | 31.5 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 145 | U | 145 | U | 117 | U | 117 | U | 29.7 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 132 | U | 132 | U | 119 | U | 119 | U | 30.1 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 129 | U | 129 | U | 130 | U | 130 | U | 33 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 87.8 | U | 87.8 | U | 9720 | | 12400 | | 2890 | |
| 86-74-8 | Carbazole | NA * | µg/kg | 117 | | 207 | | 294 | U | 294 | U | 74.4 | U |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 1620 | | 1500 | | 5750 | B | 6710 | B | 1650 | |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 86 | U | 86 | U | 87.7 | U | 87.7 | U | 22.2 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 149 | U | 149 | U | 284 | U | 284 | U | 71.9 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 230 | J | 144 | J | 679 | B | 771 | B | 372 | |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 111 | U | 111 | U | 78.9 | U | 78.9 | U | 20 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 1450 | | 1520 | | 4860 | | 5660 | | 1220 | |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 455 | | 396 | | 134 | U | 134 | U | 33.9 | U |
| 120-12-7 | Anthracene | 50000* | µg/kg | 576 | | 497 | | 97.9 | U | 97.9 | U | 24.8 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 846 | | 821 | | 57.5 | U | 57.5 | U | 14.5 | U |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 1810 | | 3010 | | 96 | U | 96 | U | 24.3 | U |
| 86-73-7 | Fluorene | 50000* | µg/kg | 146 | J | 232 | | 124 | U | 124 | U | 31.5 | U |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 79.2 | J | 151 | | 118 | U | 118 | U | 29.9 | U |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 121 | J | 193 | | 139 | U | 139 | U | 35.1 | U |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 1010 | | 2110 | | 107 | U | 107 | U | 27.2 | U |
| 129-00-0 | Pyrene | 50000* | µg/kg | 2980 | | 3490 | | 5000 | | 5800 | | 1440 | |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | | | | | | | | | | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | 1020 | | 1300 | | 88.6 | U | 88.6 | U | 22.4 | U |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 1300 | | 1630 | | 61.6 | U | 61.6 | U | 15.6 | U |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 524 | | 742 | | 92.2 | U | 92.2 | U | 23.3 | U |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | 1060 | | 1250 | | 68.6 | U | 68.6 | U | 17.4 | U |
| 218-01-9 | Chrysene | 400 | µg/kg | 1000 | | 1300 | | 94.4 | U | 94.4 | U | 23.9 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 700 | | 787 | | 60 | U | 60 | U | 15.2 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | 205 | | 212 | | 60.3 | U | 60.3 | U | 15.2 | U |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | | | | | | | | | | |
| | **Total PAHs** | | | | | | | | | | | | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 4260 | | 5130 | | 10100 | | 9280 | | 5610 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 1.38 | | 1.72 | | 1.97 | | 1.5 | | 2 | |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.88 | | 1 | | 0.96 | | 1.1 | | 0.48 | |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 102 | | 115 | | 144 | | 154 | | 111 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.89 | | 1.23 | | 1.36 | | 1.17 | | 0.55 | |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.054 | J | 0.097 | | 0.022 | J | 0.073 | J | 0.067 | U |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 4570 | | 5800 | | 1770 | | 1880 | | 1020 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 13.8 | | 16.5 | | 24.3 | | 23.1 | | 16.2 | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 18.6 | | 22.2 | | 23.4 | | 23.8 | | 23.2 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 21.9 | | 26.3 | | 15.4 | | 16.6 | | 17.4 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | 7290 | | 8620 | | 7640 | | 6480 | | 7890 | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 26.9 | | 32.7 | | 4.35 | | 4.54 | | 3.2 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | 2990 | | 3830 | | 2320 | | 2310 | | 3040 | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 142 | | 147 | | 72 | | 70.7 | | 164 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.53 | | 0.53 | | 0.31 | | 0.31 | | 0.22 | |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 21 | | 24.9 | | 26.5 | | 26.8 | | 25.1 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 1120 | | 1180 | | 491 | | 430 | | 1290 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.25 | U | 0.25 | U | 0.34 | U | 0.34 | U | 0.26 | U |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.081 | U | 0.081 | U | 0.12 | | 0.62 | | 0.18 | |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 159 | | 205 | | 47.2 | | 44.9 | | 400 | |

TABLE 4-2
SOIL QC SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04270-014 | | 01-04270-015 | | 01-03882-013 | | -03882-013 MS | | 01-03839-001 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-11 MS | | SB-11 MSD | | SB-21 MS | | SB-21 MSD | | SB-24 MS | |
| | Depth: | Objectives / | | 2' - 4' | | 2' - 4' | | 10' - 11' | | 10' - 11' | | 2' - 3' | |
| | Laboratory ID: | Eastern USA | | K9230-4M | | K9230-4N | | K9162-4M | | K9162-4N | | K9155-1M | |
| | Sampling Date: | Background | | 06/01/2001 | | 06/01/2001 | | 04/24/2001 | | 04/24/2001 | | 04/19/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.21 | U | 0.21 | U | 0.29 | U | 0.29 | U | 0.22 | U |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 24.6 | | 29.6 | | 35.8 | | 36.1 | | 30.4 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | 64.7 | | 70.4 | | 49.5 | | 50.3 | | 39.5 | |
| 57-12-5 | Cyanide | | mg/kg | 5.27 | | 5.08 | | 6.91 | | 6.64 | | 5.28 | |
| | % Solids | | % | 92.6 | | 92.6 | | 68.2 | | 68.2 | | 89.8 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL QC SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03839-001 | | 01-04230-011 | | 01-04230-012 | | 01-04388-005 | | 01-04388-006 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-24 MSD | | SB-28 MS | | SB-28 MSD | | SB-29 MS | | SB-29 MSD | |
| | Depth: | Objectives / | | 2' - 3' | | 50' - 52' | | 50' - 52' | | 3' - 4' | | 3' - 4' | |
| | Laboratory ID: | Eastern USA | | K9155-1N | | | | | | K9286-4M | | K9286-4N | |
| | Sampling Date: | Background | | 04/19/2001 | | 5/24/2001 | | 5/24/2001 | | 06/26/2001 | | 06/26/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 197 | | <40 | U | <40 | U | 146 | | 161 | |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 179 | U | <82 | U | <81 | U | 10 | U | 8.72 | U |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 95 | U | <40 | U | <40 | U | 7.14 | U | 6.22 | U |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 39.8 | U | <40 | U | <40 | U | 8.93 | U | 7.78 | U |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 90.1 | U | <40 | U | <40 | U | 11.1 | U | 9.71 | U |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 20.9 | U | <40 | U | <40 | U | 6.67 | U | 5.81 | U |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 281 | | <40 | U | <40 | U | 117 | | 110 | |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.4 | U | <12 | U | <12 | U | 0.42 | U | 0.42 | U |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.19 | U | <12 | U | <12 | U | 0.2 | U | 0.2 | U |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.22 | U | <12 | U | <12 | U | 0.24 | U | 0.24 | U |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.37 | U | <12 | U | <12 | U | 0.39 | U | 0.39 | U |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 2.1 | B | 2 | JB | 2 | JB | 0.26 | U | 0.26 | U |
| 67-64-1 | Acetone | 200 | µg/kg | 2.74 | U | 10 | JB | 6 | JB | 5.9 | U | 5.9 | U |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 0.22 | U | <12 | U | <12 | U | 0.24 | U | 0.24 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 39 | | <12 | U | <12 | U | 67 | | 68.3 | |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.17 | U | <12 | U | <12 | U | 0.18 | U | 0.18 | U |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.17 | U | <12 | U | <12 | U | 0.18 | U | 0.18 | U |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.19 | U | <12 | U | <12 | U | 0.2 | U | 0.2 | U |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.18 | U | <12 | U | <12 | U | 0.19 | U | 0.19 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.24 | U | <12 | U | <12 | U | 0.26 | U | 0.26 | U |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 4.53 | U | <12 | U | <12 | U | 4.81 | U | 4.81 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.16 | U | <12 | U | <12 | U | 0.17 | U | 0.17 | U |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.23 | U | <12 | U | <12 | U | 0.25 | U | 0.25 | U |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.2 | U | <12 | U | <12 | U | 0.21 | U | 0.21 | U |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.16 | U | <12 | U | <12 | U | 0.17 | U | 0.17 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.2 | U | <12 | U | <12 | U | 0.21 | U | 0.21 | U |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 41.1 | | <12 | U | <12 | U | 58.3 | | 64.5 | |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.27 | U | <12 | U | <12 | U | 0.28 | U | 0.28 | U |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.21 | U | <12 | U | <12 | U | 0.22 | U | 0.22 | U |
| 71-43-2 | Benzene | 60 | µg/kg | 45 | | <12 | U | <12 | U | 69.6 | | 76.2 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.24 | U | <12 | U | <12 | U | 0.26 | U | 0.26 | U |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.27 | U | <12 | U | <12 | U | 0.28 | U | 0.28 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 1.89 | U | <12 | U | <12 | U | 5.9 | U | 5.9 | U |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 1.64 | U | <12 | U | <12 | U | 5.9 | U | 5.9 | U |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.2 | U | <12 | U | <12 | U | 0.21 | U | 0.21 | U |
| 108-88-3 | Toluene | 1500 | µg/kg | 42 | | <12 | U | <12 | U | 58 | | 61.8 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.22 | U | <12 | U | <12 | U | 0.24 | U | 0.24 | U |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 42.7 | | <12 | U | <12 | U | 47.6 | | 52 | |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 0.12 | U | <12 | U | <12 | U | 15 | | 1.2 | |
| 100-42-5 | Styrene | NA * | µg/kg | 0.2 | U | <12 | U | <12 | U | 0.21 | U | 0.21 | U |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 0.89 | | <12 | U | <12 | U | 14.5 | | 1.9 | |
| 95-47-6 | o-xylene | 1200 | µg/kg | 0.2 | U | <12 | U | <12 | U | 2.8 | | 0.72 | |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | | | | | | | | | | | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 1980 | | <410 | U | <410 | U | 5160 | | 5920 | |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 34.8 | U | <410 | U | <410 | U | 90.7 | U | 90.7 | U |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 1960 | | <410 | U | <410 | U | 4820 | | 5580 | |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 38 | U | <410 | U | <410 | U | 92.9 | U | 92.9 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 1010 | | <410 | U | <410 | U | 2710 | | 3180 | |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 37.3 | U | <410 | U | <410 | U | 99.6 | U | 99.6 | U |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 30.8 | U | <410 | U | <410 | U | 89.3 | U | 89.3 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 40.2 | U | <410 | U | <410 | U | 94.2 | U | 94.2 | U |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 29.8 | U | <410 | U | <410 | U | 89.4 | U | 89.4 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 1090 | | <410 | U | <410 | U | 2790 | | 3300 | |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 38.2 | U | <410 | U | <410 | U | 79.2 | U | 79.2 | U |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 41.8 | U | <410 | U | <410 | U | 98.5 | U | 98.5 | U |
| 78-59-1 | Isophorone | 4400 | µg/kg | 38.3 | U | <410 | U | <410 | U | 80.3 | U | 80.3 | U |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 29.1 | U | <410 | U | <410 | U | 74.7 | U | 74.7 | U |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 17.6 | U | <410 | U | <410 | U | 69.9 | U | 69.9 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 35.1 | U | <410 | U | <410 | U | 91.8 | U | 91.8 | U |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 30.5 | U | <410 | U | <410 | U | 82.6 | U | 82.6 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 1110 | | <410 | U | <410 | U | 3150 | | 3780 | |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 38.4 | U | <410 | U | <410 | U | 49.9 | U | 49.9 | U |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 37 | U | <410 | U | <410 | U | 94.2 | U | 94.2 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 2130 | | <410 | U | <410 | U | 5410 | | 6370 | |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 30.9 | U | <410 | U | <410 | U | 41.7 | U | 41.7 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 29.4 | U | <410 | U | <410 | U | 83 | U | 83 | U |

TABLE 4-2
SOIL QC SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03839-001 | | 01-04230-011 | | 01-04230-012 | | 01-04388-005 | | 01-04388-006 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-24 MSD | | SB-28 MS | | SB-28 MSD | | SB-29 MS | | SB-29 MSD | |
| | Depth: | Objectives / | | 2' - 3' | | 50' - 52' | | 50' - 52' | | 3' - 4' | | 3' - 4' | |
| | Laboratory ID: | Eastern USA | | K9155-1N | | | | | | K9286-4M | | K9286-4N | |
| | Sampling Date: | Background | | 04/19/2001 | | 5/24/2001 | | 5/24/2001 | | 06/26/2001 | | 06/26/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 28.3 | U | <1000 | U | <1000 | U | 73.9 | U | 73.9 | U |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 33.9 | U | <410 | U | <410 | U | 96.4 | U | 96.4 | U |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 26.6 | U | <1000 | U | <1000 | U | 72.4 | U | 72.4 | U |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 32.4 | U | <410 | U | <410 | U | 96.2 | U | 96.2 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 29.9 | U | <410 | U | <410 | U | 71.4 | U | 71.4 | U |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 28.6 | U | <1000 | U | <1000 | U | 46.1 | U | 46.1 | U |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 34 | U | <1000 | U | <1000 | U | 68.3 | U | 68.3 | U |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 2450 | | <1000 | U | <1000 | U | 4450 | | 5970 | |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 32.4 | U | <410 | U | <410 | U | 99.1 | U | 99.1 | U |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 1010 | | <410 | U | <410 | U | 2640 | | 3430 | |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 20.8 | U | <410 | U | <410 | U | 83.4 | | 63.2 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 33 | U | <410 | U | <410 | U | 114 | U | 114 | U |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 25 | U | <1000 | U | <1000 | U | 53.1 | U | 53.1 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 31.5 | U | <1000 | U | <1000 | U | 89.7 | U | 89.7 | U |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 29.7 | U | <410 | U | <410 | U | 94.4 | U | 94.4 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 30.1 | U | <410 | U | <410 | U | 86 | U | 86 | U |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 33 | U | <410 | U | <410 | U | 84.4 | U | 84.4 | U |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 2310 | | <1000 | U | <1000 | U | 3520 | | 5190 | |
| 86-74-8 | Carbazole | NA * | µg/kg | 74.4 | U | <410 | U | <410 | U | NA | | NA | |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 1370 | | <410 | U | 21 | J | 3820 | B | 4550 | B |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 22.2 | U | <410 | U | <410 | U | 56.2 | U | 56.2 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 71.9 | U | <410 | U | <410 | U | 97.3 | U | 97.3 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 216 | | 25 | J | 65 | J | 432 | B | 88.1 | JB |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 20 | U | <410 | U | <410 | U | 72.4 | U | 72.4 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 1120 | | <410 | U | <410 | U | 3170 | | 3700 | |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 33.9 | U | <410 | U | <410 | U | 94.5 | U | 94.5 | U |
| 120-12-7 | Anthracene | 50000* | µg/kg | 24.8 | U | <410 | U | <410 | U | 84.4 | U | 84.4 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 14.5 | U | <410 | U | <410 | U | 62.3 | U | 62.3 | U |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 24.3 | U | <410 | U | <410 | U | 42.3 | J | 25.9 | J |
| 86-73-7 | Fluorene | 50000* | µg/kg | 31.5 | U | <410 | U | <410 | U | 103 | U | 103 | U |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 29.9 | U | <410 | U | <410 | U | 82.8 | U | 82.8 | U |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 35.1 | U | <410 | U | <410 | U | 97.3 | U | 97.3 | U |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 27.2 | U | <410 | U | <410 | U | 47 | J | 82.7 | U |
| 129-00-0 | Pyrene | 50000* | µg/kg | 1190 | | <410 | U | <410 | U | 3950 | | 4670 | |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | | | | | | | | | | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | 22.4 | U | <410 | U | <410 | U | 59 | U | 59 | U |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 15.6 | U | <410 | U | <410 | U | 96.5 | U | 96.5 | U |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 23.3 | U | <410 | U | <410 | U | 78.3 | U | 78.3 | U |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | 17.4 | U | <410 | U | <410 | U | 63.9 | U | 63.9 | U |
| 218-01-9 | Chrysene | 400 | µg/kg | 23.9 | U | <410 | U | <410 | U | 58.8 | U | 58.8 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 15.2 | U | <410 | U | <410 | U | 74.7 | U | 74.7 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | 15.2 | U | <410 | U | <410 | U | 70.3 | U | 70.3 | U |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | | | | | | | | | | |
| | **Total PAHs** | | | | | | | | | | | | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 5180 | | 7450 | | 3910 | | 5530 | | 5130 | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 2.2 | | <0.5 | U | <0.48 | U | 50.1 | | 49.4 | |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.47 | | 0.85 | | <0.36 | U | 287 | | 277 | |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 108 | | 69.7 | | 32.4 | | 309 | | 301 | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 0.65 | | 0.14 | | <0.12 | U | 7.33 | | 7.22 | |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.067 | U | <0.13 | U | <0.12 | U | 12.1 | | 11.6 | |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 1470 | | 31100 | | 26700 | | 880 | | 829 | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 15.4 | | 15.6 | | 9.1 | | 36.2 | | 34.8 | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 23.1 | | 8.1 | | 4.6 | | 76.2 | | 75.4 | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 17.4 | | 17.7 | | 12.5 | | 44.4 | | 44.4 | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | 7480 | | 15600 | | 9140 | | 7900 | | 7670 | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 3.83 | | 3.2 | | 2.1 | | 86.6 | | 83.1 | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | 3120 | | 19600 | | 15200 | | 2300 | | 2060 | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 166 | | 150 | | 92.1 | | 282 | | 336 | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.21 | | <0.041 | U | <0.04 | U | 0.34 | | 0.29 | |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 24.3 | | 12.8 | | 7.20 | | 77.6 | | 79 | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 1160 | | 4250 | | 1800 | | 814 | | 725 | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.26 | U | <1.1 | U | <1.1 | U | 280 | | 270 | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.23 | | <0.13 | U | <0.12 | U | 4.99 | | 4.9 | |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 376 | | 277 | | 264 | | 59.7 | | 56.2 | |

TABLE 4-2
SOIL QC SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03839-001 | | 01-04230-011 | | 01-04230-012 | | 01-04388-005 | | 01-04388-006 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-24 MSD | | SB-28 MS | | SB-28 MSD | | SB-29 MS | | SB-29 MSD | |
| | Depth: | Objectives / | | 2' - 3' | | 50' - 52' | | 50' - 52' | | 3' - 4' | | 3' - 4' | |
| | Laboratory ID: | Eastern USA | | K9155-1N | | | | | | K9286-4M | | K9286-4N | |
| | Sampling Date: | Background | | 04/19/2001 | | 5/24/2001 | | 5/24/2001 | | 06/26/2001 | | 06/26/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.22 | U | 0.54 | | 0.37 | | 272 | | 265 | |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 30.2 | | 23.0 | | 14.2 | | 80.6 | | 78.7 | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | 37.8 | | 45.2 | | 25.4 | | 97.8 | | 98.9 | |
| 57-12-5 | Cyanide | | mg/kg | 4.83 | | <0.03 | U | <0.03 | U | 4.65 | | 4.54 | |
| | % Solids | | % | 89.8 | | 79.6 | | 81.0 | | 85.1 | | 85.1 | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL QC SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-03839-001 | | 01-04230-011 | | 01-04230-012 | | 01-04388-005 | | 01-04388-006 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-24 MSD | | SB-28 MS | | SB-28 MSD | | SB-29 MS | | SB-29 MSD | |
| | Depth: | Objectives / | | 2' - 3' | | 50' - 52' | | 50' - 52' | | 3' - 4' | | 3' - 4' | |
| | Laboratory ID: | Eastern USA | | K9155-1N | | | | | | K9286-4M | | K9286-4N | |
| | Sampling Date: | Background | | 04/19/2001 | | 5/24/2001 | | 5/24/2001 | | 06/26/2001 | | 06/26/2001 | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | Soil | |
| | Validated: | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | | µg/kg | | | | | | | 0.5 | U | 0.5 | U |
| 75-45-6 | Chlorodifluoromethane | | µg/kg | | | | | | | 0.38 | U | 0.38 | U |
| 75-69-4 | Trichlorofluoromethane | | µg/kg | | | | | | | 0.31 | U | 0.31 | U |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | | µg/kg | | | | | | | 0.29 | U | 0.29 | U |
| 1634-04-4 | Methyl t-butyl ether | | µg/kg | | | | | | | 0.42 | U | 0.42 | U |
| 590-20-7 | 2,2-Dichloropropane | | µg/kg | | | | | | | 0.28 | U | 0.28 | U |
| 74-97-5 | Bromochloromethane | | µg/kg | | | | | | | 0.2 | U | 0.2 | U |
| 563-58-6 | 1,1-Dichloropropene | | µg/kg | | | | | | | 0.52 | U | 0.52 | U |
| 74-95-3 | Dibromomethane | | µg/kg | | | | | | | 0.37 | U | 0.37 | U |
| 110-75-8 | 2-Chloroethylvinylether | | µg/kg | | | | | | | 0.37 | U | 0.37 | U |
| 142-28-9 | 1,3-Dichloropropane | | µg/kg | | | | | | | 0.45 | U | 0.45 | U |
| 106-93-4 | 1,2-Dibromoethane | | µg/kg | | | | | | | 0.28 | U | 0.28 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | | µg/kg | | | | | | | 0.2 | U | 0.2 | U |
| 98-82-8 | Isopropylbenzene | | µg/kg | | | | | | | 1.4 | | 0.12 | U |
| 108-86-1 | Bromobenzene | | µg/kg | | | | | | | 0.2 | U | 0.2 | U |
| 103-65-1 | n-Propylbenzene | | µg/kg | | | | | | | 1.1 | | 0.17 | U |
| 96-18-4 | 1,2,3-Trichloropropane | | µg/kg | | | | | | | 0.6 | U | 0.6 | U |
| 622-96-8 | p-Ethyltoluene | | µg/kg | | | | | | | 0.2 | U | 0.2 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | | µg/kg | | | | | | | 2.7 | | 0.63 | |
| 95-49-8 | 2-Chlorotoluene | | µg/kg | | | | | | | 0.094 | U | 0.094 | U |
| 106-43-4 | 4-Chlorotoluene | | µg/kg | | | | | | | 0.17 | U | 0.17 | U |
| 98-06-6 | tert-Butylbenzene | | µg/kg | | | | | | | 0.18 | U | 0.18 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | | µg/kg | | | | | | | 9.3 | | 2 | |
| 135-98-8 | sec-Butylbenzene | | µg/kg | | | | | | | 0.14 | U | 0.14 | U |
| 99-87-6 | 4-Isopropyltoluene | | µg/kg | | | | | | | 0.21 | U | 0.21 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | µg/kg | | | | | | | 0.21 | U | 0.21 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | µg/kg | | | | | | | 0.26 | U | 0.26 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | µg/kg | | | | | | | 0.15 | U | 0.15 | U |
| 105-05-5 | p-Diethylbenzene | | µg/kg | | | | | | | 0.19 | U | 0.19 | U |
| 104-51-8 | n-Butylbenzene | | µg/kg | | | | | | | 0.17 | U | 0.17 | U |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | | µg/kg | | | | | | | 0.29 | U | 0.29 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | µg/kg | | | | | | | 0.79 | U | 0.79 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | µg/kg | | | | | | | 0.45 | U | 0.45 | U |
| 87-68-3 | Hexachlorobutadiene | | µg/kg | | | | | | | 0.17 | U | 0.17 | U |
| 91-20-3 | Naphthalene | | µg/kg | | | | | | | 33.8 | | 6 | |
| 87-61-6 | 1,2,3-Trichlorobenzene | | µg/kg | | | | | | | 0.44 | U | 0.44 | U |
| 100-51-6 | Benzyl alcohol | | µg/kg | | | | | | | 89 | U | 89 | U |
| 65-85-0 | Benzoic acid | | µg/kg | | | | | | | 59.2 | U | 59.2 | U |

TABLE 4-2
SOIL QC SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04362-015 | | 01-04362-016 | | 00-08470-004 | | 00-08470-004 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-30 MS | | SB-30 MSD | | MW-6 MS | | MW-6 MSD | | | |
| | Depth: | Objectives / | | 26' - 28' | | 26' - 28' | | 8.5'-9.5' | | 8.5'-9.5' | | | |
| | Laboratory ID: | Eastern USA | | K9266-5M | | K9266-5N | | J6936-4M | | J6936-4N | | | |
| | Sampling Date: | Background | | 06/20/2001 | | 06/20/2001 | | 08/31/2000 | | 08/31/2000 | | | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | | |
| | Validated: | | | No | | No | | No | | No | | | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | 1000 | µg/kg | 264 | | 254 | | 78.5 | | 65.1 | | | |
| 11104-28-2 | PCB 1221 | 1000 | µg/kg | 8.83 | U | 8.8 | U | 10.2 | U | 10.2 | U | | |
| 11141-16-5 | PCB 1232 | 1000 | µg/kg | 6.3 | U | 6.28 | U | 2.27 | U | 2.27 | U | | |
| 53469-21-9 | PCB 1242 | 1000 | µg/kg | 7.88 | U | 7.86 | U | 1.71 | U | 1.71 | U | | |
| 12672-29-6 | PCB 1248 | 1000 | µg/kg | 9.83 | U | 9.8 | U | 3.84 | U | 3.84 | U | | |
| 11097-69-1 | PCB 1254 | 1000 | µg/kg | 5.89 | U | 5.87 | U | 5.81 | U | 5.81 | U | | |
| 11096-82-5 | PCB 1260 | 1000 | µg/kg | 234 | | 192 | | 78.4 | | 81 | | | |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | NA * | µg/kg | 0.39 | U | 0.39 | U | 1.81 | U | 1.81 | U | | |
| 74-83-9 | Bromomethane | NA * | µg/kg | 0.19 | U | 0.19 | U | 2.08 | U | 2.08 | U | | |
| 75-01-4 | Vinyl Chloride | 200 | µg/kg | 0.22 | U | 0.22 | U | 1.81 | U | 1.81 | U | | |
| 75-00-3 | Chloroethane | 1900 | µg/kg | 0.36 | U | 0.36 | U | 1.01 | U | 1.01 | U | | |
| 75-09-2 | Methylene Chloride | 100 | µg/kg | 10.5 | B | 10 | B | 18.5 | | 18.8 | | | |
| 67-64-1 | Acetone | 200 | µg/kg | 5.45 | U | 5.45 | U | 23.1 | U | 23.1 | U | | |
| 75-15-0 | Carbon disulfide | 2700 | µg/kg | 0.22 | U | 0.22 | U | 1.44 | U | 1.44 | U | | |
| 75-35-4 | 1,1-Dichloroethene | 400 | µg/kg | 57.2 | | 56 | | 222 | | 218 | | | |
| 75-34-3 | 1,1-Dichloroethane | 200 | µg/kg | 0.16 | U | 0.16 | U | 0.85 | U | 0.85 | U | | |
| 156-60-5 | t-1,2-Dichloroethene | 300 | µg/kg | 0.16 | U | 0.16 | U | 2.19 | U | 2.19 | U | | |
| 156-59-2 | c-1,2-Dichloroethene | 300 | µg/kg | 0.19 | U | 0.19 | U | 2.66 | U | 2.66 | U | | |
| 67-66-3 | Chloroform | 300 | µg/kg | 0.17 | U | 0.17 | U | 0.91 | U | 0.91 | U | | |
| 107-06-2 | 1,2-Dichloroethane | 100 | µg/kg | 0.24 | U | 0.24 | U | 1.6 | U | 1.6 | U | | |
| 78-93-3 | 2-Butanone | 300 | µg/kg | 4.45 | U | 4.45 | U | 13.4 | U | 13.4 | U | | |
| 71-55-6 | 1,1,1-Trichloroethane | 800 | µg/kg | 0.15 | U | 0.15 | U | 1.49 | U | 1.49 | U | | |
| 56-23-5 | Carbon Tetrachloride | 600 | µg/kg | 0.23 | U | 0.23 | U | 1.44 | U | 1.44 | U | | |
| 75-27-4 | Bromodichloromethane | NA * | µg/kg | 0.2 | U | 0.2 | U | 1.01 | U | 1.01 | U | | |
| 78-87-5 | 1,2-Dichloropropane | NA * | µg/kg | 0.15 | U | 0.15 | U | 0.96 | U | 0.96 | U | | |
| 10061-01-5 | cis-1,3-Dichloropropene | 300 | µg/kg | 0.2 | U | 0.2 | U | 1.33 | U | 1.33 | U | | |
| 79-01-6 | Trichloroethene | 700 | µg/kg | 49.5 | B | 47.7 | | 257 | | 250 | | | |
| 124-48-1 | Dibromochloromethane | NA * | µg/kg | 0.26 | U | 0.26 | U | 1.55 | U | 1.55 | U | | |
| 79-00-5 | 1,1,2-Trichloroethane | NA * | µg/kg | 0.21 | U | 0.21 | U | 2.51 | U | 2.51 | U | | |
| 71-43-2 | Benzene | 60 | µg/kg | 55.2 | | 54.6 | | 357 | | 337 | | | |
| 10061-02-6 | trans-1,3-Dichloropropene | 300 | µg/kg | 0.24 | U | 0.24 | U | 2.19 | U | 2.19 | U | | |
| 75-25-2 | Bromoform | NA * | µg/kg | 0.26 | U | 0.26 | U | 2.56 | U | 2.56 | U | | |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | µg/kg | 5.45 | U | 5.45 | U | 7.89 | U | 7.89 | U | | |
| 591-78-6 | 2-Hexanone | NA * | µg/kg | 5.45 | U | 5.45 | U | 8.26 | U | 8.26 | U | | |
| 127-18-4 | Tetrachloroethene | 1400 | µg/kg | 0.2 | U | 0.2 | U | 1.49 | U | 1.49 | U | | |
| 108-88-3 | Toluene | 1500 | µg/kg | 49.7 | | 48.3 | | 286 | | 281 | | | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 600 | µg/kg | 0.22 | U | 0.22 | U | 2.66 | U | 2.66 | U | | |
| 108-90-7 | Chlorobenzene | 1700 | µg/kg | 47.8 | | 45.7 | | 269 | | 261 | | | |
| 100-41-4 | Ethylbenzene | 5500 | µg/kg | 0.12 | U | 0.12 | U | 64.6 | | 20.3 | | | |
| 100-42-5 | Styrene | NA * | µg/kg | 0.2 | U | 0.2 | U | 1.55 | U | 1.55 | U | | |
| 108-38-3 | m,p-xylene | 1200 | µg/kg | 0.78 | | 0.74 | | 11.7 | | 5.49 | | | |
| 95-47-6 | o-xylene | 1200 | µg/kg | 0.2 | U | 0.2 | U | 20 | | 7.04 | | | |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | | | | | | | | | | | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | 30 | µg/kg | 4700 | | 4180 | | 5810 | | 7090 | | | |
| 111-44-4 | bis(2-Chloroethyl)ether | NA * | µg/kg | 83.9 | U | 83.9 | U | 75.6 | U | 75.6 | U | | |
| 95-57-8 | 2-Chlorophenol | 800 | µg/kg | 4650 | | 4260 | | 5570 | | 7450 | | | |
| 541-73-1 | 1,3-Dichlorobenzene | 1600 | µg/kg | 86 | U | 86 | U | 75.5 | U | 75.5 | U | | |
| 106-46-7 | 1,4-Dichlorobenzene | 8500 | µg/kg | 2360 | | 2210 | | 2790 | | 3560 | | | |
| 95-50-1 | 1,2-Dichlorobenzene | 7900 | µg/kg | 92.2 | U | 92.2 | U | 77.9 | U | 77.9 | U | | |
| 95-48-7 | 2-Methylphenol | 100 | µg/kg | 82.6 | U | 82.6 | U | 61.9 | U | 61.9 | U | | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | NA * | µg/kg | 87.2 | U | 87.2 | U | 45.1 | U | 45.1 | U | | |
| 106-44-5 | 3+4-Methylphenol | NA * | µg/kg | 82.7 | U | 82.7 | U | 50.7 | U | 50.7 | U | | |
| 621-64-7 | N-Nitrosodi-n-propylamine | NA * | µg/kg | 2540 | | 2260 | | 2880 | | 3670 | | | |
| 67-72-1 | Hexachloroethane | NA * | µg/kg | 73.3 | U | 73.3 | U | 78.5 | U | 78.5 | U | | |
| 98-95-3 | Nitrobenzene | 200 | µg/kg | 91.1 | U | 91.1 | U | 86.6 | U | 86.6 | U | | |
| 78-59-1 | Isophorone | 4400 | µg/kg | 74.2 | U | 74.2 | U | 58.3 | U | 58.3 | U | | |
| 88-75-5 | 2-Nitrophenol | 330 | µg/kg | 69.1 | U | 69.1 | U | 66.5 | U | 66.5 | U | | |
| 105-67-9 | 2,4-Dimethylphenol | NA * | µg/kg | 64.7 | U | 64.7 | U | 37.3 | U | 37.3 | U | | |
| 111-91-1 | bis(2-Chloroethoxy)methane | NA * | µg/kg | 84.9 | U | 84.9 | U | 68.4 | U | 68.4 | U | | |
| 120-83-2 | 2,4-Dichlorophenol | 400 | µg/kg | 76.4 | U | 76.4 | U | 37.3 | J | 48 | J | | |
| 120-82-1 | 1,2,4-Trichlorobenzene | NA * | µg/kg | 2690 | | 2420 | | 3280 | | 3590 | | | |
| 106-47-8 | 4-Chloroaniline | 220 | µg/kg | 46.2 | U | 46.2 | U | 78.4 | U | 78.4 | U | | |
| 87-68-3 | Hexachlorobutadiene | NA * | µg/kg | 87.2 | U | 87.2 | U | 71.9 | U | 71.9 | U | | |
| 59-50-7 | 4-Chloro-3-methylphenol | 240 | µg/kg | 4900 | | 4320 | | 7290 | | 7360 | | | |
| 77-47-4 | Hexachlorocyclopentadiene | NA * | µg/kg | 38.6 | U | 38.6 | U | 117 | U | 117 | U | | |
| 88-06-2 | 2,4,6-Trichlorophenol | NA * | µg/kg | 76.7 | U | 76.7 | U | 78.5 | U | 78.5 | U | | |

TABLE 4-2
SOIL QC SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04362-015 | | 01-04362-016 | | 00-08470-004 | | 00-08470-004 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-30 MS | | SB-30 MSD | | MW-6 MS | | MW-6 MSD | | | |
| | Depth: | Objectives / | | 26' - 28' | | 26' - 28' | | 8.5'-9.5' | | 8.5'-9.5' | | | |
| | Laboratory ID: | Eastern USA | | K9266-5M | | K9266-5N | | J6936-4M | | J6936-4N | | | |
| | Sampling Date: | Background | | 06/20/2001 | | 06/20/2001 | | 08/31/2000 | | 08/31/2000 | | | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | | |
| | Validated: | | | No | | No | | No | | No | | | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 95-95-4 | 2,4,5-Trichlorophenol | 100 | µg/kg | 68.4 | U | 68.4 | U | 72.7 | U | 72.7 | U | | |
| 91-58-7 | 2-Chloronaphthalene | NA * | µg/kg | 89.1 | U | 89.1 | U | 72.8 | U | 72.8 | U | | |
| 88-74-4 | 2-Nitroaniline | 430 | µg/kg | 67 | U | 67 | U | 50.9 | U | 50.9 | U | | |
| 131-11-3 | Dimethylphthalate | 2000 | µg/kg | 89 | U | 89 | U | 65.1 | U | 65.1 | U | | |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | µg/kg | 66.1 | U | 66.1 | U | 53.7 | U | 53.7 | U | | |
| 99-09-2 | 3-Nitroaniline | 500 | µg/kg | 42.6 | U | 42.6 | U | 45.8 | U | 45.8 | U | | |
| 51-28-5 | 2,4-Dinitrophenol | 200 | µg/kg | 63.2 | U | 63.2 | U | 64.2 | U | 64.2 | U | | |
| 100-02-7 | 4-Nitrophenol | 100 | µg/kg | 4250 | | 3630 | | 7060 | | 6800 | | | |
| 132-64-9 | Dibenzofuran | 6200 | µg/kg | 91.6 | U | 91.6 | U | 69.3 | U | 69.3 | U | | |
| 121-14-2 | 2,4-Dinitrotoluene | NA * | µg/kg | 2350 | | 2030 | | 3230 | | 3260 | | | |
| 84-66-2 | Diethylphthalate | 7100 | µg/kg | 60.9 | | 58.5 | U | 51.1 | U | 51.1 | U | | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | NA * | µg/kg | 105 | U | 105 | U | 71.1 | U | 71.1 | U | | |
| 100-01-6 | 4-Nitroaniline | NA * | µg/kg | 49.1 | U | 49.1 | U | 68.2 | U | 68.2 | U | | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | NA * | µg/kg | 82.9 | U | 82.9 | U | 70.1 | U | 70.1 | U | | |
| 86-30-6 | N-Nitrosodiphenylamine | NA * | µg/kg | 87.3 | U | 87.3 | U | 62.7 | U | 62.7 | U | | |
| 101-55-3 | 4-Bromophenyl phenyl ether | NA * | µg/kg | 79.6 | U | 79.6 | U | 66.7 | U | 66.7 | U | | |
| 118-74-1 | Hexachlorobenzene | 410 | µg/kg | 78 | U | 78 | U | 60.8 | U | 60.8 | U | | |
| 87-86-5 | Pentachlorophenol | 1000 | µg/kg | 4590 | | 4240 | | 7900 | | 5830 | | | |
| 86-74-8 | Carbazole | NA * | µg/kg | 62.1 | U | 62.1 | U | 49.3 | U | 49.3 | U | | |
| 84-74-2 | Di-n-butylphthalate | 8100 | µg/kg | 3230 | | 2740 | | 4400 | | 3520 | | | |
| 85-68-7 | Butylbenzylphthalate | 50000 | µg/kg | 52 | U | 52 | U | 55.1 | U | 55.1 | U | | |
| 91-94-1 | 3,3'-Dichlorobenzidine | NA * | µg/kg | 90 | U | 90 | U | 129 | U | 129 | U | | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50000 | µg/kg | 822 | B | 578 | B | 136 | JB | 123 | JB | | |
| 117-84-0 | Di-n-octylphthalate | 50000 | µg/kg | 67 | U | 67 | U | 57.2 | U | 57.2 | U | | |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 50000* | µg/kg | 2830 | | 2480 | | 4430 | | 4460 | | | |
| 208-96-8 | Acenaphthylene | 41000 | µg/kg | 87.4 | U | 87.4 | U | 193 | | 144 | | | |
| 120-12-7 | Anthracene | 50000* | µg/kg | 28.3 | J | 78 | U | 729 | | 601 | | | |
| 191-24-2 | Benzo(g,h,i)perylene | 50000* | µg/kg | 57.6 | U | 57.6 | U | 216 | | 214 | | | |
| 206-44-0 | Fluoranthene | 50000* | µg/kg | 47.8 | J | 25 | J | 1000 | | 881 | | | |
| 86-73-7 | Fluorene | 50000* | µg/kg | 43.5 | J | 95.4 | U | 535 | | 450 | | | |
| 91-57-6 | 2-Methylnaphthalene | 36400 | µg/kg | 227 | | 76.6 | U | 167 | | 136 | | | |
| 91-20-3 | Naphthalene | 13000 | µg/kg | 80.4 | J | 90 | U | 261 | | 254 | | | |
| 85-01-8 | Phenanthrene | 50000* | µg/kg | 138 | | 52.2 | J | 2140 | | 1670 | | | |
| 129-00-0 | Pyrene | 50000* | µg/kg | 3060 | | 2680 | | 5390 | | 5020 | | | |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | | | | | | | | | | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 224 or MDL | µg/kg | 54.6 | U | 54.6 | U | 634 | | 517 | | | |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | µg/kg | 89.2 | U | 89.2 | U | 252 | | 235 | | | |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | µg/kg | 72.4 | U | 72.4 | U | 328 | | 286 | | | |
| 50-32-8 | Benzo(a)pyrene | 61 or MDL | µg/kg | 59.1 | U | 59.1 | U | 405 | | 391 | | | |
| 218-01-9 | Chrysene | 400 | µg/kg | 54.3 | U | 54.3 | U | 617 | | 507 | | | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3200 | µg/kg | 69.1 | U | 69.1 | U | 192 | | 162 | | | |
| 53-70-3 | Dibenz(a,h)anthracene | 14 or MDL | µg/kg | 65 | U | 65 | U | 72.5 | | 55.4 | | | |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | | | | | | | | | | |
| | **Total PAHs** | | | | | | | | | | | | |
| | **Metals** | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | SB / 33000 | mg/kg | 3190 | | 3150 | | 899 | | 743 | | | |
| 7440-36-0 | Antimony | SB / NA | mg/kg | 4.11 | | 3.83 | | 7.09 | | 6.63 | | | |
| 7440-38-2 | Arsenic | 7.5 or SB / 3-12 | mg/kg | 0.37 | | 0.52 | | 4.52 | | 4.99 | | | |
| 7440-39-3 | Barium | 300 or SB / 15-600 | mg/kg | 120 | | 115 | | 187 | | 189 | | | |
| 7440-41-7 | Beryllium | 0.16 or SB / 0-1.75 | mg/kg | 1.92 | | 1.83 | | 4.56 | | 4.64 | | | |
| 7440-43-9 | Cadmium | 1 or SB / 0.1-1 | mg/kg | 0.071 | | 0.06 | J | 0.57 | | 0.62 | | | |
| 7440-70-2 | Calcium | SB / 130-35000 | mg/kg | 11000 | | 9550 | | 253 | | 226 | | | |
| 7440-47-3 | Chromium | 10 or SB / 1.5-40 | mg/kg | 15.3 | | 15.5 | | 19.8 | | 19.7 | | | |
| 7440-48-4 | Cobalt | 30 or SB / 2.5-60 | mg/kg | 27.4 | | 26.4 | | 45.7 | | 46.3 | | | |
| 7440-50-8 | Copper | 25 or SB / 1-50 | mg/kg | 20.9 | | 20.7 | | 30.6 | | 30 | | | |
| 7439-89-6 | Iron | 2000 or SB/2000-550000 | mg/kg | 5770 | | 5810 | | 1460 | | 1210 | | | |
| 7439-92-1 | Lead | SB / 200-500 | mg/kg | 2.7 | | 2.59 | | 9.95 | | 7.49 | | | |
| 7439-95-4 | Magnesium | SB / 100-5000 | mg/kg | 8080 | | 7130 | | 268 | | 215 | | | |
| 7439-96-5 | Manganese | SB / 50-5000 | mg/kg | 110 | | 110 | | 65 | | 66 | | | |
| 7439-97-6 | Mercury | 0.1 / 0.001-0.2 | mg/kg | 0.2 | | 0.2 | | 0.19 | | 0.2 | | | |
| 7440-02-0 | Nickel | 13 or SB / 0.5-25 | mg/kg | 28.5 | | 27.5 | | 46.2 | | 46.5 | | | |
| 7440-09-7 | Potassium | SB / 8500-43000 | mg/kg | 1420 | | 1350 | | 66.4 | J | 49.9 | J | | |
| 7782-49-2 | Selenium | 2 or SB / 0.1-3.9 | mg/kg | 0.26 | U | 0.26 | U | 0.19 | U | 0.19 | U | | |
| 7440-22-4 | Silver | SB / NA | mg/kg | 0.082 | U | 0.082 | U | 5.56 | | 5.89 | | | |
| 7440-23-5 | Sodium | SB / 6000-8000 | mg/kg | 99.9 | | 104 | | 67.8 | J | 71.7 | J | | |

TABLE 4-2
SOIL QC SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | TAGM 4046 | | 01-04362-015 | | 01-04362-016 | | 00-08470-004 | | 00-08470-004 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Soil Cleanup | | SB-30 MS | | SB-30 MSD | | MW-6 MS | | MW-6 MSD | | | |
| | Depth: | Objectives / | | 26' - 28' | | 26' - 28' | | 8.5'-9.5' | | 8.5'-9.5' | | | |
| | Laboratory ID: | Eastern USA | | K9266-5M | | K9266-5N | | J6936-4M | | J6936-4N | | | |
| | Sampling Date: | Background | | 06/20/2001 | | 06/20/2001 | | 08/31/2000 | | 08/31/2000 | | | |
| | Matrix: | Concentrations | | Soil | | Soil | | Soil | | Soil | | | |
| | Validated: | | | No | | No | | No | | No | | | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 7440-28-0 | Thallium | SB / NA | mg/kg | 0.21 | U | 0.21 | U | 2.53 | | 3 | | | |
| 7440-62-2 | Vanadium | 150 or SB / 1-300 | mg/kg | 29.7 | | 28.8 | | 47.9 | | 48.3 | | | |
| 7440-66-6 | Zinc | 20 or SB / 9-50 | mg/kg | 45.7 | | 44.9 | | 55.4 | | 55.2 | | | |
| 57-12-5 | Cyanide | | mg/kg | 3.97 | | 3.41 | | 5.18 | | 5.2 | | | |
| | % Solids | | % | 92 | | 92 | | 93.8 | | 93.8 | | | |
| | Total Rec.Petr. Hydrocarbons | | mg/kg | NR | | NR | | NR | | NR | | | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available
SB - Site background
MDL - Method Detection Limit
* - Total VOCs<10,000 mg/kg, total SVOCs<500,000 mg/kg

TABLE 4-2
SOIL QC SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | | 00-08386-005 | | 01-03882-014 | | 01-04270-020 | | 01-04272-009 | | 01-04362-018 | | 01-04388-011 | | 00-08386-006 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | | Field | | Field | | Field | | Field | | Field | | Field | | Trip | |
| | Depth: | | Blank | | Blank | | Blank | | Blank | | Blank | | Blank | | Blank | |
| | Laboratory ID: | | J6935-5 | | K9162-5 | | K9231-2 | | K9228-9 | | K9266-7 | | K9286-9 | | J6935-6 | |
| | Sampling Date: | | 08/30/2000 | | 04/24/2001 | | 06/01/2001 | | 06/04/2001 | | 06/20/2001 | | 06/26/2001 | | 08/30/2000 | |
| | Matrix: | | Water | | Water | | Water | | Water | | Water | | Water | | Water | |
| | Validated: | | No | | No | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | Units: | | | | | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | µg/L | 8 | U | 0.1 | U | 0.08 | U | 0.08 | U | 0.08 | U | 0.08 | U | NR | |
| 11104-28-2 | PCB 1221 | µg/L | 3 | U | 0.07 | U | 0.06 | U | 0.06 | U | 0.06 | U | 0.06 | U | NR | |
| 11141-16-5 | PCB 1232 | µg/L | 11 | U | 0.09 | U | 0.05 | U | 0.05 | U | 0.05 | U | 0.05 | U | NR | |
| 53469-21-9 | PCB 1242 | µg/L | 2 | U | 0.01 | U | 0.06 | U | 0.06 | U | 0.06 | U | 0.06 | U | NR | |
| 12672-29-6 | PCB 1248 | µg/L | 9 | U | 0.02 | U | 0.04 | U | 0.04 | U | 0.04 | U | 0.04 | U | NR | |
| 11097-69-1 | PCB 1254 | µg/L | 4 | U | 0.03 | U | 0.03 | U | 0.03 | U | 0.03 | U | 0.03 | U | NR | |
| 11096-82-5 | PCB 1260 | µg/L | 8 | U | 0.05 | U | 0.06 | U | 0.06 | U | 0.06 | U | 0.06 | U | NR | |
| | **Volatiles** | | | | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | µg/L | 0.36 | U | 0.32 | U | 0.49 | U | 0.49 | U | 0.37 | U | 0.49 | U | 0.36 | U |
| 74-83-9 | Bromomethane | µg/L | 0.25 | U | 0.12 | U | 0.43 | U | 0.43 | U | 0.45 | U | 0.43 | U | 0.25 | U |
| 75-01-4 | Vinyl Chloride | µg/L | 0.35 | U | 0.25 | U | 0.1 | U | 0.1 | U | 0.07 | U | 0.1 | U | 0.35 | U |
| 75-00-3 | Chloroethane | µg/L | 0.33 | U | 0.3 | U | 0.61 | U | 0.61 | U | 0.18 | U | 0.61 | U | 0.33 | U |
| 75-09-2 | Methylene Chloride | µg/L | 4.6 | | 0.41 | U | 0.54 | U | 0.54 | U | 0.15 | U | 4.2 | | 5.6 | |
| 67-64-1 | Acetone | µg/L | 1.89 | U | 1.48 | U | 7.3 | | 3.12 | U | 1.44 | U | 3.12 | U | 1.89 | U |
| 75-15-0 | Carbon disulfide | µg/L | 0.15 | U | 0.31 | U | 0.2 | U | 0.2 | U | 0.22 | U | 0.2 | U | 0.15 | U |
| 75-35-4 | 1,1-Dichloroethene | µg/L | 0.21 | U | 0.18 | U | 0.3 | U | 0.3 | U | 0.14 | U | 0.3 | U | 0.21 | U |
| 75-34-3 | 1,1-Dichloroethane | µg/L | 0.14 | U | 0.14 | U | 0.22 | U | 0.22 | U | 0.12 | U | 0.22 | U | 0.14 | U |
| 156-60-5 | t-1,2-Dichloroethene | µg/L | 0.27 | U | 0.22 | U | 0.2 | U | 0.2 | U | 0.14 | U | 0.2 | U | 0.27 | U |
| 156-59-2 | c-1,2-Dichloroethene | µg/L | 0.19 | U | 0.3 | U | 0.21 | U | 0.21 | U | 0.14 | U | 0.21 | U | 0.19 | U |
| 67-66-3 | Chloroform | µg/L | 0.13 | U | 0.15 | U | 0.2 | U | 0.2 | U | 0.15 | U | 0.2 | U | 0.13 | U |
| 107-06-2 | 1,2-Dichloroethane | µg/L | 0.16 | U | 0.2 | U | 0.23 | U | 0.23 | U | 0.13 | U | 0.23 | U | 0.16 | U |
| 78-93-3 | 2-Butanone | µg/L | 1.02 | U | 2.5 | U | 5 | U | 5 | U | 6.25 | U | 5 | U | 1.02 | U |
| 71-55-6 | 1,1,1-Trichloroethane | µg/L | 0.11 | U | 0.2 | U | 0.22 | U | 0.22 | U | 0.16 | U | 0.22 | U | 0.11 | U |
| 56-23-5 | Carbon Tetrachloride | µg/L | 0.18 | U | 0.18 | U | 0.25 | U | 0.25 | U | 0.13 | U | 0.25 | U | 0.18 | U |
| 75-27-4 | Bromodichloromethane | µg/L | 0.18 | U | 0.13 | U | 0.15 | U | 0.15 | U | 0.07 | U | 0.15 | U | 0.18 | U |
| 78-87-5 | 1,2-Dichloropropane | µg/L | 0.16 | U | 0.16 | U | 0.36 | U | 0.36 | U | 0.15 | U | 0.36 | U | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | µg/L | 0.18 | U | 0.15 | U | 0.16 | U | 0.16 | U | 0.07 | U | 0.16 | U | 0.18 | U |
| 79-01-6 | Trichloroethene | µg/L | 0.17 | U | 0.2 | U | 0.16 | U | 0.16 | U | 0.17 | U | 0.16 | U | 0.17 | U |
| 124-48-1 | Dibromochloromethane | µg/L | 0.08 | U | 0.14 | U | 0.11 | U | 0.11 | U | 0.12 | U | 0.11 | U | 0.08 | U |
| 79-00-5 | 1,1,2-Trichloroethane | µg/L | 0.31 | U | 0.2 | U | 0.09 | U | 0.09 | U | 0.2 | U | 0.09 | U | 0.31 | U |
| 71-43-2 | Benzene | µg/L | 0.14 | U | 0.1 | U | 0.16 | U | 0.16 | U | 0.13 | U | 0.16 | U | 0.14 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | µg/L | 0.18 | U | 0.15 | U | 0.08 | U | 0.08 | U | 0.06 | U | 0.08 | U | 0.18 | U |
| 75-25-2 | Bromoform | µg/L | 0.12 | U | 0.09 | U | 0.1 | U | 0.1 | U | 0.09 | U | 0.1 | U | 0.12 | U |
| 108-10-1 | 4-Methyl-2-pentanone | µg/L | 0.51 | U | 0.5 | U | 5 | U | 5 | U | 0.97 | U | 5 | U | 0.51 | U |
| 591-78-6 | 2-Hexanone | µg/L | 0.89 | U | 0.4 | U | 5 | U | 5 | U | 1.48 | U | 5 | U | 0.89 | U |
| 127-18-4 | Tetrachloroethene | µg/L | 0.08 | U | 0.11 | U | 0.24 | U | 0.24 | U | 0.2 | U | 0.24 | U | 0.08 | U |
| 108-88-3 | Toluene | µg/L | 0.16 | U | 0.15 | U | 0.14 | U | 0.14 | U | 0.14 | U | 0.14 | U | 0.16 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | µg/L | 0.13 | U | 0.22 | U | 0.16 | U | 0.16 | U | 0.09 | U | 0.16 | U | 0.13 | U |
| 108-90-7 | Chlorobenzene | µg/L | 0.07 | U | 0.11 | U | 0.15 | U | 0.15 | U | 0.12 | U | 0.15 | U | 0.07 | U |
| 100-41-4 | Ethylbenzene | µg/L | 0.17 | U | 0.19 | U | 0.22 | U | 0.22 | U | 0.18 | U | 0.22 | U | 0.17 | U |
| 100-42-5 | Styrene | µg/L | 0.08 | U | 0.23 | U | 0.17 | U | 0.17 | U | 0.14 | U | 0.17 | U | 0.08 | U |
| 108-38-3 | m,p-xylene | µg/L | 0.17 | U | 0.28 | U | 0.42 | U | 0.42 | U | 0.31 | U | 0.42 | U | 0.17 | U |
| 95-47-6 | o-xylene | µg/L | 0.08 | U | 0.16 | U | 0.2 | U | 0.2 | U | 0.16 | U | 0.2 | U | 0.08 | U |
| | | | | | | | | | | | | | | | | |
| | **Total BTEX** | | | | | | | | | | | | | | | |
| | **Semi-Volatiles** | | | | | | | | | | | | | | | |
| 108-95-2 | Phenol | µg/L | 0.56 | U | 0.52 | U | 0.41 | U | 0.41 | U | 0.9 | | 0.52 | U | NR | |
| 111-44-4 | bis(2-Chloroethyl)ether | µg/L | 1.03 | U | 0.86 | U | 0.82 | U | 0.82 | U | 0.86 | U | 0.86 | U | NR | |
| 95-57-8 | 2-Chlorophenol | µg/L | 0.96 | U | 1.03 | U | 0.76 | U | 0.76 | U | 1.03 | U | 1.03 | U | NR | |
| 541-73-1 | 1,3-Dichlorobenzene | µg/L | 0.99 | U | 1 | U | 0.84 | U | 0.84 | U | 1 | U | 1 | U | NR | |
| 106-46-7 | 1,4-Dichlorobenzene | µg/L | 0.89 | U | 1.08 | U | 0.85 | U | 0.85 | U | 1.08 | U | 1.08 | U | NR | |
| 95-50-1 | 1,2-Dichlorobenzene | µg/L | 0.94 | U | 1.01 | U | 0.83 | U | 0.83 | U | 1.01 | U | 1.01 | U | NR | |
| 95-48-7 | 2-Methylphenol | µg/L | 0.99 | U | 0.92 | U | 0.76 | U | 0.76 | U | 0.92 | U | 0.92 | U | NR | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | µg/L | 1.12 | U | 2.21 | U | 1 | U | 1 | U | 2.21 | U | 2.21 | U | NR | |
| 106-44-5 | 3+4-Methylphenol | µg/L | 0.83 | U | 0.88 | U | 0.72 | U | 0.72 | U | 0.88 | U | 0.88 | U | NR | |
| 621-64-7 | N-Nitrosodi-n-propylamine | µg/L | 0.8 | U | 0.78 | U | 0.86 | U | 0.86 | U | 0.78 | U | 0.78 | U | NR | |
| 67-72-1 | Hexachloroethane | µg/L | 0.73 | U | 1.07 | U | 0.9 | U | 0.9 | U | 1.07 | U | 1.07 | U | NR | |
| 98-95-3 | Nitrobenzene | µg/L | 0.93 | U | 1.17 | U | 0.89 | U | 0.89 | U | 1.17 | U | 1.17 | U | NR | |
| 78-59-1 | Isophorone | µg/L | 0.82 | U | 0.81 | U | 0.76 | U | 0.76 | U | 0.81 | U | 0.81 | U | NR | |
| 88-75-5 | 2-Nitrophenol | µg/L | 0.88 | U | 0.85 | U | 0.65 | U | 0.65 | U | 0.85 | U | 0.85 | U | NR | |
| 105-67-9 | 2,4-Dimethylphenol | µg/L | 1.13 | U | 1.16 | U | 0.95 | U | 0.95 | U | 1.16 | U | 1.16 | U | NR | |
| 111-91-1 | bis(2-Chloroethoxy)methane | µg/L | 0.76 | U | 0.82 | U | 0.78 | U | 0.78 | U | 0.82 | U | 0.82 | U | NR | |
| 120-83-2 | 2,4-Dichlorophenol | µg/L | 0.72 | U | 0.88 | U | 0.62 | U | 0.62 | U | 0.88 | U | 0.88 | U | NR | |
| 120-82-1 | 1,2,4-Trichlorobenzene | µg/L | 0.96 | U | 1.16 | U | 0.85 | U | 0.85 | U | 1.16 | U | 1.16 | U | NR | |
| 106-47-8 | 4-Chloroaniline | µg/L | 0.63 | U | 1.03 | U | 0.52 | U | 0.52 | U | 1.03 | U | 1.03 | U | NR | |
| 87-68-3 | Hexachlorobutadiene | µg/L | 0.96 | U | 1.15 | U | 0.83 | U | 0.83 | U | 1.15 | U | 1.15 | U | NR | |
| 59-50-7 | 4-Chloro-3-methylphenol | µg/L | 0.94 | U | 1.07 | U | 0.72 | U | 0.72 | U | 1.07 | U | 1.07 | U | NR | |
| 77-47-4 | Hexachlorocyclopentadiene | µg/L | 7.09 | U | 4.41 | U | 0.72 | U | 0.72 | U | 4.41 | U | 4.41 | U | NR | |
| 88-06-2 | 2,4,6-Trichlorophenol | µg/L | 0.78 | U | 0.67 | U | 0.47 | U | 0.47 | U | 0.67 | U | 0.67 | U | NR | |

TABLE 4-2
SOIL QC SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | | 00-08386-005 | | 01-03882-014 | | 01-04270-020 | | 01-04272-009 | | 01-04362-018 | | 01-04388-011 | | 00-08386-006 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | | Field | | Field | | Field | | Field | | Field | | Field | | Trip |
| | Depth: | | Blank | | Blank | | Blank | | Blank | | Blank | | Blank | | Blank |
| | Laboratory ID: | | J6935-5 | | K9162-5 | | K9231-2 | | K9228-9 | | K9266-7 | | K9286-9 | | J6935-6 |
| | Sampling Date: | | 08/30/2000 | | 04/24/2001 | | 06/01/2001 | | 06/04/2001 | | 06/20/2001 | | 06/26/2001 | | 08/30/2000 |
| | Matrix: | | Water | | Water | | Water | | Water | | Water | | Water | | Water |
| | Validated: | | No | | No | | No | | No | | No | | No | | No |
| Cas #: | Analyte: | Units: | | | | | | | | | | | | | |
| 95-95-4 | 2,4,5-Trichlorophenol | µg/L | 0.54 | U | 1.15 | U | 0.58 | U | 0.58 | U | 1.15 | U | 1.15 | U | NR |
| 91-58-7 | 2-Chloronaphthalene | µg/L | 0.87 | U | 1.06 | U | 0.81 | U | 0.81 | U | 1.06 | U | 1.06 | U | NR |
| 88-74-4 | 2-Nitroaniline | µg/L | 0.95 | U | 0.54 | U | 0.56 | U | 0.56 | U | 0.54 | U | 0.54 | U | NR |
| 131-11-3 | Dimethylphthalate | µg/L | 1.3 | U | 1.65 | U | 1.3 | U | 1.3 | U | 1.65 | U | 1.65 | U | NR |
| 606-20-2 | 2,6-Dinitrotoluene | µg/L | 0.84 | U | 0.54 | U | 0.78 | U | 0.78 | U | 0.54 | U | 0.54 | U | NR |
| 99-09-2 | 3-Nitroaniline | µg/L | 0.58 | U | 0.58 | U | 0.82 | U | 0.82 | U | 0.58 | U | 0.58 | U | NR |
| 51-28-5 | 2,4-Dinitrophenol | µg/L | 3.67 | U | 5.8 | U | 0.57 | U | 0.57 | U | 5.8 | U | 5.8 | U | NR |
| 100-02-7 | 4-Nitrophenol | µg/L | 2.12 | U | 2.12 | U | 0.36 | U | 0.36 | U | 2.12 | U | 2.12 | U | NR |
| 132-64-9 | Dibenzofuran | µg/L | 0.83 | U | 0.85 | U | 0.67 | U | 0.67 | U | 0.85 | U | 0.85 | U | NR |
| 121-14-2 | 2,4-Dinitrotoluene | µg/L | 0.68 | U | 0.47 | U | 0.61 | U | 0.61 | U | 0.47 | U | 0.47 | U | NR |
| 84-66-2 | Diethylphthalate | µg/L | 0.25 | J | 9.81 | U | 8.14 | U | 8.14 | U | 0.28 | JB | 0.25 | JB | NR |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | µg/L | 0.76 | U | 1.11 | U | 0.68 | U | 0.68 | U | 1.11 | U | 1.11 | U | NR |
| 100-01-6 | 4-Nitroaniline | µg/L | 0.7 | U | 0.61 | U | 0.56 | U | 0.56 | U | 0.61 | U | 0.61 | U | NR |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/L | 5.7 | U | 0.5 | U | 0.58 | U | 0.58 | U | 0.5 | U | 0.5 | U | NR |
| 86-30-6 | N-Nitrosodiphenylamine | µg/L | 0.67 | U | 0.94 | U | 0.63 | U | 0.63 | U | 0.94 | U | 0.94 | U | NR |
| 101-55-3 | 4-Bromophenyl phenyl ether | µg/L | 0.72 | U | 0.79 | U | 0.61 | U | 0.61 | U | 0.79 | U | 0.79 | U | NR |
| 118-74-1 | Hexachlorobenzene | µg/L | 0.69 | U | 0.99 | U | 0.6 | U | 0.6 | U | 0.99 | U | 0.99 | U | NR |
| 87-86-5 | Pentachlorophenol | µg/L | 0.33 | U | 0.7 | U | 0.59 | U | 0.59 | U | 0.7 | U | 0.7 | U | NR |
| 86-74-8 | Carbazole | µg/L | 0.65 | U | 0.68 | U | 1.32 | U | 1.32 | U | 0.68 | U | NA | | NR |
| 84-74-2 | Di-n-butylphthalate | µg/L | 0.28 | J | 0.55 | J | 0.88 | J | 0.92 | J | 0.31 | J | 0.64 | JB | NR |
| 85-68-7 | Butylbenzylphthalate | µg/L | 3.48 | U | 4.1 | U | 3.29 | U | 3.29 | U | 4.1 | U | 4.1 | U | NR |
| 91-94-1 | 3,3'-Dichlorobenzidine | µg/L | 0.52 | U | 0.41 | U | 1.2 | U | 1.2 | U | 0.41 | U | 0.41 | U | NR |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | µg/L | 2.8 | B | 3.2 | | 1.1 | J | 1.3 | J | 2.4 | JB | 2.3 | B | NR |
| 117-84-0 | Di-n-octylphthalate | µg/L | 1.04 | U | 0.98 | U | 0.5 | U | 0.5 | U | 0.98 | U | 0.98 | U | NR |
| | | | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | µg/L | 1 | U | 0.89 | U | 0.75 | U | 0.75 | U | 0.89 | U | 0.89 | U | NR |
| 208-96-8 | Acenaphthylene | µg/L | 0.86 | U | 0.89 | U | 0.81 | U | 0.81 | U | 0.89 | U | 0.89 | U | NR |
| 120-12-7 | Anthracene | µg/L | 0.67 | U | 0.92 | U | 0.53 | U | 0.53 | U | 0.92 | U | 0.92 | U | NR |
| 191-24-2 | Benzo(g,h,i)perylene | µg/L | 0.62 | U | 0.52 | U | 0.4 | U | 0.4 | U | 0.52 | U | 0.52 | U | NR |
| 206-44-0 | Fluoranthene | µg/L | 0.53 | U | 0.7 | U | 0.47 | U | 0.47 | U | 0.7 | U | 0.7 | U | NR |
| 86-73-7 | Fluorene | µg/L | 0.82 | U | 0.91 | U | 0.69 | U | 0.69 | U | 0.91 | U | 0.91 | U | NR |
| 91-57-6 | 2-Methylnaphthalene | µg/L | 0.84 | U | 1.07 | U | 0.76 | U | 0.76 | U | 0.25 | J | 1.07 | U | NR |
| 91-20-3 | Naphthalene | µg/L | 0.99 | U | 1.01 | U | 0.89 | U | 0.89 | U | 0.37 | J | 1.01 | U | NR |
| 85-01-8 | Phenanthrene | µg/L | 0.64 | U | 0.21 | J | 0.59 | U | 0.59 | U | 0.83 | U | 0.21 | J | NR |
| 129-00-0 | Pyrene | µg/L | 0.76 | U | 0.65 | U | 0.53 | U | 0.53 | U | 0.65 | U | 0.65 | U | NR |
| | | | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | | | | | | | | | | | | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | µg/L | 0.64 | U | 0.31 | J | 0.47 | U | 0.47 | U | 0.62 | U | 0.62 | U | NR |
| 205-99-2 | Benzo(b)fluoranthene | µg/L | 0.81 | U | 1.54 | U | 0.45 | U | 0.45 | U | 1.54 | U | 1.54 | U | NR |
| 207-08-9 | Benzo(k)fluoranthene | µg/L | 0.92 | U | 1.1 | U | 0.29 | U | 0.29 | U | 1.1 | U | 1.1 | U | NR |
| 50-32-8 | Benzo(a)pyrene | µg/L | 0.7 | U | 0.77 | U | 0.36 | U | 0.36 | U | 0.77 | U | 0.77 | U | NR |
| 218-01-9 | Chrysene | µg/L | 0.52 | U | 0.22 | J | 0.56 | U | 0.56 | U | 0.69 | U | 0.69 | U | NR |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/L | 0.58 | U | 0.61 | U | 0.45 | U | 0.45 | U | 0.61 | U | 0.61 | U | NR |
| 53-70-3 | Dibenz(a,h)anthracene | µg/L | 0.66 | U | 0.61 | U | 0.47 | U | 0.47 | U | 0.61 | U | 0.61 | U | NR |
| | | | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | | | | | | | | | | | | |
| | **Total PAHs** | | | | | | | | | | | | | | |
| | **Metals** | | | | | | | | | | | | | | |
| 7429-90-5 | Aluminum | mg/L | 0.1 | U | 0.32 | | 0.24 | | 0.074 | J | 0.052 | J | 0.016 | J | NR |
| 7440-36-0 | Antimony | mg/L | 0.008 | | 0.004 | U | 0.011 | | 0.0021 | J | 0.0034 | J | 0.0003 | J | NR |
| 7440-38-2 | Arsenic | mg/L | 0.0038 | U | 0.01 | | 0.0053 | U | 0.0053 | U | 0.0048 | U | 0.0048 | U | NR |
| 7440-39-3 | Barium | mg/L | 0.001 | J | 0.00011 | J | 0.0016 | | 0.00022 | J | 0.018 | | 0.0001 | J | NR |
| 7440-41-7 | Beryllium | mg/L | 0.0011 | U | 0.0021 | | 0.0013 | U | 0.0013 | U | 0.0012 | U | 0.0012 | U | NR |
| 7440-43-9 | Cadmium | mg/L | 0.0011 | U | 0.0013 | U | 0.00033 | J | 0.00033 | J | 0.0001 | J | 0.0002 | J | NR |
| 7440-70-2 | Calcium | mg/L | 0.18 | J | 0.15 | U | 0.29 | | 0.064 | J | 16.7 | | 0.027 | J | NR |
| 7440-47-3 | Chromium | mg/L | 0.0011 | U | 0.0024 | U | 0.0017 | J | 0.00089 | J | 0.0022 | U | 0.0001 | J | NR |
| 7440-48-4 | Cobalt | mg/L | 0.0011 | U | 0.0022 | | 0.0013 | U | 0.0013 | U | 0.0012 | U | 0.0012 | U | NR |
| 7440-50-8 | Copper | mg/L | 0.022 | | 0.0013 | J | 0.011 | | 0.0053 | | 0.0004 | J | 0.0007 | J | NR |
| 7439-89-6 | Iron | mg/L | 0.043 | J | 0.0018 | J | 0.11 | | 0.011 | J | 0.02 | J | 0.014 | J | NR |
| 7439-92-1 | Lead | mg/L | 0.0014 | U | 0.00022 | J | 0.001 | J | 0.0024 | U | 0.0026 | | 0.0022 | U | NR |
| 7439-95-4 | Magnesium | mg/L | 0.017 | J | 0.00011 | J | 0.087 | J | 0.023 | J | 6.28 | | 0.0057 | J | NR |
| 7439-96-5 | Manganese | mg/L | 0.002 | | 0.0013 | U | 0.0037 | | 0.0023 | | 0.0013 | | 0.0003 | J | NR |
| 7439-97-6 | Mercury | mg/L | 0.00005 | U | 0.00005 | U | 0.00005 | U | 0.00005 | U | 9.6E-06 | J | 6.2E-06 | J | NR |
| 7440-02-0 | Nickel | mg/L | 0.002 | | 0.00033 | J | 0.0011 | J | 0.00067 | J | 0.0008 | J | 0.0006 | J | NR |
| 7440-09-7 | Potassium | mg/L | 0.019 | J | 1.31 | U | 1.31 | U | 1.31 | U | 0.72 | J | 0.027 | J | NR |
| 7782-49-2 | Selenium | mg/L | 0.002 | U | 0.0052 | U | 0.0042 | J | 0.00089 | J | 0.0019 | J | 0.0043 | J | NR |
| 7440-22-4 | Silver | mg/L | 0.0021 | U | 0.00011 | J | 0.00022 | J | 0.00011 | J | 0.0015 | U | 0.0015 | U | NR |
| 7440-23-5 | Sodium | mg/L | 0.47 | | 0.1 | U | 0.19 | | 0.079 | J | 5.47 | | 0.41 | | NR |

TABLE 4-2
SOIL QC SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | | 00-08386-005 | | 01-03882-014 | | 01-04270-020 | | 01-04272-009 | | 01-04362-018 | | 01-04388-011 | | 00-08386-006 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | | Field | | Field | | Field | | Field | | Field | | Field | | Trip | |
| | Depth: | | Blank | | Blank | | Blank | | Blank | | Blank | | Blank | | Blank | |
| | Laboratory ID: | | J6935-5 | | K9162-5 | | K9231-2 | | K9228-9 | | K9266-7 | | K9286-9 | | J6935-6 | |
| | Sampling Date: | | 08/30/2000 | | 04/24/2001 | | 06/01/2001 | | 06/04/2001 | | 06/20/2001 | | 06/26/2001 | | 08/30/2000 | |
| | Matrix: | | Water | | Water | | Water | | Water | | Water | | Water | | Water | |
| | Validated: | | No | | No | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | Units: | | | | | | | | | | | | | | |
| 7440-28-0 | Thallium | mg/L | 0.002 | U | 0.016 | | 0.0043 | U | 0.0043 | U | 0.0039 | U | 0.0039 | U | NR | |
| 7440-62-2 | Vanadium | mg/L | 0.0011 | U | 0.0031 | U | 0.0031 | U | 0.0031 | U | 0.0028 | U | 0.0004 | J | NR | |
| 7440-66-6 | Zinc | mg/L | 0.009 | | 0.0041 | U | 0.04 | | 0.032 | | 0.016 | | 0.01 | | NR | |
| 57-12-5 | Cyanide | mg/L | 0.003 | U | NR | | 0.003 | U | 0.003 | U | 0.003 | U | 0.003 | U | NR | |
| | % Solids | % | NR | | NR | | NR | | NR | | NR | | NR | | NR | |
| | Total Rec.Petr. Hydrocarbons | mg/L | NR | | NR | | NR | | NR | | NR | | NR | | NR | |

**Notes**

U - Below detection limit
J - Estimated value
NR - Not run
NA - Not available

TABLE 4-2
SOIL QC SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | | 00-08386-005 | | 01-03882-014 | | 01-04270-020 | | 01-04272-009 | | 01-04362-018 | | 01-04388-011 | | 00-08386-006 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | | Field | | Field | | Field | | Field | | Field | | Field | | Trip | |
| | Depth: | | Blank | | Blank | | Blank | | Blank | | Blank | | Blank | | Blank | |
| | Laboratory ID: | | J6935-5 | | K9162-5 | | K9231-2 | | K9228-9 | | K9266-7 | | K9286-9 | | J6935-6 | |
| | Sampling Date: | | 08/30/2000 | | 04/24/2001 | | 06/01/2001 | | 06/04/2001 | | 06/20/2001 | | 06/26/2001 | | 08/30/2000 | |
| | Matrix: | | Water | | Water | | Water | | Water | | Water | | Water | | Water | |
| | Validated: | | No | | No | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | Units: | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | µg/kg | | | | | | | | | | | 0.49 | U | | |
| 75-45-6 | Chlorodifluoromethane | µg/kg | | | | | | | | | | | 0.21 | U | | |
| 75-69-4 | Trichlorofluoromethane | µg/kg | | | | | | | | | | | 0.24 | U | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | µg/kg | | | | | | | | | | | 0.23 | U | | |
| 1634-04-4 | Methyl t-butyl ether | µg/kg | | | | | | | | | | | 0.34 | U | | |
| 590-20-7 | 2,2-Dichloropropane | µg/kg | | | | | | | | | | | 0.18 | U | | |
| 74-97-5 | Bromochloromethane | µg/kg | | | | | | | | | | | 0.27 | U | | |
| 563-58-6 | 1,1-Dichloropropene | µg/kg | | | | | | | | | | | 0.59 | U | | |
| 74-95-3 | Dibromomethane | µg/kg | | | | | | | | | | | 0.18 | U | | |
| 110-75-8 | 2-Chloroethylvinylether | µg/kg | | | | | | | | | | | 0.13 | U | | |
| 142-28-9 | 1,3-Dichloropropane | µg/kg | | | | | | | | | | | 0.2 | U | | |
| 106-93-4 | 1,2-Dibromoethane | µg/kg | | | | | | | | | | | 0.1 | U | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | µg/kg | | | | | | | | | | | 0.18 | U | | |
| 98-82-8 | Isopropylbenzene | µg/kg | | | | | | | | | | | 0.25 | U | | |
| 108-86-1 | Bromobenzene | µg/kg | | | | | | | | | | | 0.24 | U | | |
| 103-65-1 | n-Propylbenzene | µg/kg | | | | | | | | | | | 0.21 | U | | |
| 96-18-4 | 1,2,3-Trichloropropane | µg/kg | | | | | | | | | | | 0.21 | U | | |
| 622-96-8 | p-Ethyltoluene | µg/kg | | | | | | | | | | | 0.24 | U | | |
| 108-67-8 | 1,3,5-Trimethylbenzene | µg/kg | | | | | | | | | | | 0.2 | U | | |
| 95-49-8 | 2-Chlorotoluene | µg/kg | | | | | | | | | | | 0.27 | U | | |
| 106-43-4 | 4-Chlorotoluene | µg/kg | | | | | | | | | | | 0.35 | U | | |
| 98-06-6 | tert-Butylbenzene | µg/kg | | | | | | | | | | | 0.24 | U | | |
| 95-63-6 | 1,2,4-Trimethylbenzene | µg/kg | | | | | | | | | | | 0.17 | U | | |
| 135-98-8 | sec-Butylbenzene | µg/kg | | | | | | | | | | | 0.16 | U | | |
| 99-87-6 | 4-Isopropyltoluene | µg/kg | | | | | | | | | | | 0.24 | U | | |
| 541-73-1 | 1,3-Dichlorobenzene | µg/kg | | | | | | | | | | | 0.23 | U | | |
| 106-46-7 | 1,4-Dichlorobenzene | µg/kg | | | | | | | | | | | 0.23 | U | | |
| 95-50-1 | 1,2-Dichlorobenzene | µg/kg | | | | | | | | | | | 0.15 | U | | |
| 105-05-5 | p-Diethylbenzene | µg/kg | | | | | | | | | | | 0.24 | U | | |
| 104-51-8 | n-Butylbenzene | µg/kg | | | | | | | | | | | 0.14 | U | | |
| 95-93-2 | 1,2,4,5-Tetramethylbenzene | µg/kg | | | | | | | | | | | 0.26 | U | | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | µg/kg | | | | | | | | | | | 0.33 | U | | |
| 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | | | | | | | | | | | 0.22 | U | | |
| 87-68-3 | Hexachlorobutadiene | µg/kg | | | | | | | | | | | 0.26 | U | | |
| 91-20-3 | Naphthalene | µg/kg | | | | | | | | | | | 0.14 | U | | |
| 87-61-6 | 1,2,3-Trichlorobenzene | µg/kg | | | | | | | | | | | 0.17 | U | | |
| 100-51-6 | Benzyl alcohol | µg/kg | | | | | | | | | | | 0.86 | U | | |
| 65-85-0 | Benzoic acid | µg/kg | | | | | | | | | | | 3.41 | U | | |

TABLE 4-2
SOIL QC SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | | 00-08470-005 | | 01-03882-015 | | 01-04272-010 | |
|---|---|---|---|---|---|---|---|---|
| | Sample Location: | | Trip | | Trip | | Trip | |
| | Depth: | | Blank | | Blank | | Blank | |
| | Laboratory ID: | | J6936-5 | | K9162-6 | | K9228-10 | |
| | Sampling Date: | | 08/31/2000 | | 04/24/2001 | | 06/04/2001 | |
| | Matrix: | | Water | | Water | | Water | |
| | Validated: | | No | | No | | No | |
| Cas #: | Analyte: | Units: | | | | | | |
| | **PCBs** | | | | | | | |
| 12674-11-2 | PCB 1016 | µg/L | NR | | NR | | NR | |
| 11104-28-2 | PCB 1221 | µg/L | NR | | NR | | NR | |
| 11141-16-5 | PCB 1232 | µg/L | NR | | NR | | NR | |
| 53469-21-9 | PCB 1242 | µg/L | NR | | NR | | NR | |
| 12672-29-6 | PCB 1248 | µg/L | NR | | NR | | NR | |
| 11097-69-1 | PCB 1254 | µg/L | NR | | NR | | NR | |
| 11096-82-5 | PCB 1260 | µg/L | NR | | NR | | NR | |
| | **Volatiles** | | | | | | | |
| 74-87-3 | Chloromethane | µg/L | 0.38 | U | 0.32 | U | 0.49 | U |
| 74-83-9 | Bromomethane | µg/L | 0.37 | U | 0.12 | U | 0.43 | U |
| 75-01-4 | Vinyl Chloride | µg/L | 0.41 | U | 0.25 | U | 0.1 | U |
| 75-00-3 | Chloroethane | µg/L | 0.25 | U | 0.3 | U | 0.61 | U |
| 75-09-2 | Methylene Chloride | µg/L | 0.3 | U | 0.41 | U | 9.9 | B |
| 67-64-1 | Acetone | µg/L | 1.3 | U | 1.48 | U | 3.12 | U |
| 75-15-0 | Carbon disulfide | µg/L | 0.21 | U | 0.31 | U | 0.2 | U |
| 75-35-4 | 1,1-Dichloroethene | µg/L | 0.48 | U | 0.18 | U | 0.3 | U |
| 75-34-3 | 1,1-Dichloroethane | µg/L | 0.18 | U | 0.14 | U | 0.22 | U |
| 156-60-5 | t-1,2-Dichloroethene | µg/L | 0.28 | U | 0.22 | U | 0.2 | U |
| 156-59-2 | c-1,2-Dichloroethene | µg/L | 0.34 | U | 0.3 | U | 0.21 | U |
| 67-66-3 | Chloroform | µg/L | 0.26 | U | 0.15 | U | 0.2 | U |
| 107-06-2 | 1,2-Dichloroethane | µg/L | 0.19 | U | 0.2 | U | 0.23 | U |
| 78-93-3 | 2-Butanone | µg/L | 0.82 | U | 2.5 | U | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | µg/L | 0.31 | U | 0.2 | U | 0.22 | U |
| 56-23-5 | Carbon Tetrachloride | µg/L | 0.34 | U | 0.18 | U | 0.25 | U |
| 75-27-4 | Bromodichloromethane | µg/L | 0.12 | U | 0.13 | U | 0.15 | U |
| 78-87-5 | 1,2-Dichloropropane | µg/L | 0.12 | U | 0.16 | U | 0.36 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | µg/L | 0.19 | U | 0.15 | U | 0.16 | U |
| 79-01-6 | Trichloroethene | µg/L | 0.27 | U | 0.2 | U | 0.16 | U |
| 124-48-1 | Dibromochloromethane | µg/L | 0.18 | U | 0.14 | U | 0.11 | U |
| 79-00-5 | 1,1,2-Trichloroethane | µg/L | 0.37 | U | 0.2 | U | 0.09 | U |
| 71-43-2 | Benzene | µg/L | 0.14 | U | 0.1 | U | 0.16 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | µg/L | 0.16 | U | 0.15 | U | 0.08 | U |
| 75-25-2 | Bromoform | µg/L | 0.2 | U | 0.09 | U | 0.1 | U |
| 108-10-1 | 4-Methyl-2-pentanone | µg/L | 0.45 | U | 0.5 | U | 5 | U |
| 591-78-6 | 2-Hexanone | µg/L | 0.49 | U | 0.4 | U | 5 | U |
| 127-18-4 | Tetrachloroethene | µg/L | 0.28 | U | 0.11 | U | 0.24 | U |
| 108-88-3 | Toluene | µg/L | 0.16 | U | 0.15 | U | 0.14 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | µg/L | 0.14 | U | 0.22 | U | 0.16 | U |
| 108-90-7 | Chlorobenzene | µg/L | 0.21 | U | 0.11 | U | 0.15 | U |
| 100-41-4 | Ethylbenzene | µg/L | 0.21 | U | 0.19 | U | 0.22 | U |
| 100-42-5 | Styrene | µg/L | 0.28 | U | 0.23 | U | 0.17 | U |
| 108-38-3 | m,p-xylene | µg/L | 0.45 | U | 0.28 | U | 0.42 | U |
| 95-47-6 | o-xylene | µg/L | 0.27 | U | 0.16 | U | 0.2 | U |
| | | | | | | | | |
| | **Total BTEX** | | | | | | | |
| | **Semi-Volatiles** | | | | | | | |
| 108-95-2 | Phenol | µg/L | NR | | NR | | NR | |
| 111-44-4 | bis(2-Chloroethyl)ether | µg/L | NR | | NR | | NR | |
| 95-57-8 | 2-Chlorophenol | µg/L | NR | | NR | | NR | |
| 541-73-1 | 1,3-Dichlorobenzene | µg/L | NR | | NR | | NR | |
| 106-46-7 | 1,4-Dichlorobenzene | µg/L | NR | | NR | | NR | |
| 95-50-1 | 1,2-Dichlorobenzene | µg/L | NR | | NR | | NR | |
| 95-48-7 | 2-Methylphenol | µg/L | NR | | NR | | NR | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | µg/L | NR | | NR | | NR | |
| 106-44-5 | 3+4-Methylphenol | µg/L | NR | | NR | | NR | |
| 621-64-7 | N-Nitrosodi-n-propylamine | µg/L | NR | | NR | | NR | |
| 67-72-1 | Hexachloroethane | µg/L | NR | | NR | | NR | |
| 98-95-3 | Nitrobenzene | µg/L | NR | | NR | | NR | |
| 78-59-1 | Isophorone | µg/L | NR | | NR | | NR | |
| 88-75-5 | 2-Nitrophenol | µg/L | NR | | NR | | NR | |
| 105-67-9 | 2,4-Dimethylphenol | µg/L | NR | | NR | | NR | |
| 111-91-1 | bis(2-Chloroethoxy)methane | µg/L | NR | | NR | | NR | |
| 120-83-2 | 2,4-Dichlorophenol | µg/L | NR | | NR | | NR | |
| 120-82-1 | 1,2,4-Trichlorobenzene | µg/L | NR | | NR | | NR | |
| 106-47-8 | 4-Chloroaniline | µg/L | NR | | NR | | NR | |
| 87-68-3 | Hexachlorobutadiene | µg/L | NR | | NR | | NR | |
| 59-50-7 | 4-Chloro-3-methylphenol | µg/L | NR | | NR | | NR | |
| 77-47-4 | Hexachlorocyclopentadiene | µg/L | NR | | NR | | NR | |
| 88-06-2 | 2,4,6-Trichlorophenol | µg/L | NR | | NR | | NR | |

TABLE 4-2
SOIL QC SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | | 00-08470-005 | | 01-03882-015 | | 01-04272-010 | |
|---|---|---|---|---|---|---|---|---|
| | Sample Location: | | Trip | | Trip | | Trip | |
| | Depth: | | Blank | | Blank | | Blank | |
| | Laboratory ID: | | J6936-5 | | K9162-6 | | K9228-10 | |
| | Sampling Date: | | 08/31/2000 | | 04/24/2001 | | 06/04/2001 | |
| | Matrix: | | Water | | Water | | Water | |
| | Validated: | | No | | No | | No | |
| Cas #: | Analyte: | Units: | | | | | | |
| 95-95-4 | 2,4,5-Trichlorophenol | µg/L | NR | | NR | | NR | |
| 91-58-7 | 2-Chloronaphthalene | µg/L | NR | | NR | | NR | |
| 88-74-4 | 2-Nitroaniline | µg/L | NR | | NR | | NR | |
| 131-11-3 | Dimethylphthalate | µg/L | NR | | NR | | NR | |
| 606-20-2 | 2,6-Dinitrotoluene | µg/L | NR | | NR | | NR | |
| 99-09-2 | 3-Nitroaniline | µg/L | NR | | NR | | NR | |
| 51-28-5 | 2,4-Dinitrophenol | µg/L | NR | | NR | | NR | |
| 100-02-7 | 4-Nitrophenol | µg/L | NR | | NR | | NR | |
| 132-64-9 | Dibenzofuran | µg/L | NR | | NR | | NR | |
| 121-14-2 | 2,4-Dinitrotoluene | µg/L | NR | | NR | | NR | |
| 84-66-2 | Diethylphthalate | µg/L | NR | | NR | | NR | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | µg/L | NR | | NR | | NR | |
| 100-01-6 | 4-Nitroaniline | µg/L | NR | | NR | | NR | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/L | NR | | NR | | NR | |
| 86-30-6 | N-Nitrosodiphenylamine | µg/L | NR | | NR | | NR | |
| 101-55-3 | 4-Bromophenyl phenyl ether | µg/L | NR | | NR | | NR | |
| 118-74-1 | Hexachlorobenzene | µg/L | NR | | NR | | NR | |
| 87-86-5 | Pentachlorophenol | µg/L | NR | | NR | | NR | |
| 86-74-8 | Carbazole | µg/L | NR | | NR | | NR | |
| 84-74-2 | Di-n-butylphthalate | µg/L | NR | | NR | | NR | |
| 85-68-7 | Butylbenzylphthalate | µg/L | NR | | NR | | NR | |
| 91-94-1 | 3,3'-Dichlorobenzidine | µg/L | NR | | NR | | NR | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | µg/L | NR | | NR | | NR | |
| 117-84-0 | Di-n-octylphthalate | µg/L | NR | | NR | | NR | |
| | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | |
| 83-32-9 | Acenaphthene | µg/L | NR | | NR | | NR | |
| 208-96-8 | Acenaphthylene | µg/L | NR | | NR | | NR | |
| 120-12-7 | Anthracene | µg/L | NR | | NR | | NR | |
| 191-24-2 | Benzo(g,h,i)perylene | µg/L | NR | | NR | | NR | |
| 206-44-0 | Fluoranthene | µg/L | NR | | NR | | NR | |
| 86-73-7 | Fluorene | µg/L | NR | | NR | | NR | |
| 91-57-6 | 2-Methylnaphthalene | µg/L | NR | | NR | | NR | |
| 91-20-3 | Naphthalene | µg/L | NR | | NR | | NR | |
| 85-01-8 | Phenanthrene | µg/L | NR | | NR | | NR | |
| 129-00-0 | Pyrene | µg/L | NR | | NR | | NR | |
| | | | | | | | | |
| | Total Non Carcinogenic PAHs | | | | | | | |
| | **Probable Carcinogenic PAHs** | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | µg/L | NR | | NR | | NR | |
| 205-99-2 | Benzo(b)fluoranthene | µg/L | NR | | NR | | NR | |
| 207-08-9 | Benzo(k)fluoranthene | µg/L | NR | | NR | | NR | |
| 50-32-8 | Benzo(a)pyrene | µg/L | NR | | NR | | NR | |
| 218-01-9 | Chrysene | µg/L | NR | | NR | | NR | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/L | NR | | NR | | NR | |
| 53-70-3 | Dibenz(a,h)anthracene | µg/L | NR | | NR | | NR | |
| | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | | | | | | |
| | **Total PAHs** | | | | | | | |
| | **Metals** | | | | | | | |
| 7429-90-5 | Aluminum | mg/L | NR | | NR | | NR | |
| 7440-36-0 | Antimony | mg/L | NR | | NR | | NR | |
| 7440-38-2 | Arsenic | mg/L | NR | | NR | | NR | |
| 7440-39-3 | Barium | mg/L | NR | | NR | | NR | |
| 7440-41-7 | Beryllium | mg/L | NR | | NR | | NR | |
| 7440-43-9 | Cadmium | mg/L | NR | | NR | | NR | |
| 7440-70-2 | Calcium | mg/L | NR | | NR | | NR | |
| 7440-47-3 | Chromium | mg/L | NR | | NR | | NR | |
| 7440-48-4 | Cobalt | mg/L | NR | | NR | | NR | |
| 7440-50-8 | Copper | mg/L | NR | | NR | | NR | |
| 7439-89-6 | Iron | mg/L | NR | | NR | | NR | |
| 7439-92-1 | Lead | mg/L | NR | | NR | | NR | |
| 7439-95-4 | Magnesium | mg/L | NR | | NR | | NR | |
| 7439-96-5 | Manganese | mg/L | NR | | NR | | NR | |
| 7439-97-6 | Mercury | mg/L | NR | | NR | | NR | |
| 7440-02-0 | Nickel | mg/L | NR | | NR | | NR | |
| 7440-09-7 | Potassium | mg/L | NR | | NR | | NR | |
| 7782-49-2 | Selenium | mg/L | NR | | NR | | NR | |
| 7440-22-4 | Silver | mg/L | NR | | NR | | NR | |
| 7440-23-5 | Sodium | mg/L | NR | | NR | | NR | |

TABLE 4-2
SOIL QC SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | | 00-08470-005 | | 01-03882-015 | | 01-04272-010 | |
|---|---|---|---|---|---|---|---|---|
| | Sample Location: | | Trip | | Trip | | Trip | |
| | Depth: | | Blank | | Blank | | Blank | |
| | Laboratory ID: | | J6936-5 | | K9162-6 | | K9228-10 | |
| | Sampling Date: | | 08/31/2000 | | 04/24/2001 | | 06/04/2001 | |
| | Matrix: | | Water | | Water | | Water | |
| | Validated: | | No | | No | | No | |
| Cas #: | Analyte: | Units: | | | | | | |
| 7440-28-0 | Thallium | mg/L | NR | | NR | | NR | |
| 7440-62-2 | Vanadium | mg/L | NR | | NR | | NR | |
| 7440-66-6 | Zinc | mg/L | NR | | NR | | NR | |
| 57-12-5 | Cyanide | mg/L | NR | | NR | | NR | |
| | % Solids | % | NR | | NR | | NR | |
| | Total Rec.Petr. Hydrocarbons | mg/L | NR | | NR | | NR | |
| | | | | | | | | |
| **Notes** | | | | | | | | |
| | | | | | | | | |
| U - Below detection limit | | | | | | | | |
| J - Estimated value | | | | | | | | |
| NR - Not run | | | | | | | | |
| NA - Not available | | | | | | | | |
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| | | | | | | | | |

TABLE 4-3
SUMMARY OF TCLP SAMPLE RESULTS
WHITE PLAINS FORMER MGP SITE

| Client Sample ID:<br>Location:<br>Depth<br>Laboratory ID:<br>Sampling Date:<br>Matrix:<br>Analyte: | Toxicity Characteristic Regulatory Level | Units: | GT-2, S-2<br>4'-5'<br>99-11918-001<br>11/11/99<br>Soil | GT-3, S-3<br>4'-5'<br>99-11918-002<br>11/11/99<br>Soil | GT-4, S-5<br>4'-5'<br>99-120066-006<br>11/16/99<br>Soil | GT-5, S-6<br>1'-5'<br>99-12066-004<br>11/16/99<br>Soil | GT-6, S-4<br>4'-5'<br>99-12066-002<br>11/16/99<br>Soil | GT-7, S-8<br>4'-5'<br>99-12142-002<br>11/18/99<br>Soil | GT-8, S-7<br>4'-5'<br>99-12136-002<br>11/18/99<br>Soil | GT-8, S-9<br>60'-62'<br>99-12143-001<br>11/18/99<br>Soil | GT-9, S-10<br>4'-5'<br>99-12172-001<br>11/19/99<br>Soil | GT-10, S-11<br>4'-5'<br>99-12172-002<br>11/19/99<br>Soil |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PCBs** | | | | | | | | | | | | |
| None Detected | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **TCLP Volatiles** | | | | | | | | | | | | |
| None Detected | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **TCLP Semi-Volatiles** | | | | | | | | | | | | |
| None Detected | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **TCLP Metals** | | | | | | | | | | | | |
| Arsenic | 5 | mg/L | ND | 0.027 | 0.1 | 0.32 | ND | ND | ND | ND | ND | 0.073 |
| Barium | 100 | mg/L | 0.21 | 0.67 | ND | ND | ND | ND | ND | ND | ND | ND |
| Cadmium | 1 | mg/L | 0.004 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chromium | 5 | mg/L | 0.007 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Lead | 5 | mg/L | 0.045 | 0.4 | ND | ND | 0.068 | ND | ND | ND | ND | ND |
| Selenium | 1 | mg/L | 0.01 | ND | ND | ND | 0.071 | 0.1 | 0.087 | 0.088 | 0.055 | ND |
| **Total Petroleum Hydrocarbons** | | | | | | | | | | | | |
| TPH | | mg/kg | 1220 | 402 | 29.7 | 5200 | 2590 | 451 | 18.9 | NA | 43.9 | 18.2 |

ND - Not Detected
NA - Not Analyzed

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | NYSDEC | | 00-03386-001 | | 01-08096-001 | | 00-03386-006 | | 01-08096-005 | | 00-03386-004 | | 00-03386-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Class GA | | MW-1 | | MW-1 | | MW-2 | | MW-2 | | MW-3 | | MW-3 Du |
| | Depth: | Groundwater | | - | | - | | - | | - | | - | | - |
| | Laboratory ID: | Quality | | 201473.01 | | L4148-1 | | 201473.06 | | L4148-3 | | 201473.04 | | 201473.0 |
| | Sampling Date: | Standards | | 4/6/00 | | 8/8/2001 | | 4/6/00 | | 8/8/2001 | | 4/6/00 | | 4/6/00 |
| | Matrix: | and Guidance | | Water | | Water | | Water | | Water | | Water | | Water |
| | Validated: | Values (1) | | No | | No | | No | | No | | No | | No |
| Cas #: | Analyte: | | Units: | | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | | µg/L | 1 | U | 0.08 | U | 1 | U | 0.08 | U | 1 | U | 1 |
| 11104-28-2 | PCB 1221 | | µg/L | 1 | U | 0.06 | U | 1 | U | 0.06 | U | 1 | U | 1 |
| 11141-16-5 | PCB 1232 | | µg/L | 1 | U | 0.05 | U | 1 | U | 0.05 | U | 1 | U | 1 |
| 53469-21-9 | PCB 1242 | | µg/L | 1 | U | 0.06 | U | 1 | U | 0.06 | U | 1 | U | 1 |
| 12672-29-6 | PCB 1248 | | µg/L | 1 | U | 0.04 | U | 1 | U | 0.04 | U | 1 | U | 1 |
| 11097-69-1 | PCB 1254 | | µg/L | 1 | U | 0.03 | U | 1 | U | 0.03 | U | 1 | U | 1 |
| 11096-82-5 | PCB 1260 | | µg/L | 1 | U | 0.06 | U | 1 | U | 0.06 | U | 1 | U | 1 |
| | **Volatiles** | | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | | µg/L | 1 | U | 0.37 | U | 1 | U | 0.37 | U | 1 | U | 1 |
| 74-83-9 | Bromomethane | | µg/L | 1 | U | 0.45 | U | 1 | U | 0.45 | U | 1 | U | 1 |
| 75-01-4 | Vinyl Chloride | | µg/L | 1 | U | 0.07 | U | 1 | U | 0.07 | U | 1 | U | 1 |
| 75-00-3 | Chloroethane | | µg/L | 1 | U | 0.18 | U | 1 | U | 0.18 | U | 1 | U | 1 |
| 75-09-2 | Methylene Chloride | 5 | µg/L | 1 | U | 0.15 | U | 1 | U | 0.15 | U | 1 | U | 1 |
| 67-64-1 | Acetone | | µg/L | 10 | U | 1.44 | U | 10 | U | 1.44 | U | 10 | U | 10 |
| 75-15-0 | Carbon disulfide | | µg/L | | U | 0.22 | U | | U | 0.22 | U | | U | |
| 75-35-4 | 1,1-Dichloroethene | | µg/L | 1 | U | 0.14 | U | 1 | U | 0.14 | U | 1 | U | 1 |
| 75-34-3 | 1,1-Dichloroethane | | µg/L | 1 | U | 0.12 | U | 1 | U | 0.12 | U | 1 | U | 1 |
| 156-60-5 | t-1,2-Dichloroethene | | µg/L | 1 | U | 0.14 | U | 1 | U | 0.14 | U | 1 | U | 1 |
| 156-59-2 | c-1,2-Dichloroethene | 5 | µg/L | 1 | U | 0.14 | U | 1 | U | 0.14 | U | 1 | U | 1 |
| 67-66-3 | Chloroform | | µg/L | 1 | U | 1.7 | | 1 | U | 0.15 | U | 1 | U | 10 |
| 107-06-2 | 1,2-Dichloroethane | | µg/L | 1 | U | 0.13 | U | 1 | U | 0.13 | U | 1 | U | 1 |
| 78-93-3 | 2-Butanone | | µg/L | 10 | U | 6.25 | U | 10 | U | 6.25 | U | 10 | U | 10 |
| 71-55-6 | 1,1,1-Trichloroethane | | µg/L | 1 | U | 0.16 | U | 1 | U | 0.16 | U | 1 | U | 1 |
| 56-23-5 | Carbon Tetrachloride | | µg/L | 1 | U | 0.13 | U | 1 | U | 0.13 | U | 1 | U | 1 |
| 75-27-4 | Bromodichloromethane | | µg/L | 1 | U | 0.07 | U | 1 | U | 0.07 | U | 1 | U | 1 |
| 78-87-5 | 1,2-Dichloropropane | | µg/L | 1 | U | 0.15 | U | 1 | U | 0.15 | U | 1 | U | 1 |
| 10061-01-5 | cis-1,3-Dichloropropene | | µg/L | 1 | U | 0.07 | U | 1 | U | 0.07 | U | 1 | U | 1 |
| 79-01-6 | Trichloroethene | 5 | µg/L | 1 | U | 0.17 | U | 1 | U | 0.17 | U | 1 | U | 1 |
| 124-48-1 | Dibromochloromethane | | µg/L | 1 | U | 0.12 | U | 1 | U | 0.12 | U | 1 | U | 1 |
| 79-00-5 | 1,1,2-Trichloroethane | | µg/L | 1 | U | 0.2 | U | 1 | U | 0.2 | U | 1 | U | 1 |
| 71-43-2 | Benzene | 1 | µg/L | 1 | U | 0.13 | U | 1 | U | 0.13 | U | 1 | U | 1 |
| 10061-02-6 | trans-1,3-Dichloropropene | | µg/L | 1 | U | 0.06 | U | 1 | U | 0.06 | U | 1 | U | 1 |
| 75-25-2 | Bromoform | | µg/L | 1 | U | 0.09 | U | 1 | U | 0.09 | U | 1 | U | 1 |
| 108-10-1 | 4-Methyl-2-pentanone | | µg/L | 10 | U | 0.97 | U | 10 | U | 0.97 | U | 10 | U | 10 |
| 591-78-6 | 2-Hexanone | | µg/L | NA | | 1.48 | U | NA | | 1.48 | U | NA | | NA |
| 127-18-4 | Tetrachloroethene | 5 | µg/L | 1 | U | 0.2 | U | 1 | U | 0.2 | U | 1 | U | 1 |
| 108-88-3 | Toluene | 5 | µg/L | 1 | U | 0.14 | U | 1 | U | 0.14 | U | 1 | U | 1 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | µg/L | 1 | U | 0.09 | U | 1 | U | 0.09 | U | 1 | U | 1 |
| 108-90-7 | Chlorobenzene | | µg/L | 1 | U | 0.12 | U | 1 | U | 0.12 | U | 1 | U | 1 |
| 100-41-4 | Ethylbenzene | 5 | µg/L | 1 | U | 0.18 | U | 1 | U | 0.18 | U | 1 | U | 1 |
| 100-42-5 | Styrene | | µg/L | 1 | U | 0.14 | U | 1 | U | 0.14 | U | 1 | U | 1 |
| 108-38-3 | m,p-xylene | 5 | µg/L | 2 | U | 0.31 | U | 2 | U | 0.31 | U | 2 | U | 2 |
| 95-47-6 | o-xylene | 5 | µg/L | 1 | U | 0.16 | U | 1 | U | 0.16 | U | 1 | U | 1 |
| | | | | | | | | | | | | | | |
| | **Total BTEX** | | µg/L | **ND** | | **ND** | | **ND** | | **ND** | | **ND** | | **ND** |
| | **Semi-Volatiles** | | | | | | | | | | | | | |
| 108-95-2 | Phenol | | µg/L | NA | | 0.23 | U | NA | | 0.23 | U | NA | | NA |
| 111-44-4 | bis(2-Chloroethyl)ether | | µg/L | 1 | U | 0.57 | U | 1 | U | 0.57 | U | 1 | U | 1 |
| 95-57-8 | 2-Chlorophenol | | µg/L | NA | | 0.28 | U | NA | | 0.28 | U | NA | | NA |
| 541-73-1 | 1,3-Dichlorobenzene | | µg/L | 1 | U | 0.3 | U | 1 | U | 0.3 | U | 1 | U | 1 |
| 106-46-7 | 1,4-Dichlorobenzene | | µg/L | 1 | U | 0.36 | U | 1 | U | 0.36 | U | 1 | U | 1 |
| 95-50-1 | 1,2-Dichlorobenzene | | µg/L | 1 | U | 0.22 | U | 1 | U | 0.22 | U | 1 | U | 1 |
| 95-48-7 | 2-Methylphenol | | µg/L | NA | | 0.54 | U | NA | | 0.54 | U | NA | | NA |
| 108-60-1 | bis(2-Chloroisopropyl)ether | | µg/L | 1 | U | 0.81 | U | 1 | U | 0.81 | U | 1 | U | 1 |
| 106-44-5 | 3+4-Methylphenol | | µg/L | NA | | 0.42 | U | NA | | 0.42 | U | NA | | NA |
| 621-64-7 | N-Nitrosodi-n-propylamine | | µg/L | 1 | U | 0.48 | U | 1 | U | 0.48 | U | 1 | U | 1 |
| 67-72-1 | Hexachloroethane | | µg/L | 1 | U | 0.48 | U | 1 | U | 0.48 | U | 1 | U | 1 |
| 98-95-3 | Nitrobenzene | | µg/L | 1 | U | 0.54 | U | 1 | U | 0.54 | U | 1 | U | 1 |
| 78-59-1 | Isophorone | | µg/L | 1 | U | 0.52 | U | 1 | U | 0.52 | U | 1 | U | 1 |
| 88-75-5 | 2-Nitrophenol | | µg/L | NA | | 0.3 | U | NA | | 0.3 | U | NA | | NA |
| 105-67-9 | 2,4-Dimethylphenol | | µg/L | NA | | 0.76 | U | NA | | 0.76 | U | NA | | NA |
| 111-91-1 | bis(2-Chloroethoxy)methane | | µg/L | 1 | U | 0.41 | U | 1 | U | 0.41 | U | 1 | U | 1 |
| 120-83-2 | 2,4-Dichlorophenol | | µg/L | NA | | 0.37 | U | NA | | 0.37 | U | NA | | NA |
| 120-82-1 | 1,2,4-Trichlorobenzene | | µg/L | 1 | U | 0.43 | U | 1 | U | 0.43 | U | 1 | U | 1 |
| 106-47-8 | 4-Chloroaniline | | µg/L | NA | | 0.43 | U | NA | | 0.43 | U | NA | | NA |
| 87-68-3 | Hexachlorobutadiene | | µg/L | 1 | U | 0.52 | U | 1 | U | 0.52 | U | 1 | U | 1 |
| 59-50-7 | 4-Chloro-3-methylphenol | | µg/L | NA | | 0.28 | U | NA | | 0.28 | U | NA | | NA |
| 77-47-4 | Hexachlorocyclopentadiene | | µg/L | 10 | U | 0.77 | U | 10 | U | 0.77 | U | 10 | U | 10 |
| 88-06-2 | 2,4,6-Trichlorophenol | | µg/L | NA | | 0.56 | U | NA | | 0.56 | U | NA | | NA |
| 95-95-4 | 2,4,5-Trichlorophenol | | µg/L | NA | | 0.44 | U | NA | | 0.44 | U | NA | | NA |

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | NYSDEC | | 00-03386-001 | | 01-08096-001 | | 00-03386-006 | | 01-08096-005 | | 00-03386-004 | | 00-03386-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Class GA | | MW-1 | | MW-1 | | MW-2 | | MW-2 | | MW-3 | | MW-3 Du |
| | Depth: | Groundwater | | - | | - | | - | | - | | - | | - |
| | Laboratory ID: | Quality | | 201473.01 | | L4148-1 | | 201473.06 | | L4148-3 | | 201473.04 | | 201473.0 |
| | Sampling Date: | Standards | | 4/6/00 | | 8/8/2001 | | 4/6/00 | | 8/8/2001 | | 4/6/00 | | 4/6/00 |
| | Matrix: | and Guidance | | Water | | Water | | Water | | Water | | Water | | Water |
| | Validated: | Values (1) | | No | | No | | No | | No | | No | | No |
| Cas #: | Analyte: | | Units: | | | | | | | | | | | |
| 91-58-7 | 2-Chloronaphthalene | | µg/L | 1 | U | 0.34 | U | 1 | U | 0.34 | U | 1 | U | 1 |
| 88-74-4 | 2-Nitroaniline | | µg/L | NA | | 0.4 | U | NA | | 0.4 | U | NA | | NA |
| 131-11-3 | Dimethylphthalate | | µg/L | 1 | U | 1.37 | U | 1 | U | 1.37 | U | 1 | U | 1 |
| 606-20-2 | 2,6-Dinitrotoluene | | µg/L | 1 | U | 0.55 | U | 1 | U | 0.55 | U | 1 | U | 1 |
| 99-09-2 | 3-Nitroaniline | | µg/L | NA | | 0.52 | U | NA | | 0.52 | U | NA | | NA |
| 51-28-5 | 2,4-Dinitrophenol | | µg/L | NA | | 2.34 | U | NA | | 2.34 | U | NA | | NA |
| 100-02-7 | 4-Nitrophenol | | µg/L | NA | | 0.9 | U | NA | | 0.9 | U | NA | | NA |
| 132-64-9 | Dibenzofuran | NS | µg/L | NA | | 0.52 | U | NA | | 0.52 | U | NA | | NA |
| 121-14-2 | 2,4-Dinitrotoluene | | µg/L | 1 | U | 0.31 | U | 1 | U | 0.31 | U | 1 | U | 1 |
| 84-66-2 | Diethylphthalate | 50 (G) | µg/L | 1 | U | 0.87 | U | 1 | U | 0.25 | J | 1 | U | 1 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | | µg/L | 1 | U | 0.51 | U | 1 | U | 0.51 | U | 1 | U | 1 |
| 100-01-6 | 4-Nitroaniline | | µg/L | NA | | 0.6 | U | NA | | 0.6 | U | NA | | NA |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | | µg/L | NA | | 0.3 | U | NA | | 0.3 | U | NA | | NA |
| 86-30-6 | N-Nitrosodiphenylamine | | µg/L | 1 | U | 0.72 | U | 1 | U | 0.72 | U | 1 | U | 1 |
| 101-55-3 | 4-Bromophenyl phenyl ether | | µg/L | 1 | U | 0.38 | U | 1 | U | 0.38 | U | 1 | U | 1 |
| 118-74-1 | Hexachlorobenzene | | µg/L | 1 | U | 0.38 | U | 1 | U | 0.38 | U | 1 | U | 1 |
| 87-86-5 | Pentachlorophenol | | µg/L | NA | | 0.36 | U | NA | | 0.36 | U | NA | | NA |
| 86-74-8 | Carbazole | NS | µg/L | NA | | 0.41 | U | NA | | 2.1 | | NA | | NA |
| 84-74-2 | Di-n-butylphthalate | NS | µg/L | 1 | U | 0.26 | J | 1 | U | 0.42 | U | 1 | U | 1 |
| 85-68-7 | Butylbenzylphthalate | | µg/L | 1 | U | 0.54 | U | 1 | U | 0.54 | U | 1 | U | 1 |
| 91-94-1 | 3,3'-Dichlorobenzidine | | µg/L | 10 | U | 1.01 | U | 10 | U | 1.01 | U | 10 | U | 10 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 5 | µg/L | 1 | U | 0.63 | J | 1 | U | 3.8 | | 1 | U | 1 |
| 117-84-0 | Di-n-octylphthalate | | µg/L | 1 | U | 0.48 | U | 1 | U | 0.48 | U | 1 | U | 1 |
| | | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 20 (G) | µg/L | 1 | U | 0.51 | U | 1 | U | 13.2 | | 1 | U | 1 |
| 208-96-8 | Acenaphthylene | NS | µg/L | 1 | U | 0.49 | U | 1 | U | 3.3 | | 1 | U | 1 |
| 120-12-7 | Anthracene | 50 (G) | µg/L | 1 | U | 0.41 | U | 1 | U | 1.2 | | 1 | U | 1 |
| 191-24-2 | Benzo(g,h,i)perylene | NS | µg/L | 1 | U | 0.38 | U | 1 | U | 0.38 | U | 1 | U | 1 |
| 206-44-0 | Fluoranthene | 50 (G) | µg/L | 1 | U | 0.54 | U | 1 | U | 2.6 | | 1 | U | 1 |
| 86-73-7 | Fluorene | 50 (G) | µg/L | 1 | U | 0.61 | U | 1 | U | 1.8 | | 1 | U | 1 |
| 91-57-6 | 2-Methylnaphthalene | NS | µg/L | NA | | 0.35 | U | NA | | 0.41 | | NA | | NA |
| 91-20-3 | Naphthalene | 10 (G) | µg/L | 1 | U | 0.3 | U | 1 | U | 1.2 | | 1 | U | 1 |
| 85-01-8 | Phenanthrene | 50 (G) | µg/L | 1 | U | 0.36 | U | 1 | U | 1.1 | | 1 | U | 1 |
| 129-00-0 | Pyrene | 50 (G) | µg/L | 1 | U | 0.47 | U | 1 | U | 3.5 | | 1 | U | 1 |
| | | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | µg/L | ND | | ND | | ND | | 28.31 | | ND | | ND |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 0.002 | µg/L | 1 | U | 0.44 | U | 1 | U | 1.9 | | 1 | U | 1 |
| 205-99-2 | Benzo(b)fluoranthene | 0.002 | µg/L | 1 | U | 0.79 | U | 1 | U | 1.4 | | 1 | U | 1 |
| 207-08-9 | Benzo(k)fluoranthene | 0.002 | µg/L | 1 | U | 0.7 | U | 1 | U | 2.3 | | 1 | U | 1 |
| 50-32-8 | Benzo(a)pyrene | ND | µg/L | 1 | U | 0.33 | U | 1 | U | 3.2 | | 1 | U | 1 |
| 218-01-9 | Chrysene | 0.002 | µg/L | 1 | U | 0.32 | U | 1 | U | 2 | | 1 | U | 1 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.002 | µg/L | 1 | U | 0.34 | U | 1 | U | 1.1 | | 1 | U | 1 |
| 53-70-3 | Dibenz(a,h)anthracene | NS | µg/L | 1 | U | 0.42 | U | 1 | U | 0.42 | U | 1 | U | 1 |
| | | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | µg/L | ND | | ND | | ND | | 11.9 | | ND | | ND |
| | **Total PAHs** | | **µg/L** | **ND** | | **ND** | | **ND** | | **40.21** | | **ND** | | **ND** |
| | **Metals** | | | | | | | | | | | | | |
| 7439-97-6 | Mercury | 0.0007 | mg/L | 0.00025 | U | 0.000031 | J | 0.00025 | U | 0.00029 | | 0.00025 | U | 0.00025 |
| 7429-90-5 | Aluminum | 0.1 | mg/L | 11 | | 17 | | **19** | | 10 | | **0.49** | | **0.64** |
| 7440-36-0 | Antimony | 0.003 | mg/L | 0.005 | U | 0.0091 | | 0.005 | U | 0.008 | | 0.005 | U | 0.005 |
| 7440-38-2 | Arsenic | 0.025 | mg/L | 0.005 | U | 0.0048 | U | 0.005 | U | 0.0048 | U | 0.005 | U | 0.005 |
| 7440-39-3 | Barium | 1 | mg/L | 0.23 | | 0.27 | | 0.69 | | 0.63 | | 0.19 | | 0.19 |
| 7440-41-7 | Beryllium | 0.003 | mg/L | 0.001 | U | 0.0012 | U | 0.001 | U | 0.0012 | U | 0.001 | U | 0.001 |
| 7440-43-9 | Cadmium | 0.005 (G) | mg/L | 0.005 | U | 0.0012 | U | 0.005 | U | 0.0001 | J | 0.005 | U | 0.005 |
| 7440-70-2 | Calcium | NS | mg/L | 150 | | 92.8 | | 250 | | 161 | | 160 | | 160 |
| 7440-47-3 | Chromium | 0.05 | mg/L | 0.041 | | 0.076 | | 0.045 | | 0.027 | | 0.005 | U | 0.005 |
| 7440-48-4 | Cobalt | NS | mg/L | 0.01 | | 0.018 | | 0.024 | | 0.012 | | 0.005 | U | 0.005 |
| 7440-50-8 | Copper | 0.2 | mg/L | 0.04 | | 0.046 | | 0.08 | | 0.031 | | 0.02 | | 0.03 |
| 7439-89-6 | Iron | 0.3 | mg/L | **18** | | 32.2 | | **31** | | 25.2 | | **0.78** | | **0.95** |
| 7439-92-1 | Lead | 0.025 | mg/L | 0.005 | U | 0.01 | | 0.021 | | 0.017 | | 0.005 | U | 0.005 |
| 7439-95-4 | Magnesium | 35 (G) | mg/L | **42** | | 35.6 | | **90** | | 51.8 | | **44** | | **45** |
| 7439-96-5 | Manganese | 0.3 | mg/L | **0.75** | | 0.87 | | **2.7** | | 2.29 | | **0.89** | | **0.92** |
| 7440-02-0 | Nickel | 0.1 | mg/L | 0.03 | | 0.028 | | 0.06 | | 0.018 | | 0.01 | | 0.02 |
| 7440-09-7 | Potassium | NS | mg/L | 24 | | 19.5 | | 36 | | 19.8 | | 14 | | 10 |
| 7782-49-2 | Selenium | 0.01 | mg/L | 0.012 | | 0.0047 | U | 0.005 | U | 0.0047 | U | 0.008 | | 0.007 |
| 7440-22-4 | Silver | 0.05 | mg/L | 0.005 | U | 0.0015 | U | 0.005 | U | 0.0015 | U | 0.005 | U | 0.005 |
| 7440-23-5 | Sodium | 20 | mg/L | **38** | | 23.9 | | **450** | | 757 | | **120** | | **120** |
| 7440-28-0 | Thallium | 0.0005 (G) | mg/L | 0.005 | U | 0.0039 | U | 0.005 | U | 0.0039 | U | 0.005 | U | 0.005 |

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | NYSDEC | | 00-03386-001 | | 01-08096-001 | | 00-03386-006 | | 01-08096-005 | | 00-03386-004 | | 00-03386-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Class GA | | MW-1 | | MW-1 | | MW-2 | | MW-2 | | MW-3 | | MW-3 Du |
| | Depth: | Groundwater | | - | | - | | - | | - | | - | | - |
| | Laboratory ID: | Quality | | 201473.01 | | L4148-1 | | 201473.06 | | L4148-3 | | 201473.04 | | 201473.0 |
| | Sampling Date: | Standards | | 4/6/00 | | 8/8/2001 | | 4/6/00 | | 8/8/2001 | | 4/6/00 | | 4/6/00 |
| | Matrix: | and Guidance | | Water | | Water | | Water | | Water | | Water | | Water |
| | Validated: | Values (1) | | No | | No | | No | | No | | No | | No |
| Cas #: | Analyte: | | Units: | | | | | | | | | | | |
| 7440-62-2 | Vanadium | NS | mg/L | 0.031 | | 0.019 | | 0.078 | | 0.0094 | | 0.005 | U | 0.005 |
| 7440-66-6 | Zinc | 2 (G) | mg/L | 0.08 | | 0.13 | | 0.2 | | 0.12 | | 0.01 | U | 0.01 |
| 57-12-5 | Cyanide | 0.2 | mg/L | 0.12 | | 0.008 | | 0.02 | | 0.003 | | 0.02 | U | 0.17 |

(1) - Ambient Water Quality Standards and Guidance Values
TOGS 1.1.1 (October 1998)
U - Below detection limit
J - Estimated value
ND - Not detected
(G) - Guidance value
NS - No standard or guidance value
NR - Not run

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | NYSDEC | | 08 | 01-08096-004 | | 00-03386-005 | | 01-08096-007 | | 00-03386-007 | | 01-08096-008 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Class GA | | p | MW-3 | | MW-4 | | MW-4 | | MW-5 | | MW-5 | |
| | Depth: | Groundwater | | | - | | - | | - | | - | | - | |
| | Laboratory ID: | Quality | | 8 | L4148-2 | | 201473.05 | | L4148-5 | | 201473.07 | | L4148-6 | |
| | Sampling Date: | Standards | | | 8/8/2001 | | 4/6/00 | | 8/9/2001 | | 4/6/00 | | 8/9/2001 | |
| | Matrix: | and Guidance | | | Water | | Water | | Water | | Water | | Water | |
| | Validated: | Values (1) | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | | µg/L | U | 0.08 | U | 1 | U | 0.08 | U | 1 | U | 0.08 | U |
| 11104-28-2 | PCB 1221 | | µg/L | U | 0.06 | U | 1 | U | 0.06 | U | 1 | U | 0.06 | U |
| 11141-16-5 | PCB 1232 | | µg/L | U | 0.05 | U | 1 | U | 0.05 | U | 1 | U | 0.05 | U |
| 53469-21-9 | PCB 1242 | | µg/L | U | 0.06 | U | 1 | U | 0.06 | U | 1 | U | 0.06 | U |
| 12672-29-6 | PCB 1248 | | µg/L | U | 0.04 | U | 1 | U | 0.04 | U | 1 | U | 0.04 | U |
| 11097-69-1 | PCB 1254 | | µg/L | U | 0.03 | U | 1 | U | 0.03 | U | 1 | U | 0.03 | U |
| 11096-82-5 | PCB 1260 | | µg/L | U | 0.06 | U | 1 | U | 0.06 | U | 1 | U | 0.06 | U |
| | **Volatiles** | | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | | µg/L | U | 0.37 | U | 1 | U | 0.37 | U | 1 | U | 0.37 | U |
| 74-83-9 | Bromomethane | | µg/L | U | 0.45 | U | 1 | U | 0.45 | U | 1 | U | 0.45 | U |
| 75-01-4 | Vinyl Chloride | | µg/L | U | 0.07 | U | 1 | U | 0.07 | U | 1 | U | 0.07 | U |
| 75-00-3 | Chloroethane | | µg/L | U | 0.18 | U | 1 | U | 0.18 | U | 1 | U | 0.18 | U |
| 75-09-2 | Methylene Chloride | 5 | µg/L | U | 0.15 | U | 1 | U | 0.15 | U | 1 | U | 0.15 | U |
| 67-64-1 | Acetone | | µg/L | U | 1.44 | U | 10 | U | 1.44 | U | 10 | U | 1.44 | U |
| 75-15-0 | Carbon disulfide | | µg/L | U | 0.22 | U | | U | 0.22 | U | | U | 0.22 | U |
| 75-35-4 | 1,1-Dichloroethene | | µg/L | U | 0.14 | U | 1 | U | 0.14 | U | 1 | U | 0.14 | U |
| 75-34-3 | 1,1-Dichloroethane | | µg/L | U | 0.12 | U | 1 | U | 0.12 | U | 1 | U | 0.12 | U |
| 156-60-5 | t-1,2-Dichloroethene | | µg/L | U | 0.14 | U | 1 | U | 0.14 | U | 1 | U | 0.14 | U |
| 156-59-2 | c-1,2-Dichloroethene | 5 | µg/L | U | 0.14 | U | 1 | U | 0.14 | U | 1 | U | 0.14 | U |
| 67-66-3 | Chloroform | | µg/L | | 0.15 | U | 1 | U | 0.15 | U | 1 | U | 0.15 | U |
| 107-06-2 | 1,2-Dichloroethane | | µg/L | U | 0.13 | U | 1 | U | 0.13 | U | 1 | U | 0.13 | U |
| 78-93-3 | 2-Butanone | | µg/L | U | 6.25 | U | 10 | U | 6.25 | U | 10 | U | 6.25 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | µg/L | U | 0.16 | U | 1 | U | 0.16 | U | 1 | U | 0.16 | U |
| 56-23-5 | Carbon Tetrachloride | | µg/L | U | 0.13 | U | 1 | U | 0.13 | U | 1 | U | 0.13 | U |
| 75-27-4 | Bromodichloromethane | | µg/L | U | 0.07 | U | 1 | U | 0.07 | U | 1 | U | 0.07 | U |
| 78-87-5 | 1,2-Dichloropropane | | µg/L | U | 0.15 | U | 1 | U | 0.15 | U | 1 | U | 0.15 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | µg/L | U | 0.07 | U | 1 | U | 0.07 | U | 1 | U | 0.07 | U |
| 79-01-6 | Trichloroethene | 5 | µg/L | U | 0.17 | U | 1 | U | 0.17 | U | 1 | U | 0.17 | U |
| 124-48-1 | Dibromochloromethane | | µg/L | U | 0.12 | U | 1 | U | 0.12 | U | 1 | U | 0.12 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | µg/L | U | 0.2 | U | 1 | U | 0.2 | U | 1 | U | 0.2 | U |
| 71-43-2 | Benzene | 1 | µg/L | U | 0.13 | U | 1 | U | 0.13 | U | 4 | | 0.13 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | | µg/L | U | 0.06 | U | 1 | U | 0.06 | U | 1 | U | 0.06 | U |
| 75-25-2 | Bromoform | | µg/L | U | 0.09 | U | 1 | U | 0.09 | U | 1 | U | 0.09 | U |
| 108-10-1 | 4-Methyl-2-pentanone | | µg/L | U | 0.97 | U | 10 | U | 0.97 | U | 10 | U | 0.97 | U |
| 591-78-6 | 2-Hexanone | | µg/L | | 1.48 | U | NA | | 1.48 | U | NA | | 1.48 | U |
| 127-18-4 | Tetrachloroethene | 5 | µg/L | U | 0.2 | U | 1 | U | 0.2 | U | 1 | U | 0.2 | U |
| 108-88-3 | Toluene | 5 | µg/L | U | 0.14 | U | 1 | U | 0.14 | U | 47 | | 5.8 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | µg/L | U | 0.09 | U | 1 | U | 0.09 | U | 1 | U | 0.09 | U |
| 108-90-7 | Chlorobenzene | | µg/L | U | 0.12 | U | 1 | U | 0.12 | U | 1 | U | 0.12 | U |
| 100-41-4 | Ethylbenzene | 5 | µg/L | U | 0.18 | U | 1 | U | 0.18 | U | 270 | | 60.8 | |
| 100-42-5 | Styrene | | µg/L | U | 0.14 | U | 1 | U | 0.14 | U | 1 | U | 0.14 | U |
| 108-38-3 | m,p-xylene | 5 | µg/L | U | 0.31 | U | 2 | U | 0.31 | U | 210 | | 13 | |
| 95-47-6 | o-xylene | 5 | µg/L | U | 0.16 | U | 1 | U | 0.16 | U | 170 | | 48.6 | |
| | | | | | | | | | | | | | | |
| | **Total BTEX** | | µg/L | | **ND** | | **ND** | | **ND** | | **701** | | **128.2** | |
| | **Semi-Volatiles** | | | | | | | | | | | | | |
| 108-95-2 | Phenol | | µg/L | | 0.23 | U | NA | | 0.23 | U | NA | | 0.23 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | | µg/L | U | 0.57 | U | 1 | U | 0.57 | U | 1 | U | 0.57 | U |
| 95-57-8 | 2-Chlorophenol | | µg/L | | 0.28 | U | NA | | 0.28 | U | NA | | 0.28 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | µg/L | U | 0.3 | U | 1 | U | 0.3 | U | 1 | U | 0.3 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | µg/L | U | 0.36 | U | 1 | U | 0.36 | U | 1 | U | 0.36 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | µg/L | U | 0.22 | U | 1 | U | 0.22 | U | 1 | U | 0.22 | U |
| 95-48-7 | 2-Methylphenol | | µg/L | | 0.54 | U | NA | | 0.54 | U | NA | | 0.54 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | | µg/L | U | 0.81 | U | 1 | U | 0.81 | U | 1 | U | 0.81 | U |
| 106-44-5 | 3+4-Methylphenol | | µg/L | | 0.42 | U | NA | | 0.42 | U | NA | | 0.42 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | | µg/L | U | 0.48 | U | 1 | U | 0.48 | U | 1 | U | 0.48 | U |
| 67-72-1 | Hexachloroethane | | µg/L | U | 0.48 | U | 1 | U | 0.48 | U | 1 | U | 0.48 | U |
| 98-95-3 | Nitrobenzene | | µg/L | U | 0.54 | U | 1 | U | 0.54 | U | 1 | U | 0.54 | U |
| 78-59-1 | Isophorone | | µg/L | U | 0.52 | U | 1 | U | 0.52 | U | 1 | U | 0.52 | U |
| 88-75-5 | 2-Nitrophenol | | µg/L | | 0.3 | U | NA | | 0.3 | U | NA | | 0.3 | U |
| 105-67-9 | 2,4-Dimethylphenol | | µg/L | | 0.76 | U | NA | | 0.76 | U | NA | | 0.76 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | | µg/L | U | 0.41 | U | 1 | U | 0.41 | U | 1 | U | 0.41 | U |
| 120-83-2 | 2,4-Dichlorophenol | | µg/L | | 0.37 | U | NA | | 0.37 | U | NA | | 0.37 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | µg/L | U | 0.43 | U | 1 | U | 0.43 | U | 1 | U | 0.43 | U |
| 106-47-8 | 4-Chloroaniline | | µg/L | | 0.43 | U | NA | | 0.43 | U | NA | | 0.43 | U |
| 87-68-3 | Hexachlorobutadiene | | µg/L | U | 0.52 | U | 1 | U | 0.52 | U | 1 | U | 0.52 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | | µg/L | | 0.28 | U | NA | | 0.28 | U | NA | | 0.28 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | µg/L | U | 0.77 | U | 10 | U | 0.77 | U | 10 | U | 0.77 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | µg/L | | 0.56 | U | NA | | 0.56 | U | NA | | 0.56 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | µg/L | | 0.44 | U | NA | | 0.44 | U | NA | | 0.44 | U |

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | NYSDEC | | 08 | 01-08096-004 | | 00-03386-005 | | 01-08096-007 | | 00-03386-007 | | 01-08096-008 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Class GA | | p | MW-3 | | MW-4 | | MW-4 | | MW-5 | | MW-5 | |
| | Depth: | Groundwater | | | - | | - | | - | | - | | - | |
| | Laboratory ID: | Quality | | 8 | L4148-2 | | 201473.05 | | L4148-5 | | 201473.07 | | L4148-6 | |
| | Sampling Date: | Standards | | | 8/8/2001 | | 4/6/00 | | 8/9/2001 | | 4/6/00 | | 8/9/2001 | |
| | Matrix: | and Guidance | | | Water | | Water | | Water | | Water | | Water | |
| | Validated: | Values (1) | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | | |
| 91-58-7 | 2-Chloronaphthalene | | µg/L | U | 0.34 | U | 1 | U | 0.34 | U | 1 | U | 0.34 | U |
| 88-74-4 | 2-Nitroaniline | | µg/L | | 0.4 | U | NA | | 0.4 | U | NA | | 0.4 | U |
| 131-11-3 | Dimethylphthalate | | µg/L | U | 1.37 | U | 1 | U | 1.37 | U | 1 | U | 1.37 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | µg/L | U | 0.55 | U | 1 | U | 0.55 | U | 1 | U | 0.55 | U |
| 99-09-2 | 3-Nitroaniline | | µg/L | | 0.52 | U | NA | | 0.52 | U | NA | | 0.52 | U |
| 51-28-5 | 2,4-Dinitrophenol | | µg/L | | 2.34 | U | NA | | 2.34 | U | NA | | 2.34 | U |
| 100-02-7 | 4-Nitrophenol | | µg/L | | 0.9 | U | NA | | 0.9 | U | NA | | 0.9 | U |
| 132-64-9 | Dibenzofuran | NS | µg/L | | 0.52 | U | NA | | 0.52 | U | NA | | 0.52 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | µg/L | U | 0.31 | U | 1 | U | 0.31 | U | 1 | U | 0.31 | U |
| 84-66-2 | Diethylphthalate | 50 (G) | µg/L | U | 0.87 | U | 1 | U | 0.87 | U | 1 | U | 0.87 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | | µg/L | U | 0.51 | U | 1 | U | 0.51 | U | 1 | U | 0.51 | U |
| 100-01-6 | 4-Nitroaniline | | µg/L | | 0.6 | U | NA | | 0.6 | U | NA | | 0.6 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | | µg/L | | 0.3 | U | NA | | 0.3 | U | NA | | 0.3 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | µg/L | U | 0.72 | U | 1 | U | 0.72 | U | 1 | U | 0.72 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | | µg/L | U | 0.38 | U | 1 | U | 0.38 | U | 1 | U | 0.38 | U |
| 118-74-1 | Hexachlorobenzene | | µg/L | U | 0.38 | U | 1 | U | 0.38 | U | 1 | U | 0.38 | U |
| 87-86-5 | Pentachlorophenol | | µg/L | | 0.36 | U | NA | | 0.36 | U | NA | | 0.36 | U |
| 86-74-8 | Carbazole | NS | µg/L | | 0.41 | U | NA | | 0.41 | U | NA | | 0.41 | U |
| 84-74-2 | Di-n-butylphthalate | NS | µg/L | U | 0.24 | J | 1 | U | 0.21 | J | 1 | U | 0.22 | J |
| 85-68-7 | Butylbenzylphthalate | | µg/L | U | 0.54 | U | 1 | U | 0.54 | U | 1 | U | 0.54 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | µg/L | U | 1.01 | U | 10 | U | 1.01 | U | 10 | U | 1.01 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 5 | µg/L | U | 0.95 | | 1 | U | 1.1 | | 16 | | 1.3 | |
| 117-84-0 | Di-n-octylphthalate | | µg/L | U | 0.48 | U | 1 | U | 0.48 | U | 1 | U | 0.48 | U |
| | | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 20 (G) | µg/L | U | 0.51 | U | 1 | U | 0.51 | U | **84** | | 0.51 | U |
| 208-96-8 | Acenaphthylene | NS | µg/L | U | 0.49 | U | 1 | U | 0.49 | U | 10 | | 0.49 | U |
| 120-12-7 | Anthracene | 50 (G) | µg/L | U | 0.41 | U | 1 | U | 0.41 | U | 11 | | 0.41 | U |
| 191-24-2 | Benzo(g,h,i)perylene | NS | µg/L | U | 0.38 | U | 1 | U | 0.38 | U | 1 | U | 0.38 | U |
| 206-44-0 | Fluoranthene | 50 (G) | µg/L | U | 0.54 | U | 1 | U | 0.54 | U | 7 | | 0.54 | U |
| 86-73-7 | Fluorene | 50 (G) | µg/L | U | 0.61 | U | 1 | U | 0.61 | U | 38 | | 0.61 | U |
| 91-57-6 | 2-Methylnaphthalene | NS | µg/L | | 0.35 | U | NA | | 0.35 | U | NA | | 0.35 | U |
| 91-20-3 | Naphthalene | 10 (G) | µg/L | U | 0.21 | J | 1 | U | 0.3 | U | **2900** | | 0.88 | |
| 85-01-8 | Phenanthrene | 50 (G) | µg/L | U | 0.36 | U | 1 | U | 0.36 | U | 36 | | 0.36 | U |
| 129-00-0 | Pyrene | 50 (G) | µg/L | U | 0.47 | U | 1 | U | 0.47 | U | 9 | | 0.31 | J |
| | | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | µg/L | | 0.21 | | ND | | ND | | 3095 | | 1.19 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 0.002 | µg/L | U | 0.44 | U | 1 | U | 0.44 | U | **3** | | 0.44 | U |
| 205-99-2 | Benzo(b)fluoranthene | 0.002 | µg/L | U | 0.79 | U | 1 | U | 0.79 | U | **2** | | 0.79 | U |
| 207-08-9 | Benzo(k)fluoranthene | 0.002 | µg/L | U | 0.7 | U | 1 | U | 0.7 | U | **100** | | 0.7 | U |
| 50-32-8 | Benzo(a)pyrene | ND | µg/L | U | 0.33 | U | 1 | U | 0.33 | U | **100** | | 0.29 | J |
| 218-01-9 | Chrysene | 0.002 | µg/L | U | 0.32 | U | 1 | U | 0.32 | U | **3** | | 0.32 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.002 | µg/L | U | 0.34 | U | 1 | U | 0.34 | U | 1 | U | 0.34 | U |
| 53-70-3 | Dibenz(a,h)anthracene | NS | µg/L | U | 0.42 | U | 1 | U | 0.42 | U | 1 | U | 0.42 | U |
| | | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | µg/L | | ND | | ND | | ND | | 208 | | 0.29 | |
| | **Total PAHs** | | **µg/L** | | **0.21** | | **ND** | | ND | | **3303** | | **1.48** | |
| | **Metals** | | | | | | | | | | | | | |
| 7439-97-6 | Mercury | 0.0007 | mg/L | U | 0.00034 | J | 0.00025 | U | 0.000092 | | 0.00025 | U | 0.00068 | |
| 7429-90-5 | Aluminum | 0.1 | mg/L | | 10.2 | | **3.3** | | 11.8 | | **1.7** | | 4.3 | |
| 7440-36-0 | Antimony | 0.003 | mg/L | U | 0.012 | | 0.005 | U | 0.0069 | | 0.005 | U | 0.0058 | |
| 7440-38-2 | Arsenic | 0.025 | mg/L | U | 0.0048 | U | 0.005 | U | 0.0048 | U | 0.005 | U | 0.0048 | U |
| 7440-39-3 | Barium | 1 | mg/L | | 0.19 | | 0.092 | | 0.43 | | 0.18 | | 0.28 | |
| 7440-41-7 | Beryllium | 0.003 | mg/L | U | 0.0012 | U | 0.001 | U | 0.0012 | U | 0.001 | U | 0.0012 | U |
| 7440-43-9 | Cadmium | 0.005 (G) | mg/L | U | 0.0003 | J | 0.005 | U | 0.0009 | J | 0.005 | U | 0.001 | J |
| 7440-70-2 | Calcium | NS | mg/L | | 96.8 | | 24 | | 187 | | 38 | | 67.2 | |
| 7440-47-3 | Chromium | 0.05 | mg/L | U | 0.022 | | 0.01 | | 0.028 | | 0.005 | U | 0.018 | |
| 7440-48-4 | Cobalt | NS | mg/L | U | 0.013 | | 0.006 | | 0.03 | | 0.005 | U | 0.0053 | |
| 7440-50-8 | Copper | 0.2 | mg/L | | 0.031 | | 0.02 | | 0.043 | | **0.82** | | 0.024 | |
| 7439-89-6 | Iron | 0.3 | mg/L | | 20.7 | | **6** | | 19.3 | | **3.9** | | 10.4 | |
| 7439-92-1 | Lead | 0.025 | mg/L | U | 0.0078 | | 0.005 | U | 0.013 | | 0.005 | U | 0.0072 | |
| 7439-95-4 | Magnesium | 35 (G) | mg/L | | 36.3 | | 10 | | 80.9 | | 6.6 | | 10.4 | |
| 7439-96-5 | Manganese | 0.3 | mg/L | | 0.93 | | **0.59** | | 5.47 | | 0.25 | | 0.42 | |
| 7440-02-0 | Nickel | 0.1 | mg/L | | 0.021 | | 0.02 | | 0.049 | | 0.01 | U | 0.009 | |
| 7440-09-7 | Potassium | NS | mg/L | | 8.69 | | 7.7 | | 26.1 | | 10 | | 7.63 | |
| 7782-49-2 | Selenium | 0.01 | mg/L | | 0.0025 | J | 0.005 | U | 0.0047 | U | 0.005 | U | 0.0034 | J |
| 7440-22-4 | Silver | 0.05 | mg/L | U | 0.0089 | | 0.005 | U | 0.0015 | U | 0.005 | U | 0.0015 | U |
| 7440-23-5 | Sodium | 20 | mg/L | | 61.6 | | **86** | | 497 | | **75** | | 15.9 | |
| 7440-28-0 | Thallium | 0.0005 (G) | mg/L | U | 0.0039 | U | 0.005 | U | 0.0039 | U | 0.005 | U | 0.0039 | U |

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | NYSDEC | | 08 | 01-08096-004 | | 00-03386-005 | | 01-08096-007 | | 00-03386-007 | | 01-08096-008 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Class GA | | p | MW-3 | | MW-4 | | MW-4 | | MW-5 | | MW-5 | |
| | Depth: | Groundwater | | | - | | - | | - | | - | | - | |
| | Laboratory ID: | Quality | | 8 | L4148-2 | | 201473.05 | | L4148-5 | | 201473.07 | | L4148-6 | |
| | Sampling Date: | Standards | | | 8/8/2001 | | 4/6/00 | | 8/9/2001 | | 4/6/00 | | 8/9/2001 | |
| | Matrix: | and Guidance | | | Water | | Water | | Water | | Water | | Water | |
| | Validated: | Values (1) | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | | |
| 7440-62-2 | Vanadium | NS | mg/L | U | 0.0011 | J | 0.025 | | 0.0045 | | 0.007 | | 0.0043 | |
| 7440-66-6 | Zinc | 2 (G) | mg/L | U | 0.091 | | 0.01 | U | 0.16 | | 0.01 | U | 0.24 | |
| 57-12-5 | Cyanide | 0.2 | mg/L | | 0.002 | J | 0.02 | U | 0.005 | | **0.25** | | 0.22 | |
| | | | | | | | | | | | | | | |
| (1) - Ambient Water Quality Standards and Guidance Values | | | | | | | | | | | | | | |
| TOGS 1.1.1 (October 1998) | | | | | | | | | | | | | | |
| U - Below detection limit | | | | | | | | | | | | | | |
| J - Estimated value | | | | | | | | | | | | | | |
| ND - Not detected | | | | | | | | | | | | | | |
| (G) - Guidance value | | | | | | | | | | | | | | |
| NS - No standard or guidance value | | | | | | | | | | | | | | |
| NR - Not run | | | | | | | | | | | | | | |

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | NYSDEC | | 01-04484-001 | | 01-04484-002 | | 01-04484-003 | | 01-04484-006 | | 01-08096-006 | | 00-02434-( |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Class GA | | MW-6 | | MW-7 | | MW-8 | | MW-8 (Dup) | | MW-A | | TW-1 |
| | Depth: | Groundwater | | - | | - | | - | | - | | - | | - |
| | Laboratory ID: | Quality | | L4113-1 | | L4113-2 | | L4113-3 | | L4113-4 | | L4148-4 | | J4459-3 |
| | Sampling Date: | Standards | | 7/26/2001 | | 7/26/2001 | | 7/27/2001 | | 7/27/2001 | | 8/8/2001 | | 3/14/00 |
| | Matrix: | and Guidance | | Water | | Water | | Water | | Water | | Water | | Water |
| | Validated: | Values (1) | | No | | No | | No | | No | | No | | No |
| Cas #: | Analyte: | | Units: | | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | | µg/L | 0.08 | U | 0.08 | U | 0.08 | U | 0.08 | U | 0.08 | U | 0.080 |
| 11104-28-2 | PCB 1221 | | µg/L | 0.06 | U | 0.06 | U | 0.06 | U | 0.06 | U | 0.06 | U | 0.030 |
| 11141-16-5 | PCB 1232 | | µg/L | 0.05 | U | 0.05 | U | 0.05 | U | 0.05 | U | 0.05 | U | 0.11 |
| 53469-21-9 | PCB 1242 | | µg/L | 0.06 | U | 0.06 | U | 0.06 | U | 0.06 | U | 0.06 | U | 0.020 |
| 12672-29-6 | PCB 1248 | | µg/L | 0.04 | U | 0.04 | U | 0.04 | U | 0.04 | U | 0.04 | U | 0.090 |
| 11097-69-1 | PCB 1254 | | µg/L | 0.03 | U | 0.03 | U | 0.03 | U | 0.03 | U | 0.03 | U | 0.040 |
| 11096-82-5 | PCB 1260 | | µg/L | 0.06 | U | 0.06 | U | 0.06 | U | 0.06 | U | 0.06 | U | 0.080 |
| | **Volatiles** | | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | | µg/L | 0.98 | U | 0.49 | U | 0.49 | U | 0.49 | U | 0.37 | U | 1.90 |
| 74-83-9 | Bromomethane | | µg/L | 0.86 | U | 0.43 | U | 0.43 | U | 0.43 | U | 0.45 | U | 1.85 |
| 75-01-4 | Vinyl Chloride | | µg/L | 0.2 | U | 0.1 | U | 0.1 | U | 0.1 | U | 0.07 | U | 2.05 |
| 75-00-3 | Chloroethane | | µg/L | 1.22 | U | 0.61 | U | 0.61 | U | 0.61 | U | 0.18 | U | 1.25 |
| 75-09-2 | Methylene Chloride | 5 | µg/L | 1.08 | U | 0.54 | U | 0.54 | U | 0.54 | U | 0.15 | U | 1.50 |
| 67-64-1 | Acetone | | µg/L | 6.24 | U | 3.12 | U | 3.12 | U | 2.6 | | 1.44 | U | 6.50 |
| 75-15-0 | Carbon disulfide | | µg/L | 0.4 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.22 | U | 1.05 |
| 75-35-4 | 1,1-Dichloroethene | | µg/L | 0.6 | U | 0.3 | U | 0.3 | U | 0.3 | U | 0.14 | U | 2.40 |
| 75-34-3 | 1,1-Dichloroethane | | µg/L | 0.44 | U | 0.22 | U | 0.22 | U | 0.22 | U | 0.12 | U | 0.90 |
| 156-60-5 | t-1,2-Dichloroethene | | µg/L | 0.4 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.14 | U | 1.40 |
| 156-59-2 | c-1,2-Dichloroethene | 5 | µg/L | 0.42 | U | 0.21 | U | 0.21 | U | 0.21 | U | 0.14 | U | 1.70 |
| 67-66-3 | Chloroform | | µg/L | 0.4 | U | 3.5 | | 0.2 | U | 0.79 | | 1.5 | | 1.30 |
| 107-06-2 | 1,2-Dichloroethane | | µg/L | 0.46 | U | 0.23 | U | 0.23 | U | 0.23 | U | 0.13 | U | 0.95 |
| 78-93-3 | 2-Butanone | | µg/L | 10 | U | 5 | U | 5 | U | 5 | U | 6.25 | U | 4.10 |
| 71-55-6 | 1,1,1-Trichloroethane | | µg/L | 0.44 | U | 0.22 | U | 0.22 | U | 0.22 | U | 0.16 | U | 1.55 |
| 56-23-5 | Carbon Tetrachloride | | µg/L | 0.5 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.13 | U | 1.70 |
| 75-27-4 | Bromodichloromethane | | µg/L | 0.3 | U | 0.15 | U | 0.15 | U | 0.15 | U | 0.07 | U | 1.30 |
| 78-87-5 | 1,2-Dichloropropane | | µg/L | 0.72 | U | 0.36 | U | 0.36 | U | 0.36 | U | 0.15 | U | 0.60 |
| 10061-01-5 | cis-1,3-Dichloropropene | | µg/L | 0.32 | U | 0.16 | U | 0.16 | U | 0.16 | U | 0.07 | U | 0.95 |
| 79-01-6 | Trichloroethene | 5 | µg/L | 0.32 | U | 0.16 | U | 0.16 | U | 0.16 | U | 0.17 | U | 1.35 |
| 124-48-1 | Dibromochloromethane | | µg/L | 0.22 | U | 0.11 | U | 0.11 | U | 0.11 | U | 0.12 | U | 0.90 |
| 79-00-5 | 1,1,2-Trichloroethane | | µg/L | 0.18 | U | 0.09 | U | 0.09 | U | 0.09 | U | 0.2 | U | 1.85 |
| 71-43-2 | Benzene | 1 | µg/L | 30.9 | | 0.16 | U | 0.16 | U | 0.16 | U | 0.13 | U | 582 |
| 10061-02-6 | trans-1,3-Dichloropropene | | µg/L | 0.16 | U | 0.08 | U | 0.08 | U | 0.08 | U | 0.06 | U | 0.80 |
| 75-25-2 | Bromoform | | µg/L | 0.2 | U | 0.1 | U | 0.1 | U | 0.1 | U | 0.09 | U | 1.00 |
| 108-10-1 | 4-Methyl-2-pentanone | | µg/L | 10 | U | 5 | U | 5 | U | 5 | U | 0.97 | U | 2.25 |
| 591-78-6 | 2-Hexanone | | µg/L | 10 | U | 5 | U | 5 | U | 5 | U | 1.48 | U | 2.45 |
| 127-18-4 | Tetrachloroethene | 5 | µg/L | 0.48 | U | 0.24 | U | 1 | | 0.76 | | 0.2 | U | 1.40 |
| 108-88-3 | Toluene | 5 | µg/L | 7.2 | | 0.14 | U | 0.14 | U | 0.14 | U | 0.14 | U | 12.7 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | µg/L | 0.32 | U | 0.16 | U | 0.16 | U | 0.16 | U | 0.09 | U | 0.70 |
| 108-90-7 | Chlorobenzene | | µg/L | 0.3 | U | 0.15 | U | 0.15 | U | 0.15 | U | 0.12 | U | 1.05 |
| 100-41-4 | Ethylbenzene | 5 | µg/L | 6.5 | | 0.22 | U | 0.22 | U | 0.22 | U | 0.18 | U | 844 |
| 100-42-5 | Styrene | | µg/L | 0.34 | U | 0.17 | U | 0.17 | U | 0.17 | U | 0.14 | U | 1.40 |
| 108-38-3 | m,p-xylene | 5 | µg/L | 113 | | 0.42 | U | 1.7 | | 0.42 | U | 0.31 | U | 521 |
| 95-47-6 | o-xylene | 5 | µg/L | 196 | | 0.2 | U | 1.7 | | 0.2 | U | 0.16 | U | 402 |
| | | | | | | | | | | | | | | |
| | **Total BTEX** | | µg/L | **353.6** | | **ND** | | **3.4** | | **ND** | | **ND** | | **2361.7** |
| | **Semi-Volatiles** | | | | | | | | | | | | | |
| 108-95-2 | Phenol | | µg/L | 0.23 | U | 0.23 | U | 0.23 | U | 0.23 | U | 0.23 | U | 1.90 |
| 111-44-4 | bis(2-Chloroethyl)ether | | µg/L | 0.57 | U | 0.57 | U | 0.57 | U | 0.57 | U | 0.57 | U | 0.82 |
| 95-57-8 | 2-Chlorophenol | | µg/L | 0.28 | U | 0.28 | U | 0.28 | U | 0.28 | U | 0.28 | U | 0.76 |
| 541-73-1 | 1,3-Dichlorobenzene | | µg/L | 0.3 | U | 0.3 | U | 0.3 | U | 0.3 | U | 0.3 | U | 0.84 |
| 106-46-7 | 1,4-Dichlorobenzene | | µg/L | 0.36 | U | 0.36 | U | 0.36 | U | 0.36 | U | 0.36 | U | 0.85 |
| 95-50-1 | 1,2-Dichlorobenzene | | µg/L | 0.22 | U | 0.22 | U | 0.22 | U | 0.22 | U | 0.22 | U | 0.83 |
| 95-48-7 | 2-Methylphenol | | µg/L | 0.54 | U | 0.54 | U | 0.54 | U | 0.54 | U | 0.54 | U | 2.60 |
| 108-60-1 | bis(2-Chloroisopropyl)ether | | µg/L | 0.81 | U | 0.81 | U | 0.81 | U | 0.81 | U | 0.81 | U | 1.00 |
| 106-44-5 | 3+4-Methylphenol | | µg/L | 0.42 | U | 0.42 | U | 0.42 | U | 0.42 | U | 0.42 | U | 2.60 |
| 621-64-7 | N-Nitrosodi-n-propylamine | | µg/L | 0.48 | U | 0.48 | U | 0.48 | U | 0.48 | U | 0.48 | U | 0.86 |
| 67-72-1 | Hexachloroethane | | µg/L | 0.48 | U | 0.48 | U | 0.48 | U | 0.48 | U | 0.48 | U | 0.90 |
| 98-95-3 | Nitrobenzene | | µg/L | 0.54 | U | 0.54 | U | 0.54 | U | 0.54 | U | 0.54 | U | 0.89 |
| 78-59-1 | Isophorone | | µg/L | 0.52 | U | 0.52 | U | 0.52 | U | 0.52 | U | 0.52 | U | 0.76 |
| 88-75-5 | 2-Nitrophenol | | µg/L | 0.3 | U | 0.3 | U | 0.3 | U | 0.3 | U | 0.3 | U | 0.65 |
| 105-67-9 | 2,4-Dimethylphenol | | µg/L | 0.76 | U | 0.76 | U | 0.76 | U | 0.76 | U | 0.76 | U | 0.95 |
| 111-91-1 | bis(2-Chloroethoxy)methane | | µg/L | 0.41 | U | 0.41 | U | 0.41 | U | 0.41 | U | 0.41 | U | 0.78 |
| 120-83-2 | 2,4-Dichlorophenol | | µg/L | 0.37 | U | 0.37 | U | 0.37 | U | 0.37 | U | 0.37 | U | 0.62 |
| 120-82-1 | 1,2,4-Trichlorobenzene | | µg/L | 0.43 | U | 0.43 | U | 0.43 | U | 0.43 | U | 0.43 | U | 0.85 |
| 106-47-8 | 4-Chloroaniline | | µg/L | 0.43 | U | 0.43 | U | 0.43 | U | 0.43 | U | 0.43 | U | 0.52 |
| 87-68-3 | Hexachlorobutadiene | | µg/L | 0.52 | U | 0.52 | U | 0.52 | U | 0.52 | U | 0.52 | U | 0.83 |
| 59-50-7 | 4-Chloro-3-methylphenol | | µg/L | 0.28 | U | 0.28 | U | 0.28 | U | 0.28 | U | 0.28 | U | 0.72 |
| 77-47-4 | Hexachlorocyclopentadiene | | µg/L | 0.77 | U | 0.77 | U | 0.77 | U | 0.77 | U | 0.77 | U | 0.72 |
| 88-06-2 | 2,4,6-Trichlorophenol | | µg/L | 0.56 | U | 0.56 | U | 0.56 | U | 0.56 | U | 0.56 | U | 0.47 |
| 95-95-4 | 2,4,5-Trichlorophenol | | µg/L | 0.44 | U | 0.44 | U | 0.44 | U | 0.44 | U | 0.44 | U | 0.58 |

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | NYSDEC | | 01-04484-001 | | 01-04484-002 | | 01-04484-003 | | 01-04484-006 | | 01-08096-006 | | 00-02434-( |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Class GA | | MW-6 | | MW-7 | | MW-8 | | MW-8 (Dup) | | MW-A | | TW-1 |
| | Depth: | Groundwater | | - | | - | | - | | - | | - | | - |
| | Laboratory ID: | Quality | | L4113-1 | | L4113-2 | | L4113-3 | | L4113-4 | | L4148-4 | | J4459-3 |
| | Sampling Date: | Standards | | 7/26/2001 | | 7/26/2001 | | 7/27/2001 | | 7/27/2001 | | 8/8/2001 | | 3/14/00 |
| | Matrix: | and Guidance | | Water | | Water | | Water | | Water | | Water | | Water |
| | Validated: | Values (1) | | No | | No | | No | | No | | No | | No |
| Cas #: | Analyte: | | Units: | | | | | | | | | | | |
| 91-58-7 | 2-Chloronaphthalene | | µg/L | 0.34 | U | 0.34 | U | 0.34 | U | 0.34 | U | 0.34 | U | 0.81 |
| 88-74-4 | 2-Nitroaniline | | µg/L | 0.4 | U | 0.4 | U | 0.4 | U | 0.4 | U | 0.4 | U | 0.56 |
| 131-11-3 | Dimethylphthalate | | µg/L | 1.37 | U | 1.37 | U | 1.37 | U | 0.21 | J | 1.37 | U | 1.30 |
| 606-20-2 | 2,6-Dinitrotoluene | | µg/L | 0.55 | U | 0.55 | U | 0.55 | U | 0.55 | U | 0.55 | U | 0.78 |
| 99-09-2 | 3-Nitroaniline | | µg/L | 0.52 | U | 0.52 | U | 0.52 | U | 0.52 | U | 0.52 | U | 0.82 |
| 51-28-5 | 2,4-Dinitrophenol | | µg/L | 2.34 | U | 2.34 | U | 2.34 | U | 2.34 | U | 2.34 | U | 0.57 |
| 100-02-7 | 4-Nitrophenol | | µg/L | 0.9 | U | 0.9 | U | 0.9 | U | 0.9 | U | 0.9 | U | 0.36 |
| 132-64-9 | Dibenzofuran | NS | µg/L | 3.2 | | 0.52 | U | 0.52 | U | 0.37 | J | 0.52 | U | 3.90 |
| 121-14-2 | 2,4-Dinitrotoluene | | µg/L | 0.31 | U | 0.31 | U | 0.31 | U | 0.31 | U | 0.31 | U | 0.61 |
| 84-66-2 | Diethylphthalate | 50 (G) | µg/L | 0.52 | J | 0.35 | J | 0.29 | J | 0.64 | J | 0.87 | U | 0.42 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | | µg/L | 0.51 | U | 0.51 | U | 0.51 | U | 0.51 | U | 0.51 | U | 0.68 |
| 100-01-6 | 4-Nitroaniline | | µg/L | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | 0.56 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | | µg/L | 0.3 | U | 0.3 | U | 0.3 | U | 0.3 | U | 0.3 | U | 0.58 |
| 86-30-6 | N-Nitrosodiphenylamine | | µg/L | 0.72 | U | 0.72 | U | 0.72 | U | 0.72 | U | 0.72 | U | 0.63 |
| 101-55-3 | 4-Bromophenyl phenyl ether | | µg/L | 0.38 | U | 0.38 | U | 0.38 | U | 0.38 | U | 0.38 | U | 0.61 |
| 118-74-1 | Hexachlorobenzene | | µg/L | 0.38 | U | 0.38 | U | 0.38 | U | 0.38 | U | 0.38 | U | 0.60 |
| 87-86-5 | Pentachlorophenol | | µg/L | 0.36 | U | 0.36 | U | 0.36 | U | 0.36 | U | 0.36 | U | 0.59 |
| 86-74-8 | Carbazole | NS | µg/L | 4.9 | | 0.41 | U | 0.41 | U | 0.41 | U | 0.41 | U | 16.4 |
| 84-74-2 | Di-n-butylphthalate | NS | µg/L | 0.6 | | 0.41 | J | 0.25 | J | 0.75 | | 0.21 | J | 1.07 |
| 85-68-7 | Butylbenzylphthalate | | µg/L | 0.22 | J | 0.54 | U | 0.21 | J | 0.54 | U | 0.54 | U | 3.29 |
| 91-94-1 | 3,3'-Dichlorobenzidine | | µg/L | 1.01 | U | 1.01 | U | 1.01 | U | 1.01 | U | 1.01 | U | 1.20 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 5 | µg/L | 2.4 | B | 1.9 | B | 2.1 | B | 3.3 | B | 0.67 | J | 9.30 |
| 117-84-0 | Di-n-octylphthalate | | µg/L | 0.48 | U | 0.48 | U | 0.48 | U | 0.48 | U | 0.48 | U | 0.50 |
| | | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 20 (G) | µg/L | 177 | | 0.51 | U | 0.51 | U | 41.4 | | 0.51 | U | **245** |
| 208-96-8 | Acenaphthylene | NS | µg/L | 4.5 | | 0.49 | U | 0.2 | J | 3.1 | | 0.49 | U | 9.8 |
| 120-12-7 | Anthracene | 50 (G) | µg/L | 12.3 | | 0.41 | U | 0.41 | U | 1.2 | | 0.41 | U | 38 |
| 191-24-2 | Benzo(g,h,i)perylene | NS | µg/L | 0.38 | U | 0.38 | U | 0.38 | U | 0.38 | U | 0.38 | U | 9.6 |
| 206-44-0 | Fluoranthene | 50 (G) | µg/L | 4.3 | | 0.54 | U | 0.54 | U | 5.1 | | 0.54 | U | **50.5** |
| 86-73-7 | Fluorene | 50 (G) | µg/L | 42.6 | | 0.61 | U | 0.61 | U | 6.4 | | 0.61 | U | **53.8** |
| 91-57-6 | 2-Methylnaphthalene | NS | µg/L | 10.4 | | 0.35 | U | 0.35 | U | 0.4 | | 0.35 | U | 288 |
| 91-20-3 | Naphthalene | 10 (G) | µg/L | 781 | | 0.22 | J | 0.3 | U | 21.3 | | 0.3 | U | **2820** |
| 85-01-8 | Phenanthrene | 50 (G) | µg/L | 55.6 | | 0.36 | U | 0.36 | U | 0.41 | | 0.36 | U | **98** |
| 129-00-0 | Pyrene | 50 (G) | µg/L | 5.4 | | 0.47 | U | 0.47 | U | 8.3 | | 0.47 | U | **73.9** |
| | | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | µg/L | 1093.1 | | 0.22 | | 0.2 | | 87.61 | | ND | | 3686.6 |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 0.002 | µg/L | 0.61 | | 0.44 | U | 0.44 | U | 0.97 | | 0.44 | U | **24.2** |
| 205-99-2 | Benzo(b)fluoranthene | 0.002 | µg/L | 0.79 | U | 0.79 | U | 0.79 | U | 0.79 | U | 0.79 | U | **23.5** |
| 207-08-9 | Benzo(k)fluoranthene | 0.002 | µg/L | 0.7 | U | 0.7 | U | 0.7 | U | 0.7 | U | 0.7 | U | **10.3** |
| 50-32-8 | Benzo(a)pyrene | ND | µg/L | 0.33 | U | 0.33 | U | 0.33 | U | 0.34 | | 0.33 | U | **13.3** |
| 218-01-9 | Chrysene | 0.002 | µg/L | 0.63 | | 0.32 | U | 0.32 | U | 0.81 | | 0.32 | U | **22.6** |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.002 | µg/L | 0.34 | U | 0.34 | U | 0.34 | U | 0.34 | U | 0.34 | U | 2.2 |
| 53-70-3 | Dibenz(a,h)anthracene | NS | µg/L | 0.42 | U | 0.42 | U | 0.42 | U | 0.42 | U | 0.42 | U | **7.2** |
| | | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | µg/L | 1.24 | | ND | | ND | | 2.12 | | ND | | 103.3 |
| | **Total PAHs** | | **µg/L** | **1094.34** | | **0.22** | | **0.2** | | **89.73** | | ND | | **3789.9** |
| | **Metals** | | | | | | | | | | | | | |
| 7439-97-6 | Mercury | 0.0007 | mg/L | 0.0003 | | 0.00041 | | 0.00013 | J | 0.00013 | | 0.00011 | | 0.000048 |
| 7429-90-5 | Aluminum | 0.1 | mg/L | 12.3 | | 107 | | 0.64 | | 0.13 | | 39.4 | | **15.9** |
| 7440-36-0 | Antimony | 0.003 | mg/L | 0.011 | | 0.0061 | | 0.0039 | J | 0.012 | | 0.0079 | | |
| 7440-38-2 | Arsenic | 0.025 | mg/L | 0.0053 | U | 0.0053 | U | 0.0053 | U | 0.0053 | U | 0.0048 | U | 0.018 |
| 7440-39-3 | Barium | 1 | mg/L | 1.09 | | 2.36 | | 0.099 | | 0.088 | | 0.48 | | 0.84 |
| 7440-41-7 | Beryllium | 0.003 | mg/L | 0.00022 | J | 0.0013 | U | 0.0013 | U | 0.00056 | J | 0.0012 | U | **0.003** |
| 7440-43-9 | Cadmium | 0.005 (G) | mg/L | 0.0017 | | 0.00011 | J | 0.004 | | 0.003 | | 0.0012 | U | 0.009 |
| 7440-70-2 | Calcium | NS | mg/L | 288 | | 200 | | 81.8 | | 68.8 | | 122 | | 487 |
| 7440-47-3 | Chromium | 0.05 | mg/L | 0.034 | | 0.3 | | 0.0021 | J | 0.0021 | J | 0.13 | | **0.15** |
| 7440-48-4 | Cobalt | NS | mg/L | 0.01 | | 0.13 | | 0.0039 | | 0.002 | | 0.041 | | 0.052 |
| 7440-50-8 | Copper | 0.2 | mg/L | 0.045 | | 0.28 | | 0.0089 | | 0.003 | | 0.11 | | |
| 7439-89-6 | Iron | 0.3 | mg/L | 46.2 | | 190 | | 0.98 | | 0.25 | | 71.9 | | **95** |
| 7439-92-1 | Lead | 0.025 | mg/L | 0.015 | | 0.076 | | 0.0016 | J | 0.0018 | J | 0.022 | | 0.054 |
| 7439-95-4 | Magnesium | 35 (G) | mg/L | 35.4 | | 108 | | 30 | | 25.5 | | 60.3 | | **155** |
| 7439-96-5 | Manganese | 0.3 | mg/L | 5.19 | | 4.64 | | 0.29 | | 0.26 | | 1.5 | | **6.25** |
| 7440-02-0 | Nickel | 0.1 | mg/L | 0.027 | | 0.26 | | 0.0028 | | 0.0021 | | 0.065 | | 0.055 |
| 7440-09-7 | Potassium | NS | mg/L | 68.9 | | 66.3 | | 3.96 | | 5.54 | | 28.6 | | 25.1 |
| 7782-49-2 | Selenium | 0.01 | mg/L | 0.0052 | U | 0.0052 | U | 0.0098 | | 0.015 | | 0.0047 | U | |
| 7440-22-4 | Silver | 0.05 | mg/L | 0.0017 | U | 0.0017 | U | 0.00056 | J | 0.0043 | | 0.0015 | U | |
| 7440-23-5 | Sodium | 20 | mg/L | 2850 | U | 386 | | 54.3 | | 764 | | 24.4 | | **54.5** |
| 7440-28-0 | Thallium | 0.0005 (G) | mg/L | 0.0043 | U | 0.0043 | U | 0.0043 | U | 0.0043 | U | 0.0039 | U | |

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | NYSDEC | | 01-04484-001 | | 01-04484-002 | | 01-04484-003 | | 01-04484-006 | | 01-08096-006 | | 00-02434-( |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Class GA | | MW-6 | | MW-7 | | MW-8 | | MW-8 (Dup) | | MW-A | | TW-1 |
| | Depth: | Groundwater | | - | | - | | - | | - | | - | | - |
| | Laboratory ID: | Quality | | L4113-1 | | L4113-2 | | L4113-3 | | L4113-4 | | L4148-4 | | J4459-3 |
| | Sampling Date: | Standards | | 7/26/2001 | | 7/26/2001 | | 7/27/2001 | | 7/27/2001 | | 8/8/2001 | | 3/14/00 |
| | Matrix: | and Guidance | | Water | | Water | | Water | | Water | | Water | | Water |
| | Validated: | Values (1) | | No | | No | | No | | No | | No | | No |
| Cas #: | Analyte: | | Units: | | | | | | | | | | | |
| 7440-62-2 | Vanadium | NS | mg/L | 0.039 | | 0.36 | | 0.0031 | U | 0.0031 | U | 0.065 | | 0.059 |
| 7440-66-6 | Zinc | 2 (G) | mg/L | 0.098 | | 0.68 | | 0.058 | | 0.053 | | 0.26 | | 0.3 |
| 57-12-5 | Cyanide | 0.2 | mg/L | 0.092 | | 0.003 | | 0.007 | | 0.005 | | 0.004 | | 0.009 |

(1) - Ambient Water Quality Standards and Guidance Values
TOGS 1.1.1 (October 1998)
U - Below detection limit
J - Estimated value
ND - Not detected
(G) - Guidance value
NS - No standard or guidance value
NR - Not run

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | NYSDEC | | )03 | 01-04367-004 | | 01-04367-011 | | 01-04367-012 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Class GA | | | TW-30 | | TW-30 B | | TW-30 C | |
| | Depth: | Groundwater | | | NA | | | | | |
| | Laboratory ID: | Quality | | | K9270-4 | | K9271-2 | | K9271-3 | |
| | Sampling Date: | Standards | | | 6/22/2001 | | 6/22/2001 | | 6/22/2001 | |
| | Matrix: | and Guidance | | | Water | | Water | | Water | |
| | Validated: | Values (1) | | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | |
| | **PCBs** | | | | | | | | | |
| 12674-11-2 | PCB 1016 | | µg/L | U | 0.08 | U | 0.08 | U | 0.08 | U |
| 11104-28-2 | PCB 1221 | | µg/L | U | 0.06 | U | 0.06 | U | 0.06 | U |
| 11141-16-5 | PCB 1232 | | µg/L | U | 0.05 | U | 0.05 | U | 0.05 | U |
| 53469-21-9 | PCB 1242 | | µg/L | U | 0.06 | U | 0.06 | U | 0.06 | U |
| 12672-29-6 | PCB 1248 | | µg/L | U | 0.04 | U | 0.04 | U | 0.04 | U |
| 11097-69-1 | PCB 1254 | | µg/L | U | 0.03 | U | 0.03 | U | 0.03 | U |
| 11096-82-5 | PCB 1260 | | µg/L | U | 0.06 | U | 0.06 | U | 0.06 | U |
| | **Volatiles** | | | | | | | | | |
| 74-87-3 | Chloromethane | | µg/L | U | 0.49 | U | 0.49 | U | 0.49 | U |
| 74-83-9 | Bromomethane | | µg/L | U | 0.43 | U | 0.43 | U | 0.43 | U |
| 75-01-4 | Vinyl Chloride | | µg/L | U | 0.1 | U | 0.1 | U | 0.1 | U |
| 75-00-3 | Chloroethane | | µg/L | U | 0.61 | U | 0.61 | U | 0.61 | U |
| 75-09-2 | Methylene Chloride | 5 | µg/L | U | 0.54 | U | 0.54 | U | 0.54 | U |
| 67-64-1 | Acetone | | µg/L | U | 9.4 | | 3.12 | U | 6.5 | |
| 75-15-0 | Carbon disulfide | | µg/L | U | 0.2 | U | 0.2 | U | 0.2 | U |
| 75-35-4 | 1,1-Dichloroethene | | µg/L | U | 0.3 | U | 0.3 | U | 0.3 | U |
| 75-34-3 | 1,1-Dichloroethane | | µg/L | U | 0.22 | U | 0.22 | U | 0.22 | U |
| 156-60-5 | t-1,2-Dichloroethene | | µg/L | U | 0.2 | U | 0.2 | U | 0.2 | U |
| 156-59-2 | c-1,2-Dichloroethene | 5 | µg/L | U | 0.21 | U | 0.21 | U | 0.21 | U |
| 67-66-3 | Chloroform | | µg/L | U | 0.2 | U | 0.2 | U | 0.2 | U |
| 107-06-2 | 1,2-Dichloroethane | | µg/L | U | 0.23 | U | 0.23 | U | 0.23 | U |
| 78-93-3 | 2-Butanone | | µg/L | U | 5 | U | 5 | U | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | µg/L | U | 0.22 | U | 0.22 | U | 0.22 | U |
| 56-23-5 | Carbon Tetrachloride | | µg/L | U | 0.25 | U | 0.25 | U | 0.25 | U |
| 75-27-4 | Bromodichloromethane | | µg/L | U | 0.15 | U | 0.15 | U | 0.15 | U |
| 78-87-5 | 1,2-Dichloropropane | | µg/L | U | 0.36 | U | 0.36 | U | 0.36 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | µg/L | U | 0.16 | U | 0.16 | U | 0.16 | U |
| 79-01-6 | Trichloroethene | 5 | µg/L | U | 0.16 | U | 0.16 | U | 0.16 | U |
| 124-48-1 | Dibromochloromethane | | µg/L | U | 0.11 | U | 0.11 | U | 0.11 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | µg/L | U | 0.09 | U | 0.09 | U | 0.09 | U |
| 71-43-2 | Benzene | 1 | µg/L | | 2.2 | | 38.9 | | 42.1 | |
| 10061-02-6 | trans-1,3-Dichloropropene | | µg/L | U | 0.08 | U | 0.08 | U | 0.08 | U |
| 75-25-2 | Bromoform | | µg/L | U | 0.1 | U | 0.1 | U | 0.1 | U |
| 108-10-1 | 4-Methyl-2-pentanone | | µg/L | U | 5 | U | 5 | U | 5 | U |
| 591-78-6 | 2-Hexanone | | µg/L | U | 5 | U | 5 | U | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | µg/L | U | 0.24 | U | 0.24 | U | 0.24 | U |
| 108-88-3 | Toluene | 5 | µg/L | | 0.14 | U | 9.3 | | 9 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | µg/L | U | 0.16 | U | 0.16 | U | 0.16 | U |
| 108-90-7 | Chlorobenzene | | µg/L | U | 0.15 | U | 0.15 | U | 0.15 | U |
| 100-41-4 | Ethylbenzene | 5 | µg/L | | 3.8 | | 476 | | 516 | |
| 100-42-5 | Styrene | | µg/L | U | 0.17 | U | 0.17 | U | 0.17 | U |
| 108-38-3 | m,p-xylene | 5 | µg/L | | 1 | | 155 | | 147 | |
| 95-47-6 | o-xylene | 5 | µg/L | | 1.5 | | 199 | | 211 | |
| | | | | | | | | | | |
| | **Total BTEX** | | µg/L | | **8.5** | | **878.2** | | **925.1** | |
| | **Semi-Volatiles** | | | | | | | | | |
| 108-95-2 | Phenol | | µg/L | | 0.23 | U | 0.52 | U | 0.52 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | | µg/L | U | 0.57 | U | 0.86 | U | 0.86 | U |
| 95-57-8 | 2-Chlorophenol | | µg/L | U | 0.28 | U | 1.03 | U | 1.03 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | µg/L | U | 0.3 | U | 1 | U | 1 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | µg/L | U | 0.36 | U | 1.08 | U | 1.08 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | µg/L | U | 0.22 | U | 1.01 | U | 1.01 | U |
| 95-48-7 | 2-Methylphenol | | µg/L | | 0.54 | U | 0.92 | U | 0.92 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | | µg/L | U | 0.81 | U | 2.21 | U | 2.21 | U |
| 106-44-5 | 3+4-Methylphenol | | µg/L | | 0.42 | U | 0.88 | U | 0.88 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | | µg/L | U | 0.48 | U | 0.78 | U | 0.78 | U |
| 67-72-1 | Hexachloroethane | | µg/L | U | 0.48 | U | 1.07 | U | 1.07 | U |
| 98-95-3 | Nitrobenzene | | µg/L | U | 0.54 | U | 1.17 | U | 1.17 | U |
| 78-59-1 | Isophorone | | µg/L | U | 0.52 | U | 0.81 | U | 0.81 | U |
| 88-75-5 | 2-Nitrophenol | | µg/L | U | 0.3 | U | 0.85 | U | 0.85 | U |
| 105-67-9 | 2,4-Dimethylphenol | | µg/L | U | 0.76 | U | 1.1 | J | 1.16 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | | µg/L | U | 0.41 | U | 0.82 | U | 0.82 | U |
| 120-83-2 | 2,4-Dichlorophenol | | µg/L | U | 0.37 | U | 0.88 | U | 0.88 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | µg/L | U | 0.43 | U | 1.16 | U | 1.16 | U |
| 106-47-8 | 4-Chloroaniline | | µg/L | U | 0.43 | U | 1.03 | U | 1.03 | U |
| 87-68-3 | Hexachlorobutadiene | | µg/L | U | 0.52 | U | 1.15 | U | 1.15 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | | µg/L | U | 0.28 | U | 1.07 | U | 1.07 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | µg/L | U | 0.77 | U | 4.41 | U | 4.41 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | µg/L | U | 0.56 | U | 0.67 | U | 0.67 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | µg/L | U | 0.44 | U | 1.15 | U | 1.15 | U |

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | NYSDEC | | 003 | 01-04367-004 | | 01-04367-011 | | 01-04367-012 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Class GA | | | TW-30 | | TW-30 B | | TW-30 C | |
| | Depth: | Groundwater | | | NA | | | | | |
| | Laboratory ID: | Quality | | | K9270-4 | | K9271-2 | | K9271-3 | |
| | Sampling Date: | Standards | | | 6/22/2001 | | 6/22/2001 | | 6/22/2001 | |
| | Matrix: | and Guidance | | | Water | | Water | | Water | |
| | Validated: | Values (1) | | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | |
| 91-58-7 | 2-Chloronaphthalene | | µg/L | U | 0.34 | U | 1.06 | U | 1.06 | U |
| 88-74-4 | 2-Nitroaniline | | µg/L | U | 0.4 | U | 0.54 | U | 0.54 | U |
| 131-11-3 | Dimethylphthalate | | µg/L | U | 1.37 | U | 1.65 | U | 1.65 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | µg/L | U | 0.55 | U | 0.54 | U | 0.54 | U |
| 99-09-2 | 3-Nitroaniline | | µg/L | U | 0.52 | U | 0.58 | U | 0.58 | U |
| 51-28-5 | 2,4-Dinitrophenol | | µg/L | U | 2.34 | U | 5.8 | U | 5.8 | U |
| 100-02-7 | 4-Nitrophenol | | µg/L | U | 0.9 | U | 2.12 | U | 2.12 | U |
| 132-64-9 | Dibenzofuran | NS | µg/L | | 0.52 | U | 11.3 | | 2.8 | |
| 121-14-2 | 2,4-Dinitrotoluene | | µg/L | U | 0.31 | U | 0.47 | U | 0.47 | U |
| 84-66-2 | Diethylphthalate | 50 (G) | µg/L | J | 0.87 | U | 9.81 | U | 1.2 | JB |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | | µg/L | U | 0.51 | U | 1.11 | U | 1.11 | U |
| 100-01-6 | 4-Nitroaniline | | µg/L | U | 0.6 | U | 0.61 | U | 0.61 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | | µg/L | U | 0.3 | U | 0.5 | U | 0.5 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | µg/L | U | 0.72 | U | 0.94 | U | 0.94 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | | µg/L | U | 0.38 | U | 0.79 | U | 0.79 | U |
| 118-74-1 | Hexachlorobenzene | | µg/L | U | 0.38 | U | 0.99 | U | 0.99 | U |
| 87-86-5 | Pentachlorophenol | | µg/L | U | 0.36 | U | 0.7 | U | 0.7 | U |
| 86-74-8 | Carbazole | NS | µg/L | | 1.3 | | 50.2 | | 16.8 | |
| 84-74-2 | Di-n-butylphthalate | NS | µg/L | U | 0.66 | JB | 0.56 | B | 2.2 | B |
| 85-68-7 | Butylbenzylphthalate | | µg/L | U | 0.54 | U | 4.1 | U | 4.1 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | µg/L | U | 1.01 | U | 0.41 | U | 0.41 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 5 | µg/L | B | 2.1 | B | 82 | B | 2.2 | B |
| 117-84-0 | Di-n-octylphthalate | | µg/L | U | 0.48 | U | 0.98 | U | 0.98 | U |
| | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | |
| 83-32-9 | Acenaphthene | 20 (G) | µg/L | | 1.4 | | 72.6 | | 30.4 | |
| 208-96-8 | Acenaphthylene | NS | µg/L | | 0.29 | J | 2.6 | | 1.9 | |
| 120-12-7 | Anthracene | 50 (G) | µg/L | | 0.27 | J | 1.2 | | 0.48 | J |
| 191-24-2 | Benzo(g,h,i)perylene | NS | µg/L | | 0.38 | U | 0.52 | U | 0.52 | U |
| 206-44-0 | Fluoranthene | 50 (G) | µg/L | | 0.54 | U | 1 | | 0.48 | J |
| 86-73-7 | Fluorene | 50 (G) | µg/L | | 0.44 | J | 33.6 | | 11.1 | |
| 91-57-6 | 2-Methylnaphthalene | NS | µg/L | | 0.35 | U | 73.7 | | 17.1 | |
| 91-20-3 | Naphthalene | 10 (G) | µg/L | | 0.3 | U | 1360 | | 341 | |
| 85-01-8 | Phenanthrene | 50 (G) | µg/L | | 0.74 | | 30 | | 10.7 | |
| 129-00-0 | Pyrene | 50 (G) | µg/L | | 0.47 | U | 0.65 | U | 0.65 | U |
| | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | µg/L | | 3.14 | | 1574.7 | | 413.16 | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 0.002 | µg/L | | 0.44 | U | 0.62 | U | 0.62 | U |
| 205-99-2 | Benzo(b)fluoranthene | 0.002 | µg/L | | 0.79 | U | 1.54 | U | 1.54 | U |
| 207-08-9 | Benzo(k)fluoranthene | 0.002 | µg/L | | 0.7 | U | 1.1 | U | 1.1 | U |
| 50-32-8 | Benzo(a)pyrene | ND | µg/L | | 0.33 | U | 0.77 | U | 0.77 | U |
| 218-01-9 | Chrysene | 0.002 | µg/L | | 0.32 | U | 0.69 | U | 0.69 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.002 | µg/L | | 0.34 | U | 0.61 | U | 0.61 | U |
| 53-70-3 | Dibenz(a,h)anthracene | NS | µg/L | | 0.42 | U | 0.61 | U | 0.61 | U |
| | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | µg/L | | ND | | ND | | ND | |
| | **Total PAHs** | | **µg/L** | | **3.14** | | **1574.7** | | **413.16** | |
| | **Metals** | | | | | | | | | |
| 7439-97-6 | Mercury | 0.0007 | mg/L | J | 0.000052 | | 0.000039 | J | 0.000032 | J |
| 7429-90-5 | Aluminum | 0.1 | mg/L | | 13.7 | | 23 | | 29.4 | |
| 7440-36-0 | Antimony | 0.003 | mg/L | | 0.0008 | J | 0.0028 | J | 0.0006 | J |
| 7440-38-2 | Arsenic | 0.025 | mg/L | | 0.0048 | U | 0.0048 | U | 0.0048 | U |
| 7440-39-3 | Barium | 1 | mg/L | | 0.32 | | 1.19 | | 1.38 | |
| 7440-41-7 | Beryllium | 0.003 | mg/L | | 0.0012 | U | 0.0012 | U | 0.0012 | U |
| 7440-43-9 | Cadmium | 0.005 (G) | mg/L | | 0.0003 | J | 0.0001 | J | 0.0001 | J |
| 7440-70-2 | Calcium | NS | mg/L | | 204 | | 219 | | 263 | |
| 7440-47-3 | Chromium | 0.05 | mg/L | | 0.09 | | 0.078 | | 0.1 | |
| 7440-48-4 | Cobalt | NS | mg/L | | 0.027 | | 0.024 | | 0.032 | |
| 7440-50-8 | Copper | 0.2 | mg/L | U | 0.076 | | 0.078 | | 0.1 | |
| 7439-89-6 | Iron | 0.3 | mg/L | | 35.7 | | 52.1 | | 74.4 | |
| 7439-92-1 | Lead | 0.025 | mg/L | | 0.016 | | 0.019 | | 0.024 | |
| 7439-95-4 | Magnesium | 35 (G) | mg/L | | 56.1 | | 97.8 | | 111 | |
| 7439-96-5 | Manganese | 0.3 | mg/L | | 2.74 | | 1.32 | | 2.07 | |
| 7440-02-0 | Nickel | 0.1 | mg/L | | 0.038 | | 0.045 | | 0.059 | |
| 7440-09-7 | Potassium | NS | mg/L | | 14.9 | | 26.6 | | 30.5 | |
| 7782-49-2 | Selenium | 0.01 | mg/L | U | 0.0047 | U | 0.0047 | U | 0.0047 | U |
| 7440-22-4 | Silver | 0.05 | mg/L | | 0.0015 | U | 0.0015 | U | 0.0015 | U |
| 7440-23-5 | Sodium | 20 | mg/L | | 74.6 | | 135 | | 140 | |
| 7440-28-0 | Thallium | 0.0005 (G) | mg/L | | 0.0039 | U | 0.0039 | U | 0.0039 | U |

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | NYSDEC | | 003 | 01-04367-004 | | 01-04367-011 | | 01-04367-012 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Class GA | | | TW-30 | | TW-30 B | | TW-30 C | |
| | Depth: | Groundwater | | | NA | | | | | |
| | Laboratory ID: | Quality | | | K9270-4 | | K9271-2 | | K9271-3 | |
| | Sampling Date: | Standards | | | 6/22/2001 | | 6/22/2001 | | 6/22/2001 | |
| | Matrix: | and Guidance | | | Water | | Water | | Water | |
| | Validated: | Values (1) | | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | |
| 7440-62-2 | Vanadium | NS | mg/L | | 0.0028 | U | 0.016 | | 0.036 | |
| 7440-66-6 | Zinc | 2 (G) | mg/L | | 0.096 | | 0.14 | | 0.2 | |
| 57-12-5 | Cyanide | 0.2 | mg/L | | 0.003 | U | 0.002 | J | 0.006 | |
| | | | | | | | | | | |
| (1) - Ambient Water Quality Standards and Guidance Values | | | | | | | | | | |
| TOGS 1.1.1 (October 1998) | | | | | | | | | | |
| U - Below detection limit | | | | | | | | | | |
| J - Estimated value | | | | | | | | | | |
| ND - Not detected | | | | | | | | | | |
| (G) - Guidance value | | | | | | | | | | |
| NS - No standard or guidance value | | | | | | | | | | |
| NR - Not run | | | | | | | | | | |

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | NYSDEC | | Trip Blank | | 01-04367-013 | | 01-04484-007 | | 01-08096-009 | | 01-04484-008 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Class GA | | Trip | | Trip | | Trip | | Trip | | Field | |
| | Depth: | Groundwater | | Blank | | Blank | | Blank | | Blank | | Blank | |
| | Laboratory ID: | Quality | | 201473.07 | | K9271-4 | | L4113-5 | | L4148-7 | | L4113-6 | |
| | Sampling Date: | Standards | | 4/6/00 | | 6/22/2001 | | 7/27/2001 | | 8/9/2001 | | 7/27/2001 | |
| | Matrix: | and Guidance | | Water | | Water | | Water | | Water | | Water | |
| | Validated: | Values (1) | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | | µg/L | NR | | NR | | NR | | NR | | 0.08 | U |
| 11104-28-2 | PCB 1221 | | µg/L | NR | | NR | | NR | | NR | | 0.06 | U |
| 11141-16-5 | PCB 1232 | | µg/L | NR | | NR | | NR | | NR | | 0.05 | U |
| 53469-21-9 | PCB 1242 | | µg/L | NR | | NR | | NR | | NR | | 0.06 | U |
| 12672-29-6 | PCB 1248 | | µg/L | NR | | NR | | NR | | NR | | 0.04 | U |
| 11097-69-1 | PCB 1254 | | µg/L | NR | | NR | | NR | | NR | | 0.03 | U |
| 11096-82-5 | PCB 1260 | | µg/L | NR | | NR | | NR | | NR | | 0.06 | U |
| | **Volatiles** | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | | µg/L | 1 | U | 0.49 | U | 0.49 | U | 0.37 | U | 0.49 | U |
| 74-83-9 | Bromomethane | | µg/L | 1 | U | 0.43 | U | 0.43 | U | 0.45 | U | 0.43 | U |
| 75-01-4 | Vinyl Chloride | | µg/L | 1 | U | 0.1 | U | 0.1 | U | 0.07 | U | 0.1 | U |
| 75-00-3 | Chloroethane | | µg/L | 1 | U | 0.61 | U | 0.61 | U | 0.18 | U | 0.61 | U |
| 75-09-2 | Methylene Chloride | 5 | µg/L | 1 | U | 0.54 | U | 0.54 | U | 0.15 | U | 0.54 | U |
| 67-64-1 | Acetone | | µg/L | 10 | U | 3.12 | U | 3.12 | U | 1.44 | U | 3.12 | U |
| 75-15-0 | Carbon disulfide | | µg/L | | U | 0.2 | U | 0.2 | U | 0.22 | U | 0.2 | U |
| 75-35-4 | 1,1-Dichloroethene | | µg/L | 1 | U | 0.3 | U | 0.3 | U | 0.14 | U | 0.3 | U |
| 75-34-3 | 1,1-Dichloroethane | | µg/L | 1 | U | 0.22 | U | 0.22 | U | 0.12 | U | 0.22 | U |
| 156-60-5 | t-1,2-Dichloroethene | | µg/L | 1 | U | 0.2 | U | 0.2 | U | 0.14 | U | 0.2 | U |
| 156-59-2 | c-1,2-Dichloroethene | 5 | µg/L | 1 | U | 0.21 | U | 0.21 | U | 0.14 | U | 0.21 | U |
| 67-66-3 | Chloroform | | µg/L | 1 | U | 0.2 | U | 0.2 | U | 0.15 | U | 0.2 | U |
| 107-06-2 | 1,2-Dichloroethane | | µg/L | 1 | U | 0.23 | U | 0.23 | U | 0.13 | U | 0.23 | U |
| 78-93-3 | 2-Butanone | | µg/L | 10 | U | 5 | U | 5 | U | 6.25 | U | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | µg/L | 1 | U | 0.22 | U | 0.22 | U | 0.16 | U | 0.22 | U |
| 56-23-5 | Carbon Tetrachloride | | µg/L | 1 | U | 0.25 | U | 0.25 | U | 0.13 | U | 0.25 | U |
| 75-27-4 | Bromodichloromethane | | µg/L | 1 | U | 0.15 | U | 0.15 | U | 0.07 | U | 0.15 | U |
| 78-87-5 | 1,2-Dichloropropane | | µg/L | 1 | U | 0.36 | U | 0.36 | U | 0.15 | U | 0.36 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | µg/L | 1 | U | 0.16 | U | 0.16 | U | 0.07 | U | 0.16 | U |
| 79-01-6 | Trichloroethene | 5 | µg/L | 1 | U | 0.16 | U | 0.16 | U | 0.17 | U | 0.16 | U |
| 124-48-1 | Dibromochloromethane | | µg/L | 1 | U | 0.11 | U | 0.11 | U | 0.12 | U | 0.11 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | µg/L | 1 | U | 0.09 | U | 0.09 | U | 0.2 | U | 0.09 | U |
| 71-43-2 | Benzene | 1 | µg/L | 1 | U | 0.16 | U | 0.16 | U | 0.13 | U | 0.16 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | | µg/L | 1 | U | 0.08 | U | 0.08 | U | 0.06 | U | 0.08 | U |
| 75-25-2 | Bromoform | | µg/L | 1 | U | 0.1 | U | 0.1 | U | 0.09 | U | 0.1 | U |
| 108-10-1 | 4-Methyl-2-pentanone | | µg/L | 10 | U | 5 | U | 5 | U | 0.97 | U | 5 | U |
| 591-78-6 | 2-Hexanone | | µg/L | NA | | 5 | U | 5 | U | 1.48 | U | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | µg/L | 1 | U | 0.24 | U | 0.24 | U | 0.2 | U | 0.24 | U |
| 108-88-3 | Toluene | 5 | µg/L | 1 | U | 0.14 | U | 0.14 | U | 0.14 | U | 0.14 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | µg/L | 1 | U | 0.16 | U | 0.16 | U | 0.09 | U | 0.16 | U |
| 108-90-7 | Chlorobenzene | | µg/L | 1 | U | 0.15 | U | 0.15 | U | 0.12 | U | 0.15 | U |
| 100-41-4 | Ethylbenzene | 5 | µg/L | 1 | U | 0.22 | U | 0.22 | U | 0.18 | U | 0.22 | U |
| 100-42-5 | Styrene | | µg/L | 1 | U | 0.17 | U | 0.17 | U | 0.14 | U | 0.17 | U |
| 108-38-3 | m,p-xylene | 5 | µg/L | 2 | U | 0.42 | U | 0.42 | U | 0.31 | U | 0.42 | U |
| 95-47-6 | o-xylene | 5 | µg/L | 1 | U | 0.2 | U | 0.2 | U | 0.16 | U | 0.2 | U |
| | | | | | | | | | | | | | |
| | **Total BTEX** | | µg/L | | | | | | | | | | |
| | **Semi-Volatiles** | | | | | | | | | | | | |
| 108-95-2 | Phenol | | µg/L | NR | | NR | | NR | | NR | | 0.23 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | | µg/L | NR | | NR | | NR | | NR | | 0.57 | U |
| 95-57-8 | 2-Chlorophenol | | µg/L | NR | | NR | | NR | | NR | | 0.28 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | µg/L | NR | | NR | | NR | | NR | | 0.3 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | µg/L | NR | | NR | | NR | | NR | | 0.36 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | µg/L | NR | | NR | | NR | | NR | | 0.22 | U |
| 95-48-7 | 2-Methylphenol | | µg/L | NR | | NR | | NR | | NR | | 0.54 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | | µg/L | NR | | NR | | NR | | NR | | 0.81 | U |
| 106-44-5 | 3+4-Methylphenol | | µg/L | NR | | NR | | NR | | NR | | 0.42 | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | | µg/L | NR | | NR | | NR | | NR | | 0.48 | U |
| 67-72-1 | Hexachloroethane | | µg/L | NR | | NR | | NR | | NR | | 0.48 | U |
| 98-95-3 | Nitrobenzene | | µg/L | NR | | NR | | NR | | NR | | 0.54 | U |
| 78-59-1 | Isophorone | | µg/L | NR | | NR | | NR | | NR | | 0.52 | U |
| 88-75-5 | 2-Nitrophenol | | µg/L | NR | | NR | | NR | | NR | | 0.3 | U |
| 105-67-9 | 2,4-Dimethylphenol | | µg/L | NR | | NR | | NR | | NR | | 0.76 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | | µg/L | NR | | NR | | NR | | NR | | 0.41 | U |
| 120-83-2 | 2,4-Dichlorophenol | | µg/L | NR | | NR | | NR | | NR | | 0.37 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | µg/L | NR | | NR | | NR | | NR | | 0.43 | U |
| 106-47-8 | 4-Chloroaniline | | µg/L | NR | | NR | | NR | | NR | | 0.43 | U |
| 87-68-3 | Hexachlorobutadiene | | µg/L | NR | | NR | | NR | | NR | | 0.52 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | | µg/L | NR | | NR | | NR | | NR | | 0.28 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | µg/L | NR | | NR | | NR | | NR | | 0.77 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | µg/L | NR | | NR | | NR | | NR | | 0.56 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | µg/L | NR | | NR | | NR | | NR | | 0.44 | U |

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | NYSDEC | | Trip Blank | | 01-04367-013 | | 01-04484-007 | | 01-08096-009 | | 01-04484-008 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Class GA | | Trip | | Trip | | Trip | | Trip | | Field | |
| | Depth: | Groundwater | | Blank | | Blank | | Blank | | Blank | | Blank | |
| | Laboratory ID: | Quality | | 201473.07 | | K9271-4 | | L4113-5 | | L4148-7 | | L4113-6 | |
| | Sampling Date: | Standards | | 4/6/00 | | 6/22/2001 | | 7/27/2001 | | 8/9/2001 | | 7/27/2001 | |
| | Matrix: | and Guidance | | Water | | Water | | Water | | Water | | Water | |
| | Validated: | Values (1) | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | |
| 91-58-7 | 2-Chloronaphthalene | | µg/L | NR | | NR | | NR | | NR | | 0.34 | U |
| 88-74-4 | 2-Nitroaniline | | µg/L | NR | | NR | | NR | | NR | | 0.4 | U |
| 131-11-3 | Dimethylphthalate | | µg/L | NR | | NR | | NR | | NR | | 1.37 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | µg/L | NR | | NR | | NR | | NR | | 0.55 | U |
| 99-09-2 | 3-Nitroaniline | | µg/L | NR | | NR | | NR | | NR | | 0.52 | U |
| 51-28-5 | 2,4-Dinitrophenol | | µg/L | NR | | NR | | NR | | NR | | 2.34 | U |
| 100-02-7 | 4-Nitrophenol | | µg/L | NR | | NR | | NR | | NR | | 0.9 | U |
| 132-64-9 | Dibenzofuran | NS | µg/L | NR | | NR | | NR | | NR | | 0.52 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | µg/L | NR | | NR | | NR | | NR | | 0.31 | U |
| 84-66-2 | Diethylphthalate | 50 (G) | µg/L | NR | | NR | | NR | | NR | | 0.36 | J |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | | µg/L | NR | | NR | | NR | | NR | | 0.51 | U |
| 100-01-6 | 4-Nitroaniline | | µg/L | NR | | NR | | NR | | NR | | 0.6 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | | µg/L | NR | | NR | | NR | | NR | | 0.3 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | µg/L | NR | | NR | | NR | | NR | | 0.72 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | | µg/L | NR | | NR | | NR | | NR | | 0.38 | U |
| 118-74-1 | Hexachlorobenzene | | µg/L | NR | | NR | | NR | | NR | | 0.38 | U |
| 87-86-5 | Pentachlorophenol | | µg/L | NR | | NR | | NR | | NR | | 0.36 | U |
| 86-74-8 | Carbazole | NS | µg/L | NR | | NR | | NR | | NR | | 0.41 | U |
| 84-74-2 | Di-n-butylphthalate | NS | µg/L | NR | | NR | | NR | | NR | | 0.42 | |
| 85-68-7 | Butylbenzylphthalate | | µg/L | NR | | NR | | NR | | NR | | 0.54 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | µg/L | NR | | NR | | NR | | NR | | 1.01 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 5 | µg/L | NR | | NR | | NR | | NR | | 1.7 | B |
| 117-84-0 | Di-n-octylphthalate | | µg/L | NR | | NR | | NR | | NR | | 0.48 | U |
| | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 20 (G) | µg/L | NR | | NR | | NR | | NR | | 0.51 | U |
| 208-96-8 | Acenaphthylene | NS | µg/L | NR | | NR | | NR | | NR | | 0.49 | U |
| 120-12-7 | Anthracene | 50 (G) | µg/L | NR | | NR | | NR | | NR | | 0.41 | U |
| 191-24-2 | Benzo(g,h,i)perylene | NS | µg/L | NR | | NR | | NR | | NR | | 0.38 | U |
| 206-44-0 | Fluoranthene | 50 (G) | µg/L | NR | | NR | | NR | | NR | | 0.54 | U |
| 86-73-7 | Fluorene | 50 (G) | µg/L | NR | | NR | | NR | | NR | | 0.61 | U |
| 91-57-6 | 2-Methylnaphthalene | NS | µg/L | NR | | NR | | NR | | NR | | 0.35 | U |
| 91-20-3 | Naphthalene | 10 (G) | µg/L | NR | | NR | | NR | | NR | | 0.3 | U |
| 85-01-8 | Phenanthrene | 50 (G) | µg/L | NR | | NR | | NR | | NR | | 0.36 | U |
| 129-00-0 | Pyrene | 50 (G) | µg/L | NR | | NR | | NR | | NR | | 0.47 | U |
| | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | µg/L | | | | | | | | | | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 0.002 | µg/L | NR | | NR | | NR | | NR | | 0.44 | U |
| 205-99-2 | Benzo(b)fluoranthene | 0.002 | µg/L | NR | | NR | | NR | | NR | | 0.79 | U |
| 207-08-9 | Benzo(k)fluoranthene | 0.002 | µg/L | NR | | NR | | NR | | NR | | 0.7 | U |
| 50-32-8 | Benzo(a)pyrene | ND | µg/L | NR | | NR | | NR | | NR | | 0.33 | U |
| 218-01-9 | Chrysene | 0.002 | µg/L | NR | | NR | | NR | | NR | | 0.32 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.002 | µg/L | NR | | NR | | NR | | NR | | 0.34 | U |
| 53-70-3 | Dibenz(a,h)anthracene | NS | µg/L | NR | | NR | | NR | | NR | | 0.42 | U |
| | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | µg/L | | | | | | | | | | |
| | **Total PAHs** | | **µg/L** | | | | | | | | | | |
| | **Metals** | | | | | | | | | | | | |
| 7439-97-6 | Mercury | 0.0007 | mg/L | NR | | NR | | NR | | NR | | 0.000086 | |
| 7429-90-5 | Aluminum | 0.1 | mg/L | NR | | NR | | NR | | NR | | 0.096 | U |
| 7440-36-0 | Antimony | 0.003 | mg/L | NR | | NR | | NR | | NR | | 0.0084 | |
| 7440-38-2 | Arsenic | 0.025 | mg/L | NR | | NR | | NR | | NR | | 0.0053 | U |
| 7440-39-3 | Barium | 1 | mg/L | NR | | NR | | NR | | NR | | 0.00067 | J |
| 7440-41-7 | Beryllium | 0.003 | mg/L | NR | | NR | | NR | | NR | | 0.0013 | U |
| 7440-43-9 | Cadmium | 0.005 (G) | mg/L | NR | | NR | | NR | | NR | | 0.00033 | J |
| 7440-70-2 | Calcium | NS | mg/L | NR | | NR | | NR | | NR | | 0.15 | |
| 7440-47-3 | Chromium | 0.05 | mg/L | NR | | NR | | NR | | NR | | 0.00078 | J |
| 7440-48-4 | Cobalt | NS | mg/L | NR | | NR | | NR | | NR | | 0.0013 | U |
| 7440-50-8 | Copper | 0.2 | mg/L | NR | | NR | | NR | | NR | | 0.0048 | |
| 7439-89-6 | Iron | 0.3 | mg/L | NR | | NR | | NR | | NR | | 0.012 | J |
| 7439-92-1 | Lead | 0.025 | mg/L | NR | | NR | | NR | | NR | | 0.0012 | J |
| 7439-95-4 | Magnesium | 35 (G) | mg/L | NR | | NR | | NR | | NR | | 0.015 | J |
| 7439-96-5 | Manganese | 0.3 | mg/L | NR | | NR | | NR | | NR | | 0.00056 | J |
| 7440-02-0 | Nickel | 0.1 | mg/L | NR | | NR | | NR | | NR | | 0.00056 | J |
| 7440-09-7 | Potassium | NS | mg/L | NR | | NR | | NR | | NR | | 0.13 | J |
| 7782-49-2 | Selenium | 0.01 | mg/L | NR | | NR | | NR | | NR | | 0.0043 | J |
| 7440-22-4 | Silver | 0.05 | mg/L | NR | | NR | | NR | | NR | | 0.00011 | J |
| 7440-23-5 | Sodium | 20 | mg/L | NR | | NR | | NR | | NR | | 0.83 | |
| 7440-28-0 | Thallium | 0.0005 (G) | mg/L | NR | | NR | | NR | | NR | | 0.0043 | U |

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | NYSDEC | | | Trip Blank | | 01-04367-013 | | 01-04484-007 | | 01-08096-009 | | 01-04484-008 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Class GA | | | Trip | | Trip | | Trip | | Trip | | Field | |
| | Depth: | Groundwater | | | Blank | | Blank | | Blank | | Blank | | Blank | |
| | Laboratory ID: | Quality | | | 201473.07 | | K9271-4 | | L4113-5 | | L4148-7 | | L4113-6 | |
| | Sampling Date: | Standards | | | 4/6/00 | | 6/22/2001 | | 7/27/2001 | | 8/9/2001 | | 7/27/2001 | |
| | Matrix: | and Guidance | | | Water | | Water | | Water | | Water | | Water | |
| | Validated: | Values (1) | | | No | | No | | No | | No | | No | |
| Cas #: | Analyte: | | Units: | | | | | | | | | | | |
| 7440-62-2 | Vanadium | NS | mg/L | | NR | | NR | | NR | | NR | | 0.00044 | J |
| 7440-66-6 | Zinc | 2 (G) | mg/L | | NR | | NR | | NR | | NR | | 0.061 | |
| 57-12-5 | Cyanide | 0.2 | mg/L | | NR | | NR | | NR | | NR | | 0.002 | J |
| | | | | | | | | | | | | | | |
| (1) - Ambient Water Quality Standards and Guidance Values | | | | | | | | | | | | | | |
| TOGS 1.1.1 (October 1998) | | | | | | | | | | | | | | |
| U - Below detection limit | | | | | | | | | | | | | | |
| J - Estimated value | | | | | | | | | | | | | | |
| ND - Not detected | | | | | | | | | | | | | | |
| (G) - Guidance value | | | | | | | | | | | | | | |
| NS - No standard or guidance value | | | | | | | | | | | | | | |
| NR - Not run | | | | | | | | | | | | | | |

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | NYSDEC | | 00-03386-002 | | 00-03386-002 | | 01-08096-002 | | 01-08096-003 | | 01-04484-004 | | 01-04484-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Class GA | | MW-1 MS | | MW-1 MSD | | MW-1 MS | | MW-1 MSD | | MW-8 MS | | MW-8 MS |
| | Depth: | Groundwater | | - | | - | | - | | - | | - | | - |
| | Laboratory ID: | Quality | | 201473.02 | | 201473.03 | | L4148-1M | | L4148-1N | | L4113-3M | | L4113-3I |
| | Sampling Date: | Standards | | 4/6/2000 | | 4/6/2000 | | 8/8/2001 | | 8/8/2001 | | 7/27/2001 | | 7/27/200 |
| | Matrix: | and Guidance | | Water | | Water | | Water | | Water | | Water | | Water |
| | Validated: | Values (1) | | No | | No | | No | | No | | No | | No |
| Cas #: | Analyte: | | Units: | | | | | | | | | | | |
| | **PCBs** | | | | | | | | | | | | | |
| 12674-11-2 | PCB 1016 | | µg/L | 1 | U | 1 | U | 1.11 | | 1.09 | | 0.88 | | 0.89 |
| 11104-28-2 | PCB 1221 | | µg/L | 1 | U | 1 | U | 0.06 | U | 0.06 | U | 0.06 | U | 0.06 |
| 11141-16-5 | PCB 1232 | | µg/L | 1 | U | 1 | U | 0.05 | U | 0.05 | U | 0.05 | U | 0.05 |
| 53469-21-9 | PCB 1242 | | µg/L | 1 | U | 1 | U | 0.06 | U | 0.06 | U | 0.06 | U | 0.06 |
| 12672-29-6 | PCB 1248 | | µg/L | 1 | U | 1 | U | 0.04 | U | 0.04 | U | 0.04 | U | 0.04 |
| 11097-69-1 | PCB 1254 | | µg/L | 1 | U | 1 | U | 0.03 | U | 0.03 | U | 0.03 | U | 0.03 |
| 11096-82-5 | PCB 1260 | | µg/L | 1 | U | 1 | U | 1.04 | | 1.08 | | 0.98 | | 0.82 |
| | **Volatiles** | | | | | | | | | | | | | |
| 74-87-3 | Chloromethane | | µg/L | 1 | U | 1 | U | 0.37 | U | 0.37 | U | 0.49 | U | 0.49 |
| 74-83-9 | Bromomethane | | µg/L | 1 | U | 1 | U | 0.45 | U | 0.45 | U | 0.43 | U | 0.43 |
| 75-01-4 | Vinyl Chloride | | µg/L | 1 | U | 1 | U | 0.07 | U | 0.07 | U | 0.1 | U | 0.1 |
| 75-00-3 | Chloroethane | | µg/L | 1 | U | 1 | U | 0.18 | U | 0.18 | U | 0.61 | U | 0.61 |
| 75-09-2 | Methylene Chloride | 5 | µg/L | 1 | U | 1 | U | 0.15 | U | 0.15 | U | 0.54 | U | 0.54 |
| 67-64-1 | Acetone | | µg/L | 10 | U | 10 | U | 1.44 | U | 1.44 | U | 3.12 | U | 3.12 |
| 75-15-0 | Carbon disulfide | | µg/L | | U | | U | 0.22 | U | 0.22 | U | 0.2 | U | 0.2 |
| 75-35-4 | 1,1-Dichloroethene | | µg/L | 1 | U | 1 | U | 46.9 | | 51 | | 44.8 | | 47 |
| 75-34-3 | 1,1-Dichloroethane | | µg/L | 1 | U | 1 | U | 0.12 | U | 0.12 | U | 0.22 | U | 0.22 |
| 156-60-5 | t-1,2-Dichloroethene | | µg/L | 1 | U | 1 | U | 0.14 | U | 0.14 | U | 0.2 | U | 0.2 |
| 156-59-2 | c-1,2-Dichloroethene | 5 | µg/L | 1 | U | 1 | U | 0.14 | U | 0.14 | U | 0.21 | U | 0.21 |
| 67-66-3 | Chloroform | | µg/L | 1 | U | 1 | | 1.3 | | 1.4 | | 0.2 | U | 0.2 |
| 107-06-2 | 1,2-Dichloroethane | | µg/L | 1 | U | 1 | U | 0.13 | U | 0.13 | U | 0.23 | U | 0.23 |
| 78-93-3 | 2-Butanone | | µg/L | 10 | U | 10 | U | 6.25 | U | 6.25 | U | 5 | U | 5 |
| 71-55-6 | 1,1,1-Trichloroethane | | µg/L | 1 | U | 1 | U | 0.16 | U | 0.16 | U | 0.22 | U | 0.22 |
| 56-23-5 | Carbon Tetrachloride | | µg/L | 1 | U | 1 | U | 0.13 | U | 0.13 | U | 0.25 | U | 0.25 |
| 75-27-4 | Bromodichloromethane | | µg/L | 1 | U | 1 | U | 0.07 | U | 0.07 | U | 0.15 | U | 0.15 |
| 78-87-5 | 1,2-Dichloropropane | | µg/L | 1 | U | 1 | U | 0.15 | U | 0.15 | U | 0.36 | U | 0.36 |
| 10061-01-5 | cis-1,3-Dichloropropene | | µg/L | 1 | U | 1 | U | 0.07 | U | 0.07 | U | 0.16 | U | 0.16 |
| 79-01-6 | Trichloroethene | 5 | µg/L | 1 | U | 1 | U | 46.7 | B | 49.4 | B | 50.7 | | 52.3 |
| 124-48-1 | Dibromochloromethane | | µg/L | 1 | U | 1 | U | 0.12 | U | 0.12 | U | 0.11 | U | 0.11 |
| 79-00-5 | 1,1,2-Trichloroethane | | µg/L | 1 | U | 1 | U | 0.2 | U | 0.2 | U | 0.09 | U | 0.09 |
| 71-43-2 | Benzene | 1 | µg/L | 1 | U | 1 | U | 46.6 | | 49.3 | | 49.5 | | 50.4 |
| 10061-02-6 | trans-1,3-Dichloropropene | | µg/L | 1 | U | 1 | U | 0.06 | U | 0.06 | U | 0.08 | U | 0.08 |
| 75-25-2 | Bromoform | | µg/L | 1 | U | 1 | U | 0.09 | U | 0.09 | U | 0.1 | U | 0.1 |
| 108-10-1 | 4-Methyl-2-pentanone | | µg/L | 10 | U | 10 | U | 0.97 | U | 0.97 | U | 5 | U | 5 |
| 591-78-6 | 2-Hexanone | | µg/L | NA | | NA | | 1.48 | U | 1.48 | U | 5 | U | 5 |
| 127-18-4 | Tetrachloroethene | 5 | µg/L | 1 | U | 1 | U | 0.2 | U | 0.2 | U | 0.97 | | 0.89 |
| 108-88-3 | Toluene | 5 | µg/L | 1 | U | 1 | U | 48.1 | | 50.6 | | 48.4 | | 46.6 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | µg/L | 1 | U | 1 | U | 0.09 | U | 0.09 | U | 0.16 | U | 0.16 |
| 108-90-7 | Chlorobenzene | | µg/L | 1 | U | 1 | U | 46.9 | | 50 | | 51 | | 51.1 |
| 100-41-4 | Ethylbenzene | 5 | µg/L | 1 | U | 1 | U | 0.18 | U | 0.18 | U | 0.22 | U | 0.22 |
| 100-42-5 | Styrene | | µg/L | 1 | U | 1 | U | 0.14 | U | 0.14 | U | 0.17 | U | 0.17 |
| 108-38-3 | m,p-xylene | 5 | µg/L | 2 | U | 2 | U | 0.31 | U | 0.31 | U | 1.1 | | 0.42 |
| 95-47-6 | o-xylene | 5 | µg/L | 1 | U | 1 | U | 0.16 | U | 0.16 | U | 1.2 | | 0.2 |
| | | | | | | | | | | | | | | |
| | **Total BTEX** | | µg/L | | | | | | | | | | | |
| | **Semi-Volatiles** | | | | | | | | | | | | | |
| 108-95-2 | Phenol | | µg/L | NA | | NA | | 27 | | 26.4 | | 69.6 | | 65.4 |
| 111-44-4 | bis(2-Chloroethyl)ether | | µg/L | 1 | U | 1 | U | 0.57 | U | 0.57 | U | 0.57 | U | 0.57 |
| 95-57-8 | 2-Chlorophenol | | µg/L | NA | | NA | | 64.7 | | 67.8 | | 73.6 | | 69.7 |
| 541-73-1 | 1,3-Dichlorobenzene | | µg/L | 1 | U | 1 | U | 0.3 | U | 0.3 | U | 0.3 | U | 0.3 |
| 106-46-7 | 1,4-Dichlorobenzene | | µg/L | 1 | U | 1 | U | 36.9 | | 37.3 | | 41.5 | | 40 |
| 95-50-1 | 1,2-Dichlorobenzene | | µg/L | 1 | U | 1 | U | 0.22 | U | 0.22 | U | 0.22 | U | 0.22 |
| 95-48-7 | 2-Methylphenol | | µg/L | NA | | NA | | 0.54 | U | 0.54 | U | 0.54 | U | 0.54 |
| 108-60-1 | bis(2-Chloroisopropyl)ether | | µg/L | 1 | U | 1 | U | 0.81 | U | 0.81 | U | 0.81 | U | 0.81 |
| 106-44-5 | 3+4-Methylphenol | | µg/L | NA | | NA | | 0.42 | U | 0.42 | U | 0.42 | U | 0.42 |
| 621-64-7 | N-Nitrosodi-n-propylamine | | µg/L | 1 | U | 1 | U | 36.3 | | 39.8 | | 42.3 | | 39.1 |
| 67-72-1 | Hexachloroethane | | µg/L | 1 | U | 1 | U | 0.48 | U | 0.48 | U | 0.48 | U | 0.48 |
| 98-95-3 | Nitrobenzene | | µg/L | 1 | U | 1 | U | 0.54 | U | 0.54 | U | 0.54 | U | 0.54 |
| 78-59-1 | Isophorone | | µg/L | 1 | U | 1 | U | 0.52 | U | 0.52 | U | 0.52 | U | 0.52 |
| 88-75-5 | 2-Nitrophenol | | µg/L | NA | | NA | | 2.27 | | 1.17 | | 0.3 | U | 0.3 |
| 105-67-9 | 2,4-Dimethylphenol | | µg/L | NA | | NA | | 0.76 | U | 0.76 | U | 0.76 | U | 0.76 |
| 111-91-1 | bis(2-Chloroethoxy)methane | | µg/L | 1 | U | 1 | U | 0.41 | U | 0.41 | U | 0.41 | U | 0.41 |
| 120-83-2 | 2,4-Dichlorophenol | | µg/L | NA | | NA | | 0.37 | U | 0.37 | U | 0.37 | U | 0.37 |
| 120-82-1 | 1,2,4-Trichlorobenzene | | µg/L | 1 | U | 1 | U | 42.5 | | 42.6 | | 47.5 | | 45.1 |
| 106-47-8 | 4-Chloroaniline | | µg/L | NA | | NA | | 0.43 | U | 0.43 | U | 0.43 | U | 0.43 |
| 87-68-3 | Hexachlorobutadiene | | µg/L | 1 | U | 1 | U | 0.52 | U | 0.52 | U | 0.52 | U | 0.52 |
| 59-50-7 | 4-Chloro-3-methylphenol | | µg/L | NA | | NA | | 73.4 | | 75.5 | | 77.5 | | 73.6 |
| 77-47-4 | Hexachlorocyclopentadiene | | µg/L | 10 | U | 10 | U | 0.77 | U | 0.77 | U | 0.77 | U | 0.77 |
| 88-06-2 | 2,4,6-Trichlorophenol | | µg/L | NA | | NA | | 0.56 | U | 0.56 | U | 0.56 | U | 0.56 |
| 95-95-4 | 2,4,5-Trichlorophenol | | µg/L | NA | | NA | | 0.44 | U | 0.44 | U | 0.44 | U | 0.44 |

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | NYSDEC | | 00-03386-002 | | 00-03386-002 | | 01-08096-002 | | 01-08096-003 | | 01-04484-004 | | 01-04484-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Class GA | | MW-1 MS | | MW-1 MSD | | MW-1 MS | | MW-1 MSD | | MW-8 MS | | MW-8 MS |
| | Depth: | Groundwater | | - | | - | | - | | - | | - | | - |
| | Laboratory ID: | Quality | | 201473.02 | | 201473.03 | | L4148-1M | | L4148-1N | | L4113-3M | | L4113-3I |
| | Sampling Date: | Standards | | 4/6/2000 | | 4/6/2000 | | 8/8/2001 | | 8/8/2001 | | 7/27/2001 | | 7/27/200 |
| | Matrix: | and Guidance | | Water | | Water | | Water | | Water | | Water | | Water |
| | Validated: | Values (1) | | No | | No | | No | | No | | No | | No |
| Cas #: | Analyte: | | Units: | | | | | | | | | | | |
| 91-58-7 | 2-Chloronaphthalene | | µg/L | 1 | U | 1 | U | 0.34 | U | 0.34 | U | 0.34 | U | 0.34 |
| 88-74-4 | 2-Nitroaniline | | µg/L | NA | | NA | | 0.4 | U | 0.4 | U | 0.4 | U | 0.4 |
| 131-11-3 | Dimethylphthalate | | µg/L | 1 | U | 1 | U | 1.37 | U | 1.37 | U | 1.37 | U | 1.37 |
| 606-20-2 | 2,6-Dinitrotoluene | | µg/L | 1 | U | 1 | U | 0.55 | U | 0.38 | J | 0.55 | U | 0.55 |
| 99-09-2 | 3-Nitroaniline | | µg/L | NA | | NA | | 0.52 | U | 0.52 | U | 0.52 | U | 0.52 |
| 51-28-5 | 2,4-Dinitrophenol | | µg/L | NA | | NA | | 2.34 | U | 2.34 | U | 2.34 | U | 2.34 |
| 100-02-7 | 4-Nitrophenol | | µg/L | NA | | NA | | 22.5 | | 27.8 | | 72.4 | | 69.9 |
| 132-64-9 | Dibenzofuran | NS | µg/L | NA | | NA | | 0.52 | U | 0.52 | U | 0.52 | U | 0.52 |
| 121-14-2 | 2,4-Dinitrotoluene | | µg/L | 1 | U | 1 | U | 43.1 | | 45 | | 41.2 | | 38.5 |
| 84-66-2 | Diethylphthalate | 50 (G) | µg/L | 1 | U | 1 | U | 0.87 | U | 0.87 | U | 0.28 | J | 0.24 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | | µg/L | 1 | U | 1 | U | 0.51 | U | 0.51 | U | 0.51 | U | 0.51 |
| 100-01-6 | 4-Nitroaniline | | µg/L | NA | | NA | | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | | µg/L | NA | | NA | | 0.3 | U | 0.3 | U | 0.3 | U | 0.3 |
| 86-30-6 | N-Nitrosodiphenylamine | | µg/L | 1 | U | 1 | U | 0.72 | U | 0.72 | U | 0.72 | U | 0.72 |
| 101-55-3 | 4-Bromophenyl phenyl ether | | µg/L | 1 | U | 1 | U | 0.38 | U | 0.38 | U | 0.38 | U | 0.38 |
| 118-74-1 | Hexachlorobenzene | | µg/L | 1 | U | 1 | U | 0.38 | U | 0.38 | U | 0.38 | U | 0.38 |
| 87-86-5 | Pentachlorophenol | | µg/L | NA | | NA | | 33.2 | | 20.8 | | 86.2 | | 84.2 |
| 86-74-8 | Carbazole | NS | µg/L | NA | | NA | | 0.41 | U | 0.41 | U | 0.41 | U | 0.41 |
| 84-74-2 | Di-n-butylphthalate | NS | µg/L | 1 | U | 1 | U | 50.3 | | 51 | | 47.3 | | 45.7 |
| 85-68-7 | Butylbenzylphthalate | | µg/L | 1 | U | 1 | U | 0.54 | U | 0.54 | U | 0.54 | U | 0.54 |
| 91-94-1 | 3,3'-Dichlorobenzidine | | µg/L | 10 | U | 10 | U | 1.01 | U | 1.01 | U | 1.01 | U | 1.01 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 5 | µg/L | 1 | U | 2 | | 0.85 | | 0.72 | J | 1.58 | B | 1.74 |
| 117-84-0 | Di-n-octylphthalate | | µg/L | 1 | U | 1 | U | 0.48 | U | 0.48 | U | 0.48 | U | 0.48 |
| | | | | | | | | | | | | | | |
| | **Non Carcinogenic PAHs** | | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 20 (G) | µg/L | 1 | U | 1 | U | 42.4 | | 41.9 | | 43.9 | | 39.5 |
| 208-96-8 | Acenaphthylene | NS | µg/L | 1 | U | 1 | U | 0.49 | U | 0.49 | U | 0.29 | J | 0.33 |
| 120-12-7 | Anthracene | 50 (G) | µg/L | 1 | U | 1 | U | 0.41 | U | 0.41 | U | 0.41 | U | 0.41 |
| 191-24-2 | Benzo(g,h,i)perylene | NS | µg/L | 1 | U | 1 | U | 0.38 | U | 0.38 | U | 0.38 | U | 0.38 |
| 206-44-0 | Fluoranthene | 50 (G) | µg/L | 1 | U | 1 | U | 0.54 | U | 0.54 | U | 0.54 | U | 0.54 |
| 86-73-7 | Fluorene | 50 (G) | µg/L | 1 | U | 1 | U | 0.61 | U | 0.61 | U | 0.61 | U | 0.61 |
| 91-57-6 | 2-Methylnaphthalene | NS | µg/L | NA | | NA | | 0.35 | U | 0.35 | U | 0.35 | U | 0.35 |
| 91-20-3 | Naphthalene | 10 (G) | µg/L | 1 | U | 1 | U | 0.3 | U | 0.3 | U | 0.3 | U | 0.3 |
| 85-01-8 | Phenanthrene | 50 (G) | µg/L | 1 | U | 1 | U | 0.36 | U | 0.36 | U | 0.36 | U | 0.36 |
| 129-00-0 | Pyrene | 50 (G) | µg/L | 1 | U | 1 | U | 46.8 | | 47.2 | | 45.6 | | 43.6 |
| | | | | | | | | | | | | | | |
| | Total Non Carcinogenic PAHs | | µg/L | | | | | | | | | | | |
| | **Probable Carcinogenic PAHs** | | | | | | | | | | | | | |
| 56-55-3 | Benzo(a)anthracene | 0.002 | µg/L | 1 | U | 1 | U | 0.44 | U | 0.44 | U | 0.44 | U | 0.44 |
| 205-99-2 | Benzo(b)fluoranthene | 0.002 | µg/L | 1 | U | 1 | U | 0.79 | U | 0.79 | U | 0.79 | U | 0.79 |
| 207-08-9 | Benzo(k)fluoranthene | 0.002 | µg/L | 1 | U | 1 | U | 0.7 | U | 0.7 | U | 0.7 | U | 0.7 |
| 50-32-8 | Benzo(a)pyrene | ND | µg/L | 1 | U | 1 | U | 0.33 | U | 0.33 | U | 0.31 | J | 0.43 |
| 218-01-9 | Chrysene | 0.002 | µg/L | 1 | U | 1 | U | 0.32 | U | 0.32 | U | 0.32 | U | 0.32 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.002 | µg/L | 1 | U | 1 | U | 0.34 | U | 0.34 | U | 0.34 | U | 0.34 |
| 53-70-3 | Dibenz(a,h)anthracene | NS | µg/L | 1 | U | 1 | U | 0.42 | U | 0.42 | U | 0.42 | U | 0.42 |
| | | | | | | | | | | | | | | |
| | Total Probable Carcinogenic PAHs | | µg/L | | | | | | | | | | | |
| | **Total PAHs** | | **µg/L** | | | | | | | | | | | |
| | **Metals** | | | | | | | | | | | | | |
| 7439-97-6 | Mercury | 0.0007 | mg/L | 0.00025 | U | 0.00025 | U | 0.00081 | | 0.00082 | | 0.0012 | | 0.0012 |
| 7429-90-5 | Aluminum | 0.1 | mg/L | 13 | | 6.8 | | 27.5 | | 27.2 | | 2.8 | | 2.72 |
| 7440-36-0 | Antimony | 0.003 | mg/L | 0.005 | U | 0.005 | U | 0.38 | | 0.37 | | 0.58 | | 0.57 |
| 7440-38-2 | Arsenic | 0.025 | mg/L | 0.005 | U | 0.005 | U | 1.81 | | 1.86 | | 2.39 | | 2.29 |
| 7440-39-3 | Barium | 1 | mg/L | 0.26 | | 0.19 | | 2.13 | | 2.2 | | 2.35 | | 2.24 |
| 7440-41-7 | Beryllium | 0.003 | mg/L | 0.005 | U | 0.001 | U | 0.045 | | 0.047 | | 0.061 | | 0.057 |
| 7440-43-9 | Cadmium | 0.005 (G) | mg/L | 0.005 | U | 0.005 | U | 0.082 | | 0.084 | | 0.11 | | 0.1 |
| 7440-70-2 | Calcium | NS | mg/L | 160 | | 140 | | 101 | | 102 | | 82.2 | | 78.8 |
| 7440-47-3 | Chromium | 0.05 | mg/L | 0.044 | | 0.031 | | 0.27 | | 0.28 | | 0.24 | | 0.23 |
| 7440-48-4 | Cobalt | NS | mg/L | 0.013 | | 0.007 | | 0.48 | | 0.49 | | 0.59 | | 0.56 |
| 7440-50-8 | Copper | 0.2 | mg/L | 0.05 | | 0.04 | | 0.31 | | 0.32 | | 0.3 | | 0.29 |
| 7439-89-6 | Iron | 0.3 | mg/L | 21 | | 11 | | 47.3 | | 46 | | 1.91 | | 1.87 |
| 7439-92-1 | Lead | 0.025 | mg/L | 0.005 | | 0.005 | U | 0.46 | | 0.47 | | 0.58 | | 0.55 |
| 7439-95-4 | Magnesium | 35 (G) | mg/L | 47 | | 37 | | 45.2 | | 45.5 | | 30.1 | | 28.9 |
| 7439-96-5 | Manganese | 0.3 | mg/L | 0.92 | | 0.76 | | 1.73 | | 1.72 | | 0.87 | | 0.83 |
| 7440-02-0 | Nickel | 0.1 | mg/L | 0.03 | | 0.02 | | 0.47 | | 0.48 | | 0.57 | | 0.54 |
| 7440-09-7 | Potassium | NS | mg/L | 25 | | 22 | | 22.4 | | 23.5 | | 3.77 | | 3.57 |
| 7782-49-2 | Selenium | 0.01 | mg/L | 0.006 | | 0.007 | | 1.76 | | 1.81 | | 2.34 | | 2.26 |
| 7440-22-4 | Silver | 0.05 | mg/L | 0.005 | U | 0.005 | U | 0.043 | | 0.045 | | 0.063 | | 0.06 |
| 7440-23-5 | Sodium | 20 | mg/L | 38 | | 37 | | 22.5 | | 23.9 | | 53.5 | | 50.8 |
| 7440-28-0 | Thallium | 0.0005 (G) | mg/L | 0.005 | U | 0.005 | U | 1.7 | | 1.77 | | 2.15 | | 2.05 |

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | NYSDEC | | 00-03386-002 | | 00-03386-002 | | 01-08096-002 | | 01-08096-003 | | 01-04484-004 | | 01-04484-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Location: | Class GA | | MW-1 MS | | MW-1 MSD | | MW-1 MS | | MW-1 MSD | | MW-8 MS | | MW-8 MS |
| | Depth: | Groundwater | | - | | - | | - | | - | | - | | - |
| | Laboratory ID: | Quality | | 201473.02 | | 201473.03 | | L4148-1M | | L4148-1N | | L4113-3M | | L4113-3I |
| | Sampling Date: | Standards | | 4/6/2000 | | 4/6/2000 | | 8/8/2001 | | 8/8/2001 | | 7/27/2001 | | 7/27/200 |
| | Matrix: | and Guidance | | Water | | Water | | Water | | Water | | Water | | Water |
| | Validated: | Values (1) | | No | | No | | No | | No | | No | | No |
| Cas #: | Analyte: | | Units: | | | | | | | | | | | |
| 7440-62-2 | Vanadium | NS | mg/L | 0.038 | | 0.02 | | 0.49 | | 0.51 | | 0.56 | | 0.53 |
| 7440-66-6 | Zinc | 2 (G) | mg/L | 0.11 | | 0.04 | | 0.63 | | 0.63 | | 0.67 | | 0.63 |
| 57-12-5 | Cyanide | 0.2 | mg/L | 0.02 | U | 0.02 | U | 0.13 | | 0.12 | | 0.12 | | 0.12 |
| | | | | | | | | | | | | | | |
| (1) - Ambient Water Quality Standards and Guidance Values | | | | | | | | | | | | | | |
| TOGS 1.1.1 (October 1998) | | | | | | | | | | | | | | |
| U - Below detection limit | | | | | | | | | | | | | | |
| J - Estimated value | | | | | | | | | | | | | | |
| ND - Not detected | | | | | | | | | | | | | | |
| (G) - Guidance value | | | | | | | | | | | | | | |
| NS - No standard or guidance value | | | | | | | | | | | | | | |
| NR - Not run | | | | | | | | | | | | | | |

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | Client Sample ID: | NYSDEC | | )05 |
|---|---|---|---|---|
| | Sample Location: | Class GA | | D |
| | Depth: | Groundwater | | |
| | Laboratory ID: | Quality | | N |
| | Sampling Date: | Standards | | 1 |
| | Matrix: | and Guidance | | |
| | Validated: | Values (1) | | |
| Cas #: | Analyte: | | Units: | |
| | **PCBs** | | | |
| 12674-11-2 | PCB 1016 | | µg/L | |
| 11104-28-2 | PCB 1221 | | µg/L | U |
| 11141-16-5 | PCB 1232 | | µg/L | U |
| 53469-21-9 | PCB 1242 | | µg/L | U |
| 12672-29-6 | PCB 1248 | | µg/L | U |
| 11097-69-1 | PCB 1254 | | µg/L | U |
| 11096-82-5 | PCB 1260 | | µg/L | |
| | **Volatiles** | | | |
| 74-87-3 | Chloromethane | | µg/L | U |
| 74-83-9 | Bromomethane | | µg/L | U |
| 75-01-4 | Vinyl Chloride | | µg/L | U |
| 75-00-3 | Chloroethane | | µg/L | U |
| 75-09-2 | Methylene Chloride | 5 | µg/L | U |
| 67-64-1 | Acetone | | µg/L | U |
| 75-15-0 | Carbon disulfide | | µg/L | U |
| 75-35-4 | 1,1-Dichloroethene | | µg/L | |
| 75-34-3 | 1,1-Dichloroethane | | µg/L | U |
| 156-60-5 | t-1,2-Dichloroethene | | µg/L | U |
| 156-59-2 | c-1,2-Dichloroethene | 5 | µg/L | U |
| 67-66-3 | Chloroform | | µg/L | U |
| 107-06-2 | 1,2-Dichloroethane | | µg/L | U |
| 78-93-3 | 2-Butanone | | µg/L | U |
| 71-55-6 | 1,1,1-Trichloroethane | | µg/L | U |
| 56-23-5 | Carbon Tetrachloride | | µg/L | U |
| 75-27-4 | Bromodichloromethane | | µg/L | U |
| 78-87-5 | 1,2-Dichloropropane | | µg/L | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | µg/L | U |
| 79-01-6 | Trichloroethene | 5 | µg/L | |
| 124-48-1 | Dibromochloromethane | | µg/L | U |
| 79-00-5 | 1,1,2-Trichloroethane | | µg/L | U |
| 71-43-2 | Benzene | 1 | µg/L | |
| 10061-02-6 | trans-1,3-Dichloropropene | | µg/L | U |
| 75-25-2 | Bromoform | | µg/L | U |
| 108-10-1 | 4-Methyl-2-pentanone | | µg/L | U |
| 591-78-6 | 2-Hexanone | | µg/L | U |
| 127-18-4 | Tetrachloroethene | 5 | µg/L | |
| 108-88-3 | Toluene | 5 | µg/L | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | µg/L | U |
| 108-90-7 | Chlorobenzene | | µg/L | |
| 100-41-4 | Ethylbenzene | 5 | µg/L | U |
| 100-42-5 | Styrene | | µg/L | U |
| 108-38-3 | m,p-xylene | 5 | µg/L | U |
| 95-47-6 | o-xylene | 5 | µg/L | U |
| | | | | |
| | **Total BTEX** | | µg/L | |
| | **Semi-Volatiles** | | | |
| 108-95-2 | Phenol | | µg/L | |
| 111-44-4 | bis(2-Chloroethyl)ether | | µg/L | U |
| 95-57-8 | 2-Chlorophenol | | µg/L | |
| 541-73-1 | 1,3-Dichlorobenzene | | µg/L | U |
| 106-46-7 | 1,4-Dichlorobenzene | | µg/L | |
| 95-50-1 | 1,2-Dichlorobenzene | | µg/L | U |
| 95-48-7 | 2-Methylphenol | | µg/L | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | | µg/L | U |
| 106-44-5 | 3+4-Methylphenol | | µg/L | U |
| 621-64-7 | N-Nitrosodi-n-propylamine | | µg/L | |
| 67-72-1 | Hexachloroethane | | µg/L | U |
| 98-95-3 | Nitrobenzene | | µg/L | U |
| 78-59-1 | Isophorone | | µg/L | U |
| 88-75-5 | 2-Nitrophenol | | µg/L | U |
| 105-67-9 | 2,4-Dimethylphenol | | µg/L | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | | µg/L | U |
| 120-83-2 | 2,4-Dichlorophenol | | µg/L | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | µg/L | |
| 106-47-8 | 4-Chloroaniline | | µg/L | U |
| 87-68-3 | Hexachlorobutadiene | | µg/L | U |
| 59-50-7 | 4-Chloro-3-methylphenol | | µg/L | |
| 77-47-4 | Hexachlorocyclopentadiene | | µg/L | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | µg/L | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | µg/L | U |

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | **Client Sample ID:** | **NYSDEC** | | **)05** |
|---|---|---|---|---|
| | **Sample Location:** | **Class GA** | | **D** |
| | **Depth:** | **Groundwater** | | |
| | **Laboratory ID:** | **Quality** | | **N** |
| | **Sampling Date:** | **Standards** | | **1** |
| | **Matrix:** | **and Guidance** | | |
| | **Validated:** | **Values (1)** | | |
| **Cas #:** | **Analyte:** | | **Units:** | |
| 91-58-7 | 2-Chloronaphthalene | | µg/L | U |
| 88-74-4 | 2-Nitroaniline | | µg/L | U |
| 131-11-3 | Dimethylphthalate | | µg/L | U |
| 606-20-2 | 2,6-Dinitrotoluene | | µg/L | U |
| 99-09-2 | 3-Nitroaniline | | µg/L | U |
| 51-28-5 | 2,4-Dinitrophenol | | µg/L | U |
| 100-02-7 | 4-Nitrophenol | | µg/L | |
| 132-64-9 | Dibenzofuran | NS | µg/L | U |
| 121-14-2 | 2,4-Dinitrotoluene | | µg/L | |
| 84-66-2 | Diethylphthalate | 50 (G) | µg/L | J |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | | µg/L | U |
| 100-01-6 | 4-Nitroaniline | | µg/L | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | | µg/L | U |
| 86-30-6 | N-Nitrosodiphenylamine | | µg/L | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | | µg/L | U |
| 118-74-1 | Hexachlorobenzene | | µg/L | U |
| 87-86-5 | Pentachlorophenol | | µg/L | |
| 86-74-8 | Carbazole | NS | µg/L | U |
| 84-74-2 | Di-n-butylphthalate | NS | µg/L | |
| 85-68-7 | Butylbenzylphthalate | | µg/L | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | µg/L | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 5 | µg/L | B |
| 117-84-0 | Di-n-octylphthalate | | µg/L | U |
| | | | | |
| | **Non Carcinogenic PAHs** | | | |
| 83-32-9 | Acenaphthene | 20 (G) | µg/L | |
| 208-96-8 | Acenaphthylene | NS | µg/L | J |
| 120-12-7 | Anthracene | 50 (G) | µg/L | U |
| 191-24-2 | Benzo(g,h,i)perylene | NS | µg/L | U |
| 206-44-0 | Fluoranthene | 50 (G) | µg/L | U |
| 86-73-7 | Fluorene | 50 (G) | µg/L | U |
| 91-57-6 | 2-Methylnaphthalene | NS | µg/L | U |
| 91-20-3 | Naphthalene | 10 (G) | µg/L | U |
| 85-01-8 | Phenanthrene | 50 (G) | µg/L | U |
| 129-00-0 | Pyrene | 50 (G) | µg/L | |
| | | | | |
| | Total Non Carcinogenic PAHs | | µg/L | |
| | **Probable Carcinogenic PAHs** | | | |
| 56-55-3 | Benzo(a)anthracene | 0.002 | µg/L | U |
| 205-99-2 | Benzo(b)fluoranthene | 0.002 | µg/L | U |
| 207-08-9 | Benzo(k)fluoranthene | 0.002 | µg/L | U |
| 50-32-8 | Benzo(a)pyrene | ND | µg/L | |
| 218-01-9 | Chrysene | 0.002 | µg/L | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.002 | µg/L | U |
| 53-70-3 | Dibenz(a,h)anthracene | NS | µg/L | U |
| | | | | |
| | Total Probable Carcinogenic PAHs | | µg/L | |
| | **Total PAHs** | | **µg/L** | |
| | **Metals** | | | |
| 7439-97-6 | Mercury | 0.0007 | mg/L | |
| 7429-90-5 | Aluminum | 0.1 | mg/L | |
| 7440-36-0 | Antimony | 0.003 | mg/L | |
| 7440-38-2 | Arsenic | 0.025 | mg/L | |
| 7440-39-3 | Barium | 1 | mg/L | |
| 7440-41-7 | Beryllium | 0.003 | mg/L | |
| 7440-43-9 | Cadmium | 0.005 (G) | mg/L | |
| 7440-70-2 | Calcium | NS | mg/L | |
| 7440-47-3 | Chromium | 0.05 | mg/L | |
| 7440-48-4 | Cobalt | NS | mg/L | |
| 7440-50-8 | Copper | 0.2 | mg/L | |
| 7439-89-6 | Iron | 0.3 | mg/L | |
| 7439-92-1 | Lead | 0.025 | mg/L | |
| 7439-95-4 | Magnesium | 35 (G) | mg/L | |
| 7439-96-5 | Manganese | 0.3 | mg/L | |
| 7440-02-0 | Nickel | 0.1 | mg/L | |
| 7440-09-7 | Potassium | NS | mg/L | |
| 7782-49-2 | Selenium | 0.01 | mg/L | |
| 7440-22-4 | Silver | 0.05 | mg/L | |
| 7440-23-5 | Sodium | 20 | mg/L | |
| 7440-28-0 | Thallium | 0.0005 (G) | mg/L | |

TABLE 4-4
GROUNDWATER SAMPLE ANALYTICAL RESULTS
WHITE PLAINS FORMER MGP SITE

| | **Client Sample ID:** | **NYSDEC** | | **)05** |
|---|---|---|---|---|
| | **Sample Location:** | **Class GA** | | **D** |
| | **Depth:** | **Groundwater** | | |
| | **Laboratory ID:** | **Quality** | | **N** |
| | **Sampling Date:** | **Standards** | | **1** |
| | **Matrix:** | **and Guidance** | | |
| | **Validated:** | **Values (1)** | | |
| **Cas #:** | **Analyte:** | | **Units:** | |
| 7440-62-2 | Vanadium | NS | mg/L | |
| 7440-66-6 | Zinc | 2 (G) | mg/L | |
| 57-12-5 | Cyanide | 0.2 | mg/L | |
| | | | | |
| (1) - Ambient Water Quality Standards and Guidance Values | | | | |
| TOGS 1.1.1 (October 1998) | | | | |
| U - Below detection limit | | | | |
| J - Estimated value | | | | |
| ND - Not detected | | | | |
| (G) - Guidance value | | | | |
| NS - No standard or guidance value | | | | |
| NR - Not run | | | | |

**TABLE 4-5**
**SUMMARY OF SOIL GAS SAMPLE RESULTS**
**WHITE PLAINS SUBSTATION**

| **Client Sample ID:** | | **SG-X1A** | **SG-X1B** | **SG-X2A** | **SG-X2B** | **SG-X3** | **SB-Basement 1** |
|---|---|---|---|---|---|---|---|
| **Location:** | | | | | | | |
| **Depth:** | | **5'** | **5'** | **11'** | **8'** | **5'** | **2'** |
| **Laboratory ID:** | | | | | | | |
| **Sampling Date:** | | **5/28/02** | **5/28/02** | **5/28/02** | **5/28/02** | **5/28/02** | **6/4/02** |
| **Matrix** | | **Soil Gas** | **Soil Gas** | **Soil Gas** | **Soil Gas** | **Soil Gas** | **Soil Gas** |
| **Validated** | | **No** | **No** | **No** | **No** | **No** | **No** |
| **Analyte:** | **Units:** | | | | | | |
| **Volatiles** | | | | | | | |
| | | | | | | | |
| 1,1,1-trichloroethane | ppbv | ND | ND | ND | 1.1 | ND | 0.65 |
| 1,1-dichloroethene | ppbv | ND | ND | ND | 0.45 | ND | ND |
| 2-Butanone | ppbv | ND | 0.49 | 0.61 | 0.43 | ND | ND |
| Acetone | ppbv | ND | 2.4 | 1.8 | 5.7 | 1.5 | 2 |
| Bromodichloromethane | ppbv | ND | ND | ND | ND | ND | 0.86 |
| Carbon Disulfide | ppbv | ND | ND | 0.68 | 0.51 | ND | ND |
| Chloroform | ppbv | 0.84 | ND | 0.43 | 0.34 | 0.37 | 0.8 |
| m,p Xylene | ppbv | ND | ND | 0.37 | 0.43 | ND | ND |
| Methyl ter-Butyl Ether (MTBE) | ppbv | ND | ND | 0.38 | ND | ND | ND |
| Methylene chloride | ppbv | ND | ND | ND | ND | ND | 0.86 |
| Tetrachloroethene | ppbv | ND | ND | ND | 0.37 | ND | 0.65 |
| Toluene | ppbv | 1.5 | 0.75 | 1.4 | 1.2 | 0.87 | ND |
| Trichloroethene | ppbv | ND | ND | 0.26 | 0.28 | ND | 0.76 |
| Trichlorofluoroethane | ppbv | ND | ND | ND | 0.45 | ND | ND |
| Trichlorofluoromethane | ppbv | ND | 0.27 | 0.26 | 0.27 | 0.27 | 0.26 |
| | | | | | | | |
| | | | | | | | |

**TABLE 4-6**
**AIR SAMPLE RESULTS**

| Compound | Sample Location | |
|---|---|---|
| | Outdoors Northeast Corner (ppb) | Basement Center of Space (ppb) |
| Dichlorofluoromethane | 0.44 | 0.45 |
| Chloromethane | --- | 0.63 |
| Ethanol | 6.3 | 2.7 |
| Acetone | 7.0 | 22 |
| Trichlorofluoromethane | 0.30 | 0.31 |
| Methyl tert-Butyl Ether | 1.2 | 0.88 |
| Vinyl Acetate | --- | 0.47 |
| n-Hexane | 0.39 | 0.60 |
| Benzene | 0.50 | 0.45 |
| Toluene | 0.79 | 0.67 |
| m,p-Xylenes | 0.39 | 0.39 |
| **Tentatively Identified VOCs** | | |
| Propene + Propane | 6 | 6 |
| Isobutane | 4 | 4 |
| n-Butane | 6 | 6 |
| n-Pentane | 4 | 4 |
| C5H8 Compound | 4 | 20 |
| Unidentified Compound | --- | 5 |
| Acetic Acid | 10 | 20 |
| Propanoic Acid | 5 | --- |
| Hexamethylcyclotrisiloxane | 10 | 20 |
| Benzaldehyde | --- | 4 |
| Octanal | --- | 4 |
| n-Decane | --- | 3 |
| 2-Butoxyethanol | 3 | --- |
| 2-Ethyl-1-hexanol | 7 | 6 |
| Nonanal | 3 | --- |
| n-Undecane | --- | 4 |
| Decanal | --- | 4 |
| TVOC as Toluene | 200 | 300 |

**Table 4-7**

**Summary of Southern Gasholder Soil Boring Observations**

**White Plains Former MGP Site**

| Soil Boring | Approximate Location | Depth of Boring | Depth to Groundwater | Depth Intervals with Visible NAPL |
|---|---|---|---|---|
| SB-17 | Outside and 30 feet NW of Gasholder | 56’ | 26’ | 54.5–55’ |
| SB-18 | Outside and 25 feet West of Gasholder | 60’ | 26’ | None |
| TB-1 | Outside and 5 feet NE of Gasholder | 39’ | 24’ | 36–39’ |
| TB-2 | Inside NE Corner of Gasholder | 18.5’ | 8’ | 17.5-18’ |
| TB-3 | Outside and 7 feet SE of Gasholder | 12’ | NA | None |
| SB-101 | Outside and 5 feet North of Gasholder | 45’ | 24’ | 27–28’ and 40-44’ |
| SB-102 | Inside in SE Corner of Gasholder | 13’ | NA | 9.5-13’ |
| SB-103 | Outside and 15 feet SE of Gasholder | 40’ | 24’ | None |
| SB-104 | Outside and 17 feet SE of Gasholder | 40’ | 23’ | None |
| SB-105 | Outside and 5 feet South of Gasholder | 40’ | 27’ | None |
| SB-106 | Outside and 32 feet South of Gasholder (transformer #6 area) | 40’ | 24’ | None |
| SB-107 | Outside and 45 feet South of Gasholder (transformer #6 area) | 40’ | 24’ | None |

## Table 4-8

## Summary of Southern Gasholder Soil Analytical Results

## White Plains Former MGP Site

| Consolidated Edison<br>White Plains Former MGP Site<br>Preliminary Soil Analytical Data<br>May 2003 | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB101A<br>R2561-01<br>23-25'<br>Chemtech<br>R2561<br>SOIL<br>5/16/2003 | SB101B<br>R2561-02<br>40-42'<br>Chemtech<br>R2561<br>SOIL<br>5/16/2003 | SB101C<br>R2561-03<br>44-45'<br>Chemtech<br>R2561<br>SOIL<br>5/16/2003 | SB103A<br>R2561-04<br>26-27'<br>Chemtech<br>R2561<br>SOIL<br>5/15/2003 | SB103B<br>R2561-05<br>35-40'<br>Chemtech<br>R2561<br>SOIL<br>5/15/2003 | SB104A<br>R2561-06<br>26-30'<br>Chemtech<br>R2561<br>SOIL<br>5/15/2003 | SB104B<br>R2561-07<br>35-40'<br>Chemtech<br>R2561<br>SOIL<br>5/15/2003 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | |
| 75-09-2 | Methylene Chloride | ug/Kg | ND | ND | 3.5 JB | ND | 3.5 JB | 9.7 | 3.6 JB |
| 108-88-3 | Toluene | ug/Kg | ND | 1100 J | 2.2 J | ND | ND | ND | ND |
| 100-41-4 | Ethyl Benzene | ug/Kg | 100000 | 65000 | 50 | 13000 | ND | ND | ND |
| 136777-61-2 | m/p-Xylenes | ug/Kg | 20000 | 160000 | 100 | 8900 | ND | ND | ND |
| 1330-20-7 | o-Xylene | ug/Kg | 15000 | 59000 | 45 | 10000 | ND | ND | ND |
| | **Total VOCs** | **ug/Kg** | **135000** | **285100** | **200.7** | **31900** | **3.5** | **9.7** | **3.6** |
| | SEMIVOLATILES | | | | | | | | |
| 91-20-3 | Naphthalene | ug/Kg | 330000 D | 860000 D | 280 J | 560000 D | ND | ND | ND |
| 91-57-6 | 2-Methylnaphthalene | ug/Kg | 88000 D | 290000 D | ND | 200000 D | ND | 48 J | ND |
| 208-96-8 | Acenaphthylene | ug/Kg | 16000 JD | 29000 JD | ND | 14000 JD | ND | 1400 | ND |
| 83-32-9 | Acenaphthene | ug/Kg | 120000 D | 190000 D | ND | 160000 D | ND | 690 | ND |
| 100-02-7 | 4-Nitrophenol | ug/Kg | ND | ND | ND | ND | ND | ND | ND |
| 132-64-9 | Dibenzofuran | ug/Kg | 5200 | 32000 JD | ND | ND | ND | ND | ND |
| 86-73-7 | Fluorene | ug/Kg | 48000 D | 97000 JD | ND | 67000 D | ND | 770 | ND |
| 85-01-8 | Phenanthrene | ug/Kg | 130000 JD | 640000 D | 58 J | 270000 D | ND | 11000 D | ND |
| 120-12-7 | Anthracene | ug/Kg | 4800 | 89000 JD | ND | 3800 | ND | 3100 JD | ND |
| 86-74-8 | Carbazole | ug/Kg | ND | 8600 | ND | ND | ND | ND | ND |
| 206-44-0 | Fluoranthene | ug/Kg | 75000 D | 16000 | ND | 120000 D | ND | 4700 D | ND |
| 129-00-0 | Pyrene | ug/Kg | 15000 | 12000 | ND | 74000 JD | ND | 1900 | ND |
| 120-12-7 | Benzo(a)anthracene | ug/Kg | 36000 D | 60000 JD | ND | 49000 D | ND | 3200 JD | ND |
| 218-01-9 | Chrysene | ug/Kg | 25000 D | 30000 JD | ND | 30000 D | ND | 1900 JD | ND |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | ug/Kg | 240 J | 270 J | ND | 260 J | ND | 58 J | ND |
| 205-99-2 | Benzo(b)fluoranthene | ug/Kg | 5500 JD | 15000 JD | ND | 8100 JD | ND | 1000 JD | ND |
| 207-08-9 | Benzo(k)fluoranthene | ug/Kg | 5000 JD | ND | ND | 8700 JD | ND | ND | ND |
| 50-32-8 | Benzo(a)pyrene | ug/Kg | 15000 JD | 31000 JD | ND | 26000 D | ND | 2000 JD | ND |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ug/Kg | 700 J | 570 J | ND | 520 J | ND | 230 J | ND |
| 53-70-3 | Dibenz(a,h)anthracene | ug/Kg | 940 J | 830 J | ND | ND | ND | ND | ND |
| 191-24-2 | Benzo(g,h,i)perylene | ug/Kg | 1800 J | 1200 J | ND | 2500 | ND | 780 | ND |
| | **Total SVOCs** | **ug/Kg** | **922180** | **2402470** | **338** | **1593880** | **ND** | **32776** | **ND** |

J = Indicates an estimated value.
ND = Indicates constituent was not detected.
NA = Indicates constituent was not analyzed for.

## Table 4-8

## Summary of Southern Gasholder Soil Analytical Results

## White Plains Former MGP Site

| Consolidated Edison<br>White Plains Former MGP Site<br>Preliminary Soil Analytical Data<br>May 2003 | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB101A<br>R2561-01<br>23-25'<br>Chemtech<br>R2561<br>SOIL<br>5/16/2003 | SB101B<br>R2561-02<br>40-42'<br>Chemtech<br>R2561<br>SOIL<br>5/16/2003 | SB101C<br>R2561-03<br>44-45'<br>Chemtech<br>R2561<br>SOIL<br>5/16/2003 | SB103A<br>R2561-04<br>26-27'<br>Chemtech<br>R2561<br>SOIL<br>5/15/2003 | SB103B<br>R2561-05<br>35-40'<br>Chemtech<br>R2561<br>SOIL<br>5/15/2003 | SB104A<br>R2561-06<br>26-30'<br>Chemtech<br>R2561<br>SOIL<br>5/15/2003 | SB104B<br>R2561-07<br>35-40'<br>Chemtech<br>R2561<br>SOIL<br>5/15/2003 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | |
| | METALS | | | | | | | | |
| 7429-90-5 | Aluminum | mg/Kg | 3290 | 1710 | 13200 | 3430 | 2830 | 2740 | 2280 |
| 7440-36-0 | Antimony | mg/Kg | 0.33 J | 0.35 J | 0.4 J | 0.34 J | 0.32 J | 0.39 J | 0.37 J |
| 7440-38-2 | Arsenic | mg/Kg | 0.38 J | 0.59 J | 0.8 J | 0.47 J | ND | ND | 0.31 J |
| 7440-39-3 | Barium | mg/Kg | 29.7 | 18.3 J | 203 | 28.5 | 33.8 | 25.5 | 26.5 |
| 7440-41-7 | Beryllium | mg/Kg | 0.14 J | 0.07 J | 0.32 J | 0.13 J | 0.12 J | 0.12 J | 0.09 J |
| 7440-70-2 | Calcium | mg/Kg | 4280 | 20400 | 24800 | 7670 | 19500 | 16800 | 18700 |
| 7440-47-3 | Chromium | mg/Kg | 6.9 | 2.4 | 29.9 | 7.2 | 5.2 | 4.2 | 3.8 |
| 7440-48-4 | Cobalt | mg/Kg | 4.3 J | 3.3 J | 13.7 | 3.9 J | 4 J | 3.5 J | 3.2 J |
| 7440-50-8 | Copper | mg/Kg | 9.2 | 7.2 | 26 | 10.5 | 10.7 | 7.2 | 9 |
| 7439-89-6 | Iron | mg/Kg | 5560 | 3510 | 19900 | 5820 | 5450 | 6040 | 4170 |
| 7439-92-1 | Lead | mg/Kg | 1.6 | 1.3 | 2.8 | 2.3 | 1.5 | 1.3 | 1.4 |
| 7439-95-4 | Magnesium | mg/Kg | 4280 | 10600 | 19600 | 6020 | 11900 | 11600 | 10200 |
| 7439-96-5 | Manganese | mg/Kg | 99.2 | 50.6 | 321 | 73 | 82.5 | 97.6 | 65.7 |
| 7440-02-0 | Nickel | mg/Kg | 5.3 | 4.3 J | 21.2 | 5.4 | 5.5 | 3.9 J | 3.8 J |
| 7440-09-7 | Potassium | mg/Kg | 975 | 706 | 8980 | 1170 | 1260 | 1110 | 1030 |
| 7440-23-5 | Sodium | mg/Kg | 125 J | 252 J | 301 J | 135 J | 394 J | 87.7 J | 276 J |
| 7440-62-2 | Vanadium | mg/Kg | 11.2 | 5.7 J | 43.7 | 10 | 10.3 | 8.9 | 7.9 |
| 7440-66-6 | Zinc | mg/Kg | 6.7 | 0.07 U | 60.1 | 5.6 | 0.07 U | 0.07 U | 0.07 U |
| | OTHER | | | | | | | | |
| | TPH | mg/Kg | 5800 | 13000 | 160 | 5800 | 220 | 210 | 89 |

J = Indicates an estimated value.
ND = Indicates constituent was not detected.
NA = Indicates constituent was not analyzed for.

## Table 4-8

## Summary of Southern Gasholder Soil Analytical Results

## White Plains Former MGP Site

| Consolidated Edison<br>White Plains Former MGP Site<br>Preliminary Soil Analytical Data<br>May 2003 | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB105A<br>R2561-08<br>26-27'<br>Chemtech<br>R2561<br>SOIL<br>5/15/2003 | SB105B<br>R2561-09<br>38-40'<br>Chemtech<br>R2561<br>SOIL<br>5/15/2003 | SB106A<br>R2561-10<br>29-29.6'<br>Chemtech<br>R2561<br>SOIL<br>5/16/2003 | SB106B<br>R2561-11<br>37-39'<br>Chemtech<br>R2561<br>SOIL<br>5/16/2003 | SB107A<br>R2561-12<br>34-34.6'<br>Chemtech<br>R2561<br>SOIL<br>5/16/2003 | SB107B<br>R2561-16<br>35-40'<br>Chemtech<br>R2561<br>SOIL<br>5/16/2003 | SB107B DUP<br>R2561-15<br>35-40'<br>Chemtech<br>R2561<br>SOIL<br>5/16/2003 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | |
| 75-09-2 | Methylene Chloride | ug/Kg | ND | 3.3 JB | 4.7 JB | 3.1 JB | 15 | 5.5 JB | 8 B |
| 108-88-3 | Toluene | ug/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | Ethyl Benzene | ug/Kg | 35000 | ND | ND | ND | ND | ND | ND |
| 136777-61-2 | m/p-Xylenes | ug/Kg | 36000 | ND | ND | ND | ND | ND | ND |
| 1330-20-7 | o-Xylene | ug/Kg | 21000 | ND | ND | ND | ND | ND | ND |
| | **Total VOCs** | **ug/Kg** | **92000** | **3.3** | **4.7** | **3.1** | **15** | **5.5** | **8** |
| | SEMIVOLATILES | | | | | | | | |
| 91-20-3 | Naphthalene | ug/Kg | 720000 D | ND | NA | ND | NA | ND | ND |
| 91-57-6 | 2-Methylnaphthalene | ug/Kg | 250000 D | ND | NA | ND | NA | ND | ND |
| 208-96-8 | Acenaphthylene | ug/Kg | 14000 JD | ND | NA | ND | NA | ND | ND |
| 83-32-9 | Acenaphthene | ug/Kg | 190000 D | ND | NA | ND | NA | ND | ND |
| 100-02-7 | 4-Nitrophenol | ug/Kg | ND | ND | NA | ND | NA | ND | ND |
| 132-64-9 | Dibenzofuran | ug/Kg | 7200 | ND | NA | ND | NA | ND | ND |
| 86-73-7 | Fluorene | ug/Kg | 67000 D | ND | NA | ND | NA | ND | ND |
| 85-01-8 | Phenanthrene | ug/Kg | 320000 D | ND | NA | ND | NA | 41 J | ND |
| 120-12-7 | Anthracene | ug/Kg | 5200 | ND | NA | ND | NA | 57 J | ND |
| 86-74-8 | Carbazole | ug/Kg | ND | ND | NA | ND | NA | ND | ND |
| 206-44-0 | Fluoranthene | ug/Kg | 120000 D | ND | NA | ND | NA | ND | ND |
| 129-00-0 | Pyrene | ug/Kg | 96000 D | ND | NA | ND | NA | ND | ND |
| 120-12-7 | Benzo(a)anthracene | ug/Kg | 51000 D | ND | NA | ND | NA | ND | ND |
| 218-01-9 | Chrysene | ug/Kg | 32000 D | ND | NA | ND | NA | ND | ND |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | ug/Kg | 280 J | ND | NA | ND | NA | ND | ND |
| 205-99-2 | Benzo(b)fluoranthene | ug/Kg | 6900 JD | ND | NA | ND | NA | ND | ND |
| 207-08-9 | Benzo(k)fluoranthene | ug/Kg | 8000 JD | ND | NA | ND | NA | ND | ND |
| 50-32-8 | Benzo(a)pyrene | ug/Kg | 31000 D | ND | NA | ND | NA | ND | ND |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ug/Kg | ND | ND | NA | ND | NA | ND | ND |
| 53-70-3 | Dibenz(a,h)anthracene | ug/Kg | 910 J | ND | NA | ND | NA | ND | ND |
| 191-24-2 | Benzo(g,h,i)perylene | ug/Kg | 1500 J | ND | NA | ND | NA | ND | ND |
| | **Total SVOCs** | **ug/Kg** | **1920990** | **ND** | **NA** | **ND** | **NA** | **98** | **ND** |

J = Indicates an estimated value.
ND = Indicates constituent was not detected.
NA = Indicates constituent was not analyzed for.

## Table 4-8

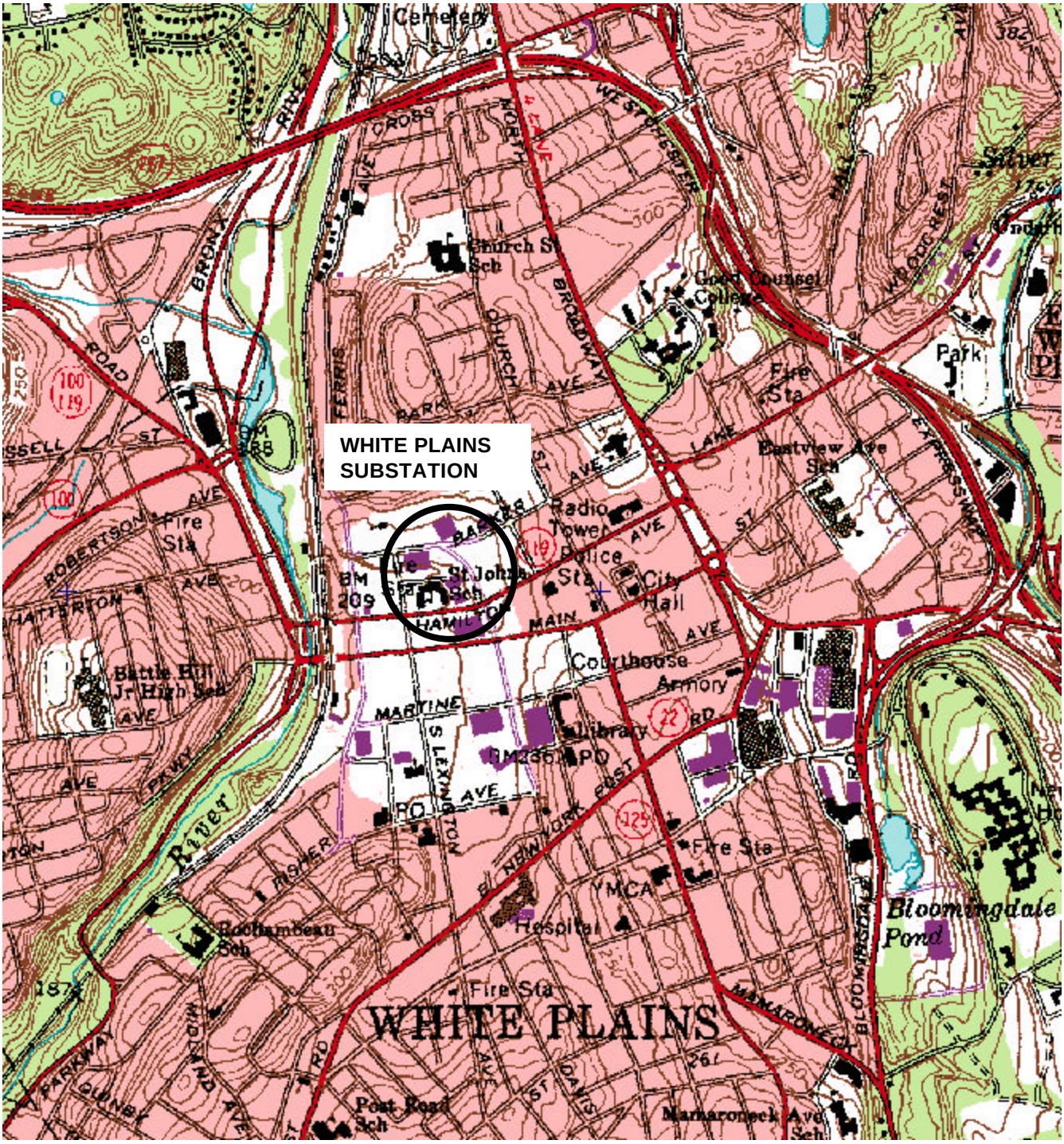
## Summary of Southern Gasholder Soil Analytical Results

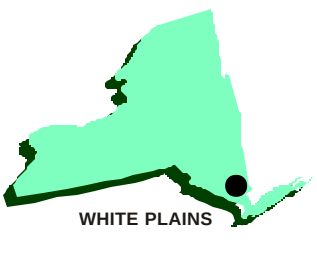
## White Plains Former MGP Site

| Consolidated Edison<br>White Plains Former MGP Site<br>Preliminary Soil Analytical Data<br>May 2003 | | Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB105A<br>R2561-08<br>26-27'<br>Chemtech<br>R2561<br>SOIL<br>5/15/2003 | SB105B<br>R2561-09<br>38-40'<br>Chemtech<br>R2561<br>SOIL<br>5/15/2003 | SB106A<br>R2561-10<br>29-29.6'<br>Chemtech<br>R2561<br>SOIL<br>5/16/2003 | SB106B<br>R2561-11<br>37-39'<br>Chemtech<br>R2561<br>SOIL<br>5/16/2003 | SB107A<br>R2561-12<br>34-34.6'<br>Chemtech<br>R2561<br>SOIL<br>5/16/2003 | SB107B<br>R2561-16<br>35-40'<br>Chemtech<br>R2561<br>SOIL<br>5/16/2003 | SB107B DUP<br>R2561-15<br>35-40'<br>Chemtech<br>R2561<br>SOIL<br>5/16/2003 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | |
| | METALS | | | | | | | | |
| 7429-90-5 | Aluminum | mg/Kg | 2230 | 2470 | NA | 3840 | NA | 3060 | 2800 |
| 7440-36-0 | Antimony | mg/Kg | ND | ND | NA | 0.42 J | NA | 0.59 J | ND |
| 7440-38-2 | Arsenic | mg/Kg | 0.4 J | 0.33 J | NA | ND | NA | ND | 0.39 J |
| 7440-39-3 | Barium | mg/Kg | 19.5 J | 26.7 | NA | 47 | NA | 36.5 | 31.8 |
| 7440-41-7 | Beryllium | mg/Kg | 0.1 J | 0.11 J | NA | 0.14 J | NA | 0.13 J | 0.12 J |
| 7440-70-2 | Calcium | mg/Kg | 1340 | 17500 | NA | 22700 | NA | 20200 | 21100 |
| 7440-47-3 | Chromium | mg/Kg | 3.8 | 4.7 | NA | 5.7 | NA | 4.9 | 4.4 |
| 7440-48-4 | Cobalt | mg/Kg | 3 J | 3.5 J | NA | 4.5 J | NA | 3.7 J | 3.4 J |
| 7440-50-8 | Copper | mg/Kg | 21.9 | 8.2 | NA | 9.7 | NA | 11.5 | 9 |
| 7439-89-6 | Iron | mg/Kg | 3800 | 5200 | NA | 5500 | NA | 5070 | 4900 |
| 7439-92-1 | Lead | mg/Kg | 2.5 | 1.3 | NA | 1.4 | NA | 1.4 | 1.2 |
| 7439-95-4 | Magnesium | mg/Kg | 1780 | 10300 | NA | 13400 | NA | 11800 | 12100 |
| 7439-96-5 | Manganese | mg/Kg | 38.8 | 79.4 | NA | 78.9 | NA | 68.6 | 64.9 |
| 7440-02-0 | Nickel | mg/Kg | 3.8 J | 4.1 J | NA | 5.7 | NA | 4.7 J | 4.2 J |
| 7440-09-7 | Potassium | mg/Kg | 687 | 1040 | NA | 2310 | NA | 1580 | 1410 |
| 7440-23-5 | Sodium | mg/Kg | 113 J | 302 J | NA | 329 J | NA | 280 J | 247 J |
| 7440-62-2 | Vanadium | mg/Kg | 6.9 | 9.4 | NA | 11.8 | NA | 9.8 | 9.4 |
| 7440-66-6 | Zinc | mg/Kg | 0.07 U | 0.07 U | NA | 3.6 | NA | 0.67 J | 0.77 J |
| | OTHER | | | | | | | | |
| | TPH | mg/Kg | 7800 | 98 | NA | 100 | NA | 140 | 110 |

J = Indicates an estimated value.
ND = Indicates constituent was not detected.
NA = Indicates constituent was not analyzed for.

# FIGURES




New York
Quadrangle

LATITUDE: N42° 02' 00"
LONGITUDE: W73° 46' 16"

N

SOURCE: DeLORME 3-D
TOPOQUAD PROGRAM

# FIGURE 1-1

CONSOLIDATED EDISON
WHITE PLAINS FORMER MGP SITE
WHITE PLAINS, NEW YORK

# SITE LOCATION MAP

**PARSONS**
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WATER STREET

NORTH LEXINGTON AVENUE

NEW STREET

4 STORY OFFICE BUILDING (12 WATER STREET)

EXISTING SWITCHGEAR BUILDING

DRY WELLS: DW-1 THROUGH DW-4

DW-5

STOCKADE FENCE

CHAIN LINK FENCE

GATE

EXST L&P TRANSF

EXISTING SWITCHGEAR BUILDING (9 NEW STREET)

GROVE STREET "Dr. MARTIN LUTHER KING, Jr. Blvd."

3 OFFICE BUILDING (170 HAMILTON AVENUE)

N

LEGEND

DW-1 DRY WELL LOCATION

CON EDISON PROPERTY LINE

FORMER MGP SITE BOUNDARY

40 20 0 40 80

SCALE: 1"=40'

ORIGINAL BASE MAP INFORMATION DERIVED FROM STRATUS SERVICES GROUP, ENGINEERING DIVISION, INC., CRANBURY, NEW JERSEY.

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FAX: (315) 451-9570

Con Edison

WHITE PLAINS FORMER MGP SITE
WHITE PLAINS, NEW YORK

SUBSTATION SITE PLAN

FIGURE NO.
1-2

No XREFs
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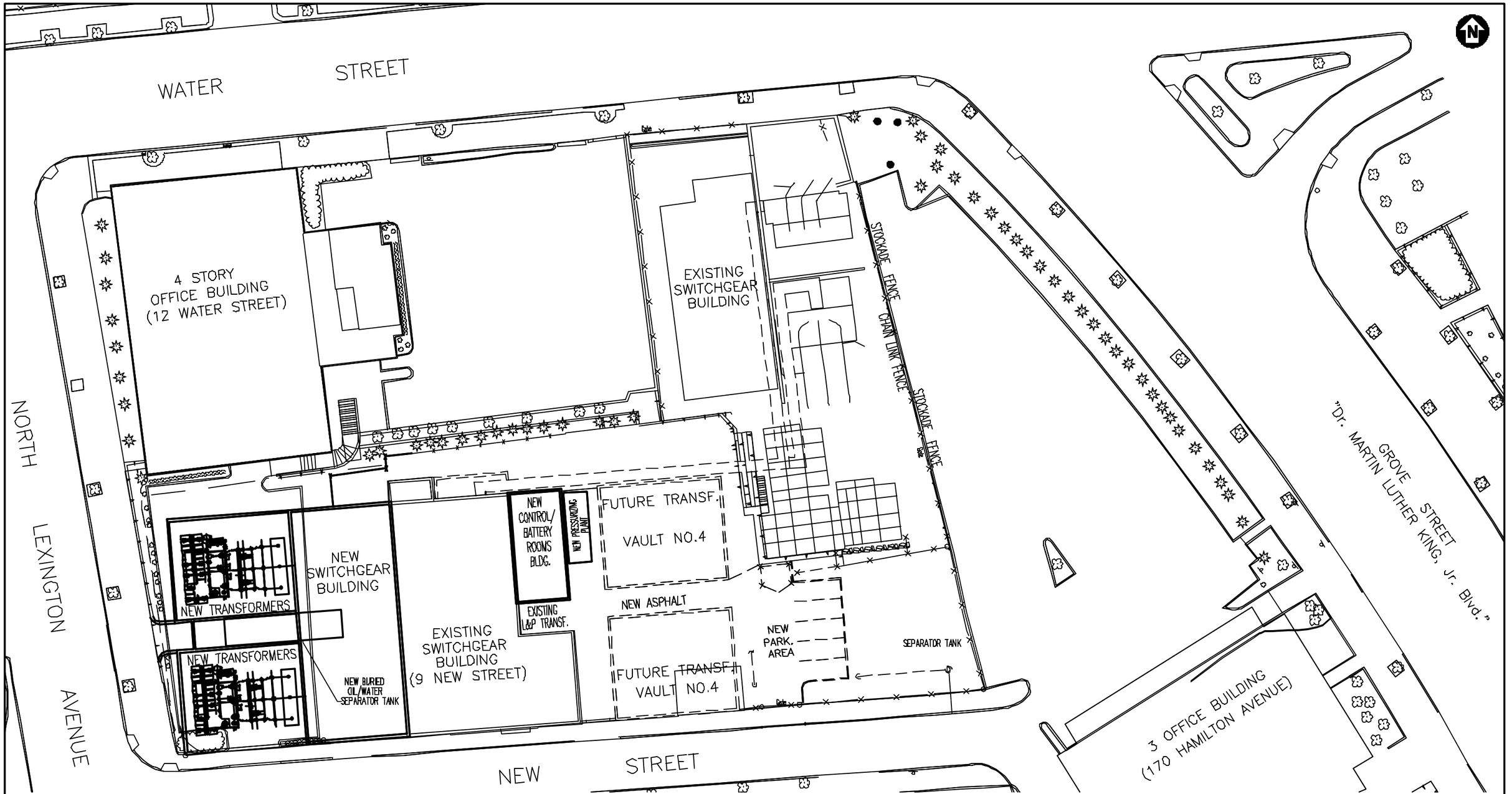


**Legend**

PROPOSED PHASE I STRUCTURES

PROPOSED PHASE II STRUCTURES

40 20 0 40 80

SCALE: 1"=40'

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WHITE PLAINS FORMER MGP SITE
WHITE PLAINS, NEW YORK

SUBSTATION RECONSTRUCTION PLAN

FIGURE NO. 1-3

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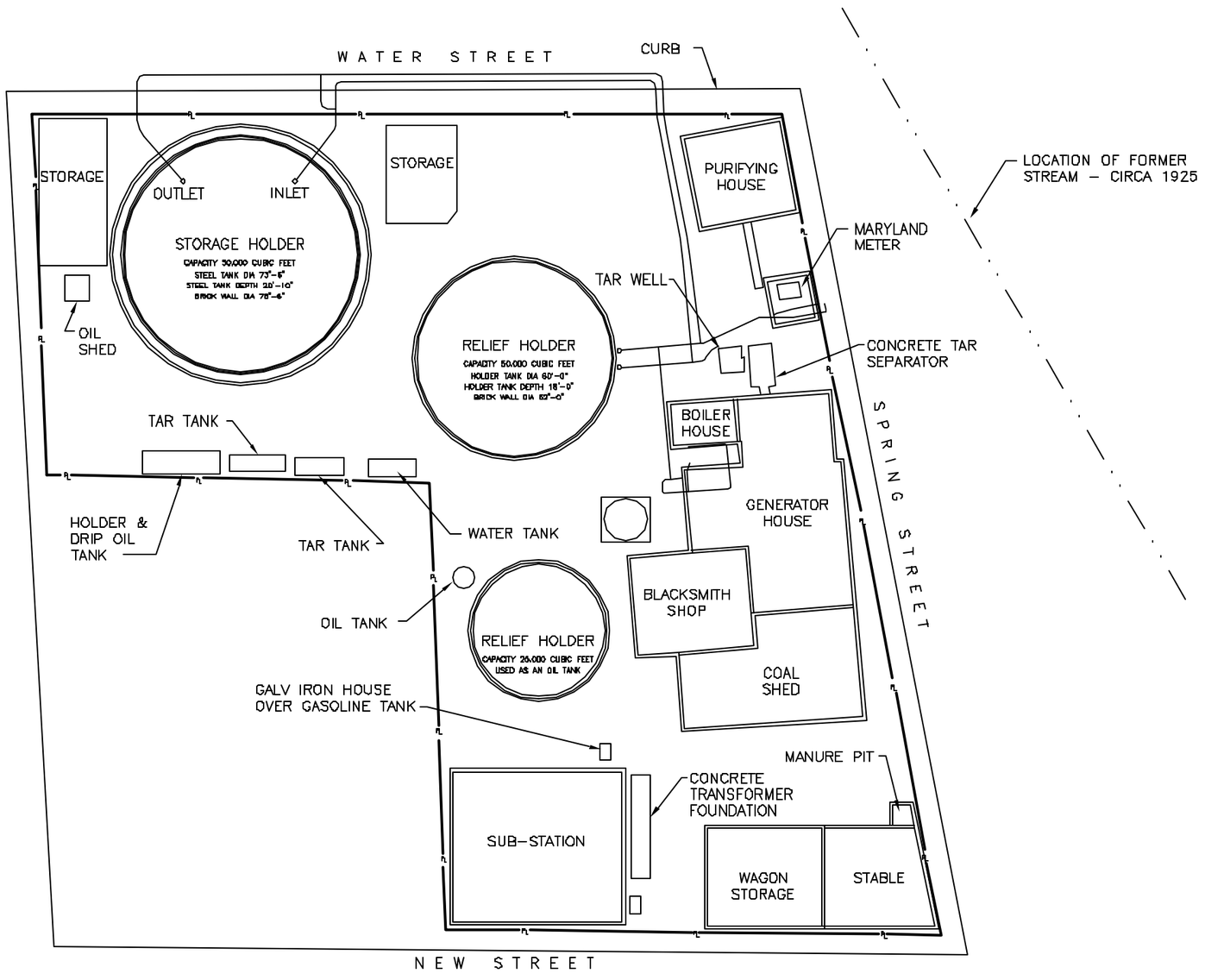


40 20 0 40 80

SCALE: 1"=40'

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WHITE PLAINS FORMER MGP SITE
WHITE PLAINS, NEW YORK

HISTORICAL LAYOUT OF MGP CIRCA 1911

FIGURE NO.
1-4

No XREFs
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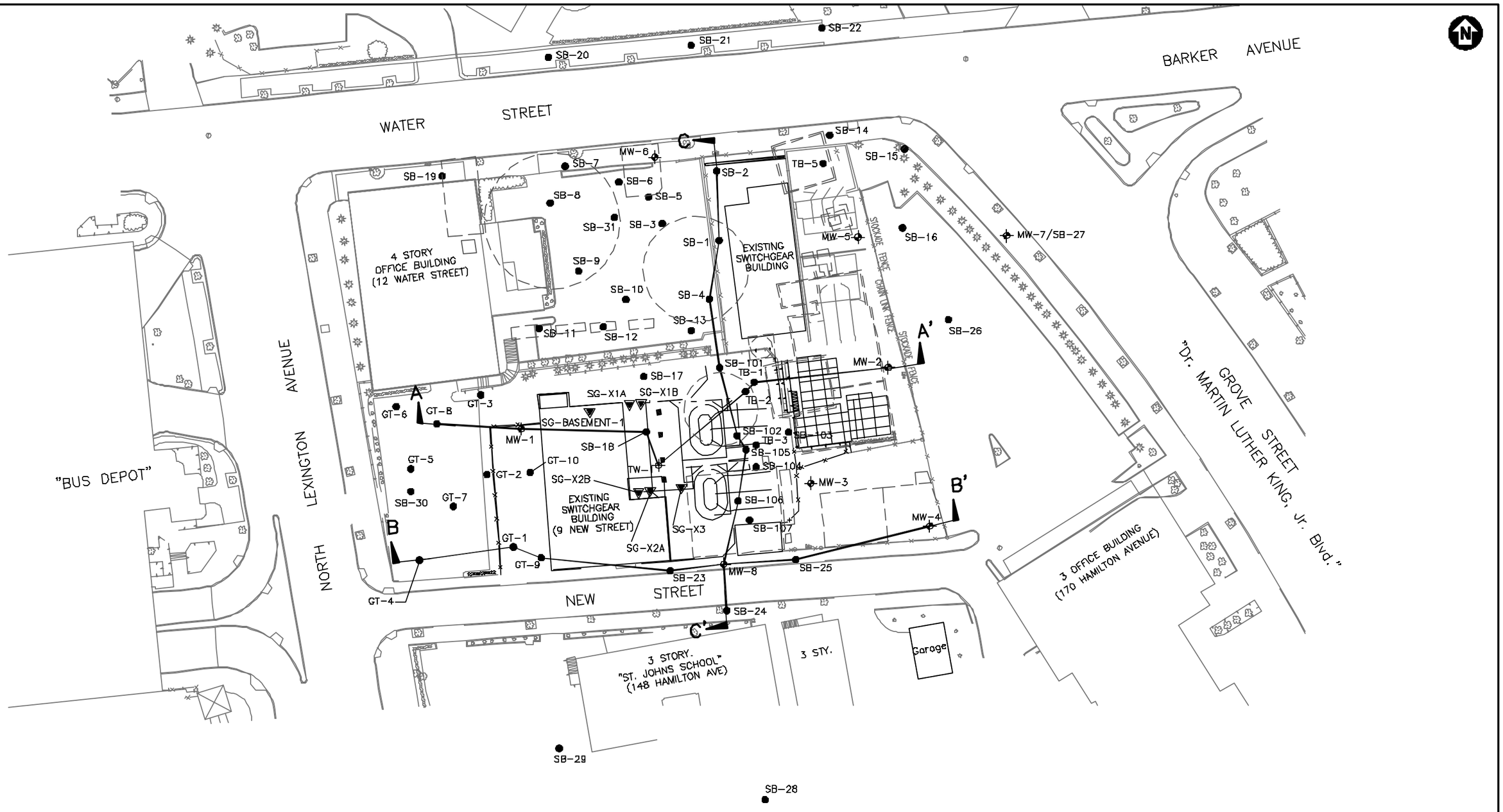


## Legend

- SB-1 ● SOIL BORING
- TB-1 ● TEST BORING
- GT-1 ● GEOTECHNICAL BORING (CONDUCTED IN 1999)
- MW-3 ⊕ MONITORING WELL
- TW-1 ⊕ TEMPORARY WELL
- ■ DRY WELL
- FORMER MGP STRUCTURES
- SG-X1A ▽ SOIL GAS SAMPLING LOCATION
- A ——— A' GEOLOGIC CROSS SECTION

60 30 0 60 120

SCALE: 1"=60'

ORIGINAL BASE MAP INFORMATION DERIVED FROM STRATUS SERVICES GROUP, ENGINEERING DIVISION, INC., CRANBURY, NEW JERSEY.

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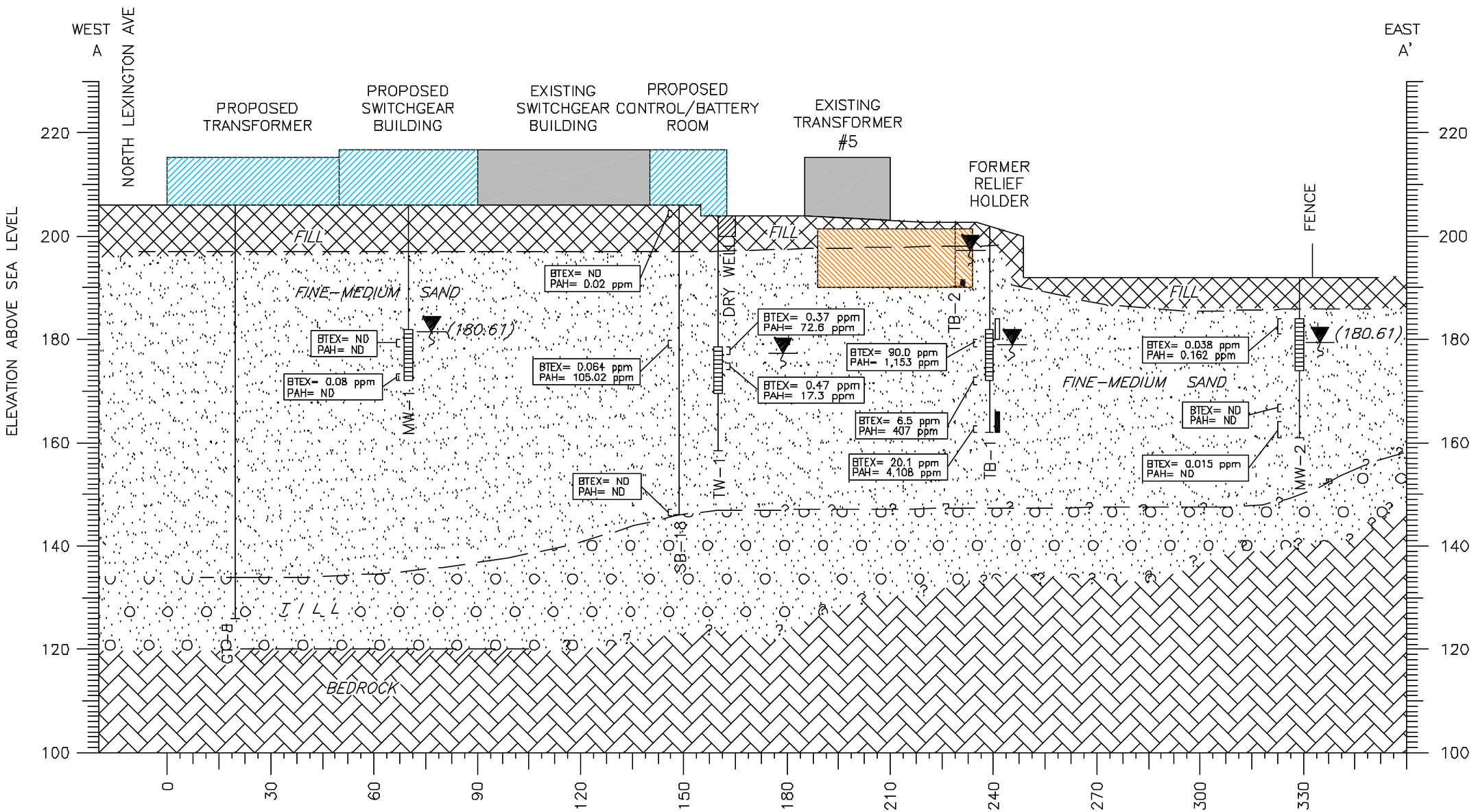
WHITE PLAINS FORMER MGP SITE
WHITE PLAINS, NEW YORK

SOIL BORINGS AND MONITORING WELL LOCATIONS

FIGURE NO.
2-1




ABBREVIATIONS:

| | |
|---|---|
| GT | GEOTECHNICAL BORING |
| MW | MONITORING WELL |
| ND | NOT DETECTED |
| PAH | POLYNUCLEAR AROMATIC HYDROCARBONS |
| ppm | PARTS PER MILLION |
| VOC | VOLATILE ORGANIC COMPOUNDS |
| TB | PARTS PER MILLION |
| TW | TEMPORARY WELL |

SYMBOLS:

- EXISTING STRUCTURE
- PROPOSED STRUCTURE
- FORMER MGP STRUCTURE
- VISUAL DNAPL
- VISUAL STAINING

LEGEND:

- SOIL BORING LOCATION
- SCREENED INTERVAL
- GROUNDWATER LEVEL
- SOIL SAMPLE INTERVAL

20 10 0 20
VERTICAL SCALE: 1"=20'

30 15 0 30
HORIZONTAL SCALE: 1"=30'

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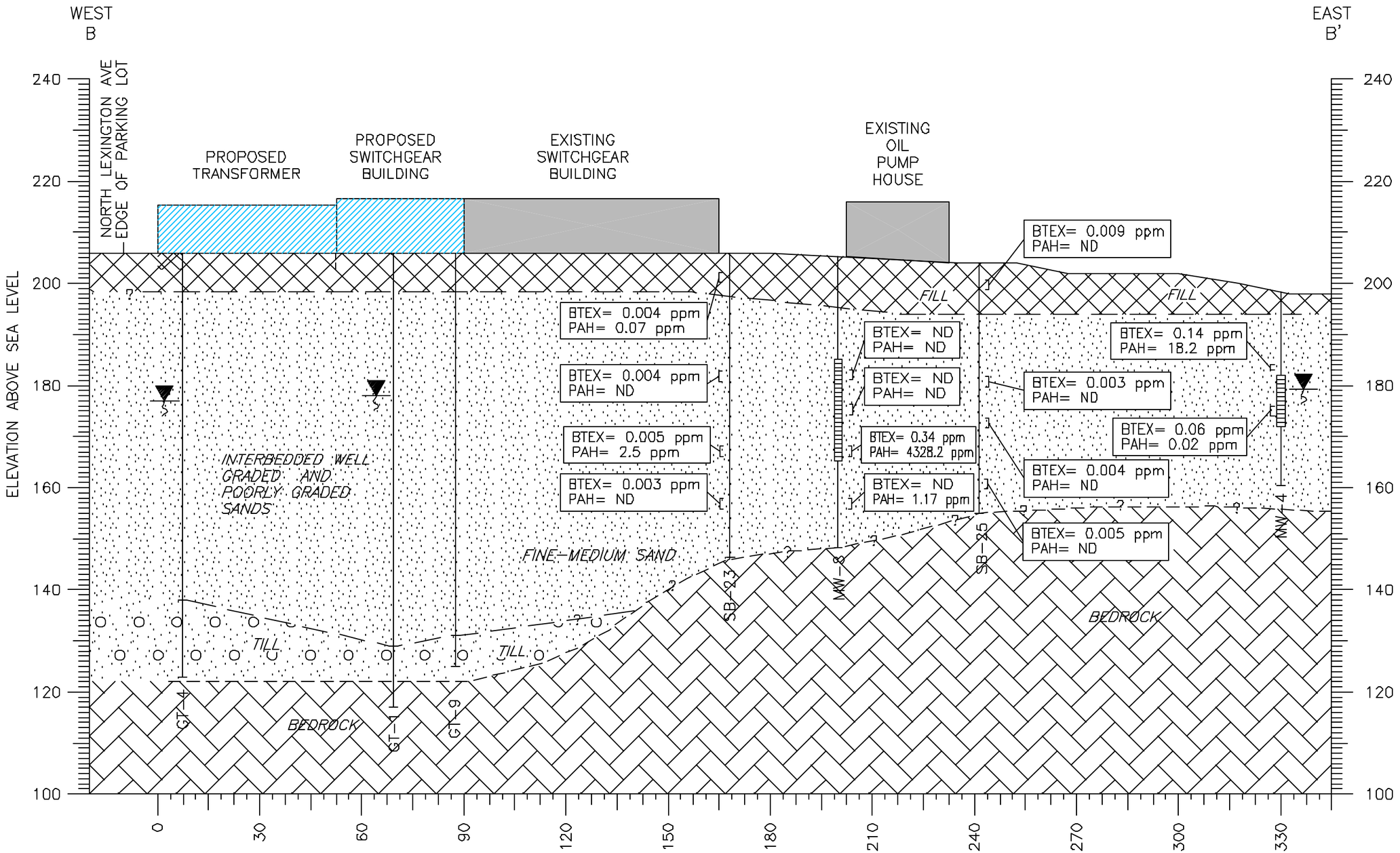
WHITE PLAINS SUBSTATION
WHITE PLAINS, NEW YORK

CROSS SECTION A-A'

FIGURE NO.
3-1




ABBREVIATIONS:

| | |
|---|---|
| GT | GEOTECHNICAL BORING |
| MW | MONITORING WELL |
| ND | NOT DETECTED |
| PAH | POLYNUCLEAR AROMATIC HYDROCARBONS |
| ppm | PARTS PER MILLION |
| VOC | VOLATILE ORGANIC COMPOUNDS |

SYMBOLS:

- EXISTING STRUCTURE
- PROPOSED STRUCTURE

LEGEND:

- SOIL BORING LOCATION
- SCREENED INTERVAL
- GROUNDWATER LEVEL
- SOIL SAMPLE INTERVAL

20 10 0 20
VERTICAL SCALE: 1"=20'

30 15 0 30
HORIZONTAL SCALE: 1"=30'

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WHITE PLAINS SUBSTATION
WHITE PLAINS, NEW YORK

CROSS SECTION B-B'

FIGURE NO.
3-2

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NORTH
C

SOUTH
C'

ELEVATION ABOVE SEA LEVEL

220
200
180
160
140
120
100

FENCE

FORMER NORTHERN RELIEF HOLDER

FORMER SOUTHERN RELIEF HOLDER

FILL

FILL

FINE–MEDIUM SAND

BEDROCK

SB–2
SB–1
SB–4
SB–101
SB–102
SB–105
SB–106
SB–1
MW–8
SB–24

0 30 60 90 120 150 180 210 240 270 300

LEGEND:

FORMER MGP STRUCTURE

VISUAL DNAPL

VISUAL STAINING

SOIL BORING / MONITORING WELL LOCATION

SCREENED INTERVAL

20 10 0 20
VERTICAL SCALE: 1"=20'

30 15 0 30
HORIZONTAL SCALE: 1"=30'

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WHITE PLAINS FORMER MGP SITE
WHITE PLAINS, NEW YORK

CROSS SECTION C–C'

FIGURE NO.
3–3

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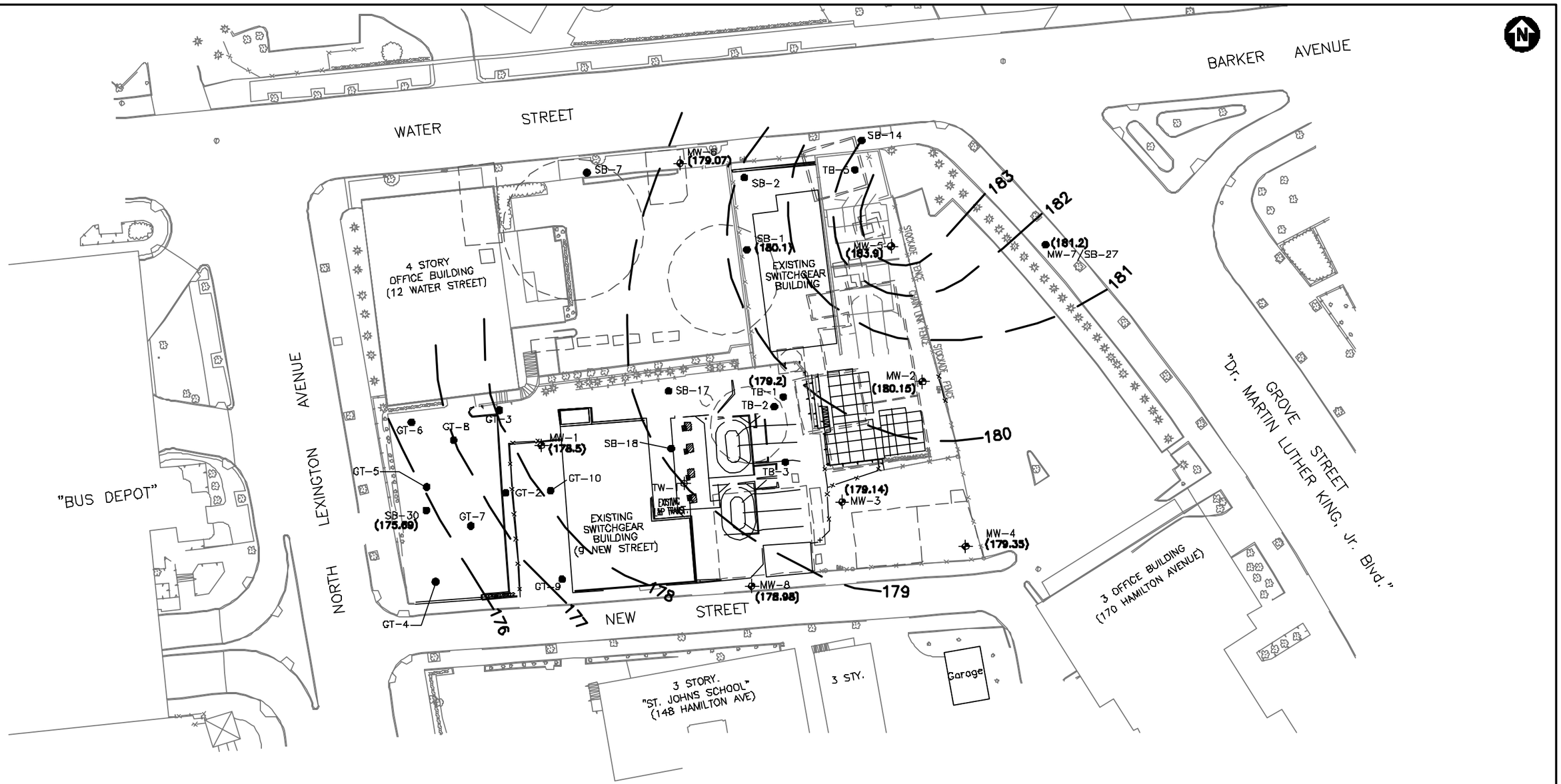


## Legend

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- TB-1 ● TEST BORING
- GT-1 ● GEOTECHNICAL BORING (CONDUCTED IN 1999)
- MW-3 ⊕ MONITORING WELL
- TW-1 ⊕ TEMPORARY WELL
- ■ DRY WELL
- FORMER MGP STRUCTURES
- *(NAPL)* NONAQUEOUS PHASE LIQUIDS
- GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL

60 30 0 60 120

SCALE: 1"=60'

ORIGINAL BASE MAP INFORMATION DERIVED FROM STRATUS SERVICES GROUP, ENGINEERING DIVISION, INC., CRANBURY, NEW JERSEY.

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WHITE PLAINS FORMER MGP SITE
WHITE PLAINS, NEW YORK

GROUNDWATER ELEVATION CONTOUR MAP
JULY 26, 2001

FIGURE NO.
3-4

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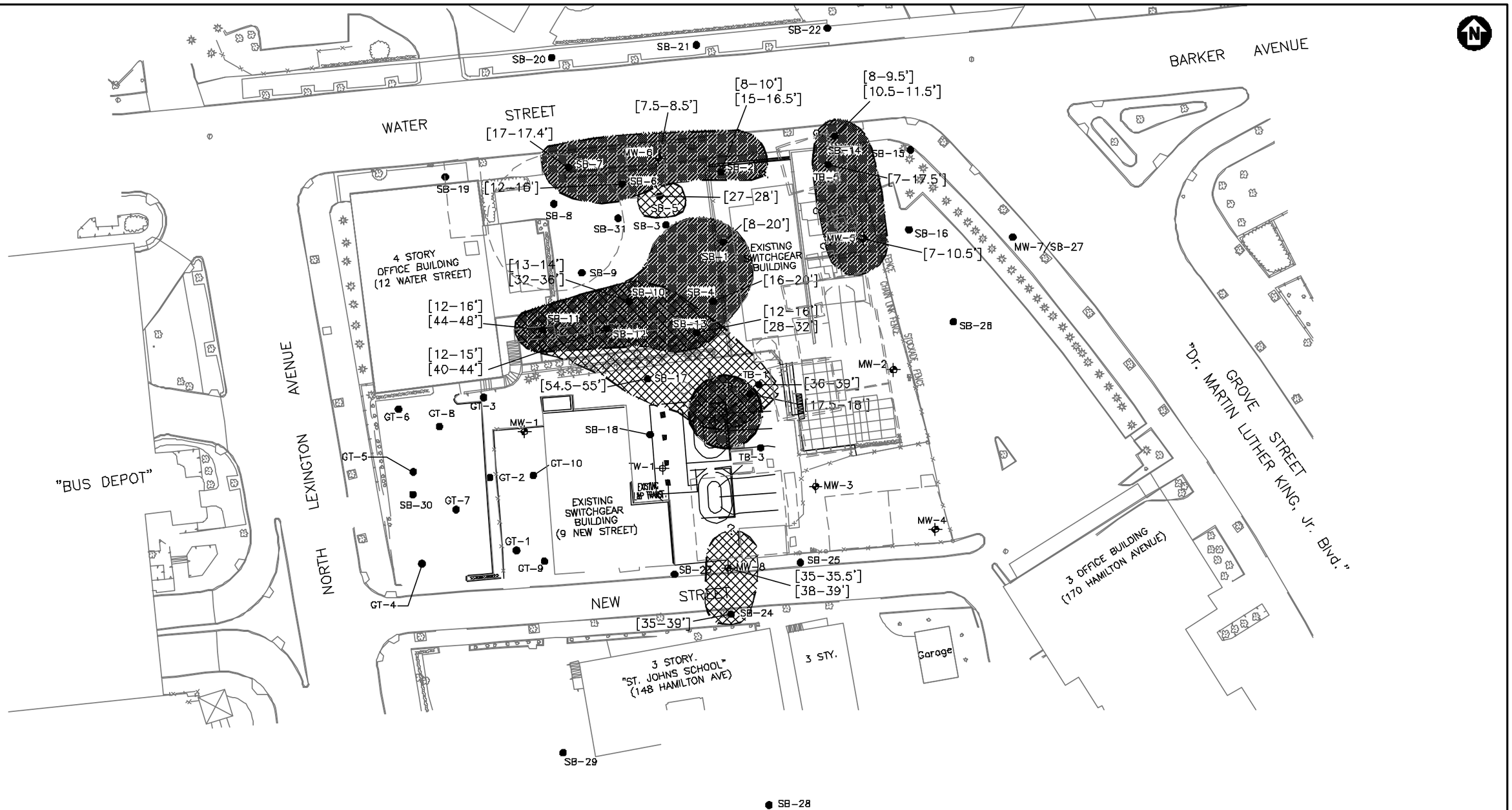


## Legend

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- TB-1 ● TEST BORING
- GT-1 ● GEOTECHNICAL BORING (CONDUCTED IN 1999)
- MW-3 ⊕ MONITORING WELL
- TW-1 ⊕ TEMPORARY WELL
- ■ DRY WELL
- FORMER MGP STRUCTURES
- (NAPL) NONAQUEOUS PHASE LIQUIDS
- VISIBLE NAPL IN SOILS AT DEPTHS OF 0-20 FT.
- VISIBLE NAPL IN SOILS AT DEPTHS > 20 FT.
- [7.5-8.5'] DEPTH INTERVAL WITH VISIBLE NAPL

60 30 0 60 120

SCALE: 1"=60'

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FAX (315) 451-9570

Con Edison

WHITE PLAINS FORMER MGP SITE
WHITE PLAINS, NEW YORK

DISTRIBUTION OF VISIBLE NAPL IN SUBSURFACE SOIL

FIGURE NO. 4-1

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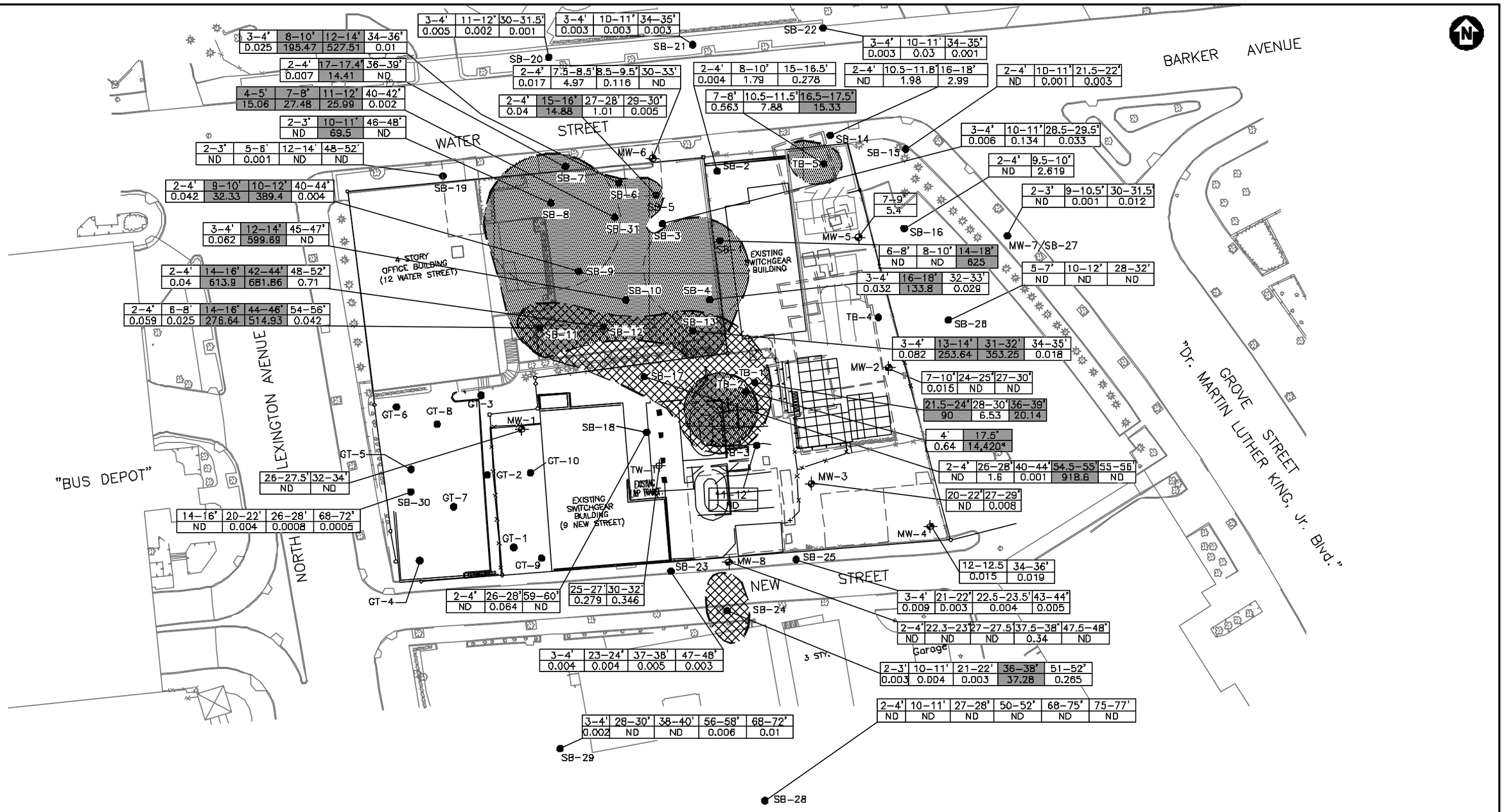


## Legend

- SB-1 ● SOIL BORING
- TB-1 ● TEST BORING
- GT-1 ● GEOTECHNICAL BORING (CONDUCTED IN 1999)
- MW-3 ⊕ MONITORING WELL
- TW-1 ⊕ TEMPORARY WELL
- ■ DRY WELL
- FORMER MGP STRUCTURES
- AREAS WHERE SOIL CONCENTRATIONS EXCEED 10 mg/kg TOTAL VOCs AT DEPTHS <20 FT
- AREAS WHERE SOIL CONCENTRATIONS EXCEED 10 mg/kg TOTAL VOCs AT DEPTHS >20 FT
- (NAPL) NONAQUEOUS PHASE LIQUIDS
- 11-12' / 0.011 — SAMPLE DEPTH IN FEET / TOTAL BTEX CONCENTRATION IN SOIL (mg/kg)
- ND NOT DETECTED
- * FROM FINGERPRINT RESULTS
- 276.64 SAMPLES WITH TOTAL BTEX CONCENTRATIONS > 10 mg/kg

60 30 0 60 120

SCALE: 1"=60'

ORIGINAL BASE MAP INFORMATION DERIVED FROM STRATUS SERVICES GROUP, ENGINEERING DIVISION, INC., CRANBURY, NEW JERSEY.

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WHITE PLAINS FORMER MGP SITE
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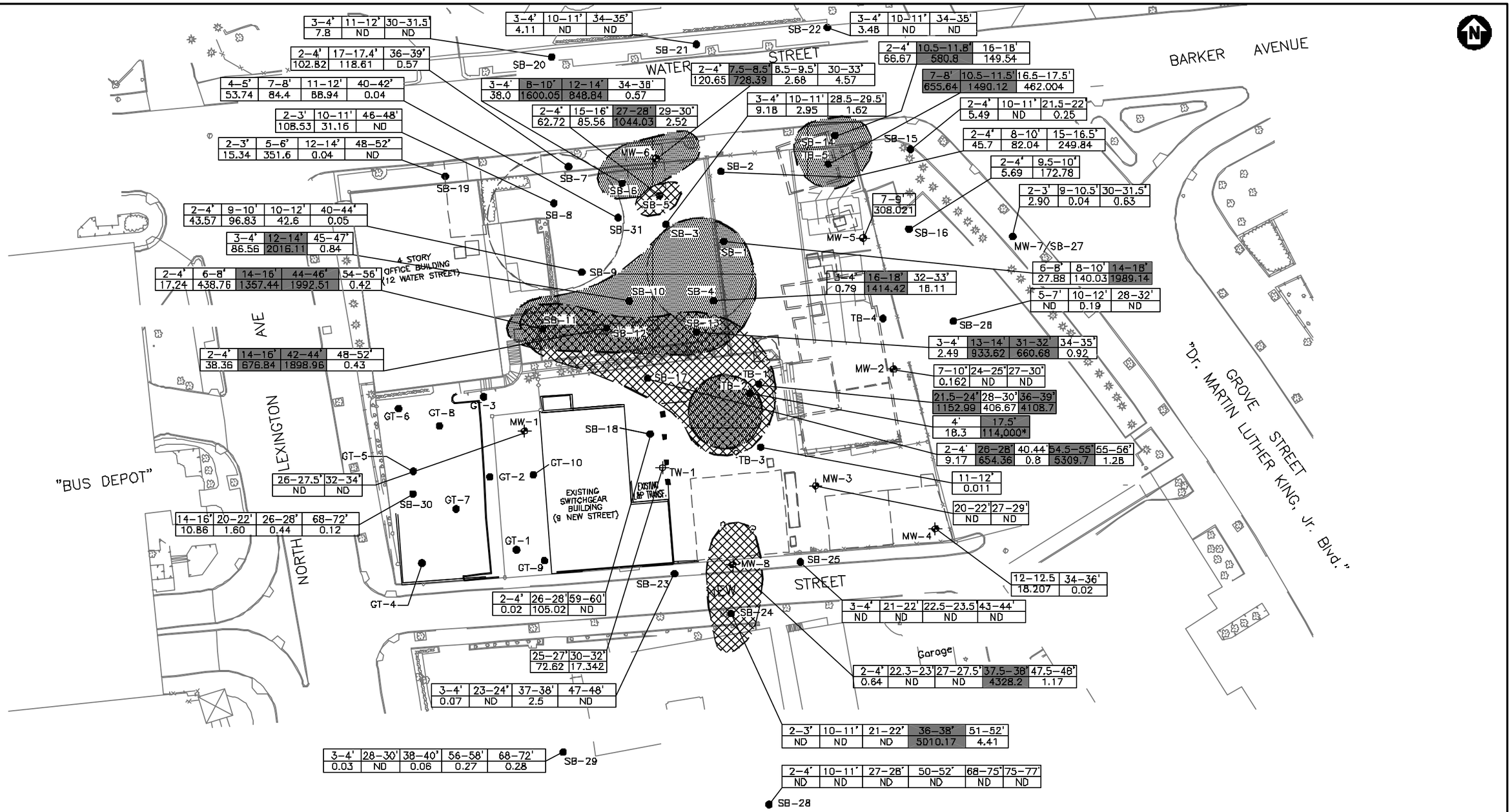
DISTRIBUTION OF TOTAL BTEX CONCENTRATIONS IN SOIL

FIGURE NO. 4-2




## Legend

- SB-1 ● SOIL BORING
- TB-1 ● TEST BORING
- GT-1 ● GEOTECHNICAL BORING (CONDUCTED IN 1999)
- MW-3 ⊕ MONITORING WELL
- TW-1 ⊕ TEMPORARY WELL
- ■ DRY WELL
- FORMER MGP STRUCTURES
- (NAPL) NONAQUEOUS PHASE LIQUIDS
- AREAS WHERE SOIL CONCENTRATIONS EXCEED 500 mg/kg TOTAL PAHs AT DEPTHS <20 FT
- AREAS WHERE SOIL CONCENTRATIONS EXCEED 500 mg/kg TOTAL PAHs AT DEPTHS >20 FT

| | |
|---|---|
| 11-12' / 0.011 | SAMPLE DEPTH IN FEET / TOTAL PAH CONCENTRATION IN SOIL (mg/kg) |
| ND | NOT DETECTED |
| * | FROM FINGERPRINT RESULTS |
| 678.84 | SAMPLES WITH TOTAL PAH CONCENTRATIONS >500 mg/kg |

60 30 0 60 120

SCALE: 1"=60'

ORIGINAL BASE MAP INFORMATION DERIVED FROM STRATUS SERVICES GROUP, ENGINEERING DIVISION, INC., CRANBURY, NEW JERSEY.

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ENGINEERS IN PRINCIPAL CITIES
290 ELWOOD DAVIS ROAD, SUITE 312
LIVERPOOL, N.Y. 13088
PHONE: (315) 451-9560
FAX: (315) 451-9570

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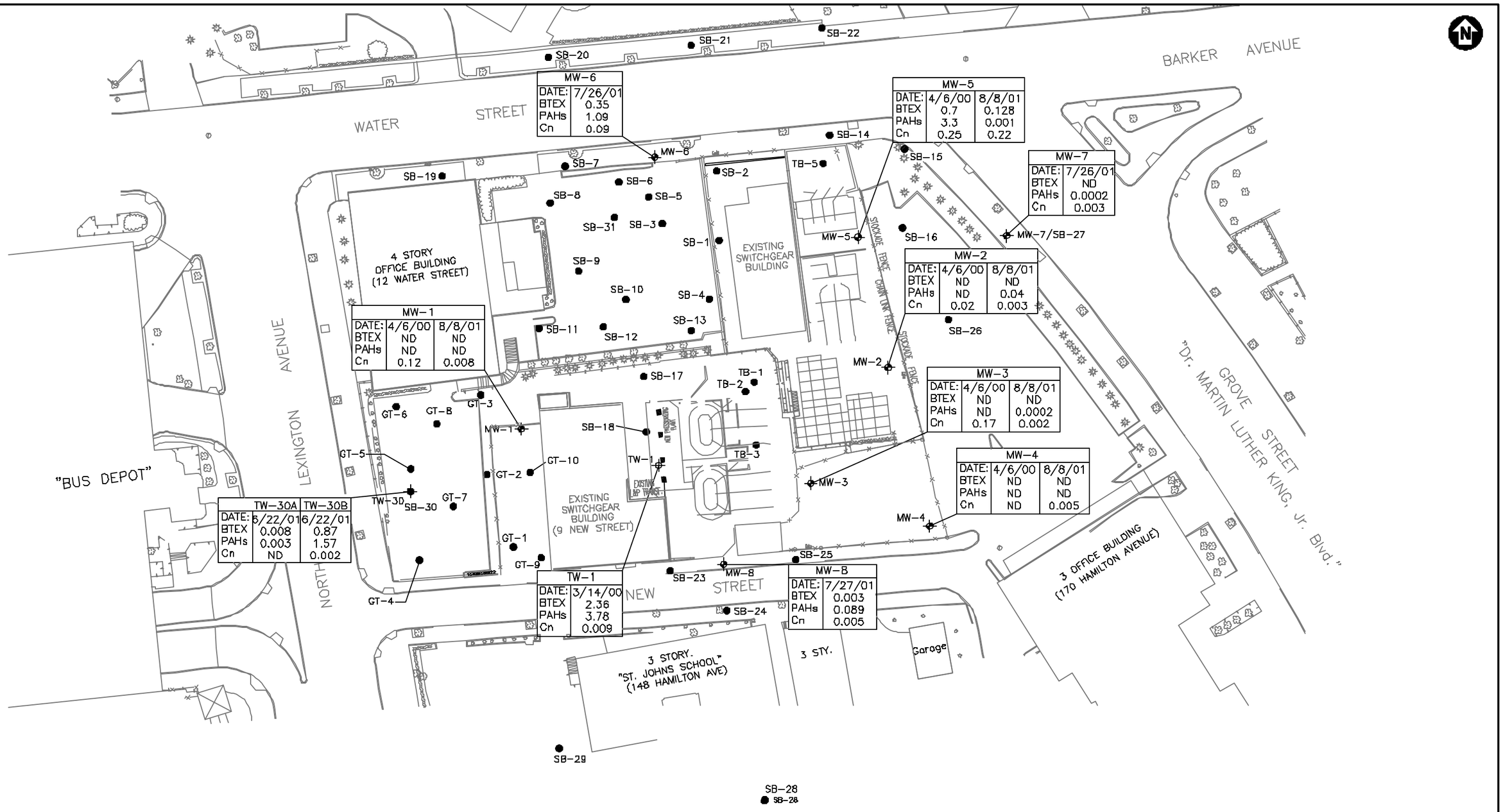
DISTRIBUTION OF TOTAL PAH CONCENTRATIONS IN SOIL

FIGURE NO. 4-3




| MW-6 | |
|---|---|
| DATE: | 7/26/01 |
| BTEX | 0.35 |
| PAHs | 1.09 |
| Cn | 0.09 |

| MW-5 | | |
|---|---|---|
| DATE: | 4/6/00 | 8/8/01 |
| BTEX | 0.7 | 0.128 |
| PAHs | 3.3 | 0.001 |
| Cn | 0.25 | 0.22 |

| MW-7 | |
|---|---|
| DATE: | 7/26/01 |
| BTEX | ND |
| PAHs | 0.0002 |
| Cn | 0.003 |

| MW-2 | | |
|---|---|---|
| DATE: | 4/6/00 | 8/8/01 |
| BTEX | ND | ND |
| PAHs | ND | 0.04 |
| Cn | 0.02 | 0.003 |

| MW-1 | | |
|---|---|---|
| DATE: | 4/6/00 | 8/8/01 |
| BTEX | ND | ND |
| PAHs | ND | ND |
| Cn | 0.12 | 0.008 |

| MW-3 | | |
|---|---|---|
| DATE: | 4/6/00 | 8/8/01 |
| BTEX | ND | ND |
| PAHs | ND | 0.0002 |
| Cn | 0.17 | 0.002 |

| MW-4 | | |
|---|---|---|
| DATE: | 4/6/00 | 8/8/01 |
| BTEX | ND | ND |
| PAHs | ND | ND |
| Cn | ND | 0.005 |

| TW-30A | TW-30B | |
|---|---|---|
| DATE: | 6/22/01 | 6/22/01 |
| BTEX | 0.008 | 0.87 |
| PAHs | 0.003 | 1.57 |
| Cn | ND | 0.002 |

| TW-1 | |
|---|---|
| DATE: | 3/14/00 |
| BTEX | 2.36 |
| PAHs | 3.78 |
| Cn | 0.009 |

| MW-8 | |
|---|---|
| DATE: | 7/27/01 |
| BTEX | 0.003 |
| PAHs | 0.089 |
| Cn | 0.005 |

## Legend

- SB-1 ● SOIL BORING
- TB-1 ● TEST BORING
- GT-1 ● GEOTECHNICAL BORING (CONDUCTED IN 1999)
- MW-3 ⊕ MONITORING WELL
- TW-1 ⊕ TEMPORARY WELL
- ■ DRY WELL
- FORMER MGP STRUCTURES

| MW-6 | |
|---|---|
| DATE: | 7/26/01 |
| BTEX | 0.35 |
| PAHs | 1.09 |
| Cn | 0.09 |

DATE SAMPLED
TOTAL BTEX CONCENTRATION IN mg/L
TOTAL PAH CONCENTRATION IN mg/L
TOTAL Cn CONCENTRATION IN mg/L

ND NOT DETECTED

60 30 0 60 120

SCALE: 1"=60'

ORIGINAL BASE MAP INFORMATION DERIVED FROM STRATUS SERVICES GROUP, ENGINEERING DIVISION, INC., CRANBURY, NEW JERSEY.

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PARSONS
ENGINEERS IN PRINCIPAL CITIES
290 ELWOOD DAVIS ROAD, SUITE 312
LIVERPOOL, N.Y. 13088
PHONE: (315) 451-9560
FAX (315) 451-9570

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WHITE PLAINS FORMER MGP SITE
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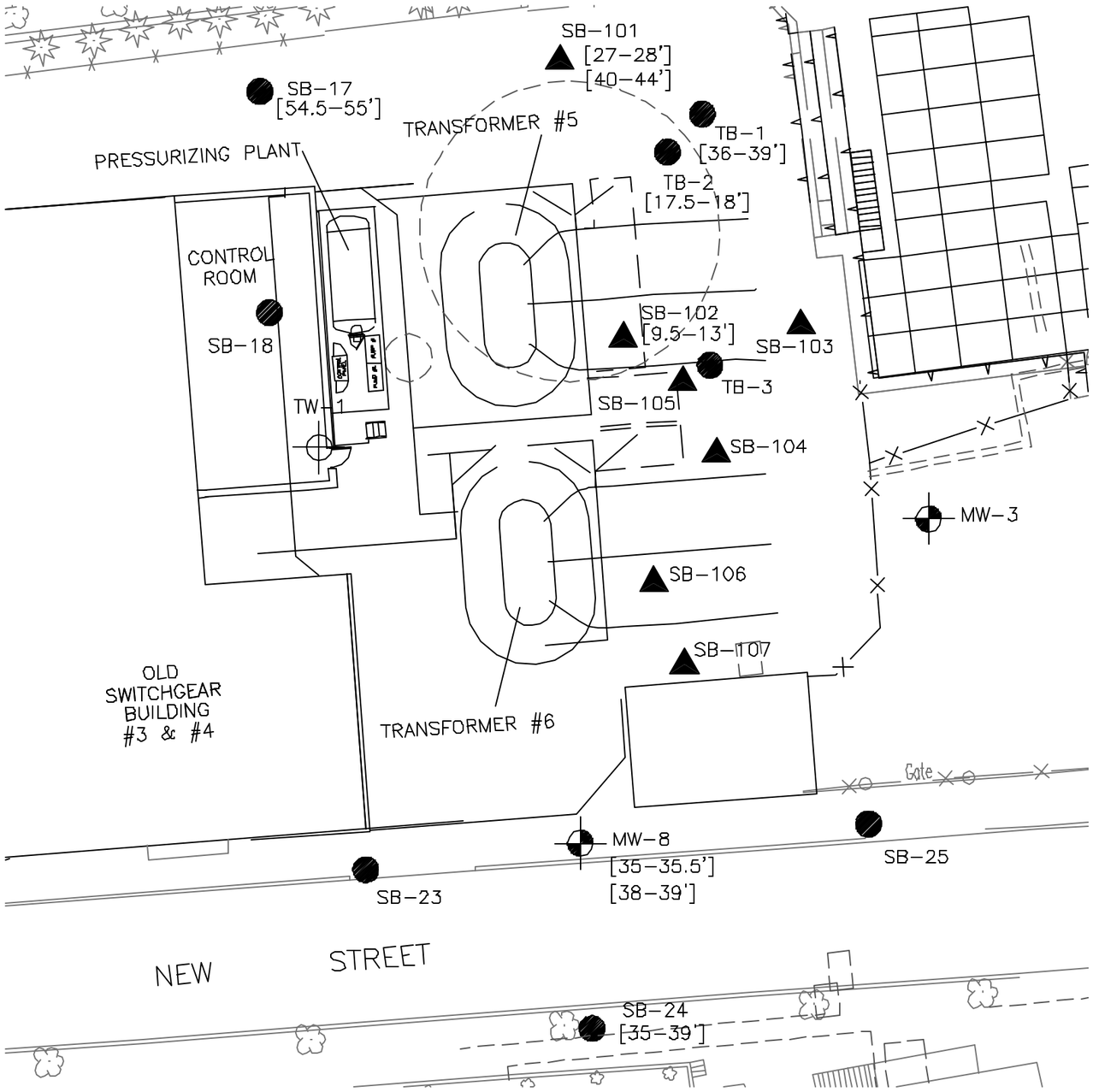
TOTAL BTEX, PAH AND CYANIDE CONCENTRATIONS IN GROUNDWATER

FIGURE NO.
4-4




## Legend

- SB–1 ● SOIL BORING
- TB–1 ● TEST BORING
- FORMER MGP STRUCTURES
- MW–3 ⊕ MONITORING WELL
- TW–1 ⊕ TEMPORARY WELL
- ▲ NEW SOIL BORING (MAY 2003)
- [38–39'] DEPTH INTERVAL WITH VISIBLE NAPL

20 10 0 20 40

SCALE: 1"=20'

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PARSONS
ENGINEERS IN PRINCIPAL CITIES
290 ELWOOD DAVIS ROAD, SUITE 312
LIVERPOOL, N.Y. 13088
PHONE: (315) 451-9560
FAX: (315) 451-9570

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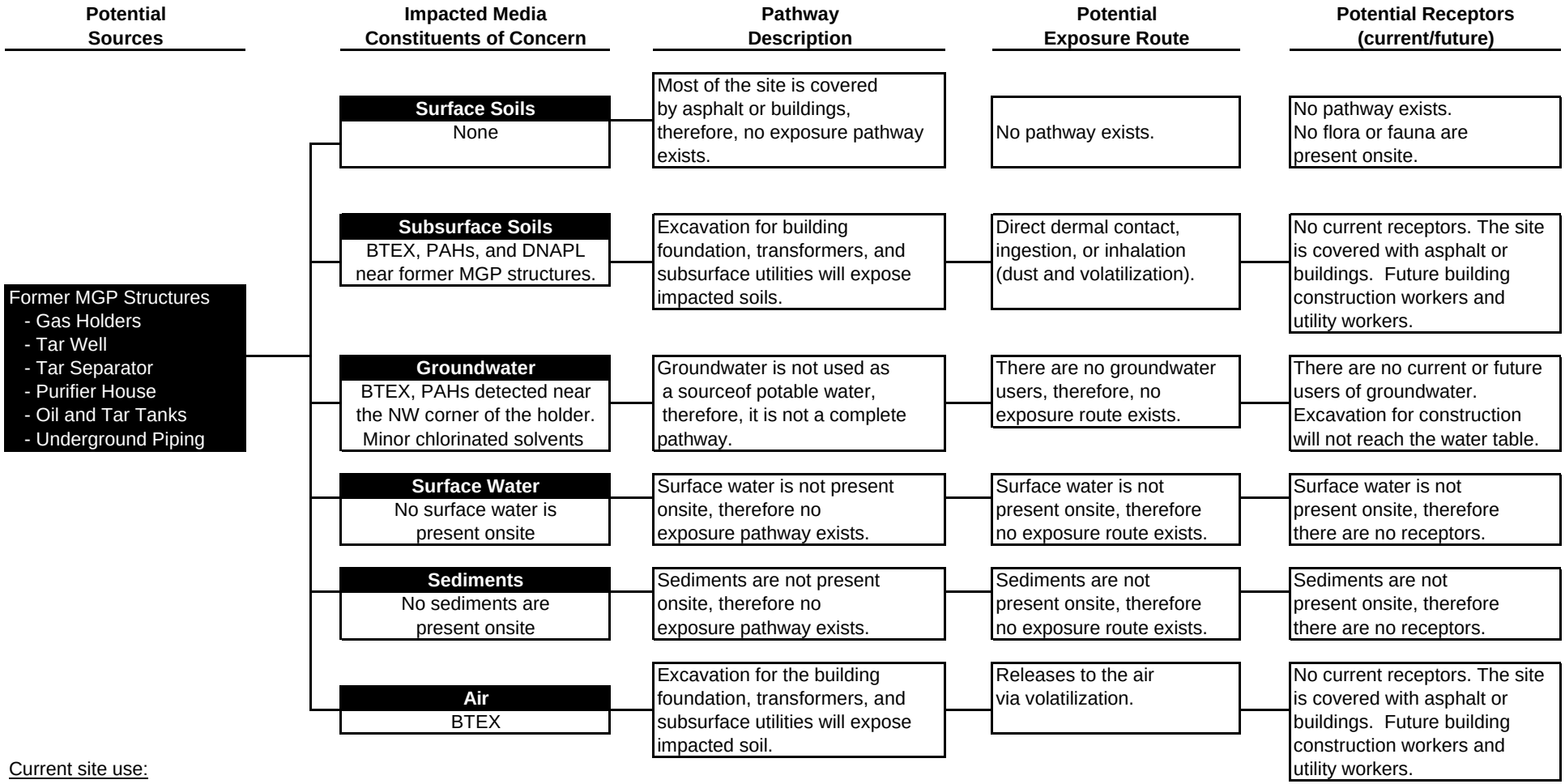
DISTRIBUTION OF VISIBLE NAPL IN VICINITY OF SOUTHERN GASHOLDER

FIGURE NO.
4–5

# SITE CONCEPTUAL MODEL




Current site use:
- Substation

Future site use:
- Substation

FIGURE 4-6

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