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ADDITIONAL ASSESSMENT
PLAYGROUND SITE RESTORATION
HUBERT WHEELER STATE SCHOOL
5707 WILSON AVENUE
ST. LOUIS, MISSOURI
Project No. 05-523-93-0001(A)
Account Nos. 307-74536-1232
and 307-72876-0992

Prepared for:

STATE OF MISSOURI
DIVISION OF DESIGN AND CONSTRUCTION
Jefferson City, Missouri

Prepared by:

GEOTECHNOLOGY, INC.
St. Louis, Missouri

September 7, 1995

2498.03.4120.07

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GEOTECHNOLOGY, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES
SAINT LOUIS • KANSAS CITY • INDIANAPOLIS

September 7, 1995 2498.03.4120.07

Mr. Lonnie Thompson, P.E.
Division of Design and Construction
State of Missouri - Office of Administration
P.O. Box 809
Jefferson City, Missouri 65102

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HUBERT WHEELER STATE SCHOOL
ST. LOUIS, MISSOURI

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Dear Mr. Thompson:

Presented in this report are the results of the Additional Assessment conducted for the above-referenced site. The assessment was conducted in general accordance with Geotechnology, Inc. proposals P4892.00.4120 (Revised) dated October 26, 1994, and P5152.00.5120 dated March 29, 1995.

We appreciate the opportunity to be of service to you. If you have any questions, please do not hesitate to contact Mr. Sam Brenneke or me.

Yours very truly,

GEOTECHNOLOGY, INC.

Ed D. Alizadeh, P.E.
Principal

DAD/SLB/EDA:slb/tlp

Copies submitted: (3)

cc: Mr. Ronald Littich, Director of Facilities (1)
Missouri Department of Secondary and Elementary Education

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ADDITIONAL ASSESSMENT
PLAYGROUND SITE RESTORATION
HUBERT WHEELER STATE SCHOOL
5707 WILSON AVENUE
ST. LOUIS, MISSOURI

1.0 INTRODUCTION

1.1 Site Description The Hubert Wheeler State School is located at 5707 Wilson Avenue in St. Louis, Missouri, as shown on Plate 1. The site is located on the north side of Wilson Road just south of Interstate 44, in a mixed commercial and residential area. The Deaconess Hospital Executives Examination Facility is located to the west of the site. Residential areas are located east and south of the site.

During recent years, a black material resembling coal tar has occasionally been observed exuding from the ground surface in the courtyard/playground area located in the northwest portion of the site. Asphalt was paved over the area to attempt to minimize the potential problems associated with the tar-like material. However, the material continues to migrate through the asphalt at several locations. In addition, several years ago school maintenance personnel installed a concrete walkway from the asphalt pavement to the school. During excavation for the walkway, the black material was reportedly "flowing" at a depth of approximately 3 feet. At least one drum was reportedly discovered during the excavation.

A review of historical documents was conducted and included a review of 50-year chain-of-title (property ownership), historical building and occupancy permits, and available aerial photographs taken in 1960, 1964, and 1969.

Information obtained from the historical documents revealed that between 1907 and 1959 the site and surrounding area was controlled by a succession of property owners including Laclede Fire Brick Manufacturing Company, Laclede-Christy Company, and the H. K. Porter Company. The property was sold to Ann S. Dattilo in 1959 who leased the property to H. K. Porter Company and Jablonlow-Kom Theaters until the property was sold in 1966 to a consortium of investors for the Hampton Industrial Park. Building and occupancy permits indicate that between 1950 and 1967 office and warehouse facilities were constructed by St. Louis Coke and Foundry Supply and by M. W. Warren Coke Company. In addition, a warehouse facility constructed in 1960 for the St. Louis Coke and Foundry Supply was apparently used for the storage of V.M.P. Naptha.

Review of the 1960 and 1964 aerial photographs indicated that the site was vacant with apparent landfilling operations occurring north and west of the site. Buildings and structures likely associated with the foundry and coke companies were located north of the site. By 1969 the site appeared abandoned; buildings previously located north of the site had been demolished and the landfilling operations appeared to have ceased.

The State of Missouri purchased the property in 1968 and subsequently built Hubert Wheeler State School.

1.2 Previous Site Investigations. A subsurface assessment was conducted within the courtyard area of the Hubert Wheeler State School during August 1993. The Subsurface Assessment[1] included the completion of 10 soil borings to a depth of 10 feet, collecting continuous soil samples from each boring, screening the soil samples in the field for the presence of volatile organics, and submitting one sample from each boring for quantitative analysis of priority pollutant metals, volatile organics, semi-volatile organics, pesticides, PCB's, total cyanide, and total phenol. In addition to the priority pollutant analyses, the soil sample which exhibited the highest level of total lead was analyzed for TCLP lead, and two soil samples obtained from borings placed in the apparent coal tar seeps were screened for the presence of dioxin.

Information obtained from the soil borings within the courtyard/playground area of the site generally indicated a soil stratigraphy of 6 to 8 feet of rubble fill consisting of brown and green silty clays with brick, gravel, sand, and cinders over a stratum of medium stiff to stiff, brown or brown and gray, mottled silty clay which extended to the depth explored. Significant subsurface deposits of tar-like material were not encountered in the borings, although visual evidence of discolored soils and soil staining were observed in the samples obtained from the borings. Groundwater was not encountered to the depths explored.

The analytical results for the soil samples collected from the borings indicated semi-volatile organic contamination typical of residual coal tar contamination. In addition, elevated levels of total lead were detected in near surface soils collected from three of the borings. The remaining parameters tested were either not detected or detected at low levels. The concentrations of lead and of several semi-volatile organics detected at the site exceeded the Missouri Department of Health "Any Use Soil Levels". The location of the borings which exhibited the highest levels of semi-volatile organic contamination, indicated that additional sources of coal tar like wastes may be present at the site and/or the soil contamination detected at the site may have been from the placement of contaminated fill material. In either case, the extent of coal tar and/or lead contamination was not defined by the assessment.

Based on the information obtained from the subsurface assessment, the Missouri Department of Natural Resources (MDNR) and the Missouri Department of Health (MDOH), recommended that access to the site be limited to personnel directly involved in assessment and

[1] "Subsurface Assessment, Playground Site Restoration, Hubert Wheeler State School, 5707 Wilson Avenue, St. Louis, Missouri, Project No. 05-523-93-0001(A), Account Nos. 307-74536-1232 and 307-72876-0992"; Prepared for State of Missouri, Division of Design and Construction, by Geotechnology, Inc., Report Number 2498.01.3120.01, Dated November 30, 1993.

remediation activities, pending additional studies designed to determine the level of surface soil contamination at the site. The MDOH provided a listing of Contaminants identified at the site which had exceeded MDOH's "Any Use Soil Levels" (ASL's), which are defined as the maximum concentration of chemicals that are acceptable in the soil in a residential setting. Following is a listing of the contaminants which were detected during the initial assessment activities and exceed MDOH ASL's, the maximum concentration detected at the site, and the ASL for each.

CONTAMINANTS ABOVE MDOH ANY USE SOIL LEVELS

Chemical	Highest Level Detected (ppm)	MDOH Any Use Soil Level (ASL) (ppm)
Lead	338.0	240.0
Benzo(a)Anthracene	45.0	0.44
Chrysene	54.0	0.44
Benzo(b)Fluoranthene	62.0	0.44
Benzo(k)Fluoranthene	29.0	0.44
Benzo(a)Pyrene	41.0	0.44
Dibenzo(a,h,)Anthracene	6.0	0.44

Based on the information obtained from the Subsurface Assessment activities discussed above, the State of Missouri, Office of Administration, Division of Design and Construction, requested additional assessment activities to attempt to identify suspect drum burial areas and/or sources of suspected coal tar contamination. Geotechnology, Inc., in conjunction with the Division of Design and Construction, identified a scope of services which included three different, complimentary geophysical technologies designed to assist in identifying surface temperature differentials and magnetic anomalies indicative of buried metal, drums, and/or sources of suspected coal tar. These technologies included a magnetic gradient survey, infrared thermography, and ground penetrating radar. In addition, surface soil sampling was requested to determine if the contaminants previously detected in subsurface soils, were present in surface soils at levels which exceeded the MDOH ASL's, for residential areas. Surface soil sampling activities were coordinated with the MDNR Environmental Services Program to facilitate splitting of samples collected by Geotechnology, Inc.

In addition to their recommendation to restrict access to the site, the MDNR, Hazardous Waste Program, in a letter dated March 18, 1994, announced their intention to evaluate the Hubert Wheeler State School site under the federal Preliminary Assessment/Site Inspection process.

On July 7, 1994, the MDNR, Environmental Services Program performed its Site Inspection Sampling[2]. The sampling activities included collecting five soil grab samples, one soil duplicate sample, and one grab sample of tar like material from the apparent coal tar seep. The soil samples ranged in depth from 0 to 2 feet and were collected adjacent to the asphalt courtyard, northwest of the asphalt courtyard, from a playground area on the east side of the building, and at the northeast corner of the gymnasium for the school. The samples were analyzed for total metals, volatile organics, and base neutral/acid extractable organics (semi-volatile organics). The analytical results indicate that base neutral extractable organics were detected in each of the samples collected. The detected concentrations of base neutral extractable organics, exceeded MDOH ASL's at four of the five soil sampling location which included the courtyard area, northwest of the courtyard area, and at the northeast corner of the Hubert Wheeler State School gymnasium. The levels detected in the playground area on the east side of the site, were below MDOH ASL's.

The analytical results for the surface soil samples collected as part of the second assessment at the site, indicate that semi-volatile organic contamination similar to coal tar, is present in each of the 10 sample locations surrounding the asphalt courtyard/playground area. In addition, the concentrations for several of the semi-volatile organic compounds detected in each of the samples exceeded the MDOH "Any Use Soil Levels" (ASL's) for residential areas. The total lead levels detected in the samples were below the MDOH ASL's at each sample location.

Geophysical surveys of the courtyard/playground area resulted in the identification of several anomalies which may be indicative of buried metal, subsurface voids, variations in the density of fill materials, drums, and/or contaminated soil plumes. The apparent sources of the anomalies range in depth from 3 to 6 feet below ground surface. A comparison of the data generated by the magnetic gradient and infrared thermographic surveys does not appear to indicate a correlation of the apparent subsurface anomalies.

The analytical results of the surface soil samples collected at the site indicates that surface soil contamination exceeding the MDOH ASL's is prevalent throughout the courtyard/playground area.

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[2] "Site Inspection Sampling Report, Hubert Wheeler State School Site, 5707 Wilson Avenue, St. Louis, Missouri, July 7, 1994"; Submitted by Mr. Brian J. Allen, Environmental Specialist, Superfund Unit, Environmental Service Program, Approved by, James H. Long, Director, Environmental Services Program, Dated August 23, 1994.

1.3 Project Description. Based on the information obtained from the previous assessment activities discussed above, the State of Missouri, Office of Administration, Division of Design and Construction, requested additional assessment activities to further characterize the type and extent of contaminants previously detected at the site and to make recommendations for future actions at the site. A detailed Scope of Services is presented in Geotechnology, Inc. proposals P4892.00.4120 (Revised) dated October 26, 1994, and P5152.00.5120 dated March 29, 1995.

Geotechnology, Inc., in conjunction with the Division of Design and Construction, prepared a scope of services which included two different, complimentary geophysical technologies designed to assist in identifying surface temperature differentials and magnetic anomalies indicative of buried metal, drums, and/or sources of suspected coal tar. These technologies included a magnetic gradient survey and infrared thermography. In addition, surface soil composite samples were collected from a 20-foot grid established over the unpaved portions of the project area surrounding Hubert Wheeler State School to determine if the contaminants previously detected in subsurface soils, were present in surface soils at other areas of the site.

Included with the scope of services was a subsurface assessment consisting of the completion of nine shallow soil borings to a depth of 20 feet, auger refusal, or 5 feet below the observed groundwater depth, whichever was less. Additionally, three deeper soil borings were to be completed to a depth of 60 feet, auger refusal, or 10 feet below the observed groundwater depth, whichever was less. Two-inch, PVC monitoring wells were installed in each of the deep soil borings. Groundwater samples were to be collected and submitted to an analytical laboratory for quantitative testing of semi-volatile organics, volatile organics, and total metals. Slug tests were to be performed for each monitoring well to establish the average hydraulic conductivity at the site.

In accordance with USEPA requirements, a Quality Assurance Project Plan (QAPP) was developed for the site prior to the start of field sampling activities. The Missouri Department of Natural Resources has determined that the site assessment project will be conducted in accordance with the Federal Preliminary Assessment/Site Inspection Process. The QAPP was prepared by Geotechnology, Inc. in general accordance with USEPA QAPP guidance documents and submitted to the MDNR for approval on February 3, 1995. MDNR approved the QAPP in their April 12, 1995 correspondence to Mr. Gary Anderson of the Missouri Office of Administrations, Division of Design and Construction. The QAPP details the organization, objectives, functional activities and specific Quality Assurance (QA) and Quality Control (QC) activities associated with the site assessment activities for the Hubert Wheeler State School site. This QAPP describes the specific protocols which were to be followed for sampling, sample handling and storage, chain of custody, laboratory and field analysis.

2.0 GEOPHYSICAL SITE SURVEY

2.1 Magnetic Gradient Survey. A magnetic gradient survey was conducted at the site on March 16 and 17, 1995. The purpose of the magnetic survey was to attempt to delineate buried metallic objects which may be potential drum burial sites.

The magnetic method is a passive geophysical technique where the existing magnetic field of the earth is measured. Metallic features locally affect the magnetic field and produce aberrations, or "anomalies", which are apparent when the measured field is plotted. The magnetic field varies with elevation. The rate of change of the magnetic field with elevation is called the magnetic gradient and is also greatly influenced by both surface and subsurface metallic features. The magnetic field is affected by most types of metal and does not differentiate between them. Therefore, metallic objects other than drums if present above or below ground may be indicated by the data.

For this survey, a GEM GSM-19 magnetometer/gradiometer was used. This instrument utilizes two proton-precession sensors which are mounted on top of a pole and are separated from each other by a distance of 56 centimeters. Both of the sensors are used for measuring the total magnetic field. The magnetic gradient between the sensors is automatically calculated for every reading. The instrument has a built-in data logger which records the total magnetic field of the bottom sensor and the magnetic gradient between the sensors.

A 20-foot grid was established over the site. Readings for the magnetic gradient were taken at 10-foot spacings over the site area around the building and plotted. The typical gradient response for a subsurface metallic feature is a high positive and associated low negative, with the probable location of the buried metal being between the two extreme values. A contour map of the magnetic data is presented on Plate 2. For clarity, the magnetic gradient contours are presented in color. The contour map depicts positive contours in red and negative contours in blue.

Surface metal features observed during the survey include a chain link fence in the courtyard/playground area and near the north boundary of the site, metal pipes in the courtyard/playground area, a metallic storm water grate located north of the courtyard and playground area, metal overhangs on the school building, light poles in the parking lot, playground equipment in the eastern part of the site, various small signs, and electric poles. The aboveground metallic features exhibit strong magnetic anomalies such that subsurface metallic objects at these locations, if present, would be masked.

Possible locations for buried sources of the magnetic anomalies are shown on Plate 2. The locations represent areas to begin exploration for subsurface features. The areas delineated do not represent the locations of all buried metallic objects; rather, they are locations of magnetic

anomalies which may not be related to metallic surface features and which are notable in size and magnitude. Due to the inexact positioning of subsurface features based on magnetic mapping, magnetic anomalies are best explored by completing test pits.

2.2 Infrared Thermography. An Infrared Thermographic (IR) survey was performed within the site boundaries in an attempt to provide additional information regarding potential subsurface sources of coal tar. The IR technology is used to map surface temperature differences caused by the differential absorption of solar energy by surface and subsurface materials. Differences in surface and subsurface materials create an abnormal surface temperature profile making IR a viable technology for identifying subsurface voids, drums, underground storage tanks, and/or contaminated soil plumes. The IR data only represent surface temperature differential and cannot be used to determine the type or depth of a subsurface feature creating the anomaly.

Geotechnology, Inc. subcontracted Electric Power Systems to perform the IR survey. The survey was performed between June 17 and June 30, 1995. The grid system previously established for the magnetic survey was utilized for locating IR anomalies. The Infrared Thermographic Report[3] documenting the IR activities, is attached as Appendix A. The approximate location and size of suspected subsurface anomalies identified in the report are shown on Plate 3.

3.0 DUST SAMPLING

3.1 Collection of Dust Samples. Dust sampling and analysis included three (3) samples collected upwind, downwind, and inside the school building on July 13 and 14, 1995. The samples were collected using high volume vacuum pumps calibrated at the start of sampling and monitored throughout the sampling period. Air/dust sampling activities were performed under the direction of Mr. Douglas N. Nimmo, a Certified Industrial Hygienist with Microscopic Analysis, Inc. Outdoor and indoor air/dust sample locations are shown on Plate 5. The specific outdoor sampling locations were determined just prior to sample collection based on wind direction.

The dust samples were submitted to Data Chem Laboratories of Cincinnati, Ohio, for quantitative analyses of PNA's by EPA Method TO-13 and total lead in accordance with NIOSH Method 7300. Samples for PNA's were collected on Supelco 65 mm x 75 mm Poly Urethane Filters (PUF) at sample flow rates between 25 and 32 standard cubic feet per minute (scfm).

[3] "Infrared Thermographic Survey of the Hubert Wheeler School, For Geotechnology, Inc., St. Louis, Missouri"; Performed by: Electric Power Systems, St. Louis, Missouri.

Total lead samples were collected on matched weight 37 mm PVC filters at approximate flow rates of 20 liters per minute.

3.2 Dust Sample Analytical Results. The analytical results indicated airborne PNA concentrations in the upwind, downwind, and indoor air samples were reportedly 0.414 $\mu g/m^3$, 0.176 $\mu g/m^3$, and 0.098 $\mu g/m^3$, respectively. Total airborne lead concentrations in the upwind, downwind, and indoor air samples were reportedly 0.0217 $\mu g/m^3$, 0.0215 $\mu g/m^3$, and 0.0108 $\mu g/m^3$, respectively. A copy of the air monitoring report[4] is attached as Appendix B.

4.0 SURFACE SOIL SAMPLING

4.1 Soil Sampling Program. Surface soil sampling activities were performed at the site between May 22 and 25, 1995. Prior to performing the surface soil sampling activities, a 20-foot by 20-foot grid was surveyed over the site. The grid was used to subdivide unpaved portions of the site into 40 distinct areas of approximately 2,000 square feet each, as shown on Plate 4. Unpaved portions of the site, adjacent to the asphalted courtyard/playground area, were sampled during previous assessment activities and were not included as a part this surface soil sampling event.

One composite soil sample was collected from each of the 40 individual sample locations. Each composite sample consisted of 5 aliquots of soil removed from a depth of 0 to 6 inches within the sample location. The top layer of surface vegetation including grass, weeds, and roots, was removed prior to collecting each individual aliquot. The soil sample aliquots were collected using a stainless steel bucket auger to remove equal portions of soil, and to place it into a stainless steel pan with other aliquots from the same sample location. The aliquots were homogenized and transferred to the appropriate sample containers using a stainless steel spoon. The samples were labeled and placed on ice to aid in preservation prior to shipment.

Soil sampling equipment was decontaminated after collection of each composite sample using an Alconox wash solution, a potable water rinse, a 10% nitric acid rinse, a deionized distilled water rinse, a methanol rinse, a hexane rinse, and a final rinse with deionized distilled water. Sterile latex and/or nitrile gloves were donned before collecting each soil sample. Decontamination water generated during decontamination of surface soil sampling equipment was collected, containerized and temporarily stored on-site pending permitting and disposal.

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[4] "Report of Environmental Monitoring At The Hubert Wheeler State School For The Severely Handicapped, 5715 Wilson Avenue, St. Louis, Missouri, July.13, and 14, 1995"; Prepared for Geotechnology, Inc., St. Louis, Missouri; by Microscopic Analysis, Inc., Maryland Heights, Missouri.

The containerized surface soil samples were submitted to Environmetrics, Inc. in Maryland Heights, Missouri for laboratory analysis of semi-volatile organic compounds by USEPA Method 8270 and total lead by USEPA Method 6010.

4.2 Analytical Results. The laboratory analytical results for the surface soil samples collected at the site, indicate that semi-volatile organic contamination similar to coal tar, was detected at 36 of the 40 surface soil sample locations. Concentrations of semi-volatile organic compounds detected exceed the MDOH "Any Use Soil Levels" (ASL's) for residential areas at 33 of the 40 sample locations. Total lead concentrations detected in the surface soil samples were below the MDOH ASL's for all surface soil samples except the sample collected at location SS-37, where a total lead concentration of 1,620 parts per million (ppm) was detected. Site sections which exhibited semi-volatile organic and/or total lead concentrations above the MDOH ASL's are shown on Plate 4.

Analytical testing results for the surface soil samples are summarized in Table 1. The analytical results sheets are presented in Appendix C.

5.0 SUBSURFACE ASSESSMENT

5.1 Drilling Summary. Drilling activities were conducted between July 7 and 13, 1995. The borings were drilled using a CME 550 drill rig and 3-3/4 or 4-1/4 inch I.D. hollow stem augers. Continuous soil samples were collected with a split-spoon continuous sampler. The drilling and sampling activities were observed by an engineer from Geotechnology. The engineer obtained samples for analytical testing and prepared descriptive logs of the borings.

A high-pressure steam cleaner was utilized to decontaminate the hollow stem augers prior to and after drilling each borehole. Soil sampling equipment was decontaminated after collection of each sample using an Alconox wash solution, a potable water rinse, a 10% nitric acid rinse, a deionized distilled water rinse, a methanol rinse, a hexane rinse, and a final rinse with deionized distilled water. Decontamination water generated during decontamination of drilling and subsurface soil sampling equipment was collected, containerized and temporarily stored on-site pending waste characterization and disposal permitting.

A total of twelve borings were completed at the site, as shown on Plate 5. Nine of the borings (B-1 through B-9) were completed as shallow borings and terminated at a depth of 20 feet, while three borings (MW-1 through MW-3) were terminated at depths ranging from approximately 30 to 50 feet. The three deep borings were subsequently completed as groundwater monitoring wells. Soil cuttings generated from completion of the soil borings were placed in 55-gallon drums and subsequently disposed as special waste at the Browning Ferris Industries Modern Landfill located in Belleville, Illinois. Copies of the BFI waste profile, disposal authorization, and waste manifest are included in Appendix D.

Each soil boring not used for placement of a monitoring well was grouted to the surface using tremie pipe; the grout was a cement-bentonite mixture consisting of 2 to 6 percent bentonite by weight of cement content. A MDNR Registration Record form was completed and submitted to the MDNR Division of Geology and Land Survey (DGLS) in Rolla, Missouri. A copy of MDNR Registration No. 131687 is included with the boring logs, attached as Appendix E.

5.2 Field Screening and Soil Sampling Program. The soil samples were observed for visual staining and were field-screened at approximately one-foot intervals, for the presence of volatile organics using a Photovac Microtip photoionization detector (PID). The PID was calibrated to an isobutylene standard of 100 parts per million (ppm) at the beginning of each day. The one-foot soil interval from the following depths which exhibited the highest PID reading or which exhibited visual discoloration or apparent contamination were submitted for subsequent laboratory analysis:

Shallow borings: 0-5, 5-10, 10-15, and 15-20 feet
Deep borings: 0-5, 5-10, 10-15, 15-20, 20-30, 30-40, and 40-50 feet

If PID readings were non-detect and visual discoloration or apparent contamination was not observed, then the bottom 1-foot interval of the specified 5-foot or 10-foot depth interval was sampled. The PID readings are summarized on the boring logs presented in Appendix E.

Each of the subsurface soil samples retained from the borings were submitted to Environmetrics, Inc. of Maryland Heights, Missouri for quantitative analyses of semi-volatile organics by USEPA Method 8270 and total metals (including lead, arsenic, cadmium, chromium, selenium, barium, mercury, and silver) by USEPA Methods 6010 or 7471. In addition, one soil sample obtained from each boring was submitted for quantitative analysis of volatile organics by USEPA Method 8240. Samples submitted for volatile organics analyses were selected based on PID readings, visual indications of contamination, and/or consideration of depths at which contamination was encountered in other borings. Following receipt of analytical results, ten soil samples were selected for analysis of TCLP Metals by EPA Methods 1311/6010 and 1311/7470. The samples were selected based on total metals concentrations which were in excess of 20 times the TCLP regulatory limit with a maximum of one sample per boring selected for TCLP analysis.

Sterile latex and nitrile gloves were donned before collecting each soil sample. Soil samples for volatile organics analysis were containerized prior to homogenization of the 1-foot interval of soil. After collection of the volatile organics sample, the 1-foot soil interval was removed from the continuous sampler and placed into a stainless steel bowl for subsequent homogenization. The samples were transferred to the appropriate sample containers, labeled, and placed in a cooler on ice, to aid in preservation of the samples prior to shipment.

5.3 Monitoring Well Installation. Monitoring Wells MW-1, -2 and -3 were installed at the site to depths of 29.9, 50.1, and 40.5 feet, respectively. The approximate locations of the monitoring wells are depicted on Plate 5. The monitoring wells were constructed of 2-inch Schedule 40, flush-threaded, polyvinylchloride (PVC) well screen and casing. A 10-foot length of factory cut 0.010-inch (10-slot) screen was used for each monitoring well.

PVC monitoring well materials were installed inside the hollow stem augers. A filter pack consisting of silica sand was placed from the base of the screen to approximately 2 feet above the top of the screen. A 2-foot thick bentonite pellet seal, hydrated in one foot lifts, was placed above the sand pack. The silica sand and bentonite pellets were added through the augers as the augers were incrementally withdrawn from the borehole. A weighted tape measure was used to verify the placement of the filter pack and that a minimum 2-foot seal had been emplaced. A cement-bentonite grout consisting of 2 to 6 percent bentonite by weight of cement content was placed with a tremie pipe on top of the bentonite seal to the surface. A concrete surface seal was used to cement the steel flush-mount protective well cover into place and to bring the borehole annulus up to just below the top of the riser casing. The well was sealed with a water-tight locking cap to prevent surface runoff infiltration.

The elevation of the top of riser casing for each monitoring well and the adjacent land surface was surveyed on July 14, 1995. The elevations were recorded relative to an arbitrary datum established on a site structure. Monitoring well installation and groundwater elevation data are summarized in Table 4. Well construction logs are presented in Appendix E. Appendix E also includes copies of Monitoring Well Certification Record Nos. 122986, 122987, and 122989, filed under separate cover with the MDNR Division of Geology and Land Survey in Rolla, Missouri.

5.4 Monitoring Well Development and Sampling. The monitoring wells were developed following construction to allow proper settlement of the filter pack, to increase well yield, and to reduce the turbidity of water obtained during subsequent groundwater sampling. Development was accomplished on July 14, 1995 by mechanical surging and purging with a disposable bailer. Prior to removing any water, the water level in each well was measured with a tape indicator, and recorded to the nearest 0.01-foot from the top of casing (TOC). Well development was monitored by testing for temperature, pH, and conductivity. Development continued until 2 consecutive readings of temperature and conductivity stabilized within 10% and the recorded pH measurements were within 0.5 units after removing a minimum of 3 well volumes. The groundwater field data collected during the monitoring well development is presented in Table 5.

Prior to sampling, well purging was accomplished until a minimum of three well volumes had been removed. Disposable bailers were used for purging and sampling of each well. Purging and sampling was conducted by slowly lowering and raising the bailer into and out of

the well to attempt to avoid excessive agitation of groundwater. Water generated during well development and purging was placed in 55-gallon drums, temporarily stored on-site pending permitting with the Metropolitan St. Louis Sewer District. The water was subsequently transported to the MSD Bissel Point Sewage Treatment Plant for disposal on September 1, 1995. Copies of the special discharge permit application, the MSD Special Discharge Permit, and disposal receipts are included in Appendix D.

Groundwater samples were collected from each of the three monitoring wells within 24 hours of purging. The samples were submitted to Environmetrics, Inc. for laboratory analysis of semi-volatile organics by USEPA Method 8270, volatile organics by USEPA Method 8240, and total metals by USEPA Methods 6010 and 7470. The samples were collected in order of analysis beginning with volatile organics, followed by semi-volatile organics, and metals. Samples for volatile organics analysis were placed in containers with zero headspace to prevent volatilization. Unfiltered samples were collected for metals analyses. After collection, the samples were placed in a cooler with ice to aid in preservation of the samples prior to shipment.

5.5 Slug Testing. To determine in-situ hydraulic conductivity, slug testing was conducted on Monitoring Wells MW-1, -2, and -3. In general, the slug tests were conducted using the following procedures:

- Equipment placed in the well was decontaminated with an alconox wash solution, followed by a potable water rinse.
- Groundwater levels were recorded to the nearest 0.01 feet with an electronic indicator tape.
- A PVC bailer attached to a nylon cord was utilized to remove a slug of water from the well.
- The rate of groundwater recovery in the well was monitored with an In-Situ 1000B Hermit data logger.

Data collected from each slug test were downloaded to a personal computer and analyzed using the Bouwer-Rice Method. The slug test analyses were conducted using the computer program AQTESOLV, compiled and distributed by Geraghty and Miller. Data are shown graphically in Appendix F, as time-recovery measurements, with computed hydraulic conductivity and well configuration parameters for each test. Sample calculations of hydraulic conductivity are included.

6.0 SUBSURFACE ASSESSMENT RESULTS

6.1 Site Stratigraphy and Hydrogeology. The shallow subsurface materials encountered at the site are comprised mainly of fill consisting of brown to gray, clay to silty clay with some brick, gravel, and rock. The fill material exhibited a variable moisture content ranging from dry to wet in places. Thin, isolated wet zones were observed within the fill but significant saturated

intervals were not evident. The depth to the base of the fill ranges from approximately 8.5 feet to 23 feet at the locations of SB1 and MW-1, respectively. The depth to the base of the fill was not identified in Soil Borings SB-2,-3, -4, -5, and -6 due to poor sample recovery.

A three-dimensional surface plot of the base of the fill is presented on Plate 6. At boring locations where the base of the fill was not determined because of poor recovery, the actual depths are probably greater. Generally, the fill is thicker in the north and northeast portions of the site.

Soils encountered below the fill included mainly soft to stiff, brown to gray, clays and silty clays. Soils present below the clays and silty clays included shaley clay and silty clay with thin, interbedded, layers of gravel. Bedrock was not observed during drilling. Boring logs and monitoring well diagrams are included in Appendix E. A hydrogeologic cross-section is shown on 7. Groundwater elevation data is presented in Table 6. A summary of the lithologies and saturated zones encountered during drilling of borings for the three monitoring wells follows:

Monitoring Well MW-1: Fill material was present to a depth of approximately 23 feet. The fill appeared to be partially saturated from approximately 20 to 23 feet. Below the fill, a saturated zone within a soft to medium stiff, brown to gray silty clay was observed from approximately 23 to 29 feet. Based on available groundwater elevation data this is an unconfined interval with the groundwater surface near the same depth at which saturated soils were first encountered. A stiff, unsaturated, brown silt with clay was present from approximately 29 to 30 feet.

Monitoring Well MW-2: Fill material was present to a depth of approximately 10 feet. Below the fill, soil types included silty clays, clays, and shaley clays. The soils were unsaturated to a depth of 42.5 feet. A saturated zone was observed from approximately 42.5 feet to 50.1 feet within a stiff, gray and mottled brown shaley clay. This saturated unit is unconfined based on drilling and water elevation data.

Monitoring Well MW-3: The approximate depth to the base of the fill was 10 feet. Beneath the fill, unsaturated, soft to medium stiff, brown and mottled gray silts and silty clays were observed to a depth of approximately 30 feet. A saturated, silty clay with thin layers of gravel was encountered at 30 feet and extended to approximately 40.5 feet. The potentiometric surface within the well is approximately 12 feet above the location of the saturated zone. This suggests that this saturated zone is a confined or semi-confined unit.

Several lithologically different saturated zones are present at different elevations. Based on available data, the site does not appear to contain a single uppermost saturated zone which extends throughout the property. Because the saturated intervals do not represent a continuous unit, it is not possible to determine hydraulic gradients to estimate the groundwater flow direction without additional monitoring wells.

Slug tests were conducted in each of the wells and results are presented in Appendix F. The slug test data indicates significant differences in hydraulic conductivity for each saturated zone. The data are summarized as follows:

Well Identification	Estimated Hydraulic Conductivity (cm/sec)
MW-1	1.2×10^{-5}
MW-2*	$> 1 \times 10^{-3}$
MW-3	2.0×10^{-4}

* Water level equilibrated very rapidly when slug removed. Data insufficient for analyses.

The data are consistent with each type of soil material tested. The different hydraulic conductivity and depth for each of the saturated intervals, supports the interpretation that each saturated zone is a separate unit. Therefore, interpretation of groundwater flow direction or velocity can not be made. Normally, hydraulic conductivity data can be used with conservative estimates of effective porosity and hydraulic gradient data to calculate an estimated average linear groundwater flow velocity within each of the saturated zones. Additional monitoring wells would be required to determine the extent of each water bearing zone and to establish hydraulic gradients.

In summary, the subsurface at the site is comprised of an upper layer of fill material of variable thickness underlain by mainly silty clay and clay with some shaley clay, and silty clay with gravel present at deeper depths. Groundwater was observed in three different soil types including silty clay, shaley clay and silty clay with gravel at different elevations. In our opinion, the saturated zones do not represent one laterally continuous unit but separate distinct saturated zones. Hydraulic connection between the saturated zones was not determined.

6.2 Subsurface Soil Analytical Results. Laboratory analysis of subsurface soil samples detected a wide range of metals concentrations and several semi-volatile organic (SVOA) compounds. Volatile organic compounds were generally not detected in the subsurface soil samples analyzed for volatile organics, except for the samples from SB-1, -6, and -9 where low levels of methylene chloride, acetone, and/or 2-butanone were detected.

Concentration ranges for the individual metals detected in the samples were non-detect to 26.1 parts per million (ppm) arsenic, 12.5 ppm to 521 ppm barium, non-detect to 6.17 ppm cadmium, 2.57 ppm to 48.5 ppm chromium, non-detect to 5,860 ppm lead, non-detect to 37 ppm

mercury, non-detect to 12.6 ppm selenium, and non-detect to 3.49 ppm mercury. The highest total metals concentrations were generally detected in soil samples obtained from fill materials. Metals concentrations detected in soil samples collected from native soils encountered at the base of the fill, were generally lower and could be background for the area. TCLP metals concentrations for the 10 soil samples with the highest total metals concentrations were below regulatory limits for TCLP metals and not characteristically hazardous in accordance with 40 CFR 261.24.

SVOA compounds, similar to coal tar contamination were detected at varying depths in each of the soil borings except Boring SB-8 where SVOA compounds were not detected. The highest total SVOA concentrations were detected in Borings SB-3 and SB-5 where total SVOA concentrations of 180 and 129.3 ppm were detected at depths of 15.5 and 17 feet, respectively.

Analytical testing results for the subsurface soil samples are summarized in Tables 2A and 2B. A site plan depicting total lead and total SVOA concentrations at various depths within each boring is attached as Plate 8. Analytical laboratory reports are presented in Appendix G.

6.3 Groundwater Analytical Results. Laboratory analyses of groundwater samples obtained from Monitoring Wells MW-1, -2, and -3 indicate that SVOA compounds were not detected in the samples. Total metals concentrations for individual metals detected in the groundwater samples ranged from non-detect to 244 parts per billion (ppb) lead, with the highest total metals concentrations detected in the groundwater sample collected from Monitoring Well MW-2. Volatile organic compounds were not detected in the groundwater samples collected from Monitoring Wells MW-1 and -2. However, acetone and 1,1-dichloroethane were detected in the groundwater sample collected from Monitoring Well MW-3 at concentrations of 11 and 6.3 ppb, respectively.

Analytical testing results for the groundwater samples are summarized in Table 3. Analytical laboratory reports are presented in Appendix H.

7.0 QUALITY ASSURANCE/QUALITY CONTROL

7.1 QA/QC Objectives. Equipment blank, trip blank, duplicate, matrix spike (MS), and matrix spike duplicate (MSD) samples were analyzed to assess the quality of the data resulting from the field sampling program. Equipment blank samples were analyzed to check for procedural contamination at the site, which may cause sample contamination. Trip blanks were used to assess contamination of samples during sample shipment and storage. Duplicate samples were analyzed to check for sampling and analytical reproducibility. Matrix spikes and matrix spike duplicates provide information about the effect of the sample matrix on the digestion and measurement methodology.

Equipment blank samples consisted of deionized water used to rinse sampling equipment following decontamination. The trip blanks consisted of deionized water samples prepared by the laboratory. Duplicate samples consisted of samples collected from the same general location as the original sample. The equipment blank, trip blank, and duplicate soil samples were submitted to the analytical laboratories to assess portions of the field sampling program.

7.2 Surface Soil Sampling QA/QC Data. Two equipment blanks and two duplicate samples were collected during surface sampling activities. The equipment blank samples were collected after the 10th and 32nd surface soil composite samples. The equipment blank and duplicate samples were analyzed for semi-volatile organic compounds and total lead. Duplicate samples indicated concentrations similar to the original surface samples. Equipment blanks were non-detect. Lab results for QA/QC samples are summarized in Table 1 and presented in Appendix B.

7.3 Subsurface Soil Sampling QA/QC Data. Two equipment blanks, two trip blanks, and two duplicate samples collected as split samples (replicates) were prepared during subsurface soil sampling activities. The equipment blank samples were collected following the 18th soil sample in the shallow borings and 9th sample in the deep borings. The duplicate and equipment blank samples were submitted for analysis of volatile organics, semi-volatile organics, and total metals. The trip blank samples were submitted for analysis of volatile organics only. Semi-volatile and total metals testing results for QA/QC samples are summarized in Tables 2A and 2B and presented in Appendix G.

Equipment blank samples analyzed for volatiles and semi-volatiles were non-detect except methylene chloride which exhibited concentrations of 0.120 and 0.730 mg/l in Equipment Blank samples SB5-8.5-EB and MW-2-15-EB, respectively. The methylene chloride detected in equipment blank samples appears to have resulted from laboratory contamination. Methylene chloride was not detected in subsurface soil samples which preceded the collection of the equipment blanks nor was it used as a part of the decontamination procedures. Metals, including barium, cadmium, and chromium, were detected in equipment blank samples at concentrations less than 0.13 mg/l.

Two trip blank samples were prepared on July 6, and 11, 1995 and were submitted for laboratory analysis of volatile organics. Laboratory analysis of the two trip blank samples indicated concentrations below the EQL for volatile organics.

Results of laboratory analyses indicate some differences in concentration between the duplicate/split sample and the original sample. An explanation for the concentration difference may include inadequate homogenization of the samples and matrix interferences. It should be noted that homogenization of clay-rich soils and fill materials may be incomplete due to the cohesiveness of the clay and the hardness of some items such as brick fragments. In addition, problems can be compounded in the lab because only a small portion of the sample is used for analysis.

7.4 Laboratory QA/QC Data. Summaries of the laboratory QA/AC data are included with the lab results in Appendices, B, G, and H. In general, the analytical data are within prescribed ranges for surrogate recoveries and matrix spike/matrix spike duplicate (MS/MSD) concentrations. In some cases, however, matrix interferences were observed and are explained in the laboratory QA/QC summaries.

8.0 CONCLUSIONS

The stratigraphy of the site observed during drilling indicates the presence of fill materials consisting of brown to gray, clay to silty clay with some brick, gravel, and rock. The depth to the base of the fill ranges from approximately 8.5 feet to 23 feet at the locations of SB1 and MW-1, respectively. The depth to the base of the fill was not identified in Soil Borings SB-2, -3, -4, -5, and -6. Thus, the depth of fill materials may extend to greater depths at these locations.

Magnetic and infrared thermographic surveys of the site identified several subsurface anomalies which may be indicative of buried metal, subsurface voids, variations in the density of fill materials, drums, and/or contaminated soil plumes. A comparison of the data generated by the magnetic gradient and infrared thermographic surveys, indicates several corresponding subsurface anomalies. Soil borings SB-2, -3, -7, -8, -9 and Monitoring Wells MW-1 and -2 were completed in the vicinity of magnetic and/or infrared anomalies. Significant buried metal or coal tar deposits were not observed during drilling. Areas containing magnetic and/or infrared anomalies may be explored by completing test pits.

The analytical results of surface and subsurface soil samples collected at the site indicate that semi-volatile organic (SVOA) contamination, similar to coal tar, is prevalent throughout the site. SVOA concentrations detected in surface and subsurface soils exceed MDOH ASL's at 33 of the 40 surface soil sampling locations and in 20 of the 51 subsurface soil samples collected. In addition, lead concentrations which exceed MDOH ASL's were detected at surface soil sample location SS-37, and in 7 of the 51 subsurface soil samples. However, based on the TCLP metals analysis completed on 10 subsurface soil samples exhibiting the highest total metal concentrations, soils present at the site would not be classified as characteristically hazardous waste in accordance with 40 CFR 261.24.

In our opinion, the distribution of the contaminated soils detected at the site appears to indicate random placement of contaminated fill materials and the grading of contaminated surface soils. Elevated concentrations of total lead and SVOA's appear to be limited to surface soils and subsurface fill materials and do not appear to have migrated to native soils encountered at the base of the fill. However, the horizontal and vertical extent of soil contamination has not been defined. Soil contamination detected in surface and subsurface soils adjacent to the school

building and at perimeter locations of the site indicate that soil contamination may extend beneath the school building and to off-site areas.

Thin, isolated wet zones were observed within the fill materials. However, significant saturated intervals were not evident. Below the base of the fill, groundwater was observed in three different soil types including silty clay, shaley clay and silty clay with gravel at different elevations. In our opinion, the saturated zones do not appear to represent one laterally continuous unit but separate distinct saturated zones. Hydraulic connection between the saturated zones was not determined. Additional monitoring wells would be required to determine the extent of each water bearing zone and to establish hydraulic gradients. Laboratory analysis of groundwater samples obtained from Monitoring Wells MW-1, -2, and -3 appear to indicate that groundwater has not been impacted by the semi-volatile organic soil contamination detected at the site.

9.0 REMEDIAL ALTERNATIVES REVIEW

9.1 Discussion. Typical remedial alternatives utilized at coal tar contaminated sites have included excavation and off-site disposal, excavation and on-site treatment via thermal desorption, soil washing and/or bioremediation techniques, and in-situ treatment technologies including bioremediation and soil vapor extraction. However, based on the information obtained during previous assessment activities and the assessment conclusions discussed above, it is our opinion that remedial options are limited at this site and that the ultimate goal of remediation should not be one of total removal of all contaminants detected at the site. Our opinions are based on the following:

- Historical aerial photographs indicate that portions of the site and extensive off-site areas north and west of the site were previously used for landfilling purposes. Soil contamination detected at the site appears to be the result of the random placement of contaminated fill materials and grading of contaminated surface soils. While the total extent of contamination has not been defined, it appears that surface and subsurface soil contamination is likely to extend to off-site areas. Based on this information, it appears that the soil contamination detected at the Hubert Wheeler State School represents a portion of a much larger problem.

- In our opinion, the heterogeneity of the contaminated subsurface fill materials detected at the site indicate that in-situ treatment technologies would likely be unsuccessful. In addition, in-situ treatment technologies are generally considered long term processes, include significant costs for engineering design, and require advanced pilot testing to determine if the various techniques would be successful at the site.

- Excavation and on-site treatment technologies generally require large areas to facilitate handling of the contaminated soils. Furthermore, on-site treatment technologies are generally not performed in residential areas due to increased potential for exposure at off-site areas.

We recommend a combination of remedial techniques including partial excavation, waste containment, and the implementation of institutional controls. Our recommendation is based on the nature and extent of contamination detected at the site, risk based "Any Use Soil Levels," established by the Missouri Department of Health, and the physical setting of the site. Following is a brief discussion of the recommended remedial approach and an estimate of probable costs.

9.2 Recommended Remedial Approach. The goals of the recommended remedial approach are to excavate and remove surface soil contamination detected at the site, investigate magnetic and infrared anomalies in an attempt to identify and remove potential source materials such as buried drums and/or coal tar deposits, and reduce the potential for human and environmental exposure at the site.

Excavation activities would be performed to remove contaminated soils from around subsurface utilities and 2 to 3 feet of surface soils at unpaved portions of the site. In addition, test pit excavations would be performed in the vicinity of subsurface magnetic and infrared anomalies to identify and remove potential source materials. Soils excavated during surface soil removal and test pit excavations would be transported off-site for disposal at an approved disposal facility. Waste characterization of contaminated soils indicates the soils would not be considered hazardous and could be disposed as special waste. Buried drums and/or coal tar deposits removed during test pit excavations would require additional characterization and may require disposal as special waste.

Following completion of the excavation activities, a 2-foot compacted clay cap would be installed over the excavated areas. The purpose of the clay cap would be to limit infiltration of rainwater into contaminated subsurface soils in order to reduce the potential for migration of contaminants to underlying native soils and groundwater. A 1-foot vegetative layer would be placed over the clay cap, graded to prevent ponding of water on the surface, and seeded to prevent erosion of the cap. Paved portions of the site impacted by the test pit excavations would be backfilled and repaved to match existing pavement.

Institutional controls to monitor environmental exposure and limit human exposures to contaminated subsurface soils will likely be required. The institutional controls may include development of a site health and safety plan which documents the subsurface contamination remaining at the site and details health and safety procedures required during any subsurface excavations performed at the site. In addition, periodic groundwater monitoring and indoor air sampling may be required to monitor for the occurrence of groundwater contamination at the site and to assist in determining the exposure, if any, to inhabitants of the school building.

9.3 Statement of Probable Cost. A statement of probable cost associated with the recommended remedial approach is presented below. The costs are estimates only and are based on broad assumptions including the volume of soil to be excavated and disposed, the quantity and cost of fill materials, and the potential for encountering hazardous wastes during test pit excavation activities. Costs may increase or decrease significantly as final remedial work plans are developed.

ESTIMATED PROBABLE REMEDIAL COSTS

TASK DESCRIPTION	ESTIMATED COST
Engineering, Cap Design, and Development of Remedial Work Plan	$41,500.00
Excavate, Transport, and Dispose Approximately 11,500 yds^3 Special Waste Soils	434,600.00
Engineering Oversight and Testing	59,900.00
Backfill, Clay Cap Installation, and Resurfacing	285,600.00
Analytical Testing and Waste Characterization	39,900.00
Transportation and Disposal - Hazardous Waste	19,900.00
Preparation of Remediation Report and Site Safety Plan	22,100.00

TOTAL ESTIMATED COST	$903,500.00
15% Contingency	135,500.00
BUDGET ESTIMATE	**$1,039,000.00**

TABLE 1

ANALYTICAL RESULTS SUMMARY (Surface Soil Samples)[1]

PARAMETERS DETECTED	MDOH ASL[2]	COMPOSITE SAMPLE LOCATIONS										
		SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10	SS-11
total lead	240	91.3	38.5	31.9	18.4	25.3	37.6	55.3	52.5	43.7	22.9	199
Acenaphthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flourene	2300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene		1.700	1.800	0.690	ND	0.410	0.820	0.630	0.710	0.470	ND	2.500
Anthracene	17000	0.440	0.540	ND	ND	ND	ND	ND	ND	ND	ND	0.500
Carbazole		ND	0.420	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	2300	2.400	3.600	1.200	0.460	0.670	1.100	0.970	1.070	0.800	ND	3.300
Pyrene	1700	ND	ND	ND	0.450	0.640	1.090	0.950	ND	0.850	ND	3.400
Butylbenzylphthalate	5600	ND	ND	ND	ND	ND	ND	ND	1.080	ND	ND	ND
Benzo(a)anthracene	0.44	1.300	1.700	0.660	ND	ND	0.650	0.490	0.530	0.450	ND	1.600
Chrysene	0.44	1.200	2.000	0.770	ND	ND	0.640	0.480	0.530	ND	ND	1.700
bis(2-Ethylhexyl) phthalate	360	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	0.44	1.700	2.900	1.070	ND	0.490	0.990	0.650	0.750	0.600	ND	2.100
Benzo(k)Fluoranthene	0.44	0.620	0.860	0.450	ND	ND	0.400	ND	ND	ND	ND	0.610
Benzo(a)Pyrene	0.44	1.200	1.900	0.680	ND	ND	0.600	ND	0.420	ND	ND	1.400
Indeno(1,2,3-cd)pyrene	0.44	0.430	0.800	ND	ND	ND	ND	ND	ND	ND	ND	0.650
Dibenzo(a,h)anthracene	0.44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene		ND	0.610	ND	ND	ND	ND	ND	ND	ND	ND	0.490
Naphthalene	230	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

1 - Analytical Results are presented as Parts Per Million (mg/kg)
2 - MDOH ASL's listed in September 1, 1992, Missouri Register, Volume 17, Number 17
ND - Parameter not detected above the analytical detection limit
Shaded values indicate levels which exceed MDOH Any Use Soil Levels for residential sites.

TABLE 1
ANALYTICAL RESULTS SUMMARY (Surface Soil Samples)[1]
- continued -

PARAMETERS DETECTED	MDOH ASL[2]	COMPOSITE SAMPLE LOCATIONS										
		SS-12	SS-13	SS-14	SS-15	SS-16	SS-17	SS-#-01[3]	2498:EB:1-S17[4]	SS-18	SS-19	SS-20
total lead	240	97.2	105	36.9	42.1	62.2	40.9	23.2	ND	58.6	61.4	33.0
Acenaphthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flourene	2300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene		1.100	2.000	ND	ND	0.700	ND	ND	ND	0.650	1.100	2.600
Anthracene	17000	ND	0.450	ND	ND	ND	ND	ND	ND	ND	ND	0.660
Carbazole		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	2300	1.500	2.500	ND	ND	0.970	ND	ND	ND	0.890	1.500	2.500
Pyrene	1700	1.600	2.500	ND	ND	1.040	ND	ND	ND	0.980	1.400	2.600
Butylbenzylphthalate	5600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.44	0.740	1.300	ND	ND	0.570	ND	ND	ND	0.500	0.750	1.200
Chrysene	0.44	0.750	1.300	ND	ND	0.560	ND	ND	ND	0.480	0.730	1.200
bis(2-Ethylhexyl) phthalate	360	0.460	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	0.44	1.000	1.600	ND	ND	0.760	ND	ND	ND	0.660	0.980	1.400
Benzo(k)Fluoranthene	0.44	0.430	0.560	ND	ND	ND	ND	ND	ND	ND	0.440	0.450
Benzo(a)Pyrene	0.44	0.660	1.200	ND	ND	0.460	ND	ND	ND	ND	0.690	0.970
Indeno(1,2,3-cd)pyrene	0.44	ND	0.560	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene		ND	0.430	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	230	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

1 - Analytical Results are presented as Parts Per Million (mg/kg)
2 - MDOH ASL's listed in September 1, 1992, Missouri Register, Volume 17, Number 17
ND - Parameter [illegible] ted above the analytical detection limit
Shaded values indicate levels which exceed MDOH Any Use [illegible] Levels for residential sites.

3 - Surface Sample SS-#-01 is a duplicate sample taken from Surface Sample SS-17.
4 - Sample 2498:EB:1-S17 is an equipment [illegible] sample.

TABLE 1
ANALYTICAL RESULTS SUMMARY (Surface Soil Samples)[1]
- continued -

PARAMETERS DETECTED	MDOH ASL[2]	COMPOSITE SAMPLE LOCATIONS										
		SS-21	SS-22	SS-23	SS-24	SS-25	SS-26	SS-27	SS-28	SS-29	SS-30	SS-31
total lead	240	38.3	42.0	104	65.6	90.0	72.7	88.3	67.8	135	116	63.8
Acenaphthene		ND	ND	ND	ND	ND	0.410	ND	ND	ND	ND	ND
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flourene	2300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene		0.430	2.400	3.100	0.690	1.060	5.200	0.820	0.450	1.050	1.400	2.200
Anthracene	17000	ND	0.510	0.690	ND	ND	0.800	ND	ND	ND	ND	0.460
Carbazole		ND	ND	ND	ND	ND	0.730	ND	ND	ND	ND	ND
Fluoranthene	2300	0.540	ND	3.900	0.930	1.500	4.400	1.600	0.610	1.400	1.900	2.800
Pyrene	1700	0.470	3.400	3.600	0.940	1.400	3.900	1.600	0.580	ND	1.700	2.600
Butylbenzylphthalate	5600	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.960	ND
Benzo(a)anthracene	0.44	ND	1.300	1.700	0.490	0.700	1.500	1.000	ND	0.680	0.930	1.300
Chrysene	0.44	ND	1.300	1.700	0.430	0.730	1.700	1.000	ND	0.680	0.960	1.300
bis(2-Ethylhexyl) phthalate	360	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.100	ND
Di-n-octylphthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.770	ND
Benzo(b)Fluoranthene	0.44	ND	1.400	2.000	0.570	0.880	2.000	1.300	0.470	0.840	1.100	1.500
Benzo(k)Fluoranthene	0.44	ND	0.440	0.680	ND	ND	0.580	0.530	ND	ND	0.500	0.520
Benzo(a)Pyrene	0.44	ND	1.080	1.600	ND	0.560	1.400	0.920	ND	0.540	0.790	1.100
Indeno(1,2,3-cd)pyrene	0.44	ND	0.430	0.800	ND	ND	0.420	ND	ND	ND	ND	0.530
Dibenzo(a,h)anthracene	0.44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene		ND	0.440	0.620	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	230	ND	ND	ND	ND	ND	0.690	ND	ND	ND	ND	ND

1 - Analytical Results are presented as Parts Per Million (mg/kg)
2 - MDOH ASL's listed in September 1, 1992, Missouri Register, Volume 17, Number 17
ND - Parameter not detected above the analytical detection limit
Shaded values indicate levels which exceed MDOH Any Use Soil Levels for residential sites.

TABLE 1
ANALYTICAL RESULTS SUMMARY (Surface Soil Samples)[1]
- continued -

PARAMETERS DETECTED	MDOH ASL[2]	COMPOSITE SAMPLE LOCATIONS										
		SS-32	SS-33	SS-#-2[3]	2498:EB:2-S33[4]	SS-34	SS-35	SS-36	SS-37	SS-38	SS-39	SS-40
total lead	240	71.1	52.9	54.0	ND	128	63.0	41.8	1,620	48.5	74.9	234
Acenaphthene		ND	ND	ND	ND	ND	ND	0.690	ND	1.080	ND	ND
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ND	0.540	ND	ND
Flourene	2300	ND	ND	ND	ND	ND	ND	0.770	ND	1.300	ND	ND
Phenanthrene		1.900	0.620	0.650	ND	1.700	1.900	10.000	2.100	16.000	2.000	ND
Anthracene	17000	0.520	ND	ND	ND	0.470	0.500	2.800	0.510	4.500	0.500	ND
Carbazole		ND	ND	ND	ND	ND	ND	1.400	ND	2.600	ND	ND
Fluoranthene	2300	ND	0.830	0.920	ND	2.100	2.800	12.000	2.800	23.000	2.300	ND
Pyrene	1700	2.700	ND	0.910	ND	ND	ND	9.700	ND	16.000	2.300	0.430
Butylbenzylphthalate	5600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.44	1.300	0.460	0.300	ND	1.010	1.300	5.000	1.300	8.600	1.090	ND
Chrysene	0.44	1.200	0.450	0.480	ND	0.960	1.300	4.700	1.400	6.600	1.010	ND
bis(2-Ethylhexyl) phthalate	360	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	0.44	1.400	0.640	0.680	ND	1.300	1.700	5.900	1.700	16.000	1.400	ND
Benzo(k)Fluoranthene	0.44	0.540	ND	ND	ND	0.560	0.680	1.900	0.610	2.500	0.550	ND
Benzo(a)Pyrene	0.44	1.100	ND	ND	ND	0.900	1.300	4.400	1.200	9.900	0.940	ND
Indeno(1,2,3-cd)pyrene	0.44	ND	ND	ND	ND	ND	0.410	1.900	0.420	3.800	ND	ND
Dibenzo(a,h)anthracene	0.44	ND	ND	ND	ND	ND	ND	0.450	ND	0.940	ND	ND
Benzo(g,h,i)perylene		ND	ND	ND	ND	ND	ND	1.500	ND	3.000	ND	ND
Naphthalene	230	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

1 - Analytical Results are presented as Parts Per Million (mg/kg)
2 - MDOH ASL's listed in September 1, 1992, Missouri Register, Volume 17, Number 17
ND - Parameter not detected above the [illegible]ytical detection limit
Shaded values indicate levels which exceed MDOH Any Use Soil Levels for residential sites.

3 - Surface Sample SS-#-2 is a duplicate sample taken from Surface Sample SS-33.
4 - Sample 2498:EB:2-S33 is an equip[illegible] blank sample.

TABLE 2A

ANALYTICAL RESULTS SUMMARY (Subsurface Soil Samples)[1]

SEMI-VOLATILE ORGANICS DETECTED	SUBSURFACE SAMPLE LOCATIONS						
	SB1-2	SB1-7	SB1-13.5	SB1-18.5	SB2-2	SB2-6	SB2-12
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	1.200	ND
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	1.200	ND
Phenanthrene	1.500	ND	ND	ND	0.860	11.000	ND
Anthracene	0.390	ND	ND	ND	ND	3.400	ND
Carbazole	ND	ND	ND	ND	ND	1.600	ND
Di-n-butylphthalate	ND	ND	ND	0.500	ND	ND	0.480
Fluoranthene	2.500	ND	ND	ND	1.400	19.000	ND
Pyrene	1.700	ND	ND	ND	1.060	14.000	ND
Butylbenzylphthalate	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.920	ND	ND	ND	0.510	7.900	ND
Chrysene	1.000	ND	ND	ND	0.660	6.200	ND
bis(2-Ethylhexyl) phthalate	0.430	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	ND	ND	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	1.100	ND	ND	ND	0.730	9.200	ND
Benzo(k)Fluoranthene	0.810	ND	ND	ND	0.800	2.800	ND
Benzo(a)Pyrene	0.860	ND	ND	ND	0.460	7.000	ND
Indeno(1,2,3-cd)pyrene	0.430	ND	ND	ND	ND	2.200	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.520	ND	ND	ND	ND	2.100	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND

1 - Analytical Results are presented as Parts Per Million (mg/kg)
ND - Parameter not detected above the analytical detection limit

TABLE 2A

ANALYTICAL RESULTS SUMMARY (Subsurface Soil Samples)[1]
- continued -

SEMI-VOLATILE ORGANICS DETECTED	SUBSURFACE SAMPLE LOCATIONS						
	SB3-5	SB3-8	SB3-11.5	SB3-15.5	SB4-5	SB4-13	SB4-18.5
2-Methylnaphthalene	ND	ND	0.740	3.700	ND	ND	ND
Acenaphthylene	ND	ND	0.420	1.500	ND	ND	ND
Acenaphthene	ND	ND	0.930	3.600	ND	ND	ND
Dibenzofuran	ND	ND	0.600	3.900	ND	ND	ND
Fluorene	ND	ND	1.100	4.800	ND	ND	ND
Phenanthrene	ND	ND	13.000	33.000	5.700	0.810	ND
Anthracene	ND	ND	2.900	9.100	ND	ND	ND
Carbazole	ND	ND	1.300	5.500	ND	ND	ND
Di-n-butylphthalate	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	15.000	30.000	6.400	0.870	ND
Pyrene	ND	ND	13.000	23.000	6.600	0.840	ND
Butylbenzylphthalate	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	6.100	11.000	2.500	0.380	ND
Chrysene	ND	ND	4.900	10.500	2.800	0.580	ND
bis(2-Ethylhexyl) phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	ND	ND	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	ND	ND	6.600	11.000	3.300	0.510	ND
Benzo(k)Fluoranthene	ND	ND	1.010	2.800	ND	0.780	ND
Benzo(a)Pyrene	ND	ND	5.500	9.800	2.300	ND	ND
Indeno(1,2,3-cd)pyrene	ND	ND	1.700	3.800	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	0.530	1.100	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	1.700	3.700	ND	ND	ND
Naphthalene	ND	ND	0.920	8.200	ND	ND	ND

1 - Analytical Results are presented as Parts Per Million (mg/kg)
ND - Parameter not detected above the analytical detection limit

TABLE 2A

ANALYTICAL RESULTS SUMMARY (Subsurface Soil Samples)[1]
- continued -

SEMI-VOLATILE ORGANICS DETECTED	SUBSURFACE SAMPLE LOCATIONS									
	SB5-5	SB5-8.5	SB20-8.5-D1[3]	SB5-8.5-EB[2]	SB5-13	SB5-17	SB6-3	SB6-9	SB6-12	SB6-20
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	0.460	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	1.200	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND	ND	0.760	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	1.090	ND	ND	ND	ND
Phenanthrene	ND	2.700	5.800	ND	22.000	17.000	ND	ND	0.510	ND
Anthracene	ND	0.550	1.020	ND	5.200	4.500	ND	ND	ND	ND
Carbazole	ND	ND	ND	ND	2.300	2.900	ND	ND	ND	ND
Di-n-butylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	4.500	7.500	ND	28.000	29.000	ND	ND	0.480	ND
Pyrene	ND	3.100	6.700	ND	19.000	20.000	ND	ND	0.590	ND
Butylbenzylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	1.700	3.600	ND	9.500	9.800	ND	ND	ND	ND
Chrysene	ND	1.700	3.500	ND	9.200	10.500	ND	ND	0.470	ND
bis(2-Ethylhexyl) phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	ND	2.200	4.300	ND	11.000	12.000	ND	ND	ND	ND
Benzo(k)Fluoranthene	ND	0.870	1.100	ND	4.100	2.100	ND	ND	ND	ND
Benzo(a)Pyrene	ND	1.600	3.500	ND	8.500	8.500	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ND	0.760	1.400	ND	3.900	4.000	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	0.420	ND	ND	1.100	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	0.810	1.500	ND	4.100	3.900	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	0.450	ND	ND	ND	ND

1 - A ytical R s are presented as Parts Per Million (mg/kg)
2 - Subsurface S le SB20-8.5-D1 is a duplicate sample taken from Subsurface Sample SB5-8.5.
3 - Sample SB5-8.5-EB is an equipment blank sample.
ND - Parameter not detected above the analytical detection limit

TABLE 2A

ANALYTICAL RESULTS SUMMARY (Subsurface Soil Samples)[1]
- continued -

SEMI-VOLATILE ORGANICS DETECTED	SUBSURFACE SAMPLE LOCATIONS						
	SB7-5	SB7-9	SB7-11	SB7-18	SB8-3	SB8-16	SB8-20
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND
Acenaphythylene	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	0.610	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Carbazole	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	ND	ND	ND	0.710	ND	ND	ND
Fluoranthene	ND	ND	ND	0.750	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	0.500	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl) phthalate	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	ND	ND	ND	0.420	ND	ND	ND
Benzo(b)Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Benzo(k)Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Benzo(a)Pyrene	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND

1 - Analytical R ts are presented as Parts Per Million (mg/kg)
ND - Parameter : detected above the analytical detection limit

TABLE 2A

ANALYTICAL RESULTS SUMMARY (Subsurface Soil Samples)[1]
- continued -

SEMI-VOLATILE ORGANICS DETECTED	SUBSURFACE SAMPLE LOCATIONS								
	SB9-3	SB9-7	SB9-15	SB9-20	MW-1:2	MW-1:7	MW-1:13	MW-1:18	MW-1:26
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	.480	ND	ND	2.100	15.000	0.640	ND	ND
Anthracene	ND	ND	ND	ND	0.500	3.400	ND	ND	ND
Carbazole	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	2.000	18.000	1.200	ND	ND
Pyrene	ND	ND	ND	ND	1.500	12.000	1.050	ND	ND
Butylbenzylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	0.760	6.000	0.660	ND	ND
Chrysene	ND	0.450	ND	ND	0.780	6.000	0.870	ND	ND
bis(2-Ethylhexyl) phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	ND	ND	ND	ND	0.810	6.500	1.300	ND	ND
Benzo(k)Fluoranthene	ND	ND	ND	ND	0.820	4.000	0.870	ND	ND
Benzo(a)Pyrene	ND	ND	ND	ND	0.600	5.200	0.750	ND	ND
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	2.300	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	2.900	0.540	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND

1 - Analytical Results are presented as Parts Per Million (mg/kg)
ND - Parameter not detected above the analytical detection limit

TABLE 2A

ANALYTICAL RESULTS SUMMARY (Subsurface Soil Samples)[1]
- continued -

SEMI-VOLATILE ORGANICS DETECTED	SUBSURFACE SAMPLE LOCATIONS								
	MW-2:4	MW-2:10	MW-2:15	SB22-15-D2[2]	MW-2-15-EB[3]	MW-2:20	MW-2:30	MW-2:40	MW-2:50
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	9.000	1.600	ND	ND	ND	ND	ND	ND	ND
Anthracene	2.400	0.420	ND	ND	ND	ND	ND	ND	ND
Carbazole	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	15.000	2.400	ND	ND	ND	ND	ND	ND	ND
Pyrene	12.000	1.800	ND	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	6.200	0.860	ND	ND	ND	ND	ND	ND	ND
Chrysene	6.000	0.870	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl) phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	7.500	0.940	ND	ND	ND	ND	ND	ND	ND
Benzo(k)Fluoranthene	4.300	0.860	ND	ND	ND	ND	ND	ND	ND
Benzo(a)Pyrene	6.100	0.730	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	2.700	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	3.300	0.460	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND

1 - Analytical Results are presented as Parts Per Million (mg/kg).
2 - Subsurface Sample SB22-15-D2 is a duplicate sample taken from Subsurface Sample MW-2:15.
3 - Sample MW-2-15-EB is an equipment blank sample.
ND - Parameter not detected above the analytical detection limit.

TABLE 2A

ANALYTICAL RESULTS SUMMARY (Subsurface Soil Samples)[1]
- continued -

SEMI-VOLATILE ORGANICS DETECTED	SUBSURFACE SAMPLE LOCATIONS					
	MW-3:3	MW-3:7	MW-3:15	MW-3:20	MW-3:30	MW-3:39
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND
Acenaphythylene	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND
Phenanthrene	0.900	4.400	ND	ND	ND	ND
Anthracene	ND	1.300	ND	ND	ND	ND
Carbazole	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	ND	ND	ND	ND	ND	ND
Fluoranthene	1.400	9.100	ND	ND	ND	ND
Pyrene	0.980	7.100	ND	ND	ND	ND
Butylbenzylphthalate	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.540	3.700	ND	ND	ND	ND
Chrysene	0.690	3.300	ND	ND	ND	ND
bis(2-Ethylhexyl) phthalate	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	ND	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	0.820	4.500	ND	ND	ND	ND
Benzo(k)Fluoranthene	0.820	0.880	ND	ND	ND	ND
Benzo(a)Pyrene	0.520	3.400	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ND	1.400	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	1.400	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND

1 - Analytical Results are presented as Parts Per Million (mg/kg).

ND - Parameter not detected above the analytical detection limit.

TABLE 2B

ANALYTICAL RESULTS SUMMARY (Subsurface Soil Samples)[1]

ANALYTE	SUBSURFACE SAMPLE LOCATIONS						
	SB1-2	SB1-7	SB1-13.5	SB1-18.5	SB2-2	SB2-6	SB2-12
TOTAL METALS							
Arsenic	ND	ND	17.5	ND	ND	ND	ND
Barium	188	155	159	101	119	240	85.0
Cadmium	ND	ND	ND	ND	0.291	0.761	0.508
Chromium	9.26	6.04	14.3	14.6	11.8	9.49	12.9
Lead	35.6	97.3	9.50	8.41	37.6	756	44.1
Mercury	0.120	ND	ND	ND	0.130	2.07	0.500
Selenium	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	0.6440	ND
TCLP METALS							
Arsenic	NS	ND	NS	NS	NS	ND	NS
Barium	NS	1.04	NS	NS	NS	0.267	NS
Cadmium	NS	ND	NS	NS	NS	0.00600	NS
Chromium	NS	ND	NS	NS	NS	ND	NS
Lead	NS	ND	NS	NS	NS	0.875	NS
Mercury	NS	0.001000	NS	NS	NS	0.0003000	NS
Selenium	NS	ND	NS	NS	NS	ND	NS
Silver	NS	ND	NS	NS	NS	ND	NS

1 - Analytical Results are presented as Parts Per Million (mg/kg)
ND - Parameter not detected above the analytical detection limit.
NS - Sample not submitted for TCLP Metals analyses.

TABLE 2B

ANALYTICAL RESULTS SUMMARY (Subsurface Soil Samples)[1]

ANALYTE	SUBSURFACE SAMPLE LOCATIONS						
	SB3-5	SB3-8	SB3-11.5	SB3-15.5	SB4-5	SB4-13	SB4-18.5
TOTAL METALS							
Arsenic	ND	ND	ND	ND	ND	ND	ND
Barium	116	67.3	132	207	165	18.4	45.5
Cadmium	1.83	1.23	1.51	1.39	1.43	0.502	5.57
Chromium	15.2	9.38	11.6	12.4	12.2	2.57	9.92
Lead	39.8	13.8	140	80.9	115	64.1	33.6
Mercury	0.270	0.260	0.570	0.590	0.270	0.190	0.160
Selenium	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND
TCLP METALS							
Arsenic	NS	NS	ND	NS	ND	NS	NS
Barium	NS	NS	0.698	NS	1.32	NS	NS
Cadmium	NS	NS	0.00600	NS	0.00700	NS	NS
Chromium	NS	NS	ND	NS	ND	NS	NS
Lead	NS	NS	2.27	NS	ND	NS	NS
Mercury	NS	NS	0.0004000	NS	0.0006000	NS	NS
Selenium	NS	NS	ND	NS	ND	NS	NS
Silver	NS	NS	ND	NS	ND	NS	NS

1 - Analytical Results are presented as Parts Per Million (mg/kg)
ND - Parameter not detected above the analytical detection limit.
NS - Sample not submitted for TCLP Metals analyses.

TABLE 2B

ANALYTICAL RESULTS SUMMARY (Subsurface Soil Samples)[1]

ANALYTE	SUBSURFACE SAMPLE LOCATIONS									
	SB5-5	SB5-8.5	SB20-8.5-D1[2]	SB5-8.5-EB[3]	SB5-13	SB5-17	SB6-3	SB6-9	SB6-12	SB6-20
TOTAL METALS										
Arsenic	ND	ND	ND	ND	ND	12.0	ND	ND	15.0	ND
Barium	77.7	105	128	0.0440	136	257	39.2	66.5	151	122
Cadmium	2.27	1.28	1.09	0.00800	1.34	3.30	0.537	0.746	1.49	1.25
Chromium	19.7	9.11	9.05	0.130	7.94	14.0	5.10	5.45	14.6	15.4
Lead	22.1	51.5	100	ND	143	70.7	9.40	42.3	157	7.78
Mercury	0.190	1.03	1.30	ND	37.0	25.3	1.80	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP METALS										
Arsenic	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS
Barium	NS	NS	NS	NS	0.398	NS	NS	NS	1.09	NS
Cadmium	NS	NS	NS	NS	0.0160	NS	NS	NS	0.00800	NS
Chromium	NS	NS	NS	NS	0.0100	NS	NS	NS	ND	NS
Lead	NS	NS	NS	NS	ND	NS	NS	NS	0.157	NS
Mercury	NS	NS	NS	NS	0.0004000	NS	NS	NS	0.001600	NS
Selenium	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS
Silver	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS

1 - Analytical Results are presented as Parts Per Million (mg/kg)
2 - Subsurface Sample SB20-8.5-D1 is a duplicate sample taken from Subsurface Sample SB5-8.5.
3 - Sample SB5-8.5-EB is an equipment blank sample.
ND - Parameter not detected above the analytical detection limit
NS - Sample not submitted for TCLP Metals analyses.

TABLE 2B

ANALYTICAL RESULTS SUMMARY (Subsurface Soil Samples)[1]

ANALYTE	SUBSURFACE SAMPLE LOCATIONS						
	SB7-5	SB7-9	SB7-11	SB7-18	SB8-3	SB8-16	SB8-20
TOTAL METALS							
Arsenic	ND	ND	ND	ND	ND	ND	ND
Barium	190	14.5	21.0	ND	16.2	102	92.9
Cadmium	6.17	1.07	ND	0.476	ND	0.805	1.56
Chromium	27.2	5.24	3.11	7.02	6.55	13.6	19.0
Lead	13.2	17.4	19.2	14.2	45.1	8.85	11.0
Mercury	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND
TCLP METALS							
Arsenic	NS	NS	NS	NS	NS	NS	NS
Barium	NS	NS	NS	NS	NS	NS	NS
Cadmium	NS	NS	NS	NS	NS	NS	NS
Chromium	NS	NS	NS	NS	NS	NS	NS
Lead	NS	NS	NS	NS	NS	NS	NS
Mercury	NS	NS	NS	NS	NS	NS	NS
Selenium	NS	NS	NS	NS	NS	NS	NS
Silver	NS	NS	NS	NS	NS	NS	NS

1 - Analytical Results are presented as Parts Per Million (mg/kg)
ND - Parameter not detected above the analytical detection limit
NS - Sample not submitted for TCLP Metals analyses.

TABLE 2B

ANALYTICAL RESULTS SUMMARY (Subsurface Soil Samples)[1]

ANALYTE	SUBSURFACE SAMPLE LOCATIONS								
	SB9-3	SB9-7	SB9-15	SB9-20	MW-1:2	MW-1:7	MW-1:13	MW-1:18	MW-1:26
TOTAL METALS									
Arsenic	ND	14.1	ND	ND	ND	ND	26.1	ND	ND
Barium	138	331	175	65.4	91.1	194	521	136	174
Cadmium	1.32	3.87	0.757	0.549	1.26	1.50	5.26	2.89	1.99
Chromium	8.59	15.4	13.5	15.3	13.2	11.9	26.8	23.1	15.0
Lead	126	5,860	12.1	9.90	51.4	227	510	505	314
Mercury	0.200	2.51	ND	ND	ND	1.03	1.07	ND	ND
Selenium	ND	ND	ND	ND	12.0	ND	ND	ND	ND
Silver	0.6270	0.8740	ND	ND	ND	ND	3.490	0.6010	ND
TCLP METALS									
Arsenic	NS	ND	NS	NS	NS	NS	ND	NS	NS
Barium	NS	0.402	NS	NS	NS	NS	0.496	NS	NS
Cadmium	NS	0.0120	NS	NS	NS	NS	0.0190	NS	NS
Chromium	NS	ND	NS	NS	NS	NS	ND	NS	NS
Lead	NS	0.100	NS	NS	NS	NS	0.290	NS	NS
Mercury	NS	0.0004000	NS	NS	NS	NS	0.003400	NS	NS
Selenium	NS	ND	NS	NS	NS	NS	ND	NS	NS
Silver	NS	ND	NS	NS	NS	NS	ND	NS	NS

1 - Analytical Results are presented as Parts Per Million (mg/kg)
ND - Parameter not detected above the analytical detection limit
NS - Sample not submitted for TCLP Metals analyses.

TABLE 2B

ANALYTICAL RESULTS SUMMARY (Subsurface Soil Samples)[1]

ANALYTE	SUBSURFACE SAMPLE LOCATIONS								
	MW-2:4	MW-2:10	MW-2:15	SB22-15-D2[2]	MW-2-15-EB[3]	MW-2:20	MW-2:30	MW-2:40	MW-2:50
TOTAL METALS									
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	255	136	117	137	0.0550	77.3	12.5	24.5	18.7
Cadmium	2.21	1.58	1.12	1.00	ND	0.806	2.29	3.36	3.47
Chromium	22.4	14.0	14.7	16.5	ND	9.95	20.7	27.3	29.0
Lead	464	15.1	8.43	8.94	ND	8.19	ND	ND	15.7
Mercury	0.530	ND	ND	ND	ND	0.130	ND	0.210	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP METALS									
Arsenic	ND	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1.59	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	0.0120	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	ND	NS	NS	NS	NS	NS	NS	NS	NS
Lead	0.364	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	ND	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	ND	NS	NS	NS	NS	NS	NS	NS	NS
Silver	ND	NS	NS	NS	NS	NS	NS	NS	NS

1 - Analytical Results are presented as Parts Per Million (mg/kg)
2 - Subsurface Sample SB22-15-D2 is a duplicate sample of Subsurface Sample MW-2:15.
3 - Sample MW-2-15-EB is an equipment blank sample.
ND - Parameter not detected above the analytical detection limit
NS - Sample not submitted for TCLP Metals analyses.

TABLE 2B

ANALYTICAL RESULTS SUMMARY (Subsurface Soil Samples)[1]

ANALYTE	SUBSURFACE SAMPLE LOCATIONS					
	MW-3:3	MW-3:7	MW-3:15	MW-3:20	MW-3:30	MW-3:39
TOTAL METALS						
Arsenic	ND	ND	ND	ND	ND	ND
Barium	159	385	106	207	126	50.8
Cadmium	1.85	5.22	1.40	3.11	1.79	1.36
Chromium	27.8	26.9	21.0	48.5	16.1	26.0
Lead	94.2	535	10.0	17.3	13.4	13.1
Mercury	0.140	0.550	ND	ND	0.120	ND
Selenium	ND	ND	ND	ND	ND	ND
Silver	ND	0.7460	ND	ND	ND	ND
TCLP METALS						
Arsenic	NS	ND	NS	NS	NS	NS
Barium	NS	1.87	NS	NS	NS	NS
Cadmium	NS	0.0130	NS	NS	NS	NS
Chromium	NS	ND	NS	NS	NS	NS
Lead	NS	0.168	NS	NS	NS	NS
Mercury	NS	0.0002000	NS	NS	NS	NS
Selenium	NS	ND	NS	NS	NS	NS
Silver	NS	ND	NS	NS	NS	NS

1 - Analytical Results are presented as Parts Per Million (mg/kg)
2 - MDOH ASL's listed in September 1, 1992, Missouri Register, Volume 17, Number 17
ND - Parameter not detected above the analytical detection limit
NS - Sample not submitted for TCLP Metals analyses.

TABLE 3

Analytical Results Summary for Groundwater Samples[1]

Well ID	Date	Total Metals								Volatile Organics Detected	Semi-Volatile Organics Detected
		Total Arsenic	Total Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Selenium	Total Silver		
MW-1	7/19/95	ND	0.111	ND	ND	ND	ND	ND	ND	ND	ND
MW-2	7/19/95	0.217	0.180	0.00900	0.216	0.244	0.0003	ND	ND	ND	ND
MW-3	7/19/95	ND	0.053	ND	0.0170	ND	ND	ND	ND	Acetone (0.011) 1,1-Dichloroethane (0.0063)	ND

[1] Analytical results are presented in Parts Per Million (mg/L).
ND - Parameter not detected above the analytical detection limit.

TABLE 4

Monitoring Well Data

Monitoring Well Number[1]	Well Construction Data							Summary of Well Gauging Data			
	Date Installed	Total Depth of Boring		Screen Elevation		Top of Well Casing Elevation	Ground Elevation	Date Measured	Depth, Ft.[4]	Elevation	Product Thickness (Ft.)
		Depth, Ft.[2]	Elevation[3]	From	To						
MW-1	7/11/95	30.0	71.2	71.8	81.8	101.1	101.2	7/18/95	23.14	78.0	0.00
MW-2	7/12/95	50.1	51.1	51.6	61.6	101.2	101.2	7/18/95	41.82	59.4	0.00
MW-3	7/13/95	40.5	60.5	61.0	71.0	100.8	101.0	7/18/95	17.95	82.9	0.00

[1] See Plate 5 for well locations.
[2] Depths are measured in feet below land surface.
[3] Elevations are referenced to site datum.
[4] Depths are measured in feet below top of casing.

TABLE 5

GROUNDWATER FIELD DATA SUMMARY

Monitoring Well	Volume Removed (gallons)	Temperature (°F)	Specific Conductivity (μmohs/cm)	pH -Log [H+]
MW-1	0.5	70.2	2,810	7.53
	1.0	70.2	2,880	7.17
	2.0	70.2	2,900	7.13
	3.0	70.4	2,880	7.16
MW-2	1.0	73.7	2,230	5.98
	2.0	73.1	2,070	5.92
	3.0	71.5	2,060	5.90
	4.0	72.0	2,060	5.88
MW-3	2.0	85.6	1,250	6.76
	4.0	76.1	1,180	7.58
	6.0	74.2	1,290	7.40
	8.0	73.9	1,260	7.35
	10.0	73.5	1,250	7.32
	12.0	73.2	1,240	7.35

TABLE 6

Monitoring Well Gauging Data

Monitoring Well Number[1]	Summary of Well Gauging Data			
	Date Measured	Depth Ft.[3]	Elevation[2]	Well Gauging Event
MW-1	07/12/95	26.7	74.4	Subsequent to Monitoring Well Installation
	07/14/95	23.76	77.3	Prior to Monitoring Well Development
	07/18/95	23.14	78.0	Prior to Monitoring Well Purging
	09/01/95	22.89	78.2	Subsequent to Monitoring Well Sampling
MW-2	07/12/95	42.0	59.2	Subsequent to Monitoring Well Installation
	07/14/95	42.06	59.1	Prior to Monitoring Well Development
	07/18/95	41.82	59.4	Prior to Monitoring Well Purging
	09/01/95	41.75	59.5	Subsequent to Monitoring Well Sampling
MW-3	07/14/95	17.01	83.8	Prior to Monitoring Well Development
	07/18/95	17.95	82.9	Prior to Monitoring Well Purging
	09/01/95	17.92	82.9	Subsequent to Monitoring Well Sampling

[1] See Plate 5 for monitoring well locations.
[2] Elevations are referenced to site datum.
[3] Depths are measured in feet below top of casing.

NOTE

Plan adapted from 7.5 Minute U.S.G.S. Maps for Webster Groves and Clayton, Missouri Quadrangles last revised 1974.

0 2000 4000

SCALE IN FEET

N

Drawn By: WAH	Ck'd By: SLB	App'vd By: EOA
Date 9-13-94	Date 9/16/94	Date 9/16/94

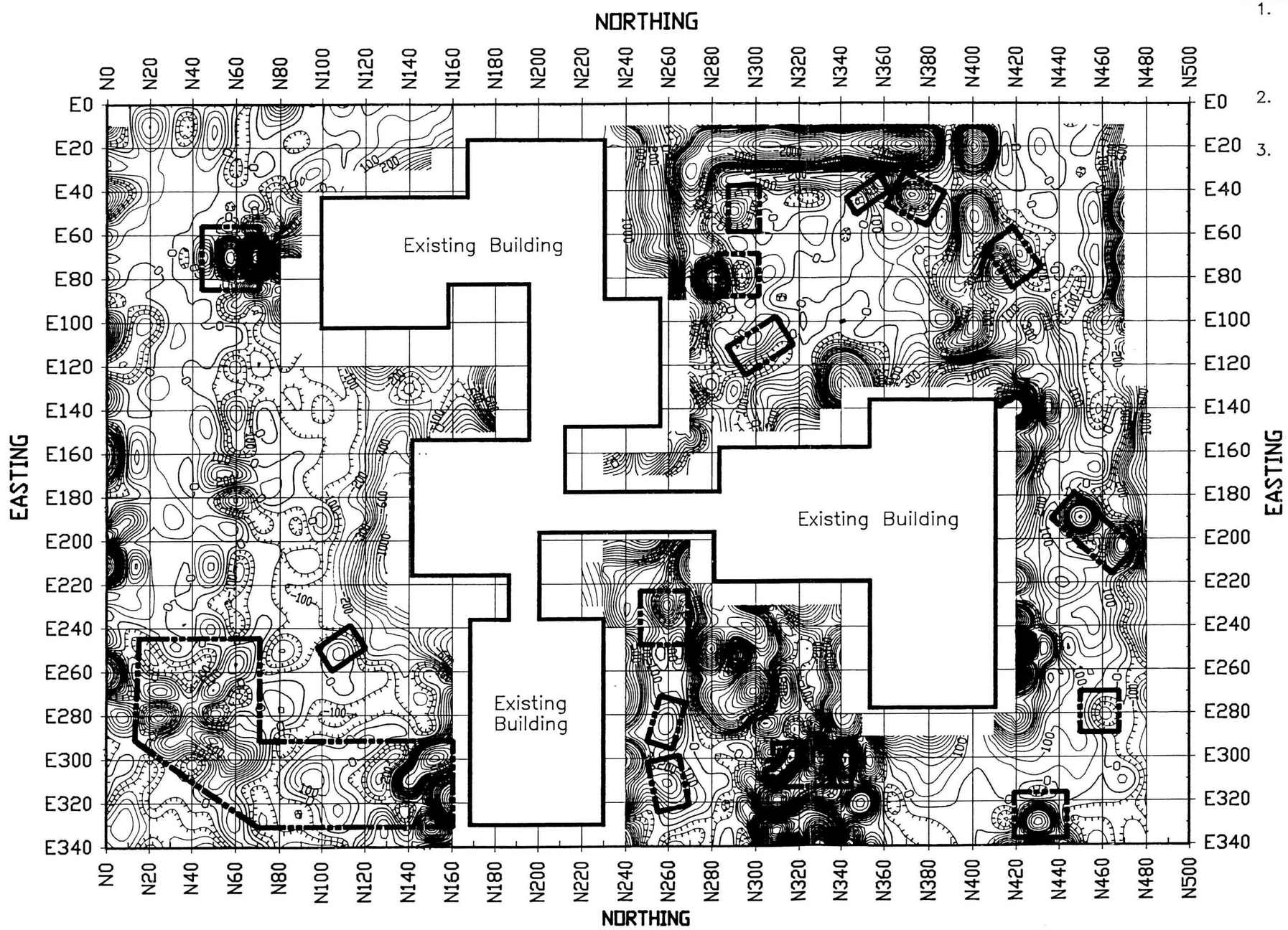
GEOTECHNOLOGY, INC.
ENGINEERING & ENVIRONMENTAL SERVICES
ST. LOUIS KANSAS CITY

Hubert Wheeler State School
St. Louis, Missouri

SITE LOCATION AND TOPOGRAPHY

Project Number
2498.01.3120.05

PLATE 1

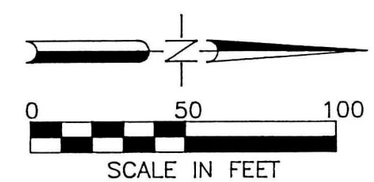


NOTES

1. Contour interval: 0 – ±500 is 50 gammas/meter, ±500 – ±1000 is 100 gammas/meter, ±1000 – ±6000 is 200 gammas/meter.
2. The survey grid was established in the field by BAX Engineering Co., Inc.
3. Areas not contoured are excluded due to the presence of the school building and related metalic features.

LEGEND

- Positive Magnetic Gradient
- Negative Magnetic Gradient
- General Area of Potential Buried Metal



Drawn By: WAH	Ck'D By: SCB	App'vd By: EQA
Date: 8-31-95	Date: 9/6/95	Date: 9/7/95

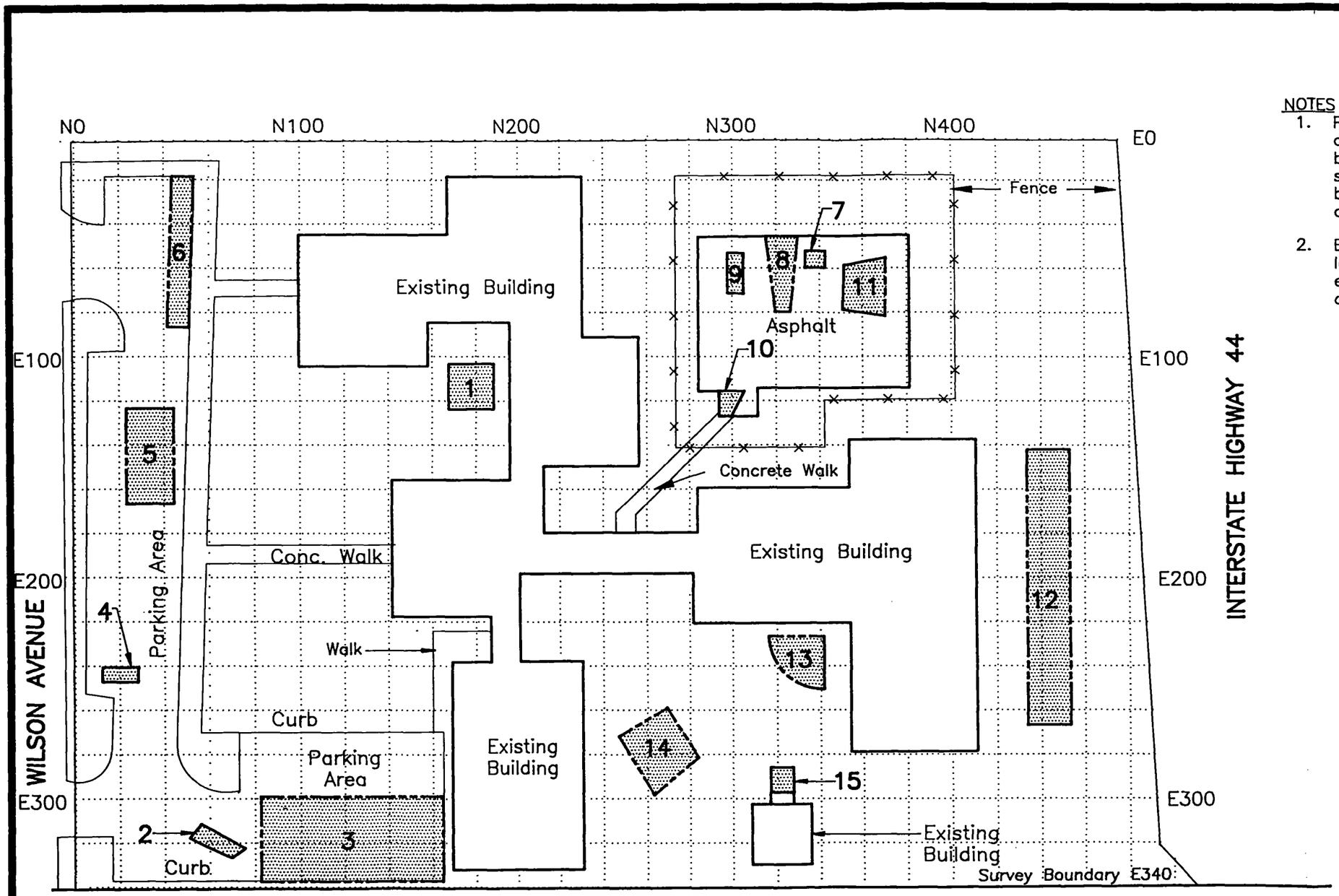
GEOTECHNOLOGY, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES
SAINT LOUIS • KANSAS CITY

Hubert Wheeler State School
St. Louis, Missouri

PLAN OF SITE AND MAGNETIC GRADIENT SURVEY

Project Number 2498.03.4120.01

PLATE 2



NOTES

1. Plan adapted from an undated drawing titled "Site Plan", prepared by Murphy Vogt & Stokes, Inc., supplied by the client and modified based on field reconnaissance by a representative of Geotechnology, Inc.
2. Borings and monitoring well were located in the field with reference to existing site features and are shown approximate only.

LEGEND

7 IR Anomaly Location and Identifier

0 50 100

SCALE IN FEET

Drawn By: WAH	Ck'D By: SLB	App'vd By: EQA
Date: 8-31-95	Date: 9/6/95	Date: 9/7/95

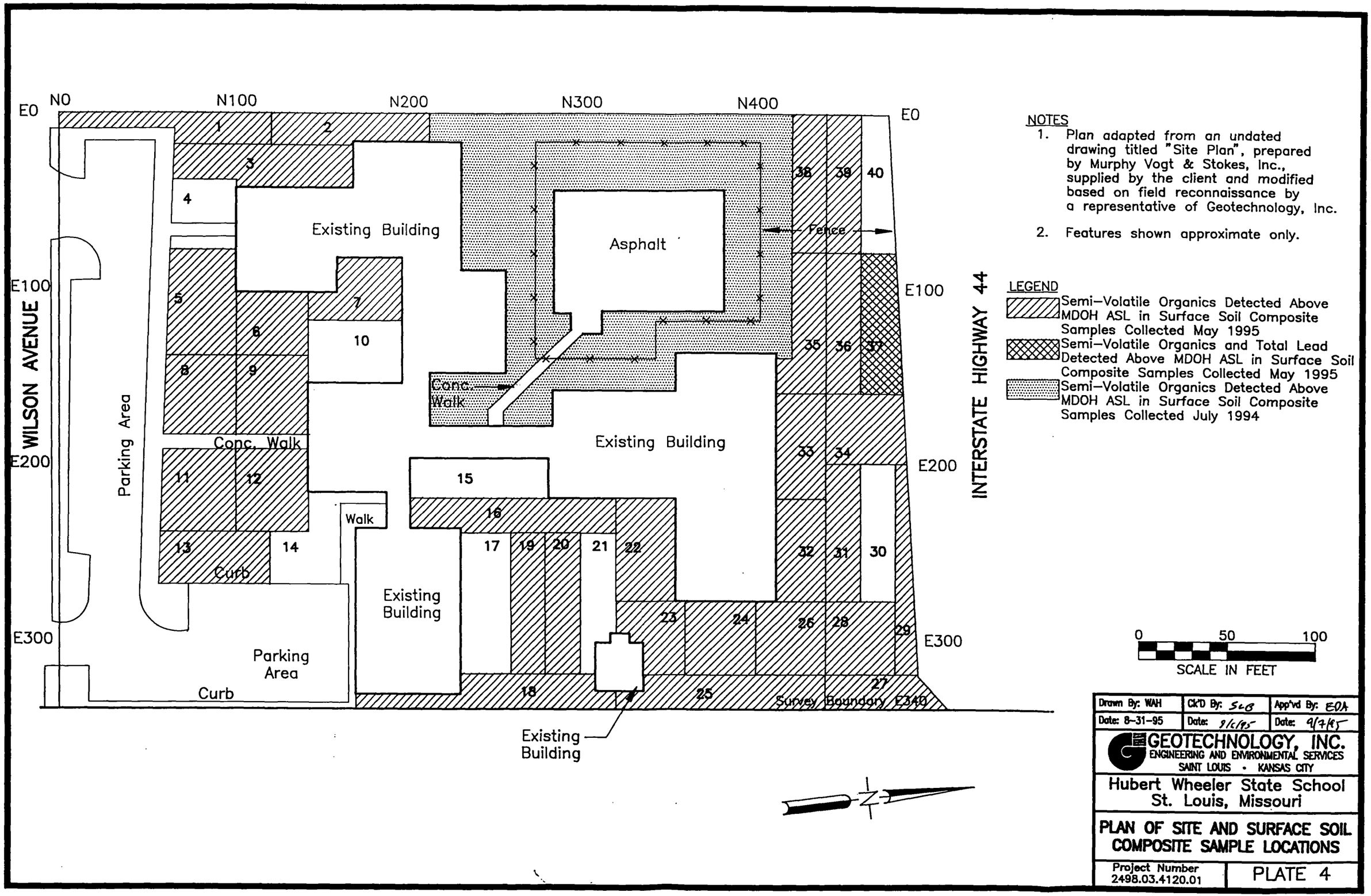
GEOTECHNOLOGY, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES
SAINT LOUIS • KANSAS CITY

Hubert Wheeler State School
St. Louis, Missouri

PLAN OF SITE AND INFRARED ANOMALIES

Project Number 2498.03.4120.05

PLATE 3


N0
N100
N200
N300
N400
E0
E100
E200
E300
E340
WILSON AVENUE
INTERSTATE HIGHWAY 44
Existing Building
Asphalt
Fence
Conc. Walk
Parking Area
Curb
Walk
Survey Boundary
1
2
3
4
5
6
7
8
9
10
11
12
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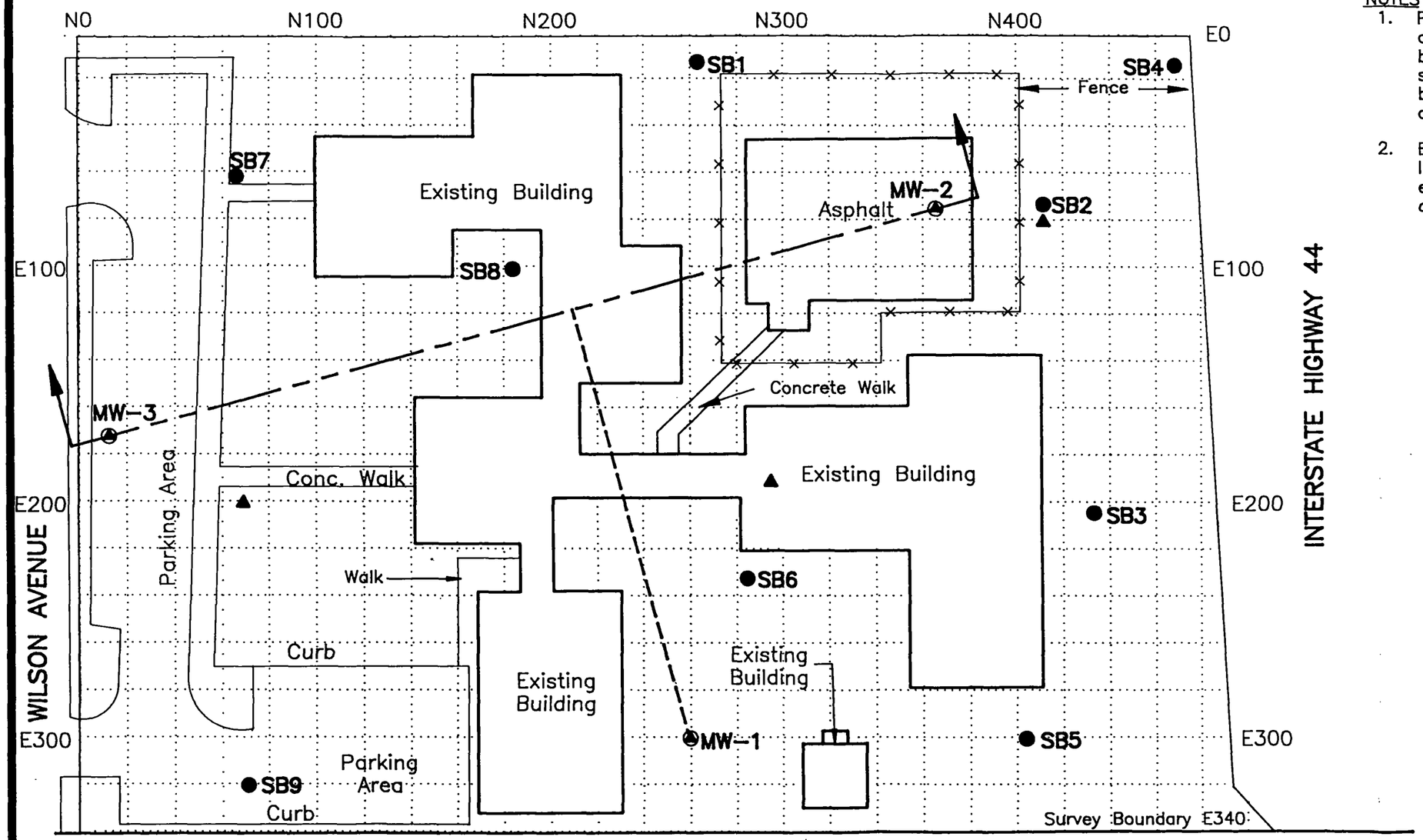
39
40
NOTES
1. Plan adapted from an undated drawing titled "Site Plan", prepared by Murphy Vogt & Stokes, Inc., supplied by the client and modified based on field reconnaissance by a representative of Geotechnology, Inc.
2. Features shown approximate only.
LEGEND
Semi-Volatile Organics Detected Above MDOH ASL in Surface Soil Composite Samples Collected May 1995
Semi-Volatile Organics and Total Lead Detected Above MDOH ASL in Surface Soil Composite Samples Collected May 1995
Semi-Volatile Organics Detected Above MDOH ASL in Surface Soil Composite Samples Collected July 1994
0
50
100
SCALE IN FEET
Drawn By: WAH
Date: 8-31-95
Ck'D By: SLB
Date: 9/6/95
App'vd By: EOA
Date: 9/7/95
GEOTECHNOLOGY, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES
SAINT LOUIS • KANSAS CITY
Hubert Wheeler State School
St. Louis, Missouri
PLAN OF SITE AND SURFACE SOIL COMPOSITE SAMPLE LOCATIONS
Project Number
2498.03.4120.01
PLATE 4



NOTES

1. Plan adapted from an undated drawing titled "Site Plan", prepared by Murphy Vogt & Stokes, Inc., supplied by the client and modified based on field reconnaissance by a representative of Geotechnology, Inc.
2. Borings and monitoring well were located in the field with reference to existing site features and are shown approximate only.

LEGEND

- ● Boring Locations
- ◉ Monitoring Well Locations
- ▲ Air Sampling Locations

0 50 100
SCALE IN FEET

Drawn By: WAH	Ck'D By: SCB	App'vd By: EDA
Date: 8-31-95	Date: 9/6/95	Date: 9/7/95

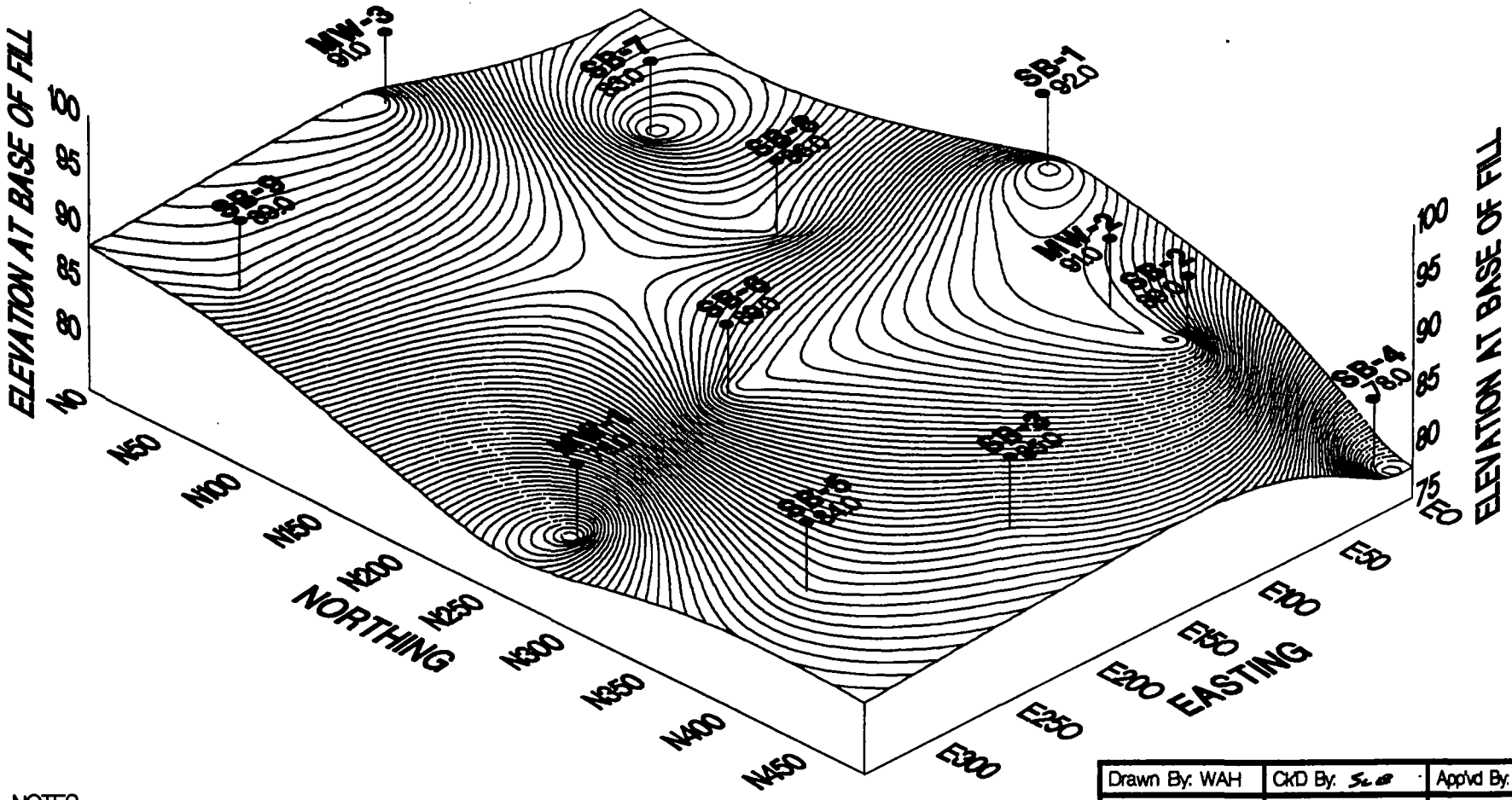
GEOTECHNOLOGY, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES
SAINT LOUIS • KANSAS CITY

Hubert Wheeler State School
St. Louis, Missouri

PLAN OF SITE, AIR SAMPLING, BORING, AND MONITORING WELL LOCATIONS

Project Number 2498.03.4120.05

PLATE 5



NOTES

1. The base of fill was not identified in Soil Borings SB–2, SB–3, SB–4, SB–5, and SB–6 due to poor sample recovery. Depths shown are minimum values from boring data. Actual depths to base may be greater. View is from the Northeast

2. The site datum was taken as the southwest corner of sewer inlet located north of the asphalt play area and is assumed to be elevation 100.0. Surface elevations of the soil borings are inferred from a drawing titled "Site Plan", prepared by Murphy Vogt & Stokes, Inc, and supplied by the client.

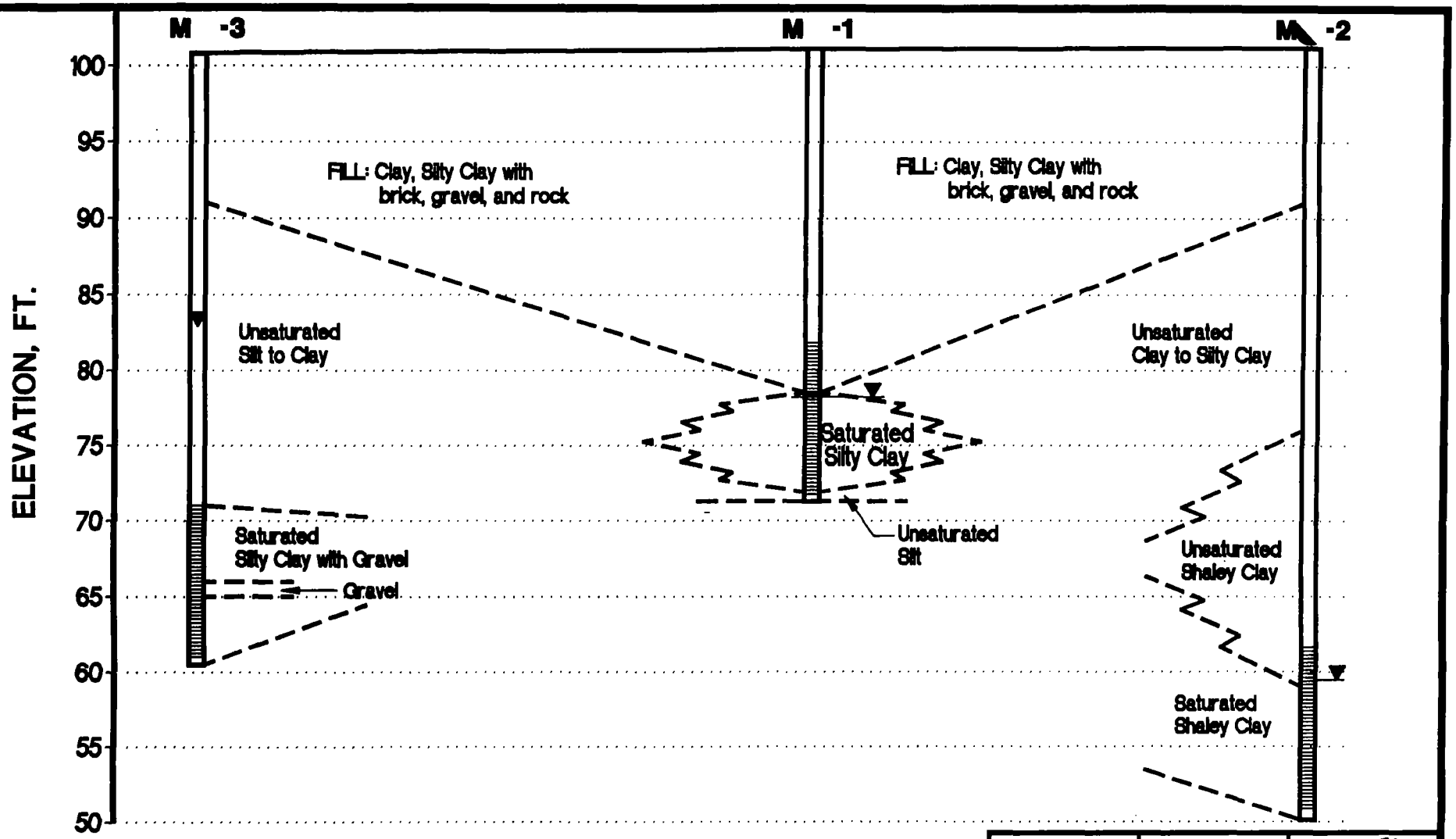
Drawn By: WAH	CkD By: SLB	App'vd By: EMA
Date: 8–31–95	Date: 9/6/95	Date: 9/7/95

GEOTECHNOLOGY, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES
SAINT LOUIS • KANSAS CITY

Hubert Wheeler State School
St. Louis, Missouri

3-D SURFACE PLOT OF BASE OF FILL

Project Number 2498.03.4120.05	PLATE 6



NOTES
1. Location of Cross Section shown on PLATE 5.

LEGEND
Groundwater Elevation at Well Location on September 1, 1995

0 50 100
HORIZONTAL SCALE IN FEET

HORIZONTAL SCALE 1" = 50'
VERTICAL SCALE 1" = 10'

Drawn By: WAH	CkD By: SCB	App'vd By: EMA
Date: 8-28-95	Date: 8/6/95	Date: 9/7/95

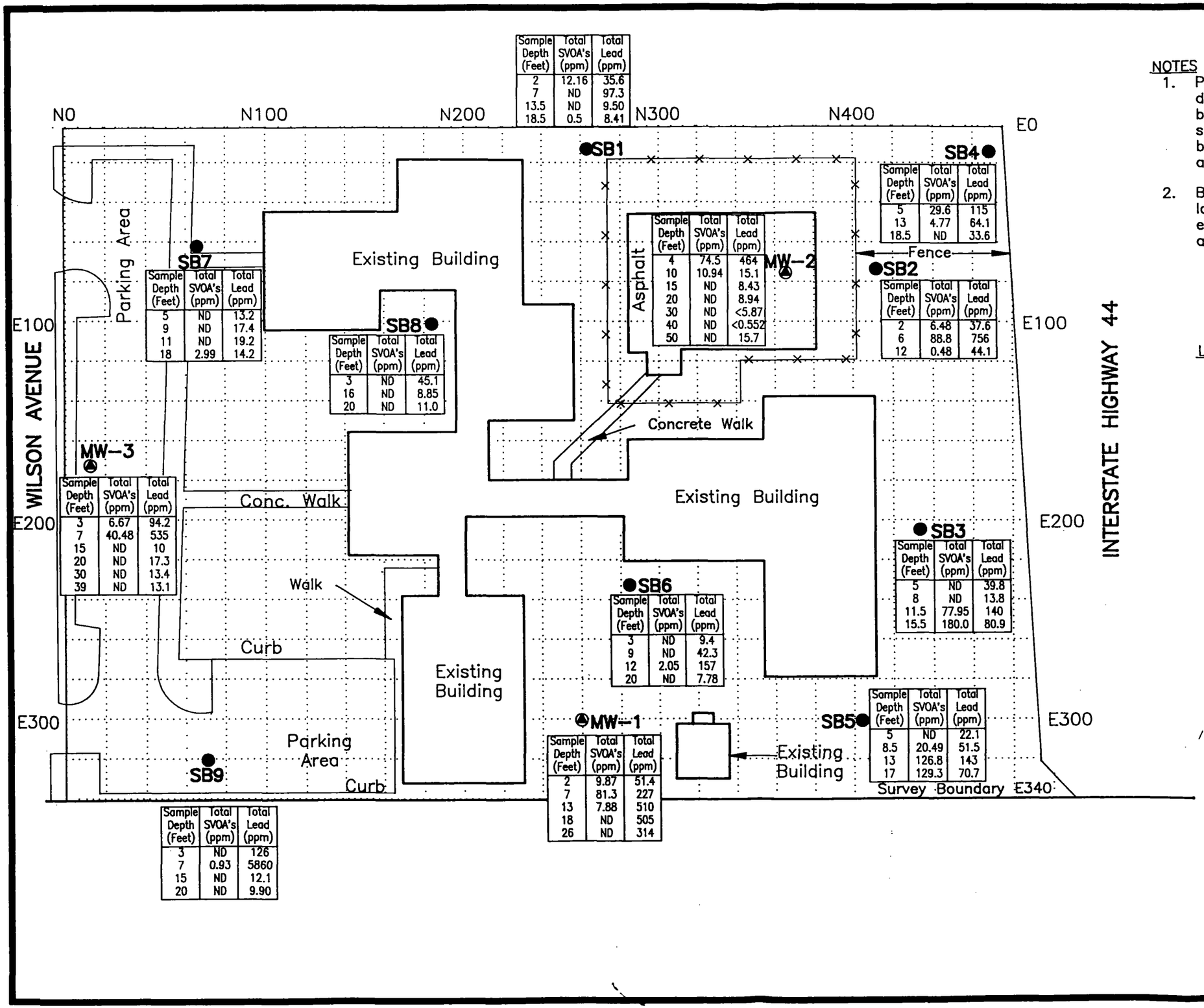
GEOTECHNOLOGY, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES
SAINT LOUIS • KANSAS CITY • INDIANAPOLIS

Hubert Wheeler State School
St. Louis, Missouri

HYDROGEOLOGIC CROSS SECTION

Project Number 2498.03.4120.05

PLATE 7



Sample Depth (Feet)	Total SVOA's (ppm)	Total Lead (ppm)
2	12.16	35.6
7	ND	97.3
13.5	ND	9.50
18.5	0.5	8.41

Sample Depth (Feet)	Total SVOA's (ppm)	Total Lead (ppm)
5	29.6	115
13	4.77	64.1
18.5	ND	33.6

Sample Depth (Feet)	Total SVOA's (ppm)	Total Lead (ppm)
4	74.5	464
10	10.94	15.1
15	ND	8.43
20	ND	8.94
30	ND	<5.87
40	ND	<0.552
50	ND	15.7

Sample Depth (Feet)	Total SVOA's (ppm)	Total Lead (ppm)
2	6.48	37.6
6	88.8	756
12	0.48	44.1

Sample Depth (Feet)	Total SVOA's (ppm)	Total Lead (ppm)
5	ND	13.2
9	ND	17.4
11	ND	19.2
18	2.99	14.2

Sample Depth (Feet)	Total SVOA's (ppm)	Total Lead (ppm)
3	ND	45.1
16	ND	8.85
20	ND	11.0

Sample Depth (Feet)	Total SVOA's (ppm)	Total Lead (ppm)
3	6.67	94.2
7	40.48	535
15	ND	10
20	ND	17.3
30	ND	13.4
39	ND	13.1

Sample Depth (Feet)	Total SVOA's (ppm)	Total Lead (ppm)
5	ND	39.8
8	ND	13.8
11.5	77.95	140
15.5	180.0	80.9

Sample Depth (Feet)	Total SVOA's (ppm)	Total Lead (ppm)
3	ND	9.4
9	ND	42.3
12	2.05	157
20	ND	7.78

Sample Depth (Feet)	Total SVOA's (ppm)	Total Lead (ppm)
5	ND	22.1
8.5	20.49	51.5
13	126.8	143
17	129.3	70.7

Sample Depth (Feet)	Total SVOA's (ppm)	Total Lead (ppm)
2	9.87	51.4
7	81.3	227
13	7.88	510
18	ND	505
26	ND	314

Sample Depth (Feet)	Total SVOA's (ppm)	Total Lead (ppm)
3	ND	126
7	0.93	5860
15	ND	12.1
20	ND	9.90

NOTES

1. Plan adapted from an undated drawing titled "Site Plan", prepared by Murphy Vogt & Stokes, Inc., supplied by the client and modified based on field reconnaissance by a representative of Geotechnology, Inc.
2. Borings and monitoring well were located in the field with reference to existing site features and are shown approximate only.

LEGEND

- ● Boring Locations
- ◭ Monitoring Well Locations

Drawn By: WAH	Ck'D By: SCB	App'vd By: EOA
Date: 8-31-95	Date: 9/6/95	Date: 9/7/95

GEOTECHNOLOGY, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES
SAINT LOUIS • KANSAS CITY

Hubert Wheeler State School
St. Louis, Missouri

PLAN OF SITE AND SUBSURFACE SOIL TOTAL SVOA'S AND TOTAL LEAD CONCENTRATIONS

Project Number 2498.03.4120.05

PLATE 8

APPENDIX A

INFRARED THERMOGRAPHIC SURVEY REPORT

ELECTRIC POWER SYSTEMS ELECTRICAL TESTING & ENGINEERING

8 Worthington Drive • Maryland Heights, Missouri 63043 • Phone 314/469-6771 • Fax 314/469-0115

INFRARED THERMOGRAPHIC INSPECTION

OF THE

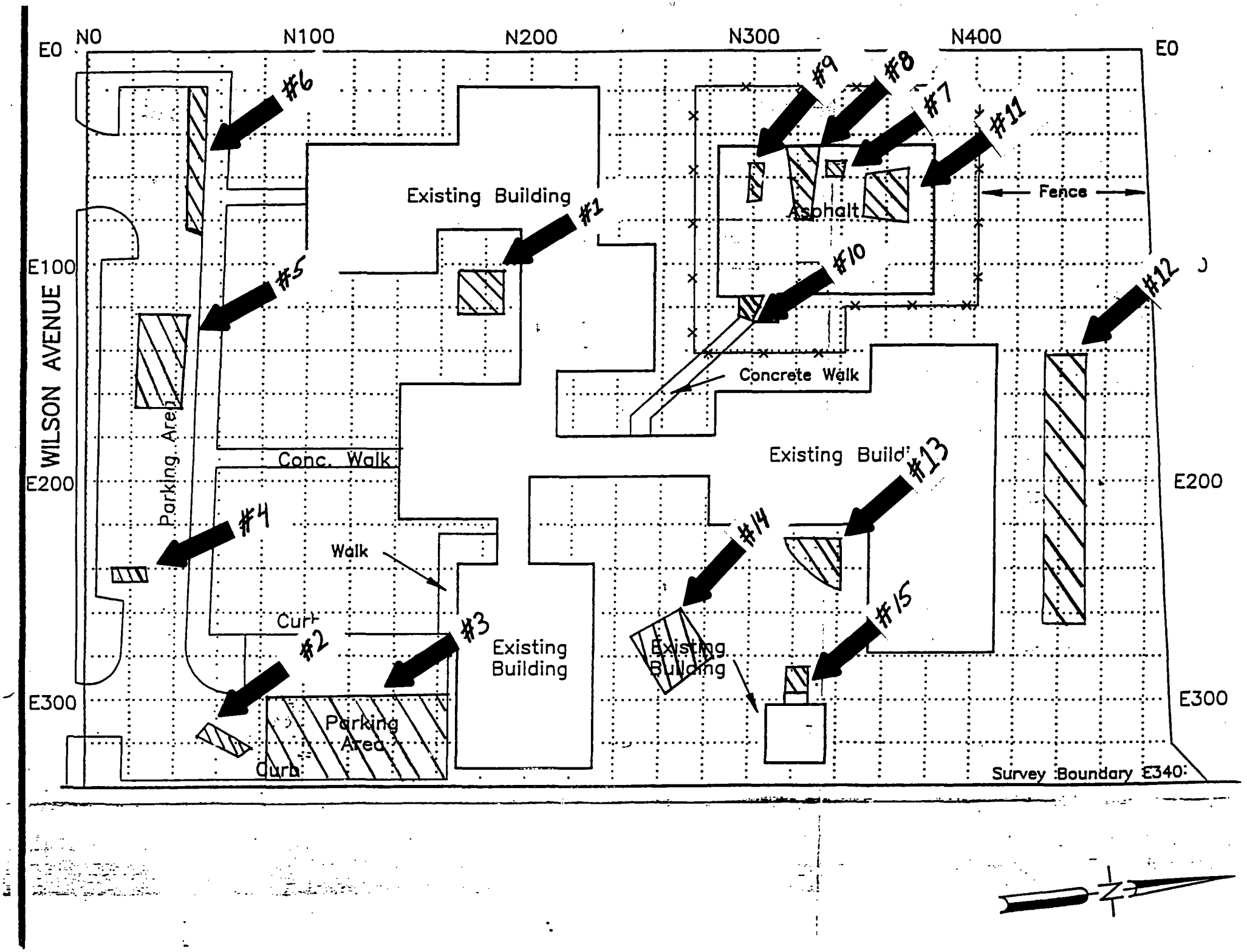
HUBERT WHEELER SCHOOL

FOR

GEOTECHNOLOGY

JUNE 1995

PREPARED BY: ELECTRIC POWER SYSTEM
ST. LOUIS, MISSOURI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Existing Building
Asphalt
Fence
Concrete Walk
Conc. Walk
Parking Area
Walk
Curb
Existing Building
Existing Building
Existing Build
Parking Area
Curb
Survey Boundary E340
#1
#2
#3
#4
#5
#6
#7
#8
#9
#10
#11
#12
#13
#14
#15

I. SCOPE

Perform a complete Thermographic Inspection to locate sub-surface anomalies located at the Hubert Wheeler School St. Louis, Missouri. The purpose of the inspection was to locate and classify sub-surface anomalies that could include Hydro-carbon contamination, buried drums, voids, poor sub-grade, and/or deteriorating back fill.

II. PROCEDURE

During the period of June 17th - June 30th 1995 Electric Power Systems conducted an Infrared Thermographic investigation to locate sub-surface anomalies located on the property of the Hubert Wheeler School located in St. Louis, Missouri.

The purpose of the investigation was to locate and classify sub-surface anomalies that could include hydro-carbon contamination, buried drums, voids, poor subgrade, and/or deteriorating back fill.

The Infrared Thermographic Survey was conducted on a fixed site location at various times of the day to determine the optimum scanning time. Scanning originated from two different vehicles Electric Power Systems Infrared Thermographic survey vehicle and a boom truck with a 50' extension to enhance resolution.

All anomalies detected were catalogued and recorded on digital computer disc in color format using the Agema Shot Wave Infrared System. At all times thermal resolution was maintained at a minimum of .1°C. Emmissivity and ambient air temperature were adjusted accordingly during the data collection process.

III. DEFINITIONS

ELECTRIC POWER SYSTEMS - DEFINITION

SAMPLE INSPECTION DATA IMAGE

Electric Power Systems uses a high resolution infrared imaging system that produces quality digital images for a variety of testing and inspection applications. The example infrared digital image display's all necessary information for system calibration and inspection data. Data is exhibited on the right side of the infrared image. The cross-hair on the image depicts the area of concern, the corresponding absolute temperature of the defect is displayed on the top line of the data column (ISO,SPO, or PRO).

Additional information such as minimum/maximum temperature ranges, ambient temperature conditions, sensitivity settings, emmissivity values, color scale, image number, date and time of inspection are also recorded. This provides valuable base data for future inspections. An additional feature is the temperature profile shown on the image. This allows a convenient referencing tool to compare thermal values within the image.

IV. INSPECTION SUMMARY

INSPECTION SUMMARY

OF

THE HUBERT WHEELER SCHOOL

The Infrared Images shown in the **REPORT DATA** section are summarized by the following comments

SECTION I

Anomalies #2,#3,#4,#5,#6 located in the front parking area represent thermal characteristics indicative to the deterioration of the asphalt surface and changes in the soil density beneath the surface. These items are represented by the cooler or darker areas in the picture.

SECTION II

Anomalies #7,#8,#9,#11 located on the asphalt and Anomaly #10 located on the concrete sidewalk in the recreation area on the north west corner of the school grounds represent thermal characteristics indicative of sub- surface disturbances. These abnormal thermal patterns indicate non-homogeneous materials and changes in soil densities. They are represented by the warmer or lighter areas in the picture.

SECTION III

Anomalies #1,#12,#13,#14 located throughout the remaining grounds of the school represent thermal characteristics indicative of sub-surface disturbances. These items are located in areas that consisted of grass covered soil. The abnormal thermal patterns indicated non-homogeneous materials and changes in the soil density. The foliage did not affect the results of the investigation.

SECTION IV

Anomaly #15 located in the eastern area of the playground in front of the maintenance shack exhibited an oily tar like substance on the surface, and an abnormal thermal pattern beneath the surface.

V. REPORT DATA

SECTION I

SUMMARY OF ANOMALIES

All problems have a corresponding data page which includes infrared images. All grid#'s represent southern most point.

#1 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #2
AREA: FRONT PARKING AREA
GRID#: E320-N60
DESCRIPTION: SURFACE DETERIORATION OF THE ASPHALT / SUB-SURFACE CHANGES IN THE SOIL DENSITY THESE ITEMS ARE REPRESENTED BY THE COOLER OR DARKER AREAS

#2 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #3
AREA: FRONT PARKING AREA
GRID#: E300-N80
DESCRIPTION: SURFACE DETERIORATION OF THE ASPHALT / SUB-SURFACE CHANGES IN THE SOIL DENSITY THESE ITEMS ARE REPRESENTED BY THE COOLER OR DARKER AREAS

#3 DATA PAGE

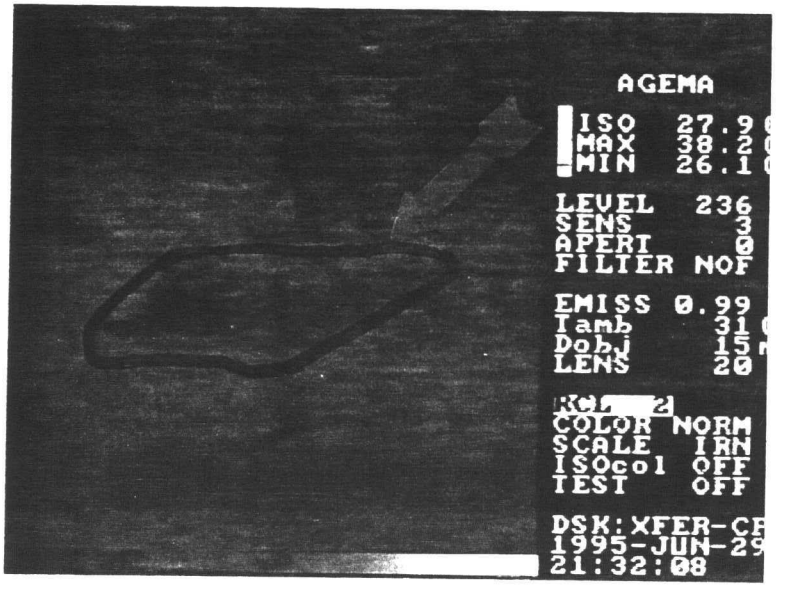
LOCATION: HUBERT WHEELER **ANOMALY** #4
AREA: FRONT PARKING AREA
GRID#: E240-N10
DESCRIPTION: SURFACE DETERIORATION OF THE ASPHALT / SUB-SURFACE CHANGES IN THE SOIL DENSITY THESE ITEMS ARE REPRESENTED BY THE COOLER OR DARKER AREAS

#4 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #5
AREA: FRONT PARKING AREA
GRID#: E170-N10
DESCRIPTION: SURFACE DETERIORATION OF THE ASPHALT / SUB-SURFACE CHANGES IN THE SOIL DENSITY THESE ITEMS ARE REPRESENTED BY THE COOLER OR DARKER AREAS

#5 DATA PAGE

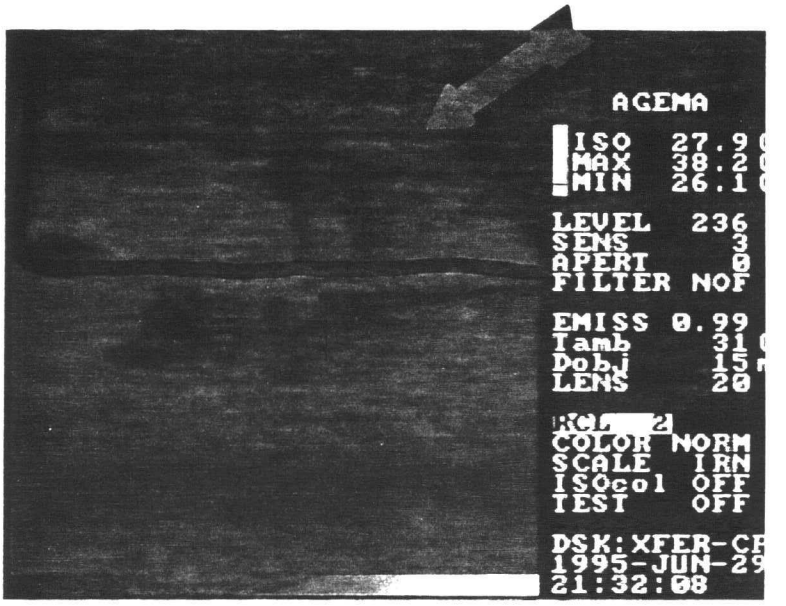
LOCATION: HUBERT WHEELER **ANOMALY** #6
AREA: FRONT PARKING AREA
GRID#: E80-N50
DESCRIPTION: SURFACE DETERIORATION OF THE ASPHALT / SUB-SURFACE CHANGES IN THE SOIL DENSITY



REPORT DATA IMAGE

#1 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #2
AREA: FRONT PARKING AREA
GRID#: E320-N60
DESCRIPTION: SURFACE DETERIORATION OF THE ASPHALT / SUB-SURFACE CHANGES IN THE SOIL DENSITY THESE ITEMS ARE REPRESENTED BY THE COOLER OR DARKER AREAS



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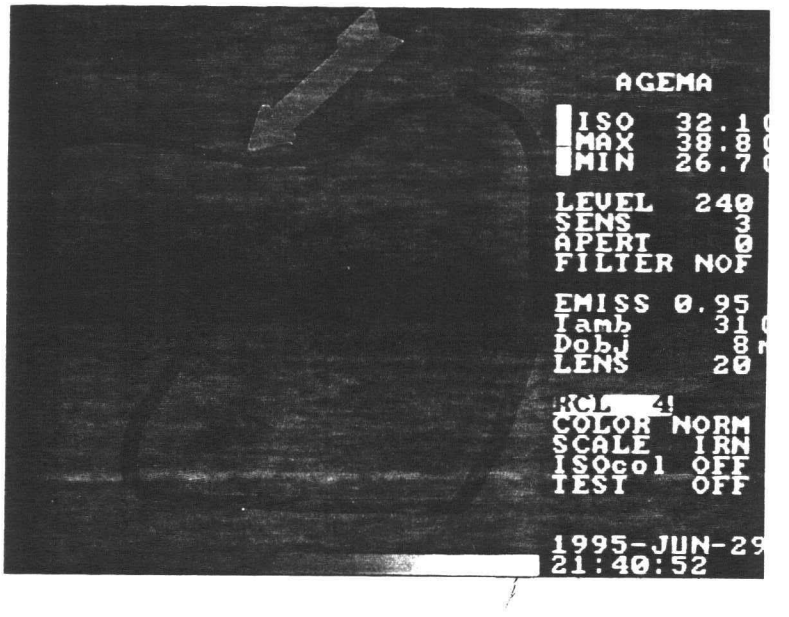
LOCATION: HUBERT WHEELER **ANOMALY** #3
AREA: FRONT PARKING AREA
GRID#: E300-N80
DESCRIPTION: SURFACE DETERIORATION OF THE ASPHALT / SUB-SURFACE CHANGES IN THE SOIL DENSITY THESE ITEMS ARE REPRESENTED BY THE COOLER OR DARKER AREAS

REPORT DATA IMAGE

#3 DATA PAGE

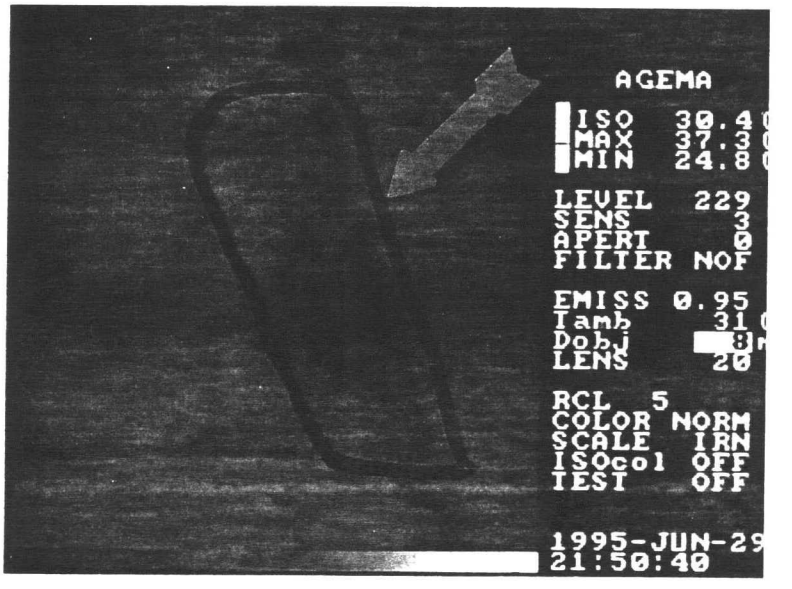
LOCATION: HUBERT WHEELER **ANOMALY** #4
AREA: FRONT PARKING AREA
GRID#: E240-N10
DESCRIPTION: SURFACE DETERIORATION OF THE ASPHALT / SUB-SURFACE CHANGES IN THE SOIL DENSITY THESE ITEMS ARE REPRESENTED BY THE COOLER OR DARKER AREAS



REPORT DATA IMAGE

#4 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #5
AREA: FRONT PARKING AREA
GRID#: E170-N10
DESCRIPTION: SURFACE DETERIORATION OF THE ASPHALT / SUB-SURFACE CHANGES IN THE SOIL DENSITY THESE ITEMS ARE REPRESENTED BY THE COOLER OR DARKER AREAS



REPORT DATA IMAGE

#5 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #6
AREA: FRONT PARKING AREA
GRID#: E80-N50
DESCRIPTION: SURFACE DETERIORATION OF THE ASPHALT / SUB-SURFACE CHANGES IN THE SOIL DENSITY

SUMMARY - SECTION II

SECTION II

SUMMARY OF ANOMALIES

All problems have a corresponding data page which includes infrared images. All grid#'s represent southern most point.

#1 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #7
AREA: ASPHALT RECREATION AREA
GRID#: E60-N335
DESCRIPTION: THESE ABNORMAL THERMAL PATTERNS INDICATE NON-HOMOGENEOUS MATERIALS AND CHANGES IN SOIL DENSITIES. THEY ARE REPRESENTED BY THE WARMER OR LIGHTER AREAS IN THE PICTURE

#2 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #8
AREA: ASPHALT RECREATION AREA
GRID#: E80-N310
DESCRIPTION: THESE ABNORMAL THERMAL PATTERNS INDICATE NON-HOMOGENEOUS MATERIALS AND CHANGES IN SOIL DENSITIES. THEY ARE REPRESENTED BY THE WARMER OR LIGHTER AREAS IN THE PICTURE

#3 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #9
AREA: ASPHALT RECREATION AREA
GRID#: E70-N290
DESCRIPTION: THESE ABNORMAL THERMAL PATTERNS INDICATE NON-HOMOGENEOUS MATERIALS AND CHANGES IN SOIL DENSITIES. THEY ARE REPRESENTED BY THE WARMER OR LIGHTER AREAS IN THE PICTURE

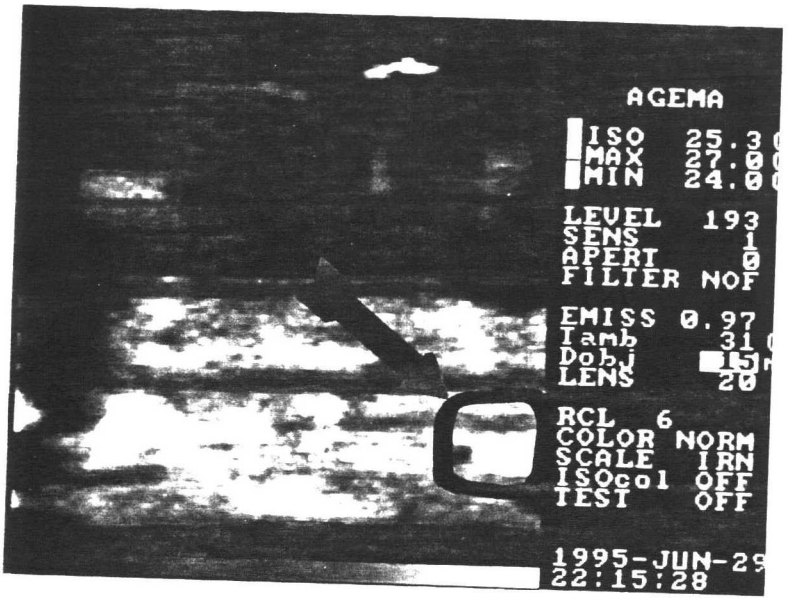
#4 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #10
AREA: ASPHALT RECREATION AREA
GRID#: E110-N290
DESCRIPTION: THESE ABNORMAL THERMAL PATTERNS INDICATE NON-HOMOGENEOUS MATERIALS AND CHANGES IN SOIL DENSITIES. THEY ARE REPRESENTED BY THE WARMER OR LIGHTER AREAS IN THE PICTURE

#5 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #11
AREA: ASPHALT RECREATION AREA
GRID#: E80-N250
DESCRIPTION: THESE ABNORMAL THERMAL PATTERNS INDICATE NON-HOMOGENEOUS MATERIALS AND CHANGES IN SOIL DENSITIES. THEY ARE REPRESENTED BY THE WARMER OR LIGHTER AREAS IN THE PICTURE

REPORT DATA - SECTION II



REPORT DATA IMAGE

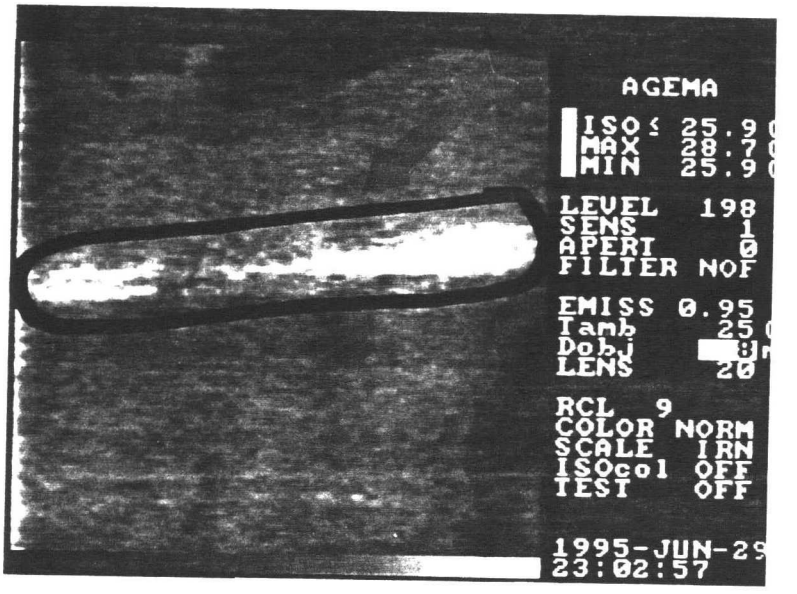
#1 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #7
AREA: ASPHALT RECREATION AREA
GRID#: E60-N335
DESCRIPTION: THESE ABNORMAL THERMAL PATTERNS INDICATE NON-HOMOGENEOUS MATERIALS AND CHANGES IN SOIL DENSITIES. THEY ARE REPRESENTED BY THE WARMER OR LIGHTER AREAS IN THE PICTURE

REPORT DATA IMAGE

#2 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #8
AREA: ASPHALT RECREATION AREA
GRID#: E80-N310
DESCRIPTION: THESE ABNORMAL THERMAL PATTERNS INDICATE NON-HOMOGENEOUS MATERIALS AND CHANGES IN SOIL DENSITIES. THEY ARE REPRESENTED BY THE WARMER OR LIGHTER AREAS IN THE PICTURE



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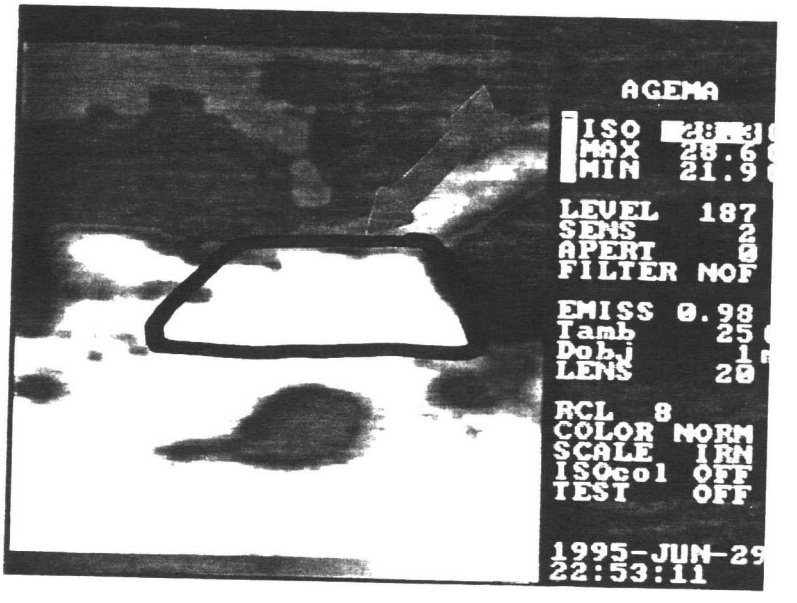
#3 DATA PAGE

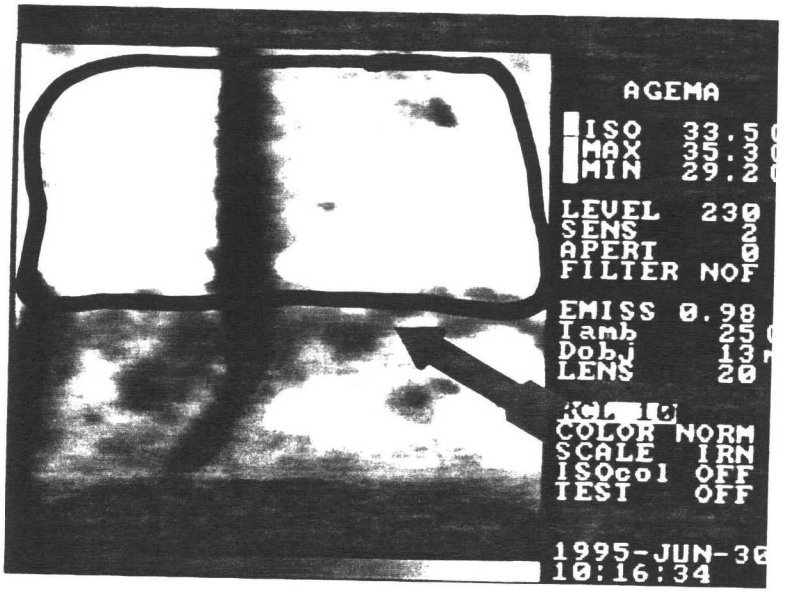
LOCATION: HUBERT WHEELER **ANOMALY** #9
AREA: ASPHALT RECREATION AREA
GRID#: E70-N290
DESCRIPTION: THESE ABNORMAL THERMAL PATTERNS INDICATE NON-HOMOGENEOUS MATERIALS AND CHANGES IN SOIL DENSITIES. THEY ARE REPRESENTED BY THE WARMER OR LIGHTER AREAS IN THE PICTURE



REPORT DATA IMAGE

#4 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #10
AREA: ASPHALT RECREATION AREA
GRID#: E110-N290
DESCRIPTION: THESE ABNORMAL THERMAL PATTERNS INDICATE NON-HOMOGENEOUS MATERIALS AND CHANGES IN SOIL DENSITIES. THEY ARE REPRESENTED BY THE WARMER OR LIGHTER AREAS IN THE PICTURE



REPORT DATA IMAGE

#5 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #11
AREA: ASPHALT RECREATION AREA
GRID#: E80-N250
DESCRIPTION: THESE ABNORMAL THERMAL PATTERNS INDICATE NON-HOMOGENEOUS MATERIALS AND CHANGES IN SOIL DENSITIES. THEY ARE REPRESENTED BY THE WARMER OR LIGHTER AREAS IN THE PICTURE

SUMMARY - SECTION III

SECTION III

SUMMARY OF ANOMALIES

All problems have a corresponding data page which includes infrared images. All grid#'s represent southern most point.

#1 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #1
AREA: FRONT COURTYARD
GRID#: E110-N170
DESCRIPTION: THESE ABNORMAL THERMAL PATTERNS INDICATE NON-HOMOGENEOUS MATERIALS AND CHANGES IN SOIL DENSITIES.

#2 DATA PAGE

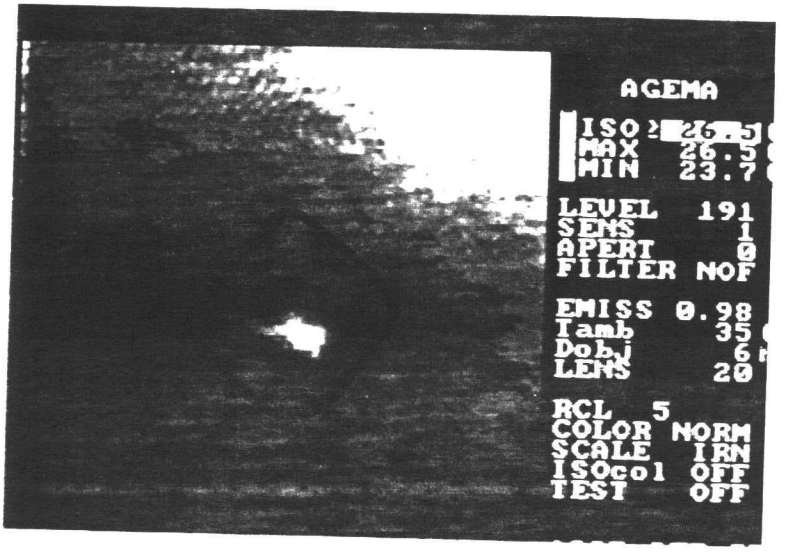
LOCATION: HUBERT WHEELER **ANOMALY** #12
AREA: NORTH-EAST AREA OF SCHOOL GROUNDS
GRID#: E265-N430
DESCRIPTION: THESE ABNORMAL THERMAL PATTERNS INDICATE NON-HOMOGENEOUS MATERIALS AND CHANGES IN SOIL DENSITIES.

#3 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #13
AREA: NORTH-WEST CORNER OF PLAYGROUND
GRID#: E230-N315
DESCRIPTION: THESE ABNORMAL THERMAL PATTERNS INDICATE NON-HOMOGENEOUS MATERIALS AND CHANGES IN SOIL DENSITIES.

#4 DATA PAGE

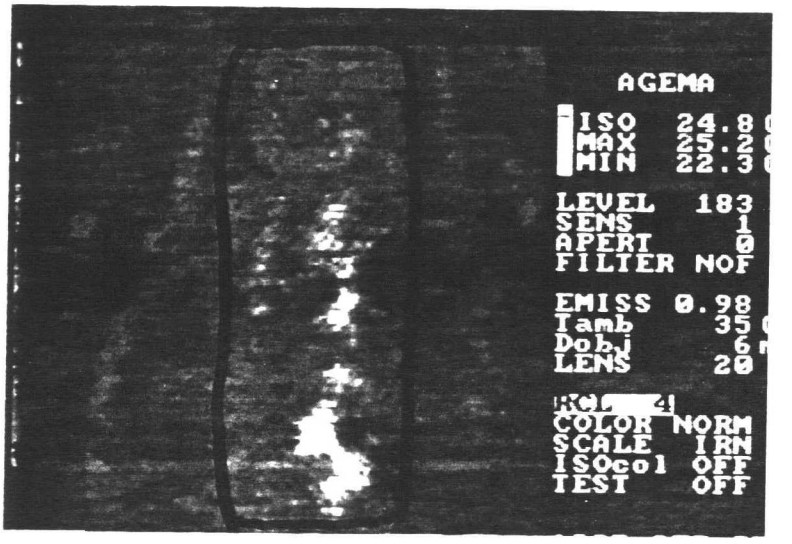
LOCATION: HUBERT WHEELER **ANOMALY** #14
AREA: SOUTH-EAST AREA OF PLAYGROUND
GRID#: E300-N260
DESCRIPTION: THESE ABNORMAL THERMAL PATTERNS INDICATE NON-HOMOGENEOUS MATERIALS AND CHANGES IN SOIL DENSITIES.



REPORT DATA IMAGE

#1 DATA PAGE

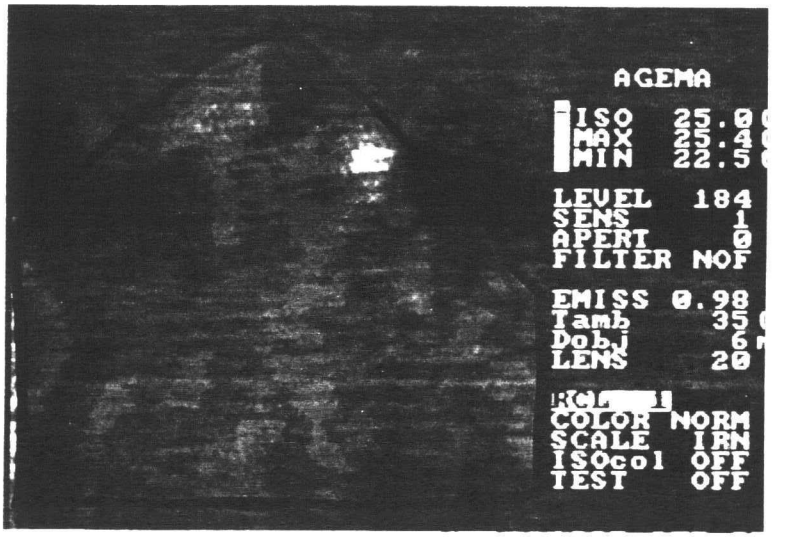
LOCATION: HUBERT WHEELER **ANOMALY** #1
AREA: FRONT COURTYARD
GRID#: E110-N170
DESCRIPTION: THESE ABNORMAL THERMAL PATTERNS INDICATE NON-HOMOGENEOUS MATERIALS AND CHANGES IN SOIL DENSITIES.



REPORT DATA IMAGE

#2 DATA PAGE

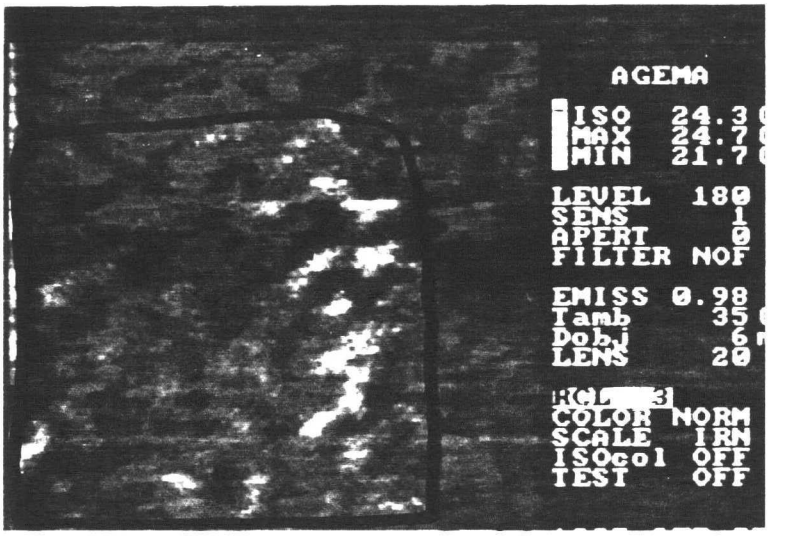
LOCATION: HUBERT WHEELER **ANOMALY** #12
AREA: NORTH-EAST AREA OF SCHOOL GROUNDS
GRID#: E265-N430
DESCRIPTION: THESE ABNORMAL THERMAL PATTERNS INDICATE NON-HOMOGENEOUS MATERIALS AND CHANGES IN SOIL DENSITIES.



REPORT DATA IMAGE

#3 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #13
AREA: NORTH-WEST CORNER OF PLAYGROUND
GRID#: E230-N315
DESCRIPTION: THESE ABNORMAL THERMAL PATTERNS INDICATE NON-HOMOGENEOUS MATERIALS AND CHANGES IN SOIL DENSITIES.



REPORT DATA IMAGE

#4 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #14
AREA: SOUTH-EAST AREA OF PLAYGROUND
GRID#: E300-N260
DESCRIPTION: THESE ABNORMAL THERMAL PATTERNS INDICATE NON-HOMOGENEOUS MATERIALS AND CHANGES IN SOIL DENSITIES.

SUMMARY - SECTION IV

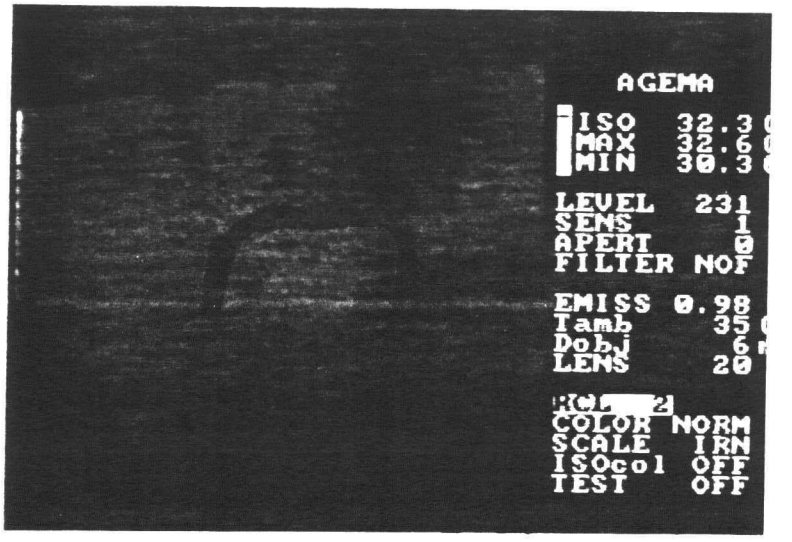
SECTION IV

SUMMARY OF ANOMALIES

All problems have a corresponding data page which includes infrared images. All grid#'s represent southern most point.

#1 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #15
AREA: EAST AREA OF PLAYGROUND
GRID#: E300-N320
DESCRIPTION: DISPLAYED AN OILY TAR LIKE SUBSTANCE ON THE SURFACE AND ABNORMAL THERMAL CHARACTERISTICS INDICATIVE OF SUB-SURFACE DISTURBANCES



REPORT DATA IMAGE

#1 DATA PAGE

LOCATION: HUBERT WHEELER **ANOMALY** #15
AREA: EAST AREA OF PLAYGROUND
GRID#: E300-N320
DESCRIPTION: DISPLAYED AN OILY TAR LIKE SUBSTANCE ON THE SURFACE AND ABNORMAL THERMAL CHARACTERISTICS INDICATIVE OF SUB-SURFACE DISTURBANCES

APPENDIX B

AIR/DUST MONITORING REPORT

Microscopic Analysis, Inc.

941 GARDENVIEW OFFICE PARKWAY
ST. LOUIS, MISSOURI 63141
(314) 993-2212

September 1, 1995

Mr. Sam L. Brenneke
Senior Scientist
Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Missouri 63146-3309

Dear Mr. Brenneke:

Attached is our final report of the environmental monitoring at the State School For The Severely Handicapped located at 5715 Wilson Avenue, St. Louis, Missouri.

Should you have any questions please call.

Sincerely,

Douglas N. Nimmo
Certified Industrial Hygienist

DNN/jn

attachment

REPORT OF ENVIRONMENTAL MONITORING
AT THE HUBERT WHEELER STATE SCHOOL FOR THE SEVERELY HANDICAPPED
5715 WILSON AVENUE, ST. LOUIS, MISSOURI
July 13 and 14, 1995

BACKGROUND

Soil samples collected from the playground area of the Hubert Wheeler School indicate that the soil contains semi-volatile organic compounds (PNA's) that exceed the Missouri Department of Health's Any Use Soil Level for residential sites. Fill soil contaminated with foundry/coke oven waste products was used during the construction of the school. To assess student and staff's potential for exposure to Volatile Organic Compounds (VOC) and PNA's from the fill, bulk and air samples were collected for VOC and PNA analysis. In addition to PNA's, lead was also found in soil samples collected at the site. Initial monitoring conducted September 29 and October 11, 1995, at the school consisted of the collection of dust samples from return air filters in the Heating Ventilation and Air Conditioning (HVAC) systems. An additional dust sample was collected from the carpet in classroom 18. These samples indicated that PNA's and lead were present in the air of the school (See Table I). However, only the qualitative presence of PNA's and lead could be demonstrated with these samples and quantification of historic PNA and lead exposure was not possible. The VOC air sample inside the school indicated that VOC's were less than levels of concern (See Table II).

A second survey was conducted on July 13 and 14, 1995. During this survey high volume air samples were collected inside and outside the building. These samples were collected to determine airborne PNA's, lead, and total dust. The sampling was directed by Douglas N. Nimmo, a Certified Industrial Hygienist.

SURVEY PROTOCOL AND RATIONALE

PNA

Samples for PNA's were collected using Staplex High Volume Air Samplers. The sampling units were calibrated at the start of monitoring and calibration was monitored throughout the sampling period. The sampling media was Supelco 65 mm X 75 mm Poly Urethane Filters (PUF). The sample flow rates were between 25 and 32 standard cubic feet per minute (scfm).

The samples were forwarded to an American Industrial Hygiene Association accredited laboratory for analysis by the EPA method TO-13. The analysis was performed using a high pressure liquid chromatograph equipped with fluorescence and UV absorption detectors. The compounds were separated using a Supelco LC-PAH column that was eluted with an Acetonitrile/water gradient.

LEAD / TOTAL WEIGHT

The lead and total weight samples were collected using Gast High Volume Air Samplers. The pumps were calibrated to a flow rate of approximately 20 liters per minute. Calibration was checked periodically during the sampling period. Sampling media was matched weight 37 mm PVC filters.

Total weight was determined in accordance with the National Institute of Safety and Health (NIOSH) method 0500. Lead samples were prepared and analyzed in accordance with NIOSH method 7300 using a Perkin Elmer 3000XL (CP) purged spectrometer.
The results of laboratory analysis are contained in Appendix I.

SAMPLE LOCATIONS

The outside samples were placed upwind and downwind of the asphalt playground. The rationale for this configuration is that the upwind sample (wind was from the south at 5 - 10 mph) would serve as a control sample. That is, if PNA/Lead laden dust is generated from the playground or school yard then the downwind (north side of the school) sample would show higher PNA/Lead values than the upwind sample. See Exhibit I for sample locations.

The central north south hallway in the school was selected as the inside sampling site because it is centrally located in the school and is in close proximity to playground exits.

RESULTS

All three samples collected for PNA's contained measurable quantities of PNA's. The upwind control sample had a total PNA's level of 0.414 micrograms per cubic meter ($\mu g/M^3$) which was greater than the 0.176 $\mu g/M^3$ found on the downwind sample. The sample collected from inside the school indicated a total PNA level of 0.098 $\mu g/M^3$. The results of air samples for PNA's are contained in Table III.

Lead levels from the outside samples were 0.0217 $\mu g/M^3$ for the upwind sample, 0.0215 $\mu g/M^3$ for the downwind sample, and 0.0108 $\mu g/M^3$ for the inside sample (See Table III). These samples are comparable to the first quarter average air lead levels at the St. Louis County's 77 Hunter Avenue sampling station (0.023 $\mu g/M^3$) and the 5962 South Lindbergh sampling station (0.022 $\mu g/M^3$).

The Total Dust levels were 56.3 $\mu g/M^3$ upwind of the school and 53.8 $\mu g/M^3$ downwind of the school. The inside sample was 25.9 $\mu g/M^3$. Table III contains results of Total Dust monitoring.

DISCUSSION

The sources of PNA's are numerous. However, the primary source of PNA's is incomplete combustion. The significant contributing factors to PNA levels in and around the school are exhaust from vehicular traffic, manufacturing facilities, tobacco usage within the school, and possible airborne dust from the soil around the school. However, since the downwind sample was less than the control (upwind sample) it is unlikely that the school yard makes any significant contribution to the current airborne PNA levels at the school.

The air lead levels are consistent with ambient air lead levels within St. Louis county. In all air samples collected the amount of lead as percentage of total dust was approximately 0.04 %. The dust samples that were collected from the air filters in the school also contained approximately 0.04% lead. The lead content of the total dust samples collected from outside the school and dust samples obtained from the HVAC filters inside the school are essentially the same. For this reason it is reasonable to expect that no exposure to airborne lead above background has occurred while the school was occupied.

No current or historical air monitoring data for ambient PNA levels in the St. Louis metropolitan area is available from the City or County of St. Louis or the State of Missouri. This study indicated that the percentage of PNA's present in the HVAC dust is lower than the outside samples (See Table I and III). Due to the semi-volatile nature of the PNA's, some weight may have been lost due to this volatility and would account for the lower PNA percentage in the inside sample. Lead is very stable and no loss of weight would occur over time. Because the

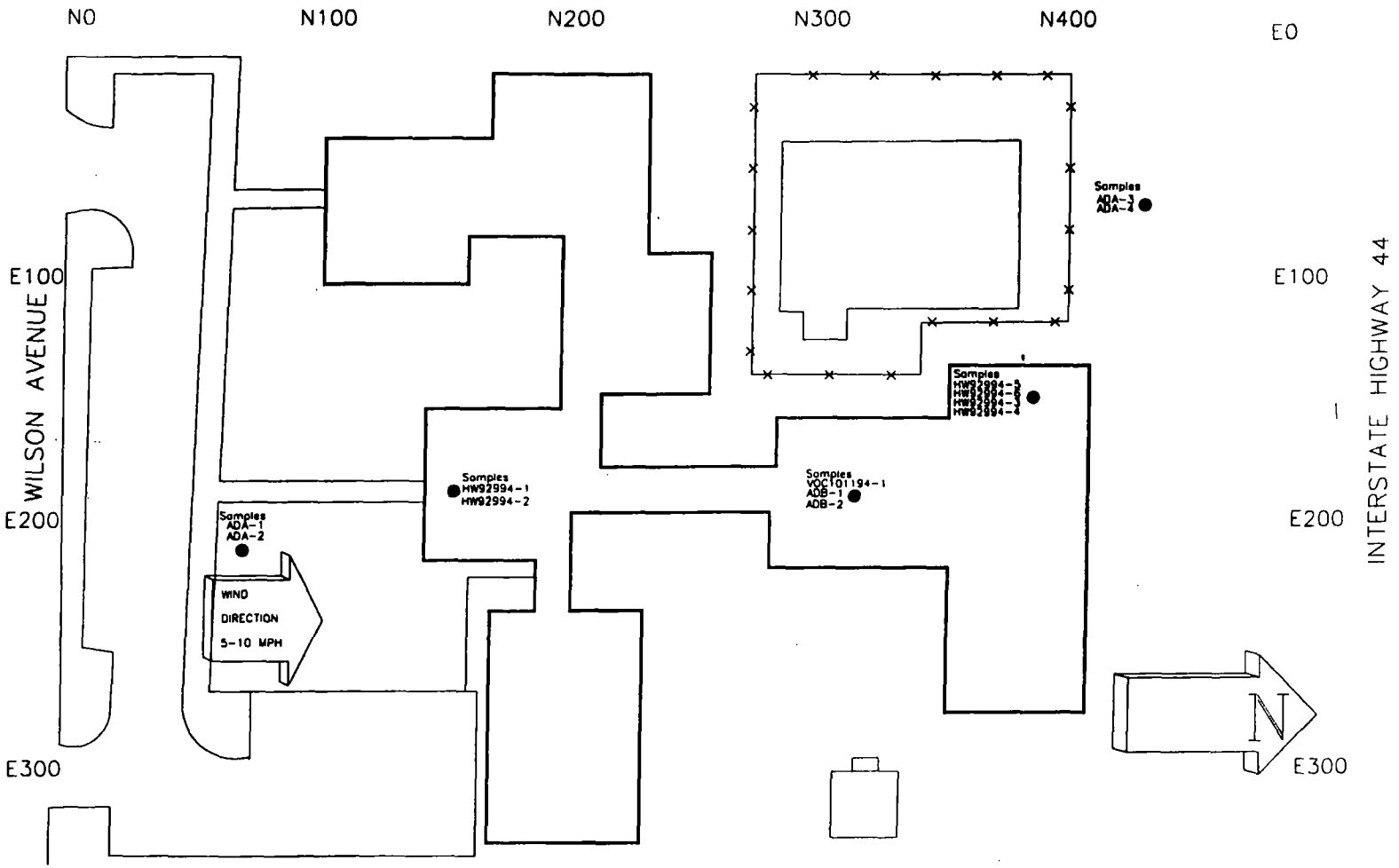
percentage of lead that is present in air and dust samples is constant, we would expect that PNA levels have been constant as well.

CONCLUSIONS

Considering the limited data collected the following conclusions are drawn. No increase in PNA's was found in the downwind sample indicating that the school yard is not contributing to the airborne PNA levels in the school. Lead levels are constant and at the ambient levels for the St. Louis metropolitan area. Based on these findings, historical airborne exposure to PNA's or lead by the staff or students is estimated to have been at ambient levels.

EXHIBIT I

HUBERT WHEELER SCHOOL
Air Sample Locations



TABLES

TABLE I
RESULTS OF DUST SAMPLES FOR PNA's
FROM HVAC AND CARPET OF HUBERT WHEELER SCHOOL
SEPTEMBER 29, 1994

CONTAMINANT	HW92994-1 PNA HW92994-2 Lead in ppm	HW92994-3 PNA HW92994-4 Lead in ppm	HW92994-5 PNA HW92994-6 Lead in ppm	PQL in µg/sample
Naphthalene	ND	ND	ND	0.2
Acenapthylene	ND	ND	ND	2.0
Acenaphthene	ND	ND	ND	1.0
Fluorene	0.5	0.3	ND	0.04
Phenathrene	2.5	1.6	1.2	0.02
Anthracene	ND	ND	ND	0.02
Fluoranthene	2.7	1.0	0.8	0.004
Pyrene	2.9	1.0	0.8	0.002
Benzo (a) Anthracene	1.5	0.2	0.1	0.002
Chrysene	3.1	0.2	0.1	0.002
Benzo (b) Fluoranthene	2.0	0.5	0.3	0.004
Benzo (k) Fluoranthene	1.5	0.2	0.2	0.002
Benzo (a) Pyrene	1.2	0.3	0.1	0.002
Dibenz (a,h) Anthracene	0.8	ND	ND	0.004
Benzo (g,h,i) Perylene	2.7	1.0	ND	0.004
Indeno (1,2,3-cd) Pyrene	5.8	1.6	0.6	0.002
$\sum$ PNA's	27.2	17	4.5	
Sample Weight (g)	0.0598	0.0191	0.0258	
PNA's as % of Tot.Wt.	0.003	0.002	0.0005	
Lead levels in ppm	440	400	190	
Lead as % of total dust	0.04%	0.04%	0.019	

ND indicated below the Practical Quantitation Limit (PQL)

TABLE II
RESULTS OF AIR SAMPLES FOR VOC's
FROM THE HUBERT WHEELER SCHOOL
OCTOBER 11, 1994

VOC	SAMPLE I.D. VOC101194-1 RESULTS IN PPM
Chloromethane	ND
Bromomethane	ND
Vinyl Chloride	ND
Chloroethane	ND
Methylene Chloride	0.177
Acetone	0.193
Carbon Disulfide	ND
Trichlorofluoromethane	ND
1,1-Dichloroethene	ND
1,1-Dichloroethane	ND
Total 1 , 2-Dichloroethene	ND
Chloroform	ND
1,2-Dichloroethane	ND
Iodomethane	ND
2-Butanone	<0.008
1,1,1-Trichloroethane	<0.035
1,1-Dichloropropene	ND
Carbon Tetrachloride	ND
Bromodichloromethane	ND
1,2-Dichloropropane	ND
c,1,3-Dichloropropene	ND
Trichloroethene	<0.0106
Dibrormochloromethane	ND
1,1,2-Trichloroethane	ND
Benzene	<0.0035
t-1,3-Dichloropropene	ND
Bromoform	ND
Dibromomethane	ND
4--Methyl-2-Pentanone	<0.0014
2-Hexanone	ND
Tetrachloroethene	<0.0027
1,1,2,2-Tetrachloroethane	ND
Toluene	<0.0273
Chlorobenzene	ND
Ethyl Benzene	0.0103
Styrene	ND
Xylene (Total)	<0.0103
1,2,3-Trichloropropane	ND
Ethyl-Methacrylate	ND
Dichlorobenzene (Total)	<0.0225

ND indicates not detected in the sample. < indicates detected below the Practical Quantification Limit (PQL).
Sample collected with a portable battery powered pump calibrated to a flow rate of 120 cubic centimeters per minute.
The sample was analyzed using a modified EPA TO-1 method.

TABLE III
RESULTS OF AIR SAMPLES FOR PNA'S AND LEAD
FROM THE HUBERT WHEELER SCHOOL
July 13 and 14, 1995

RESULTS IN $\mu g/M^3$

CONTAMINANT	ADA-1/PNA's ADA-2/LEAD UPWIND OF SCHOOL	ADA-3/PNA's ADA-4/LEAD DOWNWIND OF SCHOOL	ADB-2/PNA's ADB-1/LEAD INSIDE SCHOOL	BLANK	PQL in μg/sample
Naphthalene	ND	ND	ND	ND	0.2
Acenapthylene	ND	ND	ND	ND	0.3
Acenaphthene	ND	ND	ND	ND	0.2
Fluorene	ND	ND	0.01	ND	0.0007
Phenathrene	0.03	0.02	0.06	ND	0.002
Anthracene	ND	ND	ND	ND	0.003
Fluoranthene	0.25	0.10	0.01	ND	0.0007
Pyrene	0.12	0.05	0.006	ND	0.0003
Benzo (a) Anthracene	0.002	0.0008	ND	ND	0.0003
Chrysene	0.008	0.005	0.01	ND	0.0003
Benzo (b) Fluoranthene	0.002	ND	ND	ND	0.0006
Benzo (k) Fluoranthene	0.0005	ND	ND	ND	0.0003
Benzo (a) Pyrene	0.0003	ND	0.002	ND	0.0003
Dibenz (a,h) Anthracene	ND	ND	ND	ND	0.0006
Benzo (g,h,i) Perylene	0.0007	ND	ND	ND	0.0006
Indeno (1,2,3-cd) Pyrene	ND	ND	ND	ND	0.0003
$\sum$ PNA's	0.414	0.176	.098		
Ambient dust levels in $\mu g/M^3$	56.3	53.8	25.9		
PNA's as % of Tot.Wt.	0.73%	0.33%	0.38%		
Air lead levels in $\mu g/M^3$	0.0217	0.0215	0.0108		
Lead as % of total dust	0.039%	0.04%	0.04%		

ND indicates not detected in sample.

APPENDIX I

Results
ppm

Client #	DCL #	Pb
HW92994-2	94-30958	440.
HW92994-4	94-30959	400.
HW92994-6	94-30960	190.
LOD		100.

ND indicates the value is below the limit of detection (LOD)

Scott M. Krummen
Analyst

Reviewer

Data Table (ng/Sample)

Client #	VOC101194-1	VOC101194-2			PQL
DCL #	94-30961	94-30962			
Chloromethane	ND	ND			250
Bromomethane	ND	ND			250
Vinyl Chloride	ND	ND			250
Chloroethane	ND	ND			250
Methylene Chloride	**1100**	ND			250
Acetone	**1200**	**59 U**			250
Carbon Disulfide	ND	ND			250
Trichlorofluoromethane	ND	ND			250
1,1-Dichloroethene	ND	ND			250
1,1-Dichloroethane	ND	ND			250
Total 1,2-Dichloroethene	ND	ND			250
Chloroform	ND	ND			250
1,2-Dichloroethane	ND	ND			250
Iodomethane	ND	ND			250
2-Butanone	**50 U**	ND			250
1,1,1-Trichloroethane	**220 U**	ND			250
1,1-Dichloropropene	ND	ND			250
Carbon Tetrachloride	ND	ND			250
Bromodichloromethane	ND	ND			250
1,2-Dichloropropane	ND	ND			250
c-1,3-Dichloropropene	ND	ND			250
Trichloroethene	**66 U**	ND			250
Dibromochloromethane	ND	ND			250
1,1,2-Trichloroethane	ND	ND			250
Benzene	**22 U**	ND			250
t-1,3-Dichloropropene	ND	ND			250
Bromoform	ND	ND			250
Dibromomethane	ND	ND			250
4-Methyl-2-Pentanone	**9 U**	ND			250
2-Hexanone	ND	ND			250
Tetrachloroethene	**17 U**	ND			250
1,1,2,2-Tetrachloroethane	ND	ND			250
Toluene	**170 U**	**12 U**			250
Chlorobenzene	ND	ND			250
Ethyl Benzene	**16 U**	ND			250
Styrene	ND	ND			250
Xylene (Total)	**64 U**	ND			500
1,2,3-Trichloropropane	ND	ND			250
Ethyl-Methacrylate	ND	ND			250
Dichlorobenzene (Total)	**140 U**	ND			250

ND indicates not detected in the sample. U indicates detected below the PQL

Data Table
ug/g

Client #	HW92994-1	HW92994-3	HW92994-5		PQL
DCL #	94-30955	94-30956	94-30957		ug/sample
Naphthalene	ND	ND	ND		0.2
Acenapthylene	ND	ND	ND		2.
Acenaphthene	ND	ND	ND		1.
Fluorene	0.5	0.3	ND		0.04
Phenanthrene	2.5	1.6	1.2		0.02
Anthracene	ND	ND	ND		0.02
Fluoranthene	2.7	1.0	0.8		0.004
Pyrene	2.9	1.0	0.8		0.002
Benzo(a)Anthracene	1.5	0.2	0.1		0.002
Chrysene	3.1	0.8	0.4		0.002
Benzo(b)Fluoranthene	2.0	0.5	0.3		0.004
Benzo(k)Fluoranthene	1.5	0.2	0.2		0.002
Benzo(a)Pyrene	1.2	0.3	0.1		0.002
Dibenz(a,h)Anthracene	0.8	ND	ND		0.004
Benzo(g,h,i)Perylene	2.7	1.0	ND		0.004
Indeno(1,2,3-cd)Pyrene	5.8	1.6	0.6		0.002
Sample Weight (g)	0.0598	0.0191	0.0258		

ND indicates below the Practical Quantitation Limit (PQL)

Edward J. Slick
Analyst

E. Vinokur

Emilia Vinokur
Data Review

95-S-3360

Results
ug/Filter

Client #	DCL #	Pb
ADA-2	95-19107	0.3
ADA- 4	95-19108	0.3
ADB-1	95-19109	0.3
Blank (Pb)	95-19110	ND
LOD		**0.2**

ND indicates the value is below the limit of detection (LOD)

Scott M. Krummen
Analyst

Reviewer

Results

Client #	DCL #	Total Dust (mg/Filter)	Total Dust (mg/m^3)
ADA-2	95-19107	0.78	0.056
ADA- 4	95-19108	0.75	0.054
ADB-1	95-19109	0.72	0.026
Blank (Pb)	95-19110	0.03	ND
PQL		0.05	0.002

ND indicates value is below the practical quantitation limit (PQL)
PQL in mg/m^3 based on a sampling volume of 27.78 m^3

Hai Nguyen
Analyst

Reviewer

Data Table
ug/m^3

Client #	ADA-1	ADA-3	ADB-2	Blank (PNA)	
DCL #	95-19103	95-19104	95-19105	95-19106	PQL
Naphthalene	ND	ND	ND	ND	.2
Acenapthylene	ND	ND	ND	ND	.3
Acenaphthene	ND	ND	ND	ND	.2
Fluorene	ND	ND	.01	ND	.0007
Phenanthrene	.03	.02	.06	ND	.002
Anthracene	ND	ND	ND	ND	.003
Fluoranthene	.25	.10	.01	ND	.0007
Pyrene	.12	.05	.006	ND	.0003
Benzo(a)Anthracene	.002	.0008	ND	ND	.0003
Chrysene	.008	.005	.01	ND	.0003
Benzo(b)Fluoranthene	.002	ND	ND	ND	.0006
Benzo(k)Fluoranthene	.0005	ND	ND	ND	.0003
Benzo(a)Pyrene	.0003	ND	.002	ND	.0003
Dibenz(a,h)Anthracene	ND	ND	ND	ND	.0006
Benzo(g,h,i)Perylene	.0007	ND	ND	ND	.0006
Indeno(1,2,3-cd)Pyrene	ND	ND	ND	ND	.0003

ND indicates below the Practical Quantitation Limit (PQL). PQL calculations are based upon a air volume of 580 m^3.
All samples were spiked with Benzo(e)Pyrene as a surrogate prior to extraction. Interferences from the samples prevented quantitation of the surrogate.

Edward J. Slick
Analyst

Emilia Vinokur
Data Review

APPENDIX C

SURFACE SOIL ANALYTICAL DATA REPORTS

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

June 07, 1995

Sam Brenneke
Geotechnology, Inc.
2258 Grissom Drive
ST. Louis, MO 63146

Subject: Project Summary for the Hubert Wheeler State School Playground Site Restoration Samples SS-13, SS-11, SS-8, SS-5.

Dear Mr. Brenneke:

Please find the analytical reports for the reference project attached. The summary of the project is as follows:

PROJECT IDENTIFICATION:

The following samples were received and analyzed:

Description	Lab #	Received	Analyses
SS-13 12:15	9505-335-001	5/22/95	Total Pb, Semi-Volatiles
SS-11 13:30	9505-335-002	5/22/95	Total Pb. Semi-Volatiles
SS-8 14:21	9505-305-003	5/22/95	Total Pb, Semi-Volatiles
SS-5 14:58	9505-305-004	5/22/95	Total Pb, Semi-Volatiles

Specific methods, extraction, preparation dates, and detection limits are noted on the individual reports attached.

E V RO _ _ETR CS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

REANALYSES, DILUTIONS, ETC.

The analytical data reflects the result of the initial analysis without dilutions.

QUALITY ASSURANCE SUMMARY:

All Quality Assurance parameters (temperature upon receipt, holding times, spike recoveries, etc.) were within method specifications. Please note that the Total Pb results are reported on a dry weight basis.

If you have any questions regarding this report please do not hesitate to call: (314) 427-0550. Thank you for your business.

Sincerely,

Karen J. Coons

Project Manager

Attachments

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32157
PO # 9941
PROJECT # 2498.03.4120.03; HUBERT WHEELER

ANALYSIS RESULTS

TOTAL LEAD
METHOD SW-846 6010A

LAB ID.	IDENTIFICATION	* RESULTS
9505/355-001	SS-13 12:15	105 mg/kg
9505/355-002	SS-11 13:30	199 mg/kg
9505/355-003	SS-8 14:21	52.5 mg/kg
9505/355-004	SS-5 14:58	25.3 mg/kg

* = RESULTS REPORTED ON A DRY WEIGHT BASIS

DATE COLLECTED: 05/22/95
DATE RECEIVED : 05/22/95 16:35
DATE ANALYZED : 05/26/95 R.D.

MAY 31, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

E V RO _ _ETR CS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32157
PO # 9941
PROJECT # 2498.03.4120.03; HUBERT WHEELER

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE ONE

SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6344

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	330 µg/kg	U µg/kg
108-95-2	Phenol	330	U
111-44-4	bis(2-chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	o-Cresol	330	U
39638-32-9	bis-(2-Chloro2propyl)Ether	330	U
106-44-5	m & p-Cresol	330	U
621-64-7	N-Nitroso-Di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	1,700	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1,700	U
131-11-3	Dimethylphthalate	330	U
103-33-3	Azobenzene	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1,700	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1,700	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32157
PO # 9941
PROJECT # 2498.03.4120.03; HUBERT WHEELER

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE TWO

SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6344

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,700 µg/kg	U µg/kg
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenol phenyl ether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1,700	U
534-52-1	4,6-Dinitro-2-methylphenol	1,700	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1,700	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
92-87-4	Benzidine	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE EXTRACTED : 05/24/95
DATE ANALYZED : 05/25/95
ANALYST : D.C.

MAY 31, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRON__ETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32157
PO # 9941
PROJECT # 2498.03.4120.03; HUBERT WHEELER

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE ONE

SAMPLE ID: SS-13
LAB ID: 9505/355-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	390 µg/kg	U µg/kg
108-95-2	Phenol	390	U
111-44-4	bis(2-chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl Alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	o-Cresol	390	U
39638-32-9	bis-(2-Chloro2propyl)Ether	390	U
106-44-5	m & p-Cresol	390	U
621-64-7	N-Nitroso-Di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	390	U
103-33-3	Azobenzene	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	2,000	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32157
PO # 9941
PROJECT # 2498.03.4120.03; HUBERT WHEELER

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE TWO

SAMPLE ID: SS-13
LAB ID: 9505/355-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenol phenyl ether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	390	2,000
120-12-7	Anthracene	390	450
84-74-2	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	2,500
92-87-4	Benzidine	390	U
129-00-0	Pyrene	390	2,500
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	1,300
218-01-9	Chrysene	390	1,300
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	1,600
207-08-9	Benzo(k)fluoranthene	390	560
50-32-8	Benzo(a)pyrene	390	1,200
193-39-5	Indeno(1,2,3-cd)pyrene	390	560
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	430

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 05/22/95 12:15
DATE RECEIVED : 05/22/95 16:35
DATE EXTRACTED : 05/24/95
DATE ANALYZED : 05/30/95
ANALYST : D.C.

MAY 31, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

E V RO _ETR CS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32157
PO # 9941
PROJECT # 2498.03.4120.03; HUBERT WHEELER

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE ONE

SAMPLE ID: SS-11
LAB ID: 9505/355-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	420 µg/kg	U µg/kg
108-95-2	Phenol	420	U
111-44-4	bis(2-chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	o-Cresol	420	U
39638-32-9	bis-(2-Chloro2propyl)Ether	420	U
106-44-5	m & p-Cresol	420	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	420	U
103-33-3	Azobenzene	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2,100	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32157
PO # 9941
PROJECT # 2498.03.4120.03; HUBERT WHEELER

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE TWO

SAMPLE ID: SS-11
LAB ID: 9505/355-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenol phenyl ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	420	2,500
120-12-7	Anthracene	420	500
84-74-2	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	3,300
92-87-4	Benzidine	420	U
129-00-0	Pyrene	420	3,400
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	1,600
218-01-9	Chrysene	420	1,700
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	2,100
207-08-9	Benzo(k)fluoranthene	420	610
50-32-8	Benzo(a)pyrene	420	1,400
193-39-5	Indeno(1,2,3-cd)pyrene	420	650
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	490

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 05/22/95 13:30
DATE RECEIVED : 05/22/95 16:35
DATE EXTRACTED : 05/24/95
DATE ANALYZED : 05/30/95
ANALYST : D.C.

MAY 31, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

E V RO _ETR CS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32157
PO # 9941
PROJECT # 2498.03.4120.03; HUBERT WHEELER

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE ONE

SAMPLE ID: SS-8
LAB ID: 9505/355-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 µg/kg	U µg/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	2,000	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32157
PO # 9941
PROJECT # 2498.03.4120.03; HUBERT WHEELER

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE TWO

SAMPLE ID: SS-8
LAB ID: 9505/355-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	400	710
120-12-7	Anthracene	400	U
84-74-2	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	1,070
92-87-4	Benzidine	400	U
129-00-0	Pyrene	400	1,080
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	530
218-01-9	Chrysene	400	530
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	750
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	420
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 05/22/95 14:21
DATE RECEIVED : 05/22/95 16:35
DATE EXTRACTED : 05/24/95
DATE ANALYZED : 05/30/95
ANALYST : D.C.

MAY 31, 1995

WAYNE L. COOPER RCS
LABORATORY DIRECTOR

ENVIRON__ETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32157
PO # 9941
PROJECT # 2498.03.4120.03; HUBERT WHEELER

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE ONE

SAMPLE ID: SS-5
LAB ID: 9505/355-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	390 µg/kg	U µg/kg
108-95-2	Phenol	390	U
111-44-4	bis(2-chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl Alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	o-Cresol	390	U
39638-32-9	bis-(2-Chloro2propyl)Ether	390	U
106-44-5	m & p-Cresol	390	U
621-64-7	N-Nitroso-Di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic Acid	1,900	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	1,900	U
131-11-3	Dimethylphthalate	390	U
103-33-3	Azobenzene	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	1,900	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	1,900	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32157
PO # 9941
PROJECT # 2498.03.4120.03; HUBERT WHEELER

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE TWO

SAMPLE ID: SS-5
LAB ID: 9505/355-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,900 µg/kg	U µg/kg
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenol phenyl ether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	1,900	U
534-52-1	4,6-Dinitro-2-methylphenol	1,900	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	1,900	U
85-01-8	Phenanthrene	390	410
120-12-7	Anthracene	390	U
84-74-2	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	670
92-87-4	Benzidine	390	U
129-00-0	Pyrene	390	640
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	490
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 05/22/95 14:58
DATE RECEIVED : 05/22/95 16:35
DATE EXTRACTED : 05/24/95
DATE ANALYZED : 05/30/95
ANALYST : D.C.

MAY 31, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

SEMIVOLATILE ORGANICS LAB CONTROL SAMPLE

SPIKE BLANK

Lab Name: Environmetrics Contract: GEOTECH.

Lab Code: 8270 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: SASLCS6344

Sample wt/vol: 30 (g/ml) g Lab File ID: >A6991

Level: (low/med) LOW Date Received: 05/22/95

% Moisture: NA decanted: (Y/N) N Date Extracted: 05/24/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/25/95

Injection Volume: 1.0 (uL) Dilution Factor: 33.3

GPC Cleanup: (Y/N) N pH: NA

COMPOUND	Conc.	Spike	Recovery
Phenol	4500	6700	67
2-Chlorophenol	4800	6700	71
1,4-Dichlorobenzene	2300	3300	70
N-Nitroso-Di-nPropylamine	2600	3300	79
1,2,4-Trichlorobenzene	2800	3300	85
4-Chloro-3-Methylphenol	5400	6700	80
Acenaphthene	2400	3300	73
4-Nitrophenol	4300	6700	64
2,4-Dinitrotoluene	2500	3300	76
Pentachlorophenol	5000	6700	76
Pyrene	3000	3300	89

SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Environmetrics Contract: GEOTECH.

Lab code: Case No.: DRY SAS No.: SDG No.:

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (DCB)#	S3 (FBP)#	S4 (TPH)#	S5 (PHL)#	S6 (2CP)#	S7 (2FP)#	S8 (TBP)#	TOT OUT
01	SASBLK6344	66	76	80	99	67	67	68	65	0
02	SASLCS6344	77	84	88	113	71	70	73	75	0
03	9505355-1	66	64	82	101	67	63	63	63	0
04	9505355-2	67	66	82	108	62	62	63	66	0
05	9505355-3	61	58	81	106	60	59	59	66	0
06	9505355-4	58	61	81	109	59	58	56	66	0
07										
08										
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30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)
S3 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S4 (TPH)	= Terphenyl-d14	(18-137)	
S5 (PHL)	= Phenol-d5	(24-113)	
S6 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S7 (2FP)	= 2-Fluorophenol	(25-121)	
S8 (TBP)	= 2,4,6-Tribromophenol	(19-122)	

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 2146
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 05/22/95
Date Logged: 05/22/95
Status: Normal/LEVEL 5
HUBERT WHEELER

Date Due (PM): 06/01/95
Date Due (Client): 06/06/95
Mode: Mail

Project No.: 2498.03.4120.03
P.O. No.: 9941
Quotation No.:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests
9505000355-001-01	SS-13	SOIL	1-500 ml GLASS	Cold	05/22/95		LEAD, EPA SW-846-SW-846,A, 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000355-002-01	SS-11	SOIL	1-500 ml GLASS	Cold	05/22/95		LEAD, EPA SW-846-SW-846,A, 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000355-003-01	SS-8	SOIL	1-500 ml GLASS	Cold	05/22/95		LEAD, EPA SW-846-SW-846,A, 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000355-004-01	SS-5	SOIL	1-500 ml GLASS	Cold	05/22/95		LEAD, EPA SW-846-SW-846,A, 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						

Items Transferred	Relinquished By	Date		Logged In By	Date	Time
4		05/22/95	PM Signature : Karen Coons Client Services Rep. Karen Coons Ann	Phyllis Woods Login Coordinator	05/22/95	16:35:03

GEOTECHNOLOGY, INC.
ENGINEERING & ENVIRONMENTAL SERVICES
ST LOUIS KANSAS CITY INDIANAPOLIS

Page _____ of _____

CHAIN OF CUSTODY RECORD

COC Record # 214b P.O. # 9941

Project No. 2498.03.4120.03

Project Name: HUBERT WHEELER

Shipper Name: GEOTECHNOLOGY INC.

Address: 2258 GRISSOM DRIVE

Sampler's Signature: Ronnie Allen Telephone # 997-7440

Contact: SAM BRENNEKE Telephone # SAME

Collectors Sample #	Date	Time	Sample Type	No. of Containers	Analysis	Remarks
SS-13	5/22/95	1215	SOIL	1-16 OZ	SEMI-VOA TOTAL LEAD	10 DAY T.A.
SS-11	5/22/95	1330	↓	↓	↓	↓
SS-8	5/22/95	1421	↓	↓	↓	↓
SS-5	5/22/95	1458	↓	↓	↓	↓

Receiver Name: ENVIRONMENTALS INC. MARYLAND HEIGHTS MO. 63043
(Company Name and Address)

Chain of Possession:

From: Ronnie Allen 5/22/95 To: [signature] 5-22-95
(Name and Date/Time) (Name and Date/Time)

From: _____ To: _____

White copy to Laboratory • Yellow copy to COC File • Pink copy to Job File

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

coc : 2146
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 05/22/95
Date Logged: 05/22/95
Status: Normal/LEVEL 5
HUBERT WHEELER

Date Due (PM): 06/01/95
Date Due (Client): 06/06/95
Mode: Mail

Project No.: 2498.03.4120.03
P.O. No.: 9941
Quotation No.:

Items Transferred	Relinquished By	Date	Time	Received By	Date	Time	Reason For Transfer
		5-22	2:40		5/22/95	2:40	
		5/30	9:30		5/30	9:30	

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

June 01, 1995

Sam Brenneke
Geotechnology, Inc.
2258 Grissom Drive
ST. Louis, MO 63146

Subject: Project Summary for the Hubert Wheeler State School Playground Site Restoration Samples SS-14, SS-12, SS-9, SS-6.

Dear Mr. Brenneke:

Please find the analytical reports for the reference project attached. The summary of the project is as follows:

PROJECT IDENTIFICATION:

The following samples were received and analyzed:

Description	Lab #	Received	Analyses
SS-14 11:55	9505-356-001	5/22/95	Total Pb, Semi-Volatiles
SS-12 13:10	9505-356-002	5/22/95	Total Pb, Semi-Volatiles
SS-9 13:50	9505-356-003	5/22/95	Total Pb, Semi-Volatiles
SS-6 14:30	9505-356-004	5/22/95	Total Pb, Semi-Volatiles

Specific methods, extraction, preparation dates, and detection limits are noted on the individual reports attached.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

REANALYSES, DILUTIONS, ETC.

The analytical data reflects the result of the initial analysis without dilutions.

QUALITY ASSURANCE SUMMARY:

All Quality Assurance parameters (temperature upon receipt, holding times, spike recoveries, etc.) were within method specifications. Please note that the Total Pb results are reported on a dry weight basis.

If you have any questions regarding this report please do not hesitate to call: (314) 427-0550. Thank you for your business.

Sincerely,

Karen J. Coons

Project Manager

Attachments

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32184
PO # 9941
PROJECT # 2498.03.4120.03, HUBERT WHEELER SCHOOL

JUN - 9 1995

ANALYSIS RESULTS

TOTAL LEAD
METHOD SW-846 6010

LAB NO.	IDENTIFICATION	* RESULTS
9505/356-001	SS-14 11:55	36.9 mg/kg
9505/356-002	SS-12 13:10	97.2 mg/kg
9505/356-003	SS-9 13:50	43.7 mg/kg
9505/356-004	SS-6 14:30	37.6 mg/kg

* = RESULTS ARE REPORTED ON A DRY WEIGHT BASIS

DATE COLLECTED: 5/22/95
DATE RECEIVED : 5/22/95 16:45
DATE ANALYZED : 5/26/95 R.D.

JUNE 1, 1995

WAYNE L. COOPER Ph.D.
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRON__ETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32184 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9941 METHOD SW-846 8270
PROJECT # 2498.03.4120.03 PAGE ONE
HUBERT WHEELER SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6344

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	330 µg/kg	U µg/kg
108-95-2	Phenol	330	U
111-44-4	bis(2-chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	o-Cresol	330	U
39638-32-9	bis-(2-Chloro2propyl)Ether	330	U
106-44-5	m & p-Cresol	330	U
621-64-7	N-Nitroso-Di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	1,700	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1,700	U
131-11-3	Dimethylphthalate	330	U
103-33-3	Azobenzene	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1,700	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1,700	U

ENVIRONMETRICS
2345 Millpark Drive
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32184 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9941 METHOD SW-846 8270
PROJECT # 2498.03.4120.03 PAGE TWO
HUBERT WHEELER SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6344

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,700 µg/kg	U µg/kg
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenol phenyl ether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1,700	U
534-52-1	4,6-Dinitro-2-methylphenol	1,700	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1,700	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
92-87-4	Benzidine	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE EXTRACTED : 5/24/95
DATE ANALYZED : 5/25/95
ANALYST : D.C.

JUNE 1, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

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(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32184 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9941 METHOD SW-846 8270
PROJECT # 2498.03.4120.03 **PAGE ONE**
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-14
LAB ID: 9505/356-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 µg/kg	U µg/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	2,000	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32184 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9941 METHOD SW-846 8270
PROJECT # 2498.03.4120.03 PAGE TWO
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-14
LAB ID: 9505/356-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
84-74-2	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	U
92-87-4	Benzidine	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/22/95 11:55
DATE RECEIVED : 5/22/95 16:45
DATE EXTRACTED : 5/24/95
DATE ANALYZED : 5/30/95
ANALYST : D.C.

JUNE 1, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
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ATTN: SAM BRENNEKE

INVOICE # 32184 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9941 METHOD SW-846 8270
PROJECT # 2498.03.4120.03 PAGE ONE
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-12
LAB ID: 9505/356-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 µg/kg	U µg/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	2,000	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32184 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9941 METHOD SW-846 8270
PROJECT # 2498.03.4120.03 PAGE TWO
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-12
LAB ID: 9505/356-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	400	1,100
120-12-7	Anthracene	400	U
84-74-2	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	1,500
92-87-4	Benzidine	400	U
129-00-0	Pyrene	400	1,600
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	740
218-01-9	Chrysene	400	750
117-81-7	bis(2-Ethylhexyl)phthalate	400	460
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	1,000
207-08-9	Benzo(k)fluoranthene	400	430
50-32-8	Benzo(a)pyrene	400	660
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/22/95 13:10
DATE RECEIVED : 5/22/95 16:45
DATE EXTRACTED : 5/24/95
DATE ANALYZED : 5/30/95
ANALYST : D.C.

JUNE 1, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

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2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32184 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9941 METHOD SW-846 8270
PROJECT # 2498.03.4120.03 PAGE ONE
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-9
LAB ID: 9505/356-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 µg/kg	U µg/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	2,000	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32184 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9941 METHOD SW-846 8270
PROJECT # 2498.03.4120.03 PAGE TWO
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-9
LAB ID: 9505/356-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	400	470
120-12-7	Anthracene	400	U
84-74-2	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	800
92-87-4	Benzidine	400	U
129-00-0	Pyrene	400	850
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	450
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	600
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/22/95 13:50
DATE RECEIVED : 5/22/95 16:45
DATE EXTRACTED : 5/24/95
DATE ANALYZED : 5/30/95
ANALYST : D.C.

JUNE 1, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

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2345 Millpark Drive
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(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32184 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9941 METHOD SW-846 8270
PROJECT # 2498.03.4120.03 PAGE ONE
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-6
LAB ID: 9505/356-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl Alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	o-Cresol	390	U
39638-32-9	bis-(2-Chloro2propyl)Ether	390	U
106-44-5	m & p-Cresol	390	U
621-64-7	N-Nitroso-Di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	390	U
103-33-3	Azobenzene	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	2,000	U

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ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32184 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9941 METHOD SW-846 8270
PROJECT # 2498.03.4120.03 PAGE TWO
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-6
LAB ID: 9505/356-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenol phenyl ether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	390	820
120-12-7	Anthracene	390	U
84-74-2	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	1,100
92-87-4	Benzidine	390	U
129-00-0	Pyrene	390	1,090
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	650
218-01-9	Chrysene	390	640
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	990
207-08-9	Benzo(k)fluoranthene	390	400
50-32-8	Benzo(a)pyrene	390	600
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/22/95 14:30
DATE RECEIVED : 5/22/95 16:45
DATE EXTRACTED : 5/24/95
DATE ANALYZED : 5/30/95
ANALYST : D.C.

JUNE 1, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
ENGINEERING & ENVIRONMENTAL SERVICES
ST. LOUIS KANSAS CITY INDIANAPOLIS

Page _____ of _____

CHAIN OF CUSTODY RECORD

COC Record # 2145 P.O. # 09941

Project No. 2498.03.4120.03

Project Name: Hubert Wheeler School

Shipper Name: Geotechnology, Inc

Address: 2258 Grissom Drive St Louis MO

Sampler's Signature: [signature] Telephone # 997-7440

Contact: Sam Brenneke Telephone # Same

Collectors Sample #	Date	Time	Sample Type	No. of Containers	Analysis	Remarks
SS-14	5/22/95	1155	Soil	1-16 oz	Semivolatiles Total Lead	N.T.A.
SS-12	↓	1310	↓	↓	↓ ↓	↓
SS-9	↓	1350	↓	↓	↓ ↓	↓
SS-6	↓	1430	↓	↓	↓ ↓	↓

Receiver Name: Environmetrics, Inc St Louis MO
(Company Name and Address)

Chain of Possession:

From: [signature] 5/22/95 4:09
(Name and Date/Time)

To: [signature] 5-22-95 4:09
(Name and Date/Time)

From: _____ To: _____

White copy to Laboratory • Yellow copy to COC File • Pink copy to Job File

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 2145
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 05/22/95
Date Logged: 05/22/95
Status: Normal/LEVEL 5
HUBERT WHEELER

Date Due (PM): 06/01/95
Date Due (Client): 06/06/95
Mode: Mail

Project No.: 2498.03.4120.03
P.O. No.: 9941
Quotation No.:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests
9505000356-001-01	SS-14	SOIL	1-500 ml GLASS	Cold	05/22/95		LEAD, EPA SW-846-SW-846,A, 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000356-002-01	SS-12	SOIL	1-500 ml GLASS	Cold	05/22/95		LEAD, EPA SW-846-SW-846,A, 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000356-003-01	SS-9	SOIL	1-500 ml GLASS	Cold	05/22/95		LEAD, EPA SW-846-SW-846,A, 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000356-004-01	SS-6	SOIL	1-500 ml GLASS	Cold	05/22/95		LEAD, EPA SW-846-SW-846,A, 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						

Items Transferred	Relinquished By	Date		Logged In By	Date	Time
4		05/22/95	PM Signature : Karen Coons Client Services Rep. Karen Coons	Phyllis Woods Login Coordinator	05/22/95	16:45:39

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 2145
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 05/22/95
Date Logged: 05/22/95
Status: Normal/LEVEL 5
HUBERT WHEELER

Date Due (PM): 06/01/95
Date Due (Client): 06/06/95
Mode: Mail

Project No.: 2498.03.4120.03
P.O. No.: 9941
Quotation No.:

Items Transferred	Relinquished By	Date	Time	Received By	Date	Time	Reason For Transfer
		5/23	2:40		5/23/95	2:40pm	
		5/30	9:30		5/30	9:30	Return

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

June 08, 1995

Sam Brenneke
Geotechnology, Inc.
2258 Grissom Drive
ST. Louis, MO 63146

Subject: Project Summary for the Hubert Wheeler State School Playground Site Restoration
Samples SS-7, SS-18, SS-19, SS-21, SS-23, SS-16, SS-10, SS-17, SS-#-01, 2498:EB:1:1-S-17, SS-20, SS-22, SS-15.

Dear Mr. Brenneke:

Please find the analytical reports for the reference project attached. The summary of the project is as follows:

PROJECT IDENTIFICATION:

The following samples were received and analyzed:

Description	Lab #	Received	Analyses
SS-7 10:00	9505-375-001	5/24/95	Total Pb, Semi-Volatiles
SS-18 10:45	9505-375-002	5/24/95	Total Pb, Semi-Volatiles
SS-19 11:25	9505-375-003	5/24/95	Total Pb, Semi-Volatiles
SS-21 12:20	9505-375-004	5/24/95	Total Pb, Semi-Volatiles
SS-23 13:05	9505-375-005	5/24/95	Total Pb, Semi-Volatiles
SS-16 13:50	9505-375-006	5/24/95	Total Pb, Semi-Volatiles
SS-10 10:05	9505-375-007	5/24/95	Total Pb, Semi-Volatiles
SS-17 10:45	9505-375-008	5/24/95	Total Pb, Semi-Volatiles

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SS-#-01	9505-375-009	5/23/95	Total Pb, Semi-Volatiles
2498:EB:1:1-S17 11:20	9505-375-010	5/23/95	Total Pb, Semi-Volatiles
SS-20 12:00	9505-375-011	5/23/95	Total Pb, Semi-Volatiles
SS-22 12:40	9505-375-012	5/23/95	Total Pb, Semi-Volatiles
SS-22 12:40	9505-375-012	5/23/95	Matrix Spike, Matrix Spike Duplicate Total Pb, Semi-Volatiles
SS-15 132:20	9505-375-013	5/23/95	Total Pb, Semi-Volatiles

Specific methods, extraction, preparation dates, and detection limits are noted on the individual reports attached.

REANALYSES, DILUTIONS, ETC.

The analytical data reflects the result of the initial analysis without dilutions.

QUALITY ASSURANCE SUMMARY:

All Quality Assurance parameters (temperature upon receipt, holding times, spike recoveries, etc.) were within method specifications. Please note that the Total Pb results are reported on a dry weight basis.

If you have any questions regarding this report please do not hesitate to call: (314) 427-0550. Thank you for your business.

Sincerely,

Karen J. Coons

Project Manager

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32173
PO # 9942
PROJECT # 2498.03.4120.0003, HUBERT WHEELER SCHOOL

QUALITY ASSURANCE QUALITY CONTROL REPORT

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
ICP/AA

SAMPLE ID: SS-22 5/23/95 12:40
LAB ID: 9505/375-012

ELEMENT	SAMPLE RESULT (mg/kg)	SPIKE LEVEL (mg/kg)	SPIKE RESULT (mg/kg)	% REC.	DUPLICATE RESULT (mg/kg)	% REC.	RPD
LEAD	42.1	123	150.8	88	153.1	91	3

* = RESULTS REPORTED ON A DRY WEIGHT BASIS

GEOTECHNOLOGY, INC.
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ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

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Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32173
PO # 9942
PROJECT # 2498.03.4120.0003, HUBERT WHEELER SCHOOL

ANALYSIS RESULTS

TOTAL LEAD
METHOD SW-846 6010

LAB ID	SAMPLE ID	* RESULTS	
9505/375-001	SS-7 10:00	55.3	mg/kg
9505/375-002	SS-18 10:45	58.6	mg/kg
9505/375-003	SS-19 11:25	61.4	mg/kg
9505/375-004	SS-21 12:20	38.3	mg/kg
9505/375-005	SS-23 13:05	104	mg/kg
9505/375-006	SS-16 13:50	62.2	mg/kg
9505/375-007	SS-10 10:05	22.9	mg/kg
9505/375-008	SS-17 10:45	40.9	mg/kg
9505/375-009	SS-#01 10:50	23.2	mg/kg
9505/375-010	2498:EB:1-S-17 11:20	<0.100	mg/l
9505/375-011	SS-20 12:00	33.0	mg/kg
9505/375-012	SS-22 12:40	42.1	mg/kg
9505/375-013	SS-15 13:20	42.0	mg/kg

* = RESULTS REPORTED ON A DRY WEIGHT BASIS

DATE COLLECTED: 5/23/95
DATE RECEIVED : 5/23/95 15:25
DATE ANALYZED : 5/26/95 R.D.

JUNE 5, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: WASBLK6346

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	10 µg/l	U µg/l
108-95-2	Phenol	10	U
111-44-4	bis(2-chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	o-Cresol	10	U
39638-32-9	bis-(2-Chloro2propyl)Ether	10	U
106-44-5	m & p-Cresol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
103-33-3	Azobenzene	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U

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2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: WASBLK6346

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	50 µg/l	U µg/l
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenol phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-4	Benzidine	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE EXTRACTED : 5/24/95
DATE ANALYZED : 5/25/95
ANALYST : D.C.

JUNE 5, 1995

WL Cooper

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6347

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	330 µg/kg	U µg/kg
108-95-2	Phenol	330	U
111-44-4	bis(2-chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	o-Cresol	330	U
39638-32-9	bis-(2-Chloro2propyl)Ether	330	U
106-44-5	m & p-Cresol	330	U
621-64-7	N-Nitroso-Di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	1,700	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1,700	U
131-11-3	Dimethylphthalate	330	U
103-33-3	Azobenzene	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1,700	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1,700	U

E V RO _ETR CS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6347

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,700 µg/kg	U µg/kg
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenol phenyl ether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1,700	U
534-52-1	4,6-Dinitro-2-methylphenol	1,700	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1,700	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
92-87-4	Benzidine	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE EXTRACTED : 5/24/95
DATE ANALYZED : 5/31/95
ANALYST : D.C.

JUNE 5, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-7
LAB ID: 9505/375-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 µg/kg	U µg/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	2,000	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE TWO**
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-7
LAB ID: 9505/375-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	400	630
120-12-7	Anthracene	400	U
84-74-2	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	970
92-87-4	Benzidine	400	U
129-00-0	Pyrene	400	950
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	490
218-01-9	Chrysene	400	480
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	650
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/23/95 10:00
DATE RECEIVED : 5/23/95 15:25
DATE EXTRACTED : 5/24/95
DATE ANALYZED : 5/31/95
ANALYST : D.C.

JUNE 5, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-18
LAB ID: 9505/375-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	2,100	U

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2345 Millpark Drive
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE TWO**
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-18
LAB ID: 9505/375-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	410	650
120-12-7	Anthracene	410	U
84-74-2	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	890
92-87-4	Benzidine	410	U
129-00-0	Pyrene	410	980
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	500
218-01-9	Chrysene	410	480
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	660
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/23/95 10:45
DATE RECEIVED : 5/23/95 15:25
DATE EXTRACTED : 5/24/95
DATE ANALYZED : 5/31/95
ANALYST : D.C.

JUNE 5, 1995

WAYNE L. COOPER PhD
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE ONE**
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-19
LAB ID: 9505/375-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	430 µg/kg	U µg/kg
108-95-2	Phenol	430	U
111-44-4	bis(2-chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
100-51-6	Benzyl Alcohol	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	o-Cresol	430	U
39638-32-9	bis-(2-Chloro2propyl)Ether	430	U
106-44-5	m & p-Cresol	430	U
621-64-7	N-Nitroso-Di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
65-85-0	Benzoic Acid	2,200	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	2,200	U
131-11-3	Dimethylphthalate	430	U
103-33-3	Azobenzene	430	U
208-96-8	Acenaphthylene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
99-09-2	3-Nitroaniline	2,200	U
83-32-9	Acenaphthene	430	U
51-28-5	2,4-Dinitrophenol	2,200	U

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2345 Millpark Drive
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-19
LAB ID: 9505/375-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,200 µg/kg	U µg/kg
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenol phenyl ether	430	U
86-73-7	Fluorene	430	U
100-01-6	4-Nitroaniline	2,200	U
534-52-1	4,6-Dinitro-2-methylphenol	2,200	U
86-30-6	N-Nitrosodiphenylamine	430	U
101-55-3	4-Bromophenyl phenyl ether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	2,200	U
85-01-8	Phenanthrene	430	1,100
120-12-7	Anthracene	430	U
84-74-2	Carbazole	430	U
84-7[illegible]-2	Di-n-butylphthalate	430	U
206-[illegible]-0	Fluoranthene	430	1,500
92-8[illegible]4	Benzidine	430	U
129-[illegible]-0	Pyrene	430	1,400
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	430	750
218-01-9	Chrysene	430	730
117-81-7	bis(2-Ethylhexyl)phthalate	430	U
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	430	980
207-08-9	Benzo(k)fluoranthene	430	440
50-32-8	Benzo(a)pyrene	430	690
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	430	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/23/95 11:25
DATE RECEIVED : 5/23/95 15:25
DATE EXTRACTED : 5/24/95
DATE ANALYZED : 6/01/95
ANALYST : D.C.

JUNE 5, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

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2345 Millpark Drive
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INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE ONE**
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-21
LAB ID: 9505/375-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	420 µg/kg	U µg/kg
108-95-2	Phenol	420	U
111-44-4	bis(2-chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	o-Cresol	420	U
39638-32-9	bis-(2-Chloro2propyl)Ether	420	U
106-44-5	m & p-Cresol	420	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	420	U
103-33-3	Azobenzene	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2,100	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-21
LAB ID: 9505/375-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenol phenyl ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	420	430
120-12-7	Anthracene	420	U
84-74-2	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	540
92-87-4	Benzidine	420	U
129-00-0	Pyrene	420	470
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/23/95 12:20
DATE RECEIVED : 5/23/95 15:25
DATE EXTRACTED : 5/24/95
DATE ANALYZED : 6/01/95
ANALYST : D.C.

JUNE 5, 1995

WAYNE L. COOPER PhD
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
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INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-23
LAB ID: 9505/375-005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	2,000	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

E V RO _ _ETR CS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-23
LAB ID: 9505/375-005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	410	3,100
120-12-7	Anthracene	410	690
84-74-2	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	3,900
92-87-4	Benzidine	410	U
129-00-0	Pyrene	410	3,600
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	1,700
218-01-9	Chrysene	410	1,700
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	2,000
207-08-9	Benzo(k)fluoranthene	410	680
50-32-8	Benzo(a)pyrene	410	1,600
193-39-5	Indeno(1,2,3-cd)pyrene	410	800
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	620

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/23/95 13:05
DATE RECEIVED : 5/23/95 15:25
DATE EXTRACTED : 5/24/95
DATE ANALYZED : 6/01/95
ANALYST : D.C.

JUNE 5, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-16
LAB ID: 9505/375-006

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 µg/kg	U µg/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	2,000	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

E V RO _ _ETR CS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-16
LAB ID: 9505/375-006

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	400	700
120-12-7	Anthracene	400	U
84-74-2	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	970
92-87-4	Benzidine	400	U
129-00-0	Pyrene	400	1,040
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	570
218-01-9	Chrysene	400	560
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	760
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	460
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

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JUNE 5, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-10
LAB ID: 9505/375-007

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	390 µg/kg	U µg/kg
108-95-2	Phenol	390	U
111-44-4	bis(2-chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl Alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	o-Cresol	390	U
39638-32-9	bis-(2-Chloro2propyl)Ether	390	U
106-44-5	m & p-Cresol	390	U
621-64-7	N-Nitroso-Di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	390	U
103-33-3	Azobenzene	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	2,000	U

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-10
LAB ID: 9505/375-007

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenol phenyl ether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
84-74-2	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
92-87-4	Benzidine	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

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ANALYST : D.C.

JUNE 5, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE ONE**
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-17
LAB ID: 9505/375-008

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	2,100	U

ENVIRONMETRICS
2345 Millpark Drive
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE TWO**
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-17
LAB ID: 9505/375-008

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
84-74-2	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
92-87-4	Benzidine	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

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JUNE 5, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-#01
LAB ID: 9505/375-009

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	2,100	U

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ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE TWO**
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-#01
LAB ID: 9505/375-009

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 Ìg/kg	U Ìg/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
84-74-2	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
92-87-4	Benzidine	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

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JUNE 5, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

EN IRONMETRICS
2345 Millpark Drive
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(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE ONE**
HUBERT WHEELER SCHOOL
SAMPLE ID: 2498:EB:1-S-17
LAB ID: 9505/375-010

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	10 µg/l	U µg/l
108-95-2	Phenol	10	U
111-44-4	bis(2-chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	o-Cresol	10	U
39638-32-9	bis-(2-Chloro2propyl)Ether	10	U
106-44-5	m & p-Cresol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
103-33-3	Azobenzene	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

E V RO _ _ETR CS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE TWO**
HUBERT WHEELER SCHOOL
SAMPLE ID: 2498:EB:1-S-17
LAB ID: 9505/375-010

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	50 µg/l	U µg/l
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenol phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-4	Benzidine	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/23/95 11:20
DATE RECEIVED : 5/23/95 15:25
DATE EXTRACTED : 5/24/95
DATE ANALYZED : 5/25/95
ANALYST : D.C.

JUNE 5, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-20
LAB ID: 9505/375-011

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	2,100	U

ENVIRON__ETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE TWO**
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-20
LAB ID: 9505/375-011

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	410	2,600
120-12-7	Anthracene	410	660
84-74-2	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	2,500
92-87-4	Benzidine	410	U
129-00-0	Pyrene	410	2,600
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	1,200
218-01-9	Chrysene	410	1,200
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	1,400
207-08-9	Benzo(k)fluoranthene	410	450
50-32-8	Benzo(a)pyrene	410	970
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/23/95 12:00
DATE RECEIVED : 5/23/95 15:25
DATE EXTRACTED : 5/24/95
DATE ANALYZED : 6/01/95
ANALYST : D.C.

JUNE 5, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32173 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 9942 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.0003 **PAGE ONE**
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-22
LAB ID: 9505/375-012

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	2,000	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32173 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 9942 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.0003 **PAGE TWO**
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-22
LAB ID: 9505/375-012

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 ug/kg	U ug/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	410	2,400
120-12-7	Anthracene	410	510
84-74-2	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
92-87-4	Benzidine	410	U
129-00-0	Pyrene	410	3,400
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	1,300
218-01-9	Chrysene	410	1,300
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	1,400
207-08-9	Benzo(k)fluoranthene	410	440
50-32-8	Benzo(a)pyrene	410	1,080
193-39-5	Indeno(1,2,3-cd)pyrene	410	430
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	440

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/23/95 13:20
DATE RECEIVED : 5/23/95 15:25
DATE EXTRACTED : 5/24/95
DATE ANALYZED : 6/01/95
ANALYST : D.C.

JUNE 5, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32173 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9942 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE ONE**
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-15
LAB ID: 9505/375-013

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 ug/kg	U ug/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	2,000	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32173 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 9942 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.0003 **PAGE TWO**
HUBERT WHEELER SCHOOL
SAMPLE ID: SS-15
LAB ID: 9505/375-013

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
84-74-2	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	U
92-87-4	Benzidine	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/23/95 12:40
DATE RECEIVED : 5/23/95 15:25
DATE EXTRACTED : 5/24/95
DATE ANALYZED : 6/01/95
ANALYST : D.C.

JUNE 5, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

ab Name: Environmetrics Contract: GEOTECH.

code: Case No.: DRY SAS No.: SDG No.:

atrix Spike - EPA Sample No.: 9505375-12 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	8200	0	4700	57	26- 90
2-Chlorophenol	8200	0	4900	60	25-102
1,4-Dichlorobenzene	4100	0	2300	56	28-104
N-Nitroso-Di-nPropylami	4100	0	3100	76	41-126
1,2,4-Trichlorobenzene	4100	0	2900	72	38-107
4-Chloro-3-Methylphenol	8200	0	6100	75	26-103
Acenaphthene	4100	0	2900	72	31-137
4-Nitrophenol	8200	0	4300	53	11-114
2,4-Dinitrotoluene	4100	0	2800	68	28- 89
Pentachlorophenol	8200	0	3000	37	17-109
Pyrene	4100	3400	5400	48	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	8200	5000	62	8	35	26- 90
2-Chlorophenol	8200	5100	63	4	50	25-102
1,4-Dichlorobenzene	4100	2800	69	20	27	28-104
N-Nitroso-Di-nPropylami	4100	3400	84	10	38	41-126
1,2,4-Trichlorobenzene	4100	3500	85	17	23	38-107
4-Chloro-3-Methylphenol	8200	6600	80	7	33	26-103
Acenaphthene	4100	3200	78	8	19	31-137
4-Nitrophenol	8200	4300	53	1	50	11-114
2,4-Dinitrotoluene	4100	2900	70	4	47	28- 89
Pentachlorophenol	8200	2300	28	29	47	17-109
Pyrene	4100	6200	68	35	36	35-142

column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

GEOTECHNOLOGY, INC.
ENGINEERING & ENVIRONMENTAL SERVICES
ST LOUIS KANSAS CITY INDIANAPOLIS

Page _____ of _____

CHAIN OF CUSTODY RECORD

COC Record # ~~[illegible]~~ 2147 P.O. # ~~[illegible]~~ 09942

Project No. 2498.03.4120.03

Project Name: Hubert Wheeler School

Shipper Name: Geotechnology, Inc

Address: 2258 Grissom Drive St Louis MO

Sampler's Signature: Ronnie Allen Telephone # 997 7440

Contact: Sam Brennecke Telephone # Same

Collectors Sample #	Date	Time	Sample Type	No. of Containers	Analysis	Remarks
SS-7	5/23/95	1000	SOIL	1-16oz	SEMI-VOA TOTAL LEAD	10 DAY T.A.
SS-18	↓	1045	↓	↓	↓	↓
SS-19	↓	1125	↓	↓	↓	↓
SS-21	↓	1220	↓	↓	↓	↓
SS-23	↓	1305	↓	↓	↓	↓
SS-16	↓	1350	↓	↓	↓	↓

Receiver Name: Environmetrics Inc St Louis MO
(Company Name and Address)

Chain of Possession:

From: Ronnie Allen 5/23/95 To: [signature] 5-23-95 3:06
(Name and Date/Time) (Name and Date/Time)

From: _____ To: _____

White copy to Laboratory • Yellow copy to COC File • Pink copy to Job File

GEOTECHNOLOGY, INC.
ENGINEERING & ENVIRONMENTAL SERVICES
ST. LOUIS KANSAS CITY INDIANAPOLIS

Page _____ of _____

CHAIN OF CUSTODY RECORD

COC Record # 2148 P.O. # 9942

Project No. 2498.03.4120.03

Project Name: Hubert Wheeler School

Shipper Name: Geotechnology, Inc

Address: 2258 Grissom Drive St Louis MO 63146

Sampler's Signature: [signature] Telephone # 997-7440

Contact: Sam Brennecke Telephone # Same

Collectors Sample #	Date	Time	Sample Type	No. of Containers	Analysis	Remarks
SS-10	5/23/95	1005	Soil	1-16oz	Semi Volatile Organics Total Lead	10 DAY T.A.
SS-17	↓	1045	↓	↓	↓	↓
SS-#-01	↓	1050	↓	↓	↓	↓
2498:EB:1-5	5/23/95	1120	Water	2-liter 1-liter	Semi Volatile Organics Total Lead	↓
SS-20	↓	1200	Soil	1-16oz	Semi Volatile Organics Total Lead	↓
SS-22	↓	1240	↓	↓	↓	↓
SS-15	↓	1320	↓	↓	↓	↓

Receiver Name: Enviroametrics Inc St Louis MO
(Company Name and Address)

Chain of Possession:

From: [signature] 5/23/95
(Name and Date/Time)

To: [signature] 5-23-95 3:10
(Name and Date/Time)

From: _____ To: _____

White copy to Laboratory • Yellow copy to COC File • Pink copy to Job File

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 2147-8
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 05/23/95
Date Logged: 05/23/95
Status: Normal/LEVEL 5

Date Due (PM): 06/05/95
Date Due (Client): 06/07/95
Mode: Mail

Project No.: 2498.03.4120.03 HUBERT
P.O. No.: 09942
Quotation No.:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests

Items Transferred	Relinquished By	Date		Logged In By	Date	Time
14		05/23/95	PM Signature : Karen Coons Client Services Rep.	Phyllis Woods Login Coordinator	05/23/95	15:25:36

Karen Coons

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 2147-8
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 05/23/95
Date Logged: 05/23/95
Status: Normal/LEVEL 5

Date Due (PM): 06/05/95
Date Due (Client): 06/07/95
Mode: Mail

Project No.: 2498.03.4120.03 HUBERT
P.O. No.: 09942
Quotation No.:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests
9505000375-001-01	SS-7	SOIL	1-500 ml GLASS	Cold	05/23/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000375-002-01	SS-18	SOIL	1-500 ml GLASS	Cold	05/23/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000375-003-01	SS-19	SOIL	1-500 ml GLASS	Cold	05/23/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000375-004-01	SS-21	SOIL	1-500 ml GLASS	Cold	05/23/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000375-005-01	SS-23	SOIL	1-500 ml GLASS	Cold	05/23/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000375-006-01	SS-16	SOIL	1-500 ml GLASS	Cold	05/23/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000375-007-01	SS-10	SOIL	1-500 ml GLASS	Cold	05/23/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000375-008-01	SS-17	SOIL	1-500 ml GLASS	Cold	05/23/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000375-009-01	SS-#-01	SOIL	1-500 ml GLASS	Cold	05/23/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000375-010-01	2498:EB:1-S20	GROUND WATER	2-1 LITER GLASS	Cold	05/23/95		SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000375-010-02	2498:EB:1-S20	GROUND WATER	2-1 LITER PLASTIC	Nitric Acid	05/23/95		LEAD, EPA SW-846-SW-846 6010A
	Sample Instructions:						
9505000375-011-01	SS-20	SOIL	1-500 ml GLASS	Cold	05/23/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000375-012-01	SS-22	SOIL	1-500 ml GLASS	Cold	05/23/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000375-013-01	SS-15	SOIL	1-500 ml GLASS	Cold	05/23/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 2147-8
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 05/23/95
Date Logged: 05/23/95
Status: Normal/LEVEL 5

Date Due (PM): 06/05/95
Date Due (Client): 06/07/95
Mode: Mail

Project No.: 2498.03.4120.03 HUB
P.O. No.: 09942
Quotation No.:

Items Transferred	Relinquished By	Date	Time	Received By	Date	Time	Reason For Transfer
Organics	R Woods	5/24/95	9:40	K. Drinnon	5/24/95	910A	PCB
	[illegible]	5/30	9:30	[illegible]	5/30/95	9:33	[illegible]

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

June 08, 1995

Sam Brenneke
Geotechnology, Inc.
2258 Grissom Drive
ST. Louis, MO 63146

JUN 1 5

Subject: Project Summary for the Hubert Wheeler State School Playground Site Restoration
Samples SS-3, SS-4, SS-38, SS-40, SS-36, SS-#-2, SS-33, SS-32, SS-26, 2498:EB:2-S33, SS-1, SS-2, 22-39, SS-35, SS-37, SS-34, SS-31.

Dear Mr. Brenneke:

Please find the analytical reports for the reference project attached. The summary of the project is as follows:

PROJECT IDENTIFICATION:

The following samples were received and analyzed:

Description	Lab #	Received	Analyses
SS-3 9:30	9505-402-001	5/24/95	Total Pb, Semi-Volatiles
SS-4 10:05	9505-402-002	5/24/95	Total Pb, Semi-Volatiles
SS-38 10:35	9505-402-003	5/24/95	Total Pb, Semi-Volatiles
SS-40 11:20	9505-402-004	5/24/95	Total Pb, Semi-Volatiles
SS-36 11:55	9505-402-005	5/24/95	Total Pb, Semi-Volatiles
SS-#-2 12:40	9505-375-006	5/24/95	Total Pb, Semi-Volatiles
SS-33 12:45	9505-402-007	5/24/95	Total Pb, Semi-Volatiles
SS-32 13:45	9505-402-008	5/24/95	Total Pb, Semi-Volatiles

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SS-26 14:30	9505-402-009	5/24/95	Total Pb, Semi-Volatiles
2498:EB:2-S33 13:10	9505-402-010	5/24/95	Total Pb, Semi-Volatiles
SS-1 9:30	9505-402-011	5/24/95	Total Pb, Semi-Volatiles
SS-2 10:10	9505-402-012	5/24/95	Total Pb, Semi-Volatiles
SS-39 10:50	9505-402-013	5/24/95	Total Pb, Semi-Volatiles
SS-35 11:30	9505-402-014	5/24/95	Total Pb, Semi-Volatiles
SS-37 12:15	9505-402-015	5/24/95	Total Pb, Semi-Volatiles
SS-34 13:00	9505-402-016	5/24/95	Total Pb, Semi-Volatiles
SS-31 14:00	9505-402-017	5/24/95	Total Pb, Semi-Volatiles
SS-31 14:00	9505-402-017	5/24/95	Matrix Spike, Matrix Spike Duplicate Total Pb, Semi-Volatiles

Specific methods, extraction, preparation dates, and detection limits are noted on the individual reports attached.

REANALYSES, DILUTIONS, ETC.

The analytical data reflects the result of the initial analysis without dilutions.

QUALITY ASSURANCE SUMMARY:

All Quality Assurance parameters (temperature upon receipt, holding times, spike recoveries, etc.) were within method specifications. Please note that the Total Pb results are reported on a dry weight basis.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

If you have any questions regarding this report please do not hesitate to call: (314) 427-0550. Thank you for your business.

Sincerely,

Karen J. Coons

Project Manager

Attachments

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212
PO # 9945
PROJECT # 2498.03.4120.0003, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

TOTAL LEAD
METHOD SW-846 6010

LAB ID	SAMPLE ID	* RESULTS	
9505/402-001	SS-3 9:30	31.9	mg/kg
9505/402-002	SS-4 10:05	18.4	mg/kg
9505/402-003	SS-38 10:35	48.5	mg/kg
9505/402-004	SS-40 11:20	234	mg/kg
9505/402-005	SS-36 11:55	41.8	mg/kg
9505/402-006	SS-#2 12:40	54.0	mg/kg
9505/402-007	SS-33 12:45	52.9	mg/kg
9505/402-008	SS-32 13:45	71.1	mg/kg
9505/402-009	SS-26 14:30	72.7	mg/kg
9505/402-010	2498:EB:2-S-33 13:10	<0.100	mg/l
9505/402-011	SS-1 9:30	91.3	mg/kg
9505/402-012	SS-2 10:10	38.5	mg/kg
9505/402-013	SS-39 10:50	74.9	mg/kg
9505/402-014	SS-35 11:30	63.0	mg/kg
9505/402-015	SS-37 12:15	1,620	mg/kg
9505/402-016	SS-34 13:00	128	mg/kg
9505/402-017	SS-31 14:00	63.8	mg/kg

* = RESULTS REPORTED ON A DRY WEIGHT BASIS
DATE COLLECTED: 5/24/95
DATE RECEIVED : 5/24/95 17:24
DATE ANALYZED : 6/05/95 R.D.

JUNE 6, 1995

WAYNE L. COOPER PG
LABORATORY DIRECTOR

ENVIRON__ETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212
PO # 9945
PROJECT # 2498.03.4120.0003, HUBERT WHEELER STATE SCHOOL

QUALITY ASSURANCE QUALITY CONTROL REPORT

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
ICP/AA

SAMPLE ID: SS-31 5/24/95 14:00
LAB ID: 9505/402-017

ELEMENT	SAMPLE RESULT (mg/kg)	SPIKE LEVEL (mg/kg)	SPIKE RESULT (mg/kg)	% REC.	DUPLICATE RESULT (mg/kg)	% REC.	RPD
LEAD	63.8	125.8	165.5	81	182.5	94	13

NOTE: RESULTS REPORTED ON A DRY WEIGHT BASIS

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: WASBLK6351

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	10 µg/l	U µg/l
108-95-2	Phenol	10	U
111-44-4	bis(2-chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	o-Cresol	10	U
39638-32-9	bis-(2-Chloro2propyl)Ether	10	U
106-44-5	m & p-Cresol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
103-33-3	Azobenzene	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: WASBLK6351

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	50 µg/l	U µg/l
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenol phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-4	Benzidine	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE EXTRACTED : 5/25/95
DATE ANALYZED : 5/31/95
ANALYST : D.C.

JUNE 6, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6353

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	330 µg/kg	U µg/kg
108-95-2	Phenol	330	U
111-44-4	bis(2-chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	o-Cresol	330	U
39638-32-9	bis-(2-Chloro2propyl)Ether	330	U
106-44-5	m & p-Cresol	330	U
621-64-7	N-Nitroso-Di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	1,700	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1,700	U
131-11-3	Dimethylphthalate	330	U
103-33-3	Azobenzene	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1,700	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1,700	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6353

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,700 µg/kg	U µg/kg
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenol phenyl ether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1,700	U
534-52-1	4,6-Dinitro-2-methylphenol	1,700	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1,700	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
92-87-4	Benzidine	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE EXTRACTED : 5/25/95
DATE ANALYZED : 6/01/95
ANALYST : D.C.

JUNE 6, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

E V RO _ETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-3
LAB ID: 9505/402-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 µg/kg	U µg/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	2,000	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-3
LAB ID: 9505/402-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	400	690
120-12-7	Anthracene	400	U
84-74-2	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	1,200
92-87-4	Benzidine	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	660
218-01-9	Chrysene	400	770
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	1,070
207-08-9	Benzo(k)fluoranthene	400	450
50-32-8	Benzo(a)pyrene	400	680
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/24/95 9:30
DATE RECEIVED : 5/24/95 17:24
DATE EXTRACTED : 5/25/95
DATE ANALYZED : 6/01/95
ANALYST : D.C.

JUNE 6, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

E V RO METRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-4
LAB ID: 9505/402-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	390 µg/kg	U µg/kg
108-95-2	Phenol	390	U
111-44-4	bis(2-chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl Alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	o-Cresol	390	U
39638-32-9	bis-(2-Chloro2propyl)Ether	390	U
106-44-5	m & p-Cresol	390	U
621-64-7	N-Nitroso-Di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	390	U
103-33-3	Azobenzene	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	2,000	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-4
LAB ID: 9505/402-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenol phenyl ether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
84-74-2	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	460
92-87-4	Benzidine	390	U
129-00-0	Pyrene	390	450
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/24/95 10:05
DATE RECEIVED : 5/24/95 17:24
DATE EXTRACTED : 5/25/95
DATE ANALYZED : 6/02/95
ANALYST : D.C.

JUNE 6, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-38
LAB ID: 9505/402-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 µg/kg	U µg/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	1,080
51-28-5	2,4-Dinitrophenol	2,000	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-38
LAB ID: 9505/402-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	540
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	1,300
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	4,000	16,000
120-12-7	Anthracene	400	4,500
84-74-2	Carbazole	400	2,600
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	4,000	23,000
92-87-4	Benzidine	400	U
129-00-0	Pyrene	4,000	16,000
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	4,000	8,600
218-01-9	Chrysene	4,000	6,600
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	4,000	16,000
207-08-9	Benzo(k)fluoranthene	400	2,500
50-32-8	Benzo(a)pyrene	4,000	9,900
193-39-5	Indeno(1,2,3-cd)pyrene	400	3,800
53-70-3	Dibenzo(a,h)anthracene	400	940
191-24-2	Benzo(g,h,i)perylene	400	3,000

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/24/95 10:35
DATE RECEIVED : 5/24/95 17:24
DATE EXTRACTED : 5/25/95
DATE ANALYZED : 6/02 & 03/95
ANALYST : D.C.

JUNE 6, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRON_ETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-40
LAB ID: 9505/402-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	420 µg/kg	U µg/kg
108-95-2	Phenol	420	U
111-44-4	bis(2-chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	o-Cresol	420	U
39638-32-9	bis-(2-Chloro2propyl)Ether	420	U
106-44-5	m & p-Cresol	420	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	420	U
103-33-3	Azobenzene	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2,100	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-40
LAB ID: 9505/402-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenol phenyl ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
84-74-2	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
92-87-4	Benzidine	420	U
129-00-0	Pyrene	420	430
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/24/95 11:20
DATE RECEIVED : 5/24/95 17:24
DATE EXTRACTED : 5/25/95
DATE ANALYZED : 6/02/95
ANALYST : D.C.

JUNE 6, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-36
LAB ID: 9505/402-005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 µg/kg	U µg/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	690
51-28-5	2,4-Dinitrophenol	2,000	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-36
LAB ID: 9505/402-005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	770
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	2,000	10,000
120-12-7	Anthracene	400	2,800
84-74-2	Carbazole	400	1,400
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	2,000	12,000
92-87-4	Benzidine	400	U
129-00-0	Pyrene	2,000	9,700
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	5,000
218-01-9	Chrysene	400	4,700
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	5,900
207-08-9	Benzo(k)fluoranthene	400	1,900
50-32-8	Benzo(a)pyrene	400	4,400
193-39-5	Indeno(1,2,3-cd)pyrene	400	1,900
53-70-3	Dibenzo(a,h)anthracene	400	450
191-24-2	Benzo(g,h,i)perylene	400	1,500

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/24/95 11:55
DATE RECEIVED : 5/24/95 17:24
DATE EXTRACTED : 5/25/95
DATE ANALYZED : 6/02/95
ANALYST : D.C.

JUNE 6, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

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2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-#2
LAB ID: 9505/402-006

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 µg/kg	U µg/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	2,000	U

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-#2
LAB ID: 9505/402-006

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	400	650
120-12-7	Anthracene	400	U
84-74-2	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	920
92-87-4	Benzidine	400	U
129-00-0	Pyrene	400	910
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	500
218-01-9	Chrysene	400	480
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	680
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/24/95 12:40
DATE RECEIVED : 5/24/95 17:24
DATE EXTRACTED : 5/25/95
DATE ANALYZED : 6/02/95
ANALYST : D.C.

JUNE 6, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-33
LAB ID: 9505/402-007

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 µg/kg	U µg/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	2,000	U

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-33
LAB ID: 9505/402-007

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	400	620
120-12-7	Anthracene	400	U
84-74-2	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	830
92-87-4	Benzidine	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	460
218-01-9	Chrysene	400	450
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	640
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/24/95 12:45
DATE RECEIVED : 5/24/95 17:24
DATE EXTRACTED : 5/25/95
DATE ANALYZED : 6/02/95
ANALYST : D.C.

JUNE 6, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

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2345 Millpark Drive
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-32
LAB ID: 9505/402-008

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	2,000	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-32
LAB ID: 9505/402-008

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	410	1,900
120-12-7	Anthracene	410	520
84-74-2	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
92-87-4	Benzidine	410	U
129-00-0	Pyrene	410	2,700
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	1,300
218-01-9	Chrysene	410	1,200
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	1,400
207-08-9	Benzo(k)fluoranthene	410	540
50-32-8	Benzo(a)pyrene	410	1,100
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/24/95 13:45
DATE RECEIVED : 5/24/95 17:24
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DATE ANALYZED : 6/02/95
ANALYST : D.C.

JUNE 6, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

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2345 Millpark Drive
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-26
LAB ID: 9505/402-009

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	690
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	410	410
51-28-5	2,4-Dinitrophenol	2,000	U

ENVIRONMETRICS
2345 Millpark Drive
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-26
LAB ID: 9505/402-009

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	410	5,200
120-12-7	Anthracene	410	800
84-74-2	Carbazole	410	730
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	4,400
92-87-4	Benzidine	410	U
129-00-0	Pyrene	410	3,900
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	1,500
218-01-9	Chrysene	410	1,700
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	2,000
207-08-9	Benzo(k)fluoranthene	410	580
50-32-8	Benzo(a)pyrene	410	1,400
193-39-5	Indeno(1,2,3-cd)pyrene	410	420
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/24/95 14:30
DATE RECEIVED : 5/24/95 17:24
DATE EXTRACTED : 5/25/95
DATE ANALYZED : 6/02/95
ANALYST : D.C.

JUNE 6, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRON__ETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: 2498:EB:2-S-33
LAB ID: 9505/402-010

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	12 µg/l	U µg/l
108-95-2	Phenol	12	U
111-44-4	bis(2-chloroethyl)Ether	12	U
95-57-8	2-Chlorophenol	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
100-51-6	Benzyl Alcohol	12	U
95-50-1	1,2-Dichlorobenzene	12	U
95-48-7	o-Cresol	12	U
39638-32-9	bis-(2-Chloro2propyl)Ether	12	U
106-44-5	m & p-Cresol	12	U
621-64-7	N-Nitroso-Di-n-propylamine	12	U
67-72-1	Hexachloroethane	12	U
98-95-3	Nitrobenzene	12	U
78-59-1	Isophorone	12	U
88-75-5	2-Nitrophenol	12	U
105-67-9	2,4-Dimethylphenol	12	U
65-85-0	Benzoic Acid	58	U
111-91-1	bis(2-Chloroethoxy)methane	12	U
120-83-2	2,4-Dichlorophenol	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
91-20-3	Naphthalene	12	U
106-47-8	4-Chloroaniline	12	U
87-68-3	Hexachlorobutadiene	12	U
59-50-7	4-Chloro-3-methylphenol	12	U
91-57-6	2-Methylnaphthalene	12	U
77-47-4	Hexachlorocyclopentadiene	12	U
88-06-2	2,4,6-Trichlorophenol	12	U
95-95-4	2,4,5-Trichlorophenol	12	U
91-58-7	2-Chloronaphthalene	12	U
88-74-4	2-Nitroaniline	58	U
131-11-3	Dimethylphthalate	12	U
103-33-3	Azobenzene	12	U
208-96-8	Acenaphthylene	12	U
606-20-2	2,6-Dinitrotoluene	12	U
99-09-2	3-Nitroaniline	58	U
83-32-9	Acenaphthene	12	U
51-28-5	2,4-Dinitrophenol	58	U

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2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: 2498:EB:2-S-33
LAB ID: 9505/402-010

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	58 µg/l	U µg/l
132-64-9	Dibenzofuran	12	U
121-14-2	2,4-Dinitrotoluene	12	U
84-66-2	Diethylphthalate	12	U
7005-72-3	4-Chlorophenol phenyl ether	12	U
86-73-7	Fluorene	12	U
100-01-6	4-Nitroaniline	58	U
534-52-1	4,6-Dinitro-2-methylphenol	58	U
86-30-6	N-Nitrosodiphenylamine	12	U
101-55-3	4-Bromophenyl phenyl ether	12	U
118-74-1	Hexachlorobenzene	12	U
87-86-5	Pentachlorophenol	58	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
84-74-2	Carbazole	12	U
84-74-2	Di-n-butylphthalate	12	U
206-44-0	Fluoranthene	12	U
92-87-4	Benzidine	12	U
129-00-0	Pyrene	12	U
85-68-7	Butylbenzylphthalate	12	U
91-94-1	3,3'-Dichlorobenzidine	12	U
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	12	U
117-84-0	Di-n-octylphthalate	12	U
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

U = UNDETECTED
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DATE COLLECTED : 5/24/95 13:10
DATE RECEIVED : 5/24/95 17:24
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DATE ANALYZED : 6/02/95
ANALYST : D.C.

JUNE 6, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-1
LAB ID: 9505/402-011

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 µg/kg	U µg/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	2,000	U

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2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-1
LAB ID: 9505/402-011

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	400	1,700
120-12-7	Anthracene	400	440
84-74-2	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	2,400
92-87-4	Benzidine	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	1,300
218-01-9	Chrysene	400	1,200
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	1,700
207-08-9	Benzo(k)fluoranthene	400	620
50-32-8	Benzo(a)pyrene	400	1,200
193-39-5	Indeno(1,2,3-cd)pyrene	400	430
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/24/95 9:30
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DATE EXTRACTED : 5/25/95
DATE ANALYZED : 6/02/95
ANALYST : D.C.

JUNE 6, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-2
LAB ID: 9505/402-012

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	390 µg/kg	U µg/kg
108-95-2	Phenol	390	U
111-44-4	bis(2-chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl Alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	o-Cresol	390	U
39638-32-9	bis-(2-Chloro2propyl)Ether	390	U
106-44-5	m & p-Cresol	390	U
621-64-7	N-Nitroso-Di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	390	U
103-33-3	Azobenzene	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	2,000	U

ENVIRONMETRICS
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-2
LAB ID: 9505/402-012

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenol phenyl ether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	390	1,800
120-12-7	Anthracene	390	540
84-74-2	Carbazole	390	420
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	3,600
92-87-4	Benzidine	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	1,700
218-01-9	Chrysene	390	2,000
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	2,900
207-08-9	Benzo(k)fluoranthene	390	860
50-32-8	Benzo(a)pyrene	390	1,900
193-39-5	Indeno(1,2,3-cd)pyrene	390	800
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	610

U = UNDETECTED
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DATE COLLECTED : 5/24/95 10:10
DATE RECEIVED : 5/24/95 17:24
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ANALYST : D.C.

JUNE 6, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-39
LAB ID: 9505/402-013

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	2,000	U

ENVIRONMETRICS
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ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-39
LAB ID: 9505/402-013

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	410	2,000
120-12-7	Anthracene	410	500
84-74-2	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	2,300
92-87-4	Benzidine	410	U
129-00-0	Pyrene	410	2,300
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	1,090
218-01-9	Chrysene	410	1,010
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	1,400
207-08-9	Benzo(k)fluoranthene	410	550
50-32-8	Benzo(a)pyrene	410	940
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

U = UNDETECTED
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DATE COLLECTED : 5/24/95 10:50
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DATE ANALYZED : 6/02/95
ANALYST : D.C.

JUNE 6, 1995

WAYNE L. COOPER Ph.D
LABORATORY DIRECTOR

ENVIRONMETRICS
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-35
LAB ID: 9505/402-014

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	390 µg/kg	U µg/kg
108-95-2	Phenol	390	U
111-44-4	bis(2-chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl Alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	o-Cresol	390	U
39638-32-9	bis-(2-Chloro2propyl)Ether	390	U
106-44-5	m & p-Cresol	390	U
621-64-7	N-Nitroso-Di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	390	U
103-33-3	Azobenzene	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	2,000	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-35
LAB ID: 9505/402-014

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenol phenyl ether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	390	1,900
120-12-7	Anthracene	390	500
84-74-2	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	2,800
92-87-4	Benzidine	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	1,300
218-01-9	Chrysene	390	1,300
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	1,700
207-08-9	Benzo(k)fluoranthene	390	680
50-32-8	Benzo(a)pyrene	390	1,300
193-39-5	Indeno(1,2,3-cd)pyrene	390	410
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/24/95 11:30
DATE RECEIVED : 5/24/95 17:24
DATE EXTRACTED : 5/25/95
DATE ANALYZED : 6/02/95
ANALYST : D.C.

JUNE 6, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-37
LAB ID: 9505/402-015

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	2,100	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-37
LAB ID: 9505/402-015

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	410	2,100
120-12-7	Anthracene	410	510
84-74-2	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	2,800
92-87-4	Benzidine	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	1,300
218-01-9	Chrysene	410	1,400
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	1,700
207-08-9	Benzo(k)fluoranthene	410	610
50-32-8	Benzo(a)pyrene	410	1,200
193-39-5	Indeno(1,2,3-cd)pyrene	410	420
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/24/95 12:15
DATE RECEIVED : 5/24/95 17:24
DATE EXTRACTED : 5/25/95
DATE ANALYZED : 6/02/95
ANALYST : D.C.

JUNE 6, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-34
LAB ID: 9505/402-016

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	2,100	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-34
LAB ID: 9505/402-016

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	410	1,700
120-12-7	Anthracene	410	470
84-74-2	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	2,100
92-87-4	Benzidine	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	1,010
218-01-9	Chrysene	410	960
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	1,300
207-08-9	Benzo(k)fluoranthene	410	560
50-32-8	Benzo(a)pyrene	410	900
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/24/95 13:00
DATE RECEIVED : 5/24/95 17:24
DATE EXTRACTED : 5/25/95
DATE ANALYZED : 6/02/95
ANALYST : D.C.

JUNE 6, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-31
LAB ID: 9505/402-017

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	420 µg/kg	U µg/kg
108-95-2	Phenol	420	U
111-44-4	bis(2-chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	o-Cresol	420	U
39638-32-9	bis-(2-Chloro2propyl)Ether	420	U
106-44-5	m & p-Cresol	420	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	420	U
103-33-3	Azobenzene	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2,100	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32212 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9945 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-31
LAB ID: 9505/402-017

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenol phenyl ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	420	2,200
120-12-7	Anthracene	420	460
84-74-2	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	2,800
92-87-4	Benzidine	420	U
129-00-0	Pyrene	420	2,600
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	1,300
218-01-9	Chrysene	420	1,300
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	1,500
207-08-9	Benzo(k)fluoranthene	420	520
50-32-8	Benzo(a)pyrene	420	1,100
193-39-5	Indeno(1,2,3-cd)pyrene	420	530
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/24/95 14:00
DATE RECEIVED : 5/24/95 17:24
DATE EXTRACTED : 5/25/95
DATE ANALYZED : 6/03/95
ANALYST : D.C.

JUNE 6, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Environmetrics Contract: GEOTECH.

Lab code: Case No.: DRY SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: 9505402-17 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	8400	0	5200	62	26- 90
2-Chlorophenol	8400	0	4500	53	25-102
1,4-Dichlorobenzene	4200	0	600	14 *	28-104
N-Nitroso-Di-nPropylami	4200	0	2900	68	41-126
1,2,4-Trichlorobenzene	4200	0	1800	43	38-107
4-Chloro-3-Methylphenol	8400	0	6000	71	26-103
Acenaphthene	4200	0	3300	80	31-137
4-Nitrophenol	8400	0	4800	56	11-114
2,4-Dinitrotoluene	4200	0	3300	79	28- 89
Pentachlorophenol	8400	0	1700	21	17-109
Pyrene	4200	2600	9000	152 *	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	8400	5200	62	1	35	26- 90
2-Chlorophenol	8400	4500	54	2	50	25-102
1,4-Dichlorobenzene	4200	870	21 *	37 *	27	28-104
N-Nitroso-Di-nPropylami	4200	2900	68	0	38	41-126
1,2,4-Trichlorobenzene	4200	2000	48	10	23	38-107
4-Chloro-3-Methylphenol	8400	6300	75	5	33	26-103
Acenaphthene	4200	3100	74	7	19	31-137
4-Nitrophenol	8400	5000	59	5	50	11-114
2,4-Dinitrotoluene	4200	3500	82	4	47	28- 89
Pentachlorophenol	8400	1600	19	6	47	17-109
Pyrene	4200	7800	125	19	36	35-142

column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 11 outside limits

Spike Recovery: 3 out of 22 outside limits

COMMENTS: _____

GEOTECHNOLOGY, INC.
ENGINEERING & ENVIRONMENTAL SERVICES
ST. LOUIS KANSAS CITY INDIANAPOLIS

Page _____ of _____

CHAIN OF CUSTODY RECORD

COC Record # 2150 P.O. # 9945

Project No. 2498.03 4120.03

Project Name: Hubert Wheeler State School

Shipper Name: Geotechnology Inc

Address: 2258 Grissom Drive St Louis MO

Sampler's Signature: [signature] Telephone # 997 7440

Contact: Sam Brennecke Telephone # Same

Collectors Sample #	Date	Time	Sample Type	No. of Containers	Analysis	Remarks
SS-3	5/24/95	0930	Soil	1-16 oz	Semi Volatile Organics Total Lead	10 DAY T.A.
SS-4	↓	1005	↓	↓	↓	↓
SS-38	↓	1035	↓	↓	↓	↓
SS-40.	↓	1120	↓	↓	↓	↓
SS-36	↓	1155	↓	↓	↓	↓
SS-#-2.	↓	1240	↓	↓	↓	↓
SS-33	↓	1245	↓	↓	↓	↓
SS-32	↓	1345	↓	↓	↓	↓
SS-26	↓	1430	↓	↓	↓	↓
2498:EB:2-S~~32~~33 RL 5/25/95	↓	1310	Water	2-1.ter 1-1.ter	Semi Volatile Organics Total Lead	↓

Receiver Name: Environmetrics Inc St Louis MO 631
(Company Name and Address)

Chain of Possession:

From: [signature] 5/24/95 To: [signature] 5-24-95
(Name and Date/Time) (Name and Date/Time) 955

From: _____ To: _____

White copy to Laboratory • Yellow copy to COC File • Pink copy to Job File

GEOTECHNOLOGY, INC.
ENGINEERING & ENVIRONMENTAL SERVICES
ST. LOUIS KANSAS CITY INDIANAPOLIS

Page ____ of ____

CHAIN OF CUSTODY RECORD

COC Record # 2149 P.O. # 9945

Project No. 2498.03.4120.03

Project Name: HUBERT WHEELER STATE SCHOOL

Shipper Name: GEOTECHNOLOGY INC.

Address: 2258 GRISSOM DRIVE

Sampler's Signature: Ronnie Allen Telephone # 997-7440

Contact: SAM BRENNEKE Telephone # SAME

Collectors Sample #	Date	Time	Sample Type	No. of Containers	Analysis	Remarks
SS-1	5/24/95	0930	SOIL	1-16 OZ	SEMI-VOA TOTAL LEAD	10 DAY T.A.
SS-2		1010				
SS-39		1050				
SS-35		1130				
SS-37		1215				
SS-34		1300				
* SS-31		1400				
	* analyze MS/MSD				KC 5/24/95	

Receiver Name: ENVIRONMETRICS INC. MARYLAND HEIGHTS MO. 63043
(Company Name and Address)

Chain of Possession:

From: Ronnie Allen 5/24/95 To: [signature] 5-24-95
(Name and Date/Time) (Name and Date/Time)

352

From: _____ To: _____

White copy to Laboratory • Yellow copy to COC File • Pink copy to Job File

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 2149/50
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 05/24/95
Date Logged: 05/24/95
Status: Normal/LEVEL 4

Date Due (PM): 06/06/95
Date Due (Client): 06/08/95
Mode: Mail

Project No.: 2498.03.4120.03
P.O. No.: 9945
Quotation No.:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests
9505000402-001-01	SS-3	SOIL	1-500 ml GLASS	Cold	05/24/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000402-002-01	SS-4	SOIL	1-500 ml GLASS	Cold	05/24/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000402-003-01	SS-38	SOIL	1-500 ml GLASS	Cold	05/24/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000402-004-01	SS-40	SOIL	1-500 ml GLASS	Cold	05/24/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000402-005-01	SS-36	SOIL	1-500 ml GLASS	Cold	05/24/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000402-006-01	SS-#-2	SOIL	1-500 ml GLASS	Cold	05/24/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000402-007-01	SS-33	SOIL	1-500 ml GLASS	Cold	05/24/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000402-008-01	SS-32	SOIL	1-500 ml GLASS	Cold	05/24/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000402-009-01	SS-28	SOIL	1-500 ml GLASS	Cold	05/24/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000402-010-01	2498:EB:Z-S32	GROUND WATER	1-1 LITER PLASTIC	Nitric Acid	05/24/95		LEAD, EPA SW-846-SW-846 6010A
	Sample Instructions:						
9505000402-010-02	2498:EB:Z-S32	WASTE WATER	2-1 LITER GLASS	Cold	05/24/95		SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000402-011-01	SS-1	SOIL	1-500 ml GLASS	Cold	05/24/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000402-012-01	SS-2	SOIL	1-500 ml GLASS	Cold	05/24/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000402-013-01	SS-39	SOIL	1-500 ml GLASS	Cold	05/24/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 2149/50
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 05/24/95
Date Logged: 05/24/95
Status: Normal/LEVEL 4

Date Due (PM): 06/06/95
Date Due (Client): 06/08/95
Mode: Mail

Project No.: 2498.03.4120.03
P.O. No.: 9945
Quotation No.:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests
505000402-014-01	SS-35	SOIL	1-500 ml GLASS	Cold	05/24/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
505000402-015-01	SS-37	SOIL	1-500 ml GLASS	Cold	05/24/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
505000402-016-01	SS-34	SOIL	1-500 ml GLASS	Cold	05/24/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
MATRIX SPIKE, M.S.D. 505000402-017-01	SS-31	SOIL	1-500 ml GLASS	Cold	05/24/95		LEAD, EPA SW-846-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						

Items Transferred	Relinquished By	Date		Logged In By	Date	Time
18		05/24/95	PM Signature : Karen Coons Client Services Rep.	Phyllis Woods Login Coordinator	05/24/95	17:24:15

Karen Coons

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

coc : 2149/50
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 05/24/95
Date Logged: 05/24/95
Status: Normal/LEVEL 4

Date Due (PM): 06/06/95
Date Due (Client): 06/08/95
Mode: Mail

Project No.: 2498.03.4120.03
P.O. No.: 9945
Quotation No.:

Items Transferred	Relinquished By	Date	Time	Received By	Date	Time	Reason For Transfer
	[illegible]	5/25	8:49	[illegible]	5/25	8:49	[illegible]
1	P Woods	5/25/95	9:10 Am	[illegible]	6/23/95	9:10 Am	[illegible]

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

June 12, 1995

Sam Brenneke
Geotechnology, Inc.
2258 Grissom Drive
ST. Louis, MO 63146

JUN 14 '95

Subject: Project Summary for the Hubert Wheeler State School Playground Site Restoration Samples SS-30, SS-29, SS-25, SS-28, SS-27, SS-24.

Dear Mr. Brenneke:

Please find the analytical reports for the reference project attached. The summary of the project is as follows:

PROJECT IDENTIFICATION:

The following samples were received and analyzed:

Description	Lab #	Received	Analyses
SS-30 10:15	9505-418-001	5/25/95	Total Pb, Semi-Volatiles
SS-29 11:15	9505-418-002	5/25/95	Total Pb, Semi-Volatiles
SS-25 12:05	9505-418-003	5/25/95	Total Pb, Semi-Volatiles
SS-28 10:40	9505-418-004	5/25/95	Total Pb, Semi-Volatiles
SS-27 11:40	9505-418-005	5/25/95	Total Pb, Semi-Volatiles
SS-24 12:30	9505-418-006	5/25/95	Total Pb, Semi-Volatiles

Specific methods, extraction, preparation dates, and detection limits are noted on the individual reports attached.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

REANALYSES, DILUTIONS, ETC.

The analytical data reflects the result of the initial analysis without dilutions.

QUALITY ASSURANCE SUMMARY:

All Quality Assurance parameters (temperature upon receipt, holding times, spike recoveries, etc.) were within method specifications. Please note that the Total Pb results are reported on a dry weight basis.

If you have any questions regarding this report please do not hesitate to call: (314) 427-0550. Thank you for your business.

Sincerely,

Karen J. Coons

Project Manager

Attachments

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32245
PO # 9956
PROJECT # 2498.03.4120.0003, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

TOTAL LEAD
METHOD SW-846 6010

LAB ID	SAMPLE ID	RESULTS
9505/418-001	SS-30 10:15	116 mg/kg
9505/418-002	SS-29 11:15	135 mg/kg
9505/418-003	SS-25 12:05	90.0 mg/kg
9505/418-004	SS-28 10:40	67.8 mg/kg
9505/418-005	SS-27 11:40	88.3 mg/kg
9505/418-006	SS-24 12:30	65.6 mg/kg

DATE COLLECTED: 5/25/95
DATE RECEIVED : 5/25/95 14:47
DATE ANALYZED : 6/07/95 R.D.

JUNE 7, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32245 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9956 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6375

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	330 µg/kg	U µg/kg
108-95-2	Phenol	330	U
111-44-4	bis(2-chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	o-Cresol	330	U
39638-32-9	bis-(2-Chloro2propyl)Ether	330	U
106-44-5	m & p-Cresol	330	U
621-64-7	N-Nitroso-Di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	1,700	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1,700	U
131-11-3	Dimethylphthalate	330	U
103-33-3	Azobenzene	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1,700	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1,700	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32245 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9956 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6375

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,700 µg/kg	U µg/kg
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenol phenyl ether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1,700	U
534-52-1	4,6-Dinitro-2-methylphenol	1,700	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1,700	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
92-87-4	Benzidine	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE EXTRACTED : 6/01/95
DATE ANALYZED : 6/03/95
ANALYST : D.C.

JUNE 7, 1995
WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32245 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9956 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-30
LAB ID: 9505/418-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	440 µg/kg	U µg/kg
108-95-2	Phenol	440	U
111-44-4	bis(2-chloroethyl)Ether	440	U
95-57-8	2-Chlorophenol	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
100-51-6	Benzyl Alcohol	440	U
95-50-1	1,2-Dichlorobenzene	440	U
95-48-7	o-Cresol	440	U
39638-32-9	bis-(2-Chloro2propyl)Ether	440	U
106-44-5	m & p-Cresol	440	U
621-64-7	N-Nitroso-Di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
65-85-0	Benzoic Acid	2,200	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
120-82-1	1,2,4-Trichlorobenzene	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	440	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	2,200	U
131-11-3	Dimethylphthalate	440	U
103-33-3	Azobenzene	440	U
208-96-8	Acenaphthylene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
99-09-2	3-Nitroaniline	2,200	U
83-32-9	Acenaphthene	440	U
51-28-5	2,4-Dinitrophenol	2,200	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32245 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9956 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-30
LAB ID: 9505/418-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,200 µg/kg	U µg/kg
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
7005-72-3	4-Chlorophenol phenyl ether	440	U
86-73-7	Fluorene	440	U
100-01-6	4-Nitroaniline	2,200	U
534-52-1	4,6-Dinitro-2-methylphenol	2,200	U
86-30-6	N-Nitrosodiphenylamine	440	U
101-55-3	4-Bromophenyl phenyl ether	440	U
118-74-1	Hexachlorobenzene	440	U
87-86-5	Pentachlorophenol	2,200	U
85-01-8	Phenanthrene	440	1,400
120-12-7	Anthracene	440	U
84-74-2	Carbazole	440	U
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	440	1,900
92-87-4	Benzidine	440	U
129-00-0	Pyrene	440	1,700
85-68-7	Butylbenzylphthalate	440	960
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	440	930
218-01-9	Chrysene	440	960
117-81-7	bis(2-Ethylhexyl)phthalate	440	1,100
117-84-0	Di-n-octylphthalate	440	770
205-99-2	Benzo(b)fluoranthene	440	1,100
207-08-9	Benzo(k)fluoranthene	440	500
50-32-8	Benzo(a)pyrene	440	790
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenzo(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/25/95 10:15
DATE RECEIVED : 5/25/95 14:47
DATE EXTRACTED : 6/01/95
DATE ANALYZED : 6/03/95
ANALYST : D.C.

JUNE 7, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32245 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9956 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-29
LAB ID: 9505/418-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	430 µg/kg	U µg/kg
108-95-2	Phenol	430	U
111-44-4	bis(2-chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
100-51-6	Benzyl Alcohol	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	o-Cresol	430	U
39638-32-9	bis-(2-Chloro2propyl)Ether	430	U
106-44-5	m & p-Cresol	430	U
621-64-7	N-Nitroso-Di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
65-85-0	Benzoic Acid	2,200	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	2,200	U
131-11-3	Dimethylphthalate	430	U
103-33-3	Azobenzene	430	U
208-96-8	Acenaphthylene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
99-09-2	3-Nitroaniline	2,200	U
83-32-9	Acenaphthene	430	U
51-28-5	2,4-Dinitrophenol	2,200	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32245 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9956 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-29
LAB ID: 9505/418-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,200 µg/kg	U µg/kg
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenol phenyl ether	430	U
86-73-7	Fluorene	430	U
100-01-6	4-Nitroaniline	2,200	U
534-52-1	4,6-Dinitro-2-methylphenol	2,200	U
86-30-6	N-Nitrosodiphenylamine	430	U
101-55-3	4-Bromophenyl phenyl ether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	2,200	U
85-01-8	Phenanthrene	430	1,050
120-12-7	Anthracene	430	U
84-74-2	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	430	1,400
92-87-4	Benzidine	430	U
129-00-0	Pyrene	430	U
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	430	680
218-01-9	Chrysene	430	680
117-81-7	bis(2-Ethylhexyl)phthalate	430	U
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	430	840
207-08-9	Benzo(k)fluoranthene	430	U
50-32-8	Benzo(a)pyrene	430	540
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	430	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/25/95 11:15
DATE RECEIVED : 5/25/95 14:47
DATE EXTRACTED : 6/01/95
DATE ANALYZED : 6/03/95
ANALYST : D.C.

JUNE 7, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32245 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9956 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-25
LAB ID: 9505/418-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	430 µg/kg	U µg/kg
108-95-2	Phenol	430	U
111-44-4	bis(2-chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
100-51-6	Benzyl Alcohol	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	o-Cresol	430	U
39638-32-9	bis-(2-Chloro2propyl)Ether	430	U
106-44-5	m & p-Cresol	430	U
621-64-7	N-Nitroso-Di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	430	U
103-33-3	Azobenzene	430	U
208-96-8	Acenaphthylene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	430	U
51-28-5	2,4-Dinitrophenol	2,100	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32245 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9956 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-25
LAB ID: 9505/418-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenol phenyl ether	430	U
86-73-7	Fluorene	430	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	430	U
101-55-3	4-Bromophenyl phenyl ether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	430	1,060
120-12-7	Anthracene	430	U
84-74-2	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	430	1,500
92-87-4	Benzidine	430	U
129-00-0	Pyrene	430	1,400
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	430	700
218-01-9	Chrysene	430	730
117-81-7	bis(2-Ethylhexyl)phthalate	430	U
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	430	880
207-08-9	Benzo(k)fluoranthene	430	U
50-32-8	Benzo(a)pyrene	430	560
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	430	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/25/95 12:05
DATE RECEIVED : 5/25/95 14:47
DATE EXTRACTED : 6/01/95
DATE ANALYZED : 6/03/95
ANALYST : D.C.

JUNE 7, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32245 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9956 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-28
LAB ID: 9505/418-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	420 µg/kg	U µg/kg
108-95-2	Phenol	420	U
111-44-4	bis(2-chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	o-Cresol	420	U
39638-32-9	bis-(2-Chloro2propyl)Ether	420	U
106-44-5	m & p-Cresol	420	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	420	U
103-33-3	Azobenzene	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2,100	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32245 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9956 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-28
LAB ID: 9505/418-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenol phenyl ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	420	450
120-12-7	Anthracene	420	U
84-74-2	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	610
92-87-4	Benzidine	420	U
129-00-0	Pyrene	420	580
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	470
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/25/95 10:40
DATE RECEIVED : 5/25/95 14:47
DATE EXTRACTED : 6/01/95
DATE ANALYZED : 6/03/95
ANALYST : D.C.

JUNE 7, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32245 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9956 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-27
LAB ID: 9505/418-005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	430 µg/kg	U µg/kg
108-95-2	Phenol	430	U
111-44-4	bis(2-chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
100-51-6	Benzyl Alcohol	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	o-Cresol	430	U
39638-32-9	bis-(2-Chloro2propyl)Ether	430	U
106-44-5	m & p-Cresol	430	U
621-64-7	N-Nitroso-Di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
65-85-0	Benzoic Acid	2,200	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	2,200	U
131-11-3	Dimethylphthalate	430	U
103-33-3	Azobenzene	430	U
208-96-8	Acenaphthylene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
99-09-2	3-Nitroaniline	2,200	U
83-32-9	Acenaphthene	430	U
51-28-5	2,4-Dinitrophenol	2,200	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32245 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9956 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-27
LAB ID: 9505/418-005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,200 µg/kg	U µg/kg
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenol phenyl ether	430	U
86-73-7	Fluorene	430	U
100-01-6	4-Nitroaniline	2,200	U
534-52-1	4,6-Dinitro-2-methylphenol	2,200	U
86-30-6	N-Nitrosodiphenylamine	430	U
101-55-3	4-Bromophenyl phenyl ether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	2,200	U
85-01-8	Phenanthrene	430	820
120-12-7	Anthracene	430	U
84-74-2	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	430	1,600
92-87-4	Benzidine	430	U
129-00-0	Pyrene	430	1,600
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	430	1,000
218-01-9	Chrysene	430	1,000
117-81-7	bis(2-Ethylhexyl)phthalate	430	U
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	430	1,300
207-08-9	Benzo(k)fluoranthene	430	530
50-32-8	Benzo(a)pyrene	430	920
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	430	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/25/95 11:40
DATE RECEIVED : 5/25/95 14:47
DATE EXTRACTED : 6/01/95
DATE ANALYZED : 6/03/95
ANALYST : D.C.

JUNE 7, 1995

WAYNE L. COOPER PhD
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32245 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9956 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-24
LAB ID: 9505/418-006

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	2,000	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32245 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 9956 METHOD SW-846 8270
PROJECT # 2498.03.4120.0003 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SS-24
LAB ID: 9505/418-006

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	410	690
120-12-7	Anthracene	410	U
84-74-2	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	930
92-87-4	Benzidine	410	U
129-00-0	Pyrene	410	940
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	490
218-01-9	Chrysene	410	430
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	570
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 5/25/95 12:30
DATE RECEIVED : 5/25/95 14:47
DATE EXTRACTED : 6/01/95
DATE ANALYZED : 6/04/95
ANALYST : D.C.

JUNE 7, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

GEOTECHNOLOGY, INC.
ENGINEERING & ENVIRONMENTAL SERVICES
ST. LOUIS KANSAS CITY INDIANAPOLIS

Page _____ of _____

CHAIN OF CUSTODY RECORD

COC Record # 2152 P.O. # 9956

Project No. 2498.03.4120.03

Project Name: HUBERT WHEELER STATE SCHOOL

Shipper Name: GEOTECHNOLOGY INC.

Address: 2258 GRISSOM DRIVE

Sampler's Signature: Ronnie Allen Telephone # 997-7440

Contact: SAM BAENNEKE Telephone # SAME

Collectors Sample #	Date	Time	Sample Type	No. of Containers	Analysis	Remarks
SS-30	5/25/95	1015	SOIL	1-16 OZ	SEMI-VOA TOTAL LEAD	10 DAY T.A.
SS-29	↓	1115	↓	↓	↓	↓
SS-25	↓	1205	↓	↓	↓	↓

Receiver Name: ENVIRONMETRICS INC. MARYLAND HEIGHTS MO. 63043
(Company Name and Address)

Chain of Possession:

From: Ronnie Allen 5/25/95 1:47 To: [illegible] 5-25-95 1:47
(Name and Date/Time) (Name and Date/Time)

From: _____ To: _____

White copy to Laboratory • Yellow copy to COC File • Pink copy to Job File

GEOTECHNOLOGY, INC.
ENGINEERING & ENVIRONMENTAL SERVICES
ST. LOUIS KANSAS CITY INDIANAPOLIS

Page _____ of _____

CHAIN OF CUSTODY RECORD

COC Record # 2151 P.O. # 9946

Project No. 2498.03.4120.03

Project Name: Hubert Wheeler State School

Shipper Name: Geotechnology, Inc

Address: 2258 Grissom Drive St. Louis MO 63146

Sampler's Signature: [signature] Telephone # 997-7440

Contact: Sam Brennecke Telephone # Same

Collectors Sample #	Date	Time	Sample Type	No. of Containers	Analysis	Remarks
SS-28	5/25/95	1040	Soil	1-16 oz	Semi Volatiles Organics Total Lead	10 DAY T.A.
SS-27	5/25/95	1140	↓	↓	↓ ↓	↓
SS-24	5/25/95	1230	↓	↓	↓ ↓	↓

Receiver Name: Environmetrics Inc St. Louis MO
(Company Name and Address)

Chain of Possession:

From: [signature] 5/25/95 1:47 (Name and Date/Time) To: [signature] 5-25-95 1:47 (Name and Date/Time)

From: _____ To: _____

White copy to Laboratory • Yellow copy to COC File • Pink copy to Job File

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 2151/52
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 05/25/95
Date Logged: 05/25/95
Status: Normal/LEVEL 4

Date Due (PM): 06/07/95
Date Due (Client): 06/09/95
Mode: Mail

Project No.: 2498.03.4120.03
P.O. No.: 9946
Quotation No.:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests
9505000418-001-01	SS-30	SOIL	1-500 ml GLASS	Cold	05/25/95		LEAD-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000418-002-01	SS-29	SOIL	1-500 ml GLASS	Cold	05/25/95		LEAD-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000418-003-01	SS-25	SOIL	1-500 ml GLASS	Cold	05/25/95		LEAD-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000418-004-01	SS-28	SOIL	1-500 ml GLASS	Cold	05/25/95		LEAD-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000418-005-01	SS-27	SOIL	1-500 ml GLASS	Cold	05/25/95		LEAD-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9505000418-006-01	SS-24	SOIL	1-500 ml GLASS	Cold	05/25/95		LEAD-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						

Items Transferred	Relinquished By	Date		Logged In By	Date	Time
6		05/25/95	PM Signature : Karen Coons Client Services Rep.	Phyllis Woods Login Coordinator	05/25/95	14:47:28

Karen Coons

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 2151/52
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 05/25/95
Date Logged: 05/25/95
Status: Normal/LEVEL 4

Date Due (PM): 06/07/95
Date Due (Client): 06/09/95
Mode: Mail

Project No.: 2498.03.4120.03
P.O. No.: 9946
Quotation No.:

Items Transferred	Relinquished By	Date	Time	Received By	Date	Time	Reason For Transfer
	[illegible]	6-1	903	[illegible]	6-1-95	903	
	P Woods	6-6	830	[illegible]	6-6	830	Metals

APPENDIX D

WASTE DISPOSAL DOCUMENTATION

BFI Waste Systems™

BROWNING-FERRIS INDUSTRIES

WCD No. SB 19231

/ / /

BFI WASTE CODE

WASTE EVALUATION REQUEST

BFI to complete this area.

BFI Initiator: _____

Location: _____

Company Number: _____

Telephone: ( ) _____

Fax: ( ) _____

Date: _____

Action Requested: ☐ New Waste Approval

☐ Up-Date Approval - Previous Number: _____

Disposal Site Requested: _____

Company Number: _____

Disposal Method Requested: ☐ Working Face ☐ Daily Cover

☐ Other _____

WASTE CHARACTERIZATION DATA
Petroleum Contaminated Soils

IMPORTANT: This form is to be used to describe contaminated soils resulting from the release of petroleum products only and is not to be used for hazardous waste or PCB's regulated by a federal or applicable state, provincial, or local authority.

INSTRUCTIONS: A representative of the generator must complete the Waste Characterization Data (WCD) portion of this form. Please be thorough in your answers. The entire form must be completed, answers must be legibly printed in ink or typewritten, and the completed form must be signed and dated. Please attach any additional relevant information such as analytical data that will help to describe the waste and expedite its review. Use the form only one time since this form has a unique WCD number assigned.

1. GENERATOR INFORMATION

a) Generator's Name: Mo. Dept. of Elementary and Secondary Education

b) Generating Facility's Address: 5707 Wilson Ave.

City: St. Louis State: MO Zip: 63110

c) Generator's Representative: Ronald Littich

Title: Director of Facilities

Telephone: (314) 751-8296

Fax: ( )

d) Emergency/Information Contact: Sam Brenneke

Title: Associate

Telephone: (314) 997-7440

e) Customer's Name: Geotechnology, Inc

f) Customer's Mailing Address: 2258 Grissom Drive

City: St. Louis State: MO Zip: 63146

g) Representative: Sam Brenneke

Telephone: (314) 997-7440

Fax: (314) 997-2067

2. GENERAL WASTE STREAM INFORMATION

a) This waste was generated as a result of: 1) ☐ UST Removal 2) ☐ AST Removal 3) ☐ Spill Soil borings

b) Type of facility generating the contaminated soil: Missouri State School

c) Is this waste subject to the UST corrective action regulations under 40 CFR 280? ☐ Yes ☒ No

d) Anticipated Volume: 20 ☒ Cubic Yards ☐ Tons ☐ Gallons ☐ Cubic Meters ☐ Tonnes(metric)

Other _____ Per: ☐ Year ☐ Month ☐ Week ☐ Day ☒ One Time ☐ Other _____

To be transported in: ☒ Bulk ☐ Drums (type/size) _____ ☐ Other _____

e) Is this a "Hazardous Waste" as defined by State, Provincial, or local Regulations? ☐ Yes ☒ No

If yes, enter the Waste Identification Number if one has been assigned: _____

f) Is this a "Special Waste", an "Industrial Process Waste", or a "Pollution Control Waste" as defined by State, Provincial, or local Regulations?

☒ Yes ☐ No If yes, enter Waste Identification Number, if one has been assigned: _____

g) Recommended personal protection equipment and special handling procedures: Wear nitrile protective gloves

h) Has a representative sample of the contaminated soil been provided to BFI? ☐ Yes ☒ No

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

TN: Sam Brenneke

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE: 33035
PO: 10125
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SOIL DRUM:COMP AND 1 VOA CONTAINER
LAB ID: 9507000170-009
DATE COLLECTED: 07/13/95 11:45
DATE RECEIVED: 07/13/95 17:46

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TCLP ARSENIC	SW-846 1311/6010A	<0.200 mg/L	7/24/95 R.D.
TCLP BARIUM	SW-846 1311/6010A	0.969 mg/L	
TCLP CADMIUM	SW-846 1311/6010A	0.0100 mg/L	
TCLP CHROMIUM	SW-846 1311/6010A	<0.010 mg/L	
TCLP LEAD	SW-846 1311/6010A	<0.100 mg/L	
TCLP MERCURY	SW-846 1311/7470	0.002700 mg/L	
TCLP SELENIUM	SW-846 1311/6010A	<0.200 mg/L	
TCLP SILVER	SW-846 1311/6010A	<0.040 mg/L	
REACTIVE CYANIDE	SW-846 9010	<0.5 mg/Kg	7/24/95 S.H.
	SW-846 9045	8	7/19/95 T.H.
PHENOLS	SW-846 9065	<1.0 mg/Kg	7/20/95 S.H.
REACTIVE SULFIDE	SW-846 9030	16.4 mg/Kg	7/24/95 S.H.
IGNITABILITY (CLOSED CUP)	SW-846 1020	>200 °F	7/18/95 R.P.
PAINT FILTER	SW-846 9095	NO FREE LIQUID (PASSED)	7/19/95 T.H.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

TCLP SPIKE RECOVERY FORM

METALS

SAMPLE ID: SOIL DRUM: COMP
LAB ID: 9507/170-009
DATE COLLECTED: 7/13/95 11:45
DATE RECEIVED: 7/13/95 17:46

ELEMENT	SAMPLE RESULT MG/L	SPIKE LEVEL MG/L	SPIKE RESULT MG/L	PERCENT RECOVERY
ARSENIC	<0.200	5.0	4.81	96
BARIUM	0.969	5.0	5.43	89
CADMIUM	0.010	1.0	0.881	87
CHROMIUM	<0.010	5.0	4.54	91
LEAD	<0.100	5.0	4.74	95
MERCURY	0.0027	0.002	0.0045	90
SELENIUM	<0.200	1.0	1.04	104
SILVER	<0.040	1.0	0.954	95

$$\text{PERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT})}{\text{SPIKE LEVEL}} \times 100$$

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

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2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

DUPLICATE

LAB ID	SAMPLE ID	ELEMENT	RESULTS	ANALYST
9507/170 009	SOIL DRUM COMP.	pH	7.92	7/19/95 T.H.
		IGNITABILTIY	>200 °F	7/19/95 T.H.

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2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

SAMPLE ID: LABORATORY CONTROL SAMPLE
LAB ID: LCS

ELEMENT	SPIKE ADDED		SAMPLE RECOVERY		PERCENT RECOVERY	ANALYST
REACTIVE SULFIDE	200	mg/l	194	mg/l	97	7/24/95 SH
REACTIVE CYANIDE	0.20	mg/l	0.19	mg/l	95	7/24/95 AC
PHENOL	0.50	mg/l	0.52	mg/l	103	7/20/95 SH

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Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS REPORT

PCBs IN SOIL

SW-846 8080

LAB NO.	SAMPLE NO.	IDENTIFICATION	TOTAL ppm	TYPE
9507/170-009		MATRIX SPIKE	0.76 152	1248 % RECOVERY
9507/170-009		MATRIX SPIKE DUPLICATE	0.75 150	1248 % RECOVERY
9507/170-009		SOIL DRUM: SOIL	<3	--

DATE COLLECTED : 7/13/95 11:45
DATE RECEIVED : 7/13/95 17:46
DATE ANALYZED : 7/17/95
ANALYST : C.D.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

TCLP VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

SAMPLE ID: TCLP BLANK
LAB ID: TDBLK1519A

CAS NUMBER		REGULATORY LEVEL µg/L	PRACTICAL QUANTITATION LIMIT	RESULTS
75-01-4	Vinyl Chloride	200	100 µg/l	U µg/l
75-35-4	1,1-Dichloroethene	700	50	U
67-66-3	Chloroform	6,000	200	U
107-06-2	1,2-Dichloroethane	500	50	U
78-93-3	2-Butanone	200,000	150	U
56-23-5	Carbon Tetrachloride	500	50	U
79-01-6	Trichloroethene	500	50	U
71-43-2	Benzene	500	50	U
127-18-4	Tetrachloroethene	700	50	U
108-90-7	Chlorobenzene	100,000	50	U
106-46-7	1,4-Dichlorobenzene	7,500	100	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/21/95 L.C.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

VOLATILE TCLP SPIKE RECOVERY FORM

SAMPLE ID: LCS
LAB ID: TDLCS1519A

COMPOUND	SPIKE LEVEL (µg/l)	SPIKE RESULT (µg/l)	PERCENT RECOVERY
Vinyl Chloride	500	330	66
1,1-Dichloroethene	500	510	102
Chloroform	500	520	104
1,2-Dichloroethane	500	580	116
2-Butanone	500	550	110
Carbon Tetrachloride	500	520	104
Trichloroethene	500	510	102
Benzene	500	500	100
Tetrachloroethene	1,000	1,000	100
Chlorobenzene	500	510	102
1,4-Dichlorobenzene	500	480	96

CALCULATIONS:

$$\text{PERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT})}{\text{SPIKE LEVEL}} \times 100$$

U = UNDETECTED

ENVIRONMETRICS
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Maryland Heights, MO 63043-3529
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

TCLP VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

SAMPLE ID: SOIL DRUM: COMP.
LAB ID: 9507/170-009

CAS NUMBER		REGULATORY LEVEL µg/L	PRACTICAL QUANTITATION LIMIT	RESULTS
75-01-4	Vinyl Chloride	200	100 µg/l	U µg/l
75-35-4	1,1-Dichloroethene	700	50	U
67-66-3	Chloroform	6,000	200	U
107-06-2	1,2-Dichloroethane	500	50	U
78-93-3	2-Butanone	200,000	150	U
56-23-5	Carbon Tetrachloride	500	50	U
79-01-6	Trichloroethene	500	50	U
71-43-2	Benzene	500	50	U
127-18-4	Tetrachloroethene	700	50	U
108-90-7	Chlorobenzene	100,000	50	U
106-46-7	1,4-Dichlorobenzene	7,500	100	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/13/95 11:45
DATE RECEIVED : 7/13/95 17:46
DATE ANALYZED : 7/21/95 L.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

VOLATILE TCLP SPIKE RECOVERY FORM

SAMPLE ID: SOIL DRUM: COMP.
LAB ID: 9507/170-009

COMPOUND	SAMPLE RESULT (µg/l)	SPIKE LEVEL (µg/l)	SPIKE RESULT (µg/l)	PERCENT RECOVERY
Vinyl Chloride	U	500	260	52
1,1-Dichloroethene	U	500	460	92
Chloroform	U	500	500	100
1,2-Dichloroethane	U	500	560	112
2-Butanone	U	500	640	128
Carbon Tetrachloride	U	500	470	94
Trichloroethene	U	500	480	96
Benzene	U	500	480	96
Tetrachloroethene	U	1,000	960	96
Chlorobenzene	U	500	480	96
1,4-Dichlorobenzene	U	500	480	96

CALCULATIONS:

$$\text{PERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT})}{\text{SPIKE LEVEL}} \times 100$$

U = UNDETECTED

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANIC SURROGATE RECOVERY FORM

LAB_ID	SAMPLE_IDENTIFICATION	S1 1,2-DCA-d4	S2 TOL-d8	S3 BFB
TDBLK1519A	TCLP BLANK	103	106	106
9507/170-009	SOIL DRUM COMP.	104	106	105

S1 - 1,2-DICHORORETHANE-d4

S2 - TOLUENE-d8

S3 - BROMOFLUOROBENZENE

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Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

TCLP SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270

SAMPLE ID: TCLP BLANK
LAB ID: TASBLK6569

CAS NUMBER		REGULATORY LEVEL µg/L	PRACTICAL QUANTITATION LIMIT	RESULTS
110-86-1	Pyridine	5,000	500 µg/l	U µg/l
95-48-7	o-Cresol	200,000	100	U
106-44-5	m & p-Cresol	200,000	100	U
67-72-1	Hexachloroethane	3,000	100	U
98-95-3	Nitrobenzene	2,000	100	U
87-68-3	Hexachlorobutadiene	500	100	U
88-06-2	2,4,6-Trichlorophenol	2,000	100	U
95-95-4	2,4,5-Trichlorophenol	400,000	100	U
121-14-2	2,4-Dinitrotoluene	3,000	100	U
118-74-1	Hexachlorobenzene	130	100	U
87-86-5	Pentachlorophenol	100,000	100	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/22/95 D.C.

11B
SEMIVOLATILE ORGANICS LAB CONTROL SPIKE

EPA SAMPLE NO.

TCLP SPIKE

Name: Environmetrics Contract: GEOTECH.

ıb Code: M-8270 Case No.: SAS No.: SDG No.: FLUID #1

atrix: (soil/water) TCLP Lab Sample ID: TASLCS6569

ımple wt/vol: VOL (g/ml) 100 Lab File ID: >A7732

evel: (low/med) LOW Date Received: 07/13/95

Moisture: decanted: (Y/N) N Date Extracted: 07/21/95

ɔncentrated Extract Volume: 1000 (uL) Date Analyzed: 07/22/95

ıjection Volume: 1.0 (uL) Dilution Factor: 10.0

PC Cleanup: (Y/N) N pH: 2 & 11

COMPOUND	Conc	Spike	Recovery
PYRIDINE	580	1000	58
2-Methylphenol	2300	2000	116
4-Methylphenol	1700	2000	87
Hexachloroethane	580	1000	58
Nitrobenzene	1800	1000	80
Hexachlorobutadiene	240	500	49
2,4,6-Trichlorophenol	1800	2000	90
2,4,5-Trichlorophenol	2200	2000	110
2,4-Dinitrotoluene	320	500	64
Hexachlorobenzene	380	500	76
Pentachlorophenol	1700	2000	86

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Environmetrics Contract: GEOTECH.

Lab code: Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (DCB)#	S3 (FBP)#	S4 (TPH)#	S5 (PHL)#	S6 (2CP)#	S7 (2FP)#	S8 (TBP)#	TOT OUT
01	TASBLK6569	70	49	53	79	59	51	52	73	0
02	TASLCS6569	87	45	53	87	67	67	58	81	0
03	9507170-9	71	38	47	101	54	53	40	76	0
04	9507170-9MS	81	55	59	124	58	52	49	101	0
05										
06										
07										
08										
09										
10										
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22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)
S3 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S4 (TPH)	= Terphenyl-d14	(33-141)	
S5 (PHL)	= Phenol-d5	(10- 94)	
S6 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S7 (2FP)	= 2-Fluorophenol	(21-100)	
S8 (TBP)	= 2,4,6-Tribromophenol	(10-123)	

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

TCLP SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270

SAMPLE ID: SOIL DRUM: COMP.
LAB ID: 9507/170-009

CAS NUMBER		REGULATORY LEVEL µg/L	PRACTICAL QUANTITATION LIMIT	RESULTS
110-86-1	Pyridine	5,000	500 µg/l	U µg/l
95-48-7	o-Cresol	200,000	100	U
106-44-5	m & p-Cresol	200,000	100	U
67-72-1	Hexachloroethane	3,000	100	U
98-95-3	Nitrobenzene	2,000	100	U
87-68-3	Hexachlorobutadiene	500	100	U
88-06-2	2,4,6-Trichlorophenol	2,000	100	U
95-95-4	2,4,5-Trichlorophenol	400,000	100	U
121-14-2	2,4-Dinitrotoluene	3,000	100	U
118-74-1	Hexachlorobenzene	130	100	U
87-86-5	Pentachlorophenol	100,000	100	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/13/95 11:45
DATE RECEIVED : 7/13/95 17:46
DATE ANALYZED : 7/22/95 D.C.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

SEMIVOLATILE TCLP SPIKE RECOVERY FORM

SAMPLE ID: SOIL DRUM: COMP.
LAB ID: 9507/170-009

COMPOUND	SAMPLE RESULT (µg/l)	SPIKE LEVEL (µg/l)	SPIKE RESULT (µg/l)	PERCENT RECOVERY
Pyridine	U	1,000	610	61
o-Cresol	U	2,000	2,200	112
m & p-Cresol	U	2,000	1,800	89
Hexachloroethane	U	1,000	620	62
Nitrobenzene	U	1,000	730	73
Hexachlorobutadiene	U	500	290	58
2,4,6-Trichlorophenol	U	2,000	2,000	102
2,4,5-Trichlorophenol	U	2,000	2,400	122
2,4-Dinitrotoluene	U	500	390	79
Hexachlorobenzene	U	500	500	101
Pentachlorophenol	U	2,000	2,300	113

CALCULATIONS:

$$\text{PERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT})}{\text{SPIKE LEVEL}} \times 100$$

U = UNDETECTED

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

TCLP PESTICIDES ANALYSIS
METHOD SW-846 8080

SAMPLE ID: TCLP BLANK
LAB ID: OP6575

CAS NUMBER	PARAMETER	REGULATORY LEVEL µg/L	PRACTICAL QUANTITATION LIMIT	RESULTS
58-89-9	τ-BHC (Lindane)	400	0.40 µg/l	U µg/l
76-44-8	Heptachlor	8	0.30	U
1024-57-3	Heptachlor epoxide	8	0.20	U
72-20-8	Endrin	20	0.60	U
72-43-5	Methoxychlor	10,000	2.00	U
12789-03-6	Chlordane	30	10.00	U
8001-35-2	Toxaphene	500	50.00	U

TCLP HERBICIDES ANALYSIS
METHOD SW-846 8150

SAMPLE ID: TCLP BLANK
LAB ID: OP6576

CAS NUMBER	PARAMETER	REGULATORY LEVEL µg/L	PRACTICAL QUANTITATION LIMIT	RESULT
94-75-7	2,4-D	10,000	24.0 µg/l	U µg/l
93-72-1	2,4,5-TP	1,000	3.40	U

U = UNDETECTED

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/24 & 25/95
J.K.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

LABORATORY CONTROL SAMPLE

PESTICIDES/HERBICIDES

SAMPLE ID: LCS
LAB ID: OP6575

COMPOUND	SPIKE CONC. (µg/l)	CONC.	PERCENT RECOVERY
Lindane	4	2.13	53
Heptachlor	4	2.26	57
Heptachlor epoxide	4	2.70	68
Endrin	4	2.78	70
Methoxychlor	40	35.9	90

COMPOUND	SPIKE LEVEL (µg/l)	CONC.	PERCENT RECOVERY
2,4-D	50	42.21	84
2,4,5-TP	5	3.92	78

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

TCLP PESTICIDES ANALYSIS
METHOD SW-846 8080

SAMPLE ID: SOIL DRUM: COMP.
LAB ID: 9507/170-009

CAS NUMBER	PARAMETER	REGULATORY LEVEL µg/L	PRACTICAL QUANTITATION LIMIT	RESULTS
58-89-9	τ-BHC (Lindane)	400	0.40 µg/l	U µg/l
76-44-8	Heptachlor	8	0.30	U
1024-57-3	Heptachlor epoxide	8	0.20	U
72-20-8	Endrin	20	0.60	U
72-43-5	Methoxychlor	10,000	2.00	U
12789-03-6	Chlordane	30	10.00	U
8001-35-2	Toxaphene	500	50.00	U

TCLP HERBICIDES ANALYSIS
METHOD SW-846 8150

SAMPLE ID: SOIL DRUM: COMP.
LAB ID: 9507/170-009

LEVEL NUMBER	QUANTITATION PARAMETER	REGULATORY µg/L	PRACTICAL CAS LIMIT	RESULT
94-75-7	2,4-D	10,000	24.0 µg/l	U µg/l
93-72-1	2,4,5-TP	1,000	3.40	U

U = UNDETECTED

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/24 & 25/95
J.K.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

OTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

TCLP SPIKE RECOVERY FORM

PESTICIDES/HERBICIDES

SAMPLE ID: SOIL DRUM: COMP.
LAB ID: 9507/170-009

COMPOUND	SAMPLE RESULT (µg/l)	SPIKE LEVEL (µg/l)	SPIKE RESULT (µg/l)	PERCENT RECOVERY
Lindane	U	4	1.97	49
Heptachlor	U	4	2.29	55
Heptachlor epoxide	U	4	2.72	68
Endrin	U	4	2.80	70
Methoxychlor	U	40	32.4	81

COMPOUND	SAMPLE RESULT (µg/l)	SPIKE LEVEL (µg/l)	SPIKE RESULT (µg/l)	PERCENT RECOVERY
2,4-D	U	50	43.75	88
2,4,5-TP	U	5	4.20	79

CALCULATIONS:

$$\text{PERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT})}{\text{SPIKE LEVEL}} \times 100$$

U = UNDETECTED

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
INVENTORY IDENTIFICATION NUMBER APPLICATION

FOR AGENCY USE ONLY

INVENTORY # ISSUED:	TRAN CODE	TRAN DATE	INITIALS
929189286	A	__/__/__	XXX
1 – 10	14	15 – 20	21 – 23

Please read the instructions on the reverse side of this form before completing. Please exclude punctuations when completing. Limit information to the amount of blanks provided or we will have to abbreviate for you. The information given is exactly how it will appear in the Bureau of Land's computer inventory system.

E.S.D.A. INCIDENT # (if applicable): _____

LOCATION ADDRESS (exact street location where waste is generated)

Card Type 010 11 13

COMPANY NAME: Mo Dept of Elem[redacted] Sec[redacted] Ed[redacted] (24 – 53)

LOCATION (Post Office Box numbers will not be accepted): 5707 Wilson Avenue (24 – 48)

020 11 13

CITY: St. Louis (55 – 74) STATE: Mo (75 76)

ZIP: 63110 (77 – 85) COUNTY: _____

TELEPHONE: 314 751 8296 (86 – 95)

CONTACT: Ronald Littlach, (96 – 120)

MAILING ADDRESS (if same as above, leave blank)

030 11 13

STREET: _____ (54 – 78)

P O BOX: 480 (79 – 84)

CITY: JEFFERSON CITY (85 – 104)

STATE: Mo (105 106) ZIP: 65102 (107 – 115)

MANIFESTS: You qualify for 20 free Uniform Hazardous Waste Manifests. If you do not need 20 Manifests, please indicate the amount you need. Please check the type you need.

Number of Manifests needed: 20 Snap-Top ✓ Pin-Fed (computer fed) ___

RETURN ADDRESS: INDICATE THE LOCATION TO WHICH THIS FORM SHOULD BE RETURNED.

Company Name: Geotechnology, Inc

Contact Person: Sam Brennecke

Street: 2258 Grissom Drive

City: St. Louis State: Mo Zip: 63146

Waste may not be sent to an Illinois facility without an IEPA Supplemental Waste Stream Permit number.

AUTHORIZATION STATEMENT

I authorize this request for assignment of an Illinois inventory ID number. This company has not previously shipped waste from this location under the Illinois Manifest System. If my waste is a RCRA hazardous waste, I certify this company has or has applied for a USEPA generator ID number.

Signature of Authorized Representative: Lonnie Thompson Date: 11 Aug, 1995

IL 532 1473
LPC 228 Rev. Dec-93

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

Corporate Waste Approval Group
Browning-Ferris Industries

WASTE APPROVAL FORM

Date	: 08/21/95
BFI Location	: St. Louis Landfill
BFI Initiator	: Jansen, Dan
Generator	: Missouri Dept of Education
Generator Location	: St Louis , MO
WCD Number	: SB19231
BFI Number	: 235057

MODERN

WASTE DESCRIPTION: Soil , Coal Tar

SAFETY PRECAUTIONS: Avoid Skin and Eye Contact.

RECOMMENDED MANAGEMENT: Direct Burial

Facility... St. Louis
Backridge Landfill

COMMENTS:

Approved for one time only disposal.

The following items were reviewed by the Corporate Waste Approval Group:
a.) Analytical data from Enviromatrics, Inc.

The above is a recommendation of BFI Corporate Waste Approval Group. It must be understood that management of the waste for treatment and/or disposal at the designated facility must be in compliance with the facility's permit and applicable federal, state, and local regulations. The waste approval is based upon a review of the information provided by the generator and is contingent upon the receipt at the treatment and/or disposal facility of a waste material essentially equivalent in chemical composition and physical properties to that as defined above.

This waste stream has been assigned BFI Waste Code: MO/636-1210/950821/235057

Corporate Waste Approval Group

Mark L. Noel

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved, OMB No. 2050-0039, Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Mo. Dept of Elementary & Secondary Ed. P.O. Box 480 Jefferson City, Mo 65102

Location if Different: Hubert Wheeler State Sch. 5707 Wilson Ave. St. Louis, MO

4. "24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS"

A. Illinois Manifest Document Number: IL 6888041 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9291899286

C. Illinois Transporter's ID: 0865

D. (314) 644-6000 Transporter's Phone

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

G. Illinois Facility's ID: 1630199022

H. Facility's Phone: (618) 235-9625

5. Transporter 1 Company Name: Superior Equipment Company | 6. US EPA ID Number

7. Transporter 2 Company Name | 8. US EPA ID Number

9. Designated Facility Name and Site Address: BFI - Modern, Rt. 158 & Minchaul Road, Belleville IL | 10. US EPA ID Number

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. Non-Hazardous Coal Tar Contaminated Soil	01	T	6	4	EPA HW Number: XX; Authorization Number: 070260
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Description for Materials Listed Above: Class A Profile # 19231

K. Handling Codes for Wastes Listed Above in Item #14.

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby delare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and selected the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Dept. of Elem & Secondary Ronnie Allen for Education (Mo.) | Signature: Dept of Elem. & Secondary Ronnie Allen for Education (Mo) | Date: Month 09 Day 05 Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Geary Schwyhart | Signature: Geary Schwyhart | Date: Month 09 Day 05 Year 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Steve Gantner | Signature: Steve Gantner | Date: Month 09 Day 05 Year 95

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1001 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

Office of Emergency Response at 217/782-7860 and the National Response Center at 800/424-8802 or 202/426-2675.

SEP.-05'95(TUE) 16:20 BFI MODERN LANDFILL TEL:618 235 0916 P.001

GEOTECHNOLOGY INC.
ENGINEERING AND ENVIRONMENTAL SERVICES
SAINT LOUIS • KANSAS CITY • INDIANAPOLIS

August 8, 1995 2498.03.4120.05

Mr. Mike Townley
Metropolitan St. Louis Sewer District
Department of Environmental Compliance
10 East Grand Avenue
St. Louis, Missouri 63147-2913

Re: Application for Special Discharge
Hubert Wheeler State School
5707 Wilson Avenue
St. Louis, Missouri

Dear Mr. Townley:

Attached please find an application for approval for special discharge, submitted by Geotechnology, Inc. on behalf of the Missouri Department of Elementary and Secondary Education for the referenced site.

As noted on the application, the water is groundwater monitoring well development/purge water and decontamination water generated during cleaning of drilling and sampling equipment used to sample coal tar contaminated soil. It is our desire to dispose of this water via discharge to a combined sewer located on-site.

I trust this is the information you require. Should you have any questions or comments please feel free to contact me.

Very truly yours,

GEOTECHNOLOGY, INC.

Sam L. Brenneke

Sam L. Brenneke, C.H.M.M.
Associate

SLB:mls

Attachments: As noted

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CORRESD\249803.APP

APPLICATION FOR APPROVAL FOR SPECIAL DISCHARGE

I. Application is hereby made for (CHECK ONE):

[X] DISCHARGE TO SANITARY OR COMBINED SEWER ON-SITE:

****
NOTE: NO DISCHARGE TO A SEPARATE STORM SEWER OR WATERCOURSE IS ALLOWED.
****

[ ] TRANSPORT TO MSD TREATMENT PLANT: Name plant: _____

****
NOTE: THE DISTRICT CAN NOT ACCEPT ANY TRANSPORTED WASTE IDENTIFIED AS HAZARDOUS IN 40 CFR PART 261 (RCRA).
****

II. RESPONSIBLE PARTIES:

4112-4668-00

SOURCE: Site Name Hubert Wheeler State School
Street Address 5707 Wilson Avenue City St. Louis State MO Zip 63110
Owner MO Department of Elementary & Secondary Education
Contact person Ronald Littich Title Director of Facilities
Mailing Address P.O. Box 480 City Jefferson City State MO Zip 65102
Telephone (314) 751-8296 Fax _____

SITE CONTRACTOR: Name Geotechnology, Inc.
Street Address 2258 Grissom Drive City St. Louis State MO Zip 63146
Contact Person Sam Brenneke Title Associate
Mailing Address 2258 Grissom Drive City St. Louis State MO Zip 63146
Telephone (314) 997-7440 Fax (314) 997-2067

TRANSPORTER: Name _____ MSD Transporter Identification # _____
Street Address _____ City _____ State _____ Zip _____
Contact person _____ Title _____
Mailing Address _____ City _____ State _____ Zip _____
Telephone _____ Fax _____

III. MATERIAL TO BE DISCHARGED:

1. Fully describe the waste and the nature of the activities requiring its disposal:
The waste to be discharged to the combined sewer on-site consists of groundwater monitoring well development/purge water and water generated during decontamination of drilling and sampling equipment used to sample soil contaminated with coal tar.
   a. Copy of laboratory analyses attached? YES X NO ____
   b. Copies of Material Safety Data Sheets attached? YES ____ NO X
   c. Is waste from a process subject to federal categorical standards? YES ____ NO X If yes, identify the standard: 40 CFR Part ____, Subpart ____.
2. Quantity to be discharged to MSD: ± 900 gallons
3. Proposed rate and/or frequency of discharge: 10-15 gpm
4. If waste is from an underground storage tank, storage tank excavation or is groundwater from a site remediation project:
   a: Identify the substances which were in the tanks or which contaminated the groundwater: _____
   b: How long has the tank or site been out of service? _____
5. Describe any treatment to be provided prior to discharge to MSD: _____
6. Describe proposed point of entry to sewer (if on-site): combined sewer at 5707 Wilson Avenue

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Turn over and complete parts IV through VI

A one gallon sample of the waste to be discharged must be submitted in a clear container as part of this application. The requirement for a sample may be waived if an acceptable report containing results of analyses for the parameters specified by the Department of Environmental Compliance has been submitted. The Department may require a sample in addition to any analytical reports. Complete the following for any sample submitted:

1. Sampled by: Name: _____ Company: _____
2. Date sampled: _____ Time: _____ Preservatives: _____
3. Type sample: Grab___ Composite___ How composited: _____

If MSD performs any analyses necessary to determine the acceptability of this waste, the applicant may be billed by invoice for the cost of those analyses. Most wastes considered for acceptance must be analyzed for one of the following two groups of substances.

Group 1: pH, TS, TSS, VSS, COD, Cd, Cr, Cu, Fe, Pb, Ni, Zn and the volatile organic priority pollutants. Group 1 analyses will be invoiced at $275.80.

Group 2: pH, TSS, COD, Pb, benzene, toluene, ethylbenzene and xylene (BTEX). Group 2 analyses will be invoiced at $111.70.

The charges for any additional analyses required will be added to the above amounts. In some cases, fewer analyses may be required. The applicant will be billed only for the analyses actually performed. Analytical charges are listed in Appendix 2 of MSD Sewer Service Charge Ordinance #7450.

Provide your Purchase Order number if you require one for billing: _____

****

V. SIGNATURE AND CERTIFICATION: This application must be signed by the owner of the source site or a contractor directly responsible for site remediation activities.

I hereby certify that to the best of my knowledge and belief the information in this application is true, complete and accurate. If granted approval to discharge, I agree to abide by the MSD Ordinances, and all applicable federal, state and local regulations. I agree to pay the costs of any pre-approval analyses performed by MSD and to pay any applicable disposal charges for the volume or strength of the wastes discharged.

Applicant name (Printed) Sam L. Brenneke

Applicant signature: Sam L. Brenneke Date: 8/4/95

VI. HAZARDOUS WASTE CERTIFICATION: If you checked the box on page 1 "Transport to MSD Treatment Plant", you must sign the following certification:

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE ABOVE MATERIAL IS NOT CLASSIFIED AS A HAZARDOUS WASTE AS DESCRIBED IN 40 CFR Part 261. (RCRA)

Applicant signature: _____ Date: _____

****

For MSD Department Of Environmental Compliance use only:

Sample Received: Date: _____ Time: _____ Via: _____ By: _____

How Labelled: _____

Comments: _____

Receiving STP (If on-site discharge): _____

Transmitted to lab: Date: _____ Time: _____ By: _____ Lab ID: _____

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

ATTN: Sam Brenneke

V ETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE: 33090
PO: 10181
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: DECON / DEV:WATER
LAB ID: 9507000262-004
DATE COLLECTED: 07/19/95 14:50
DATE RECEIVED: 07/19/95 17:52

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL LEAD	SW-846 6010A	0.728 mg/L	7/27/95 R.D.
CHEMICAL OXYGEN DEMAND	EPA 410.4	220 mg/L	7/24/95 T.H.
PH	EPA 150.1	7.42	7/21/95 T.H.
TOTAL SUSPENDED SOLIDS	EPA 160.2	2,420 mg/L	7/24/95 T.H.

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AUG 11 1995
Environmental Compliance

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 33090
PO # 10181
PROJECT # 2498.03.4120.05,
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: DECON/DEV: WATER
LAB ID: 9507/262-004

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/l	U µg/l
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	103
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/19/95 14:50
DATE RECEIVED : 7/19/95 17:53
DATE ANALYZED : 7/24/95 L.C.

RECEIVED
AUG 11 1995
Environmental Compliance

E VI MET ICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33090 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10181 METHOD SW-846 8270
PROJECT # 2498.03.4120.05, PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: DECON/DEV: WATER
LAB ID: 9507/262-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	11 µg/l	U µg/l
108-95-2	Phenol	11	U
111-44-4	bis(2-chloroethyl)Ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl Alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	o-Cresol	11	U
39638-32-9	bis-(2-Chloro2propyl)Ether	11	U
106-44-5	m & p-Cresol	11	U
621-64-7	N-Nitroso-Di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic Acid	56	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	11	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	56	U
131-11-3	Dimethylphthalate	11	U
103-33-3	Azobenzene	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	56	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	56	U

RECEIVED
AUG 11 1995
Environmental Compliance

METR CS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33090 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10181 METHOD SW-846 8270
PROJECT # 2498.03.4120.05, PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: DECON/DEV: WATER
LAB ID: 9507/262-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	56 µg/l	U µg/l
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenol phenyl ether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	56	U
534-52-1	4,6-Dinitro-2-methylphenol	56	U
86-30-6	N-Nitrosodiphenylamine	11	U
101-55-3	4-Bromophenyl phenyl ether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	56	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Carbazole	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
92-87-4	Benzidine	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	11	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/19/95 14:50
DATE RECEIVED : 7/19/95 17:53
DATE EXTRACTED : 7/20/95
DATE ANALYZED : 7/26/95
ANALYST : D.C.

RECEIVED
AUG 11 1995
Environmental Compliance

Metropolitan
St. Louis Sewer
District

Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

RECEIVED
AUG 28 1995
GEOTECHNOLOGY

August 24, 1995

Sam Brenneke
GEOTECHNOLOGY, INCORPORATED
2258 Grissom Drive
St. Louis, MO 63146

Dear Mr. Brenneke:

We have reviewed your application dated August 8, 1995 requesting approval to discharge 900 gallons of wastewater to the Metropolitan St. Louis Sewer District for treatment. This wastewater is from groundwater monitoring well development and equipment decontamination at a coal tar contamination site at Hubert Wheeler School, 5707 Wilson Avenue, St. Louis, Missouri.

Based on the analytical results, this material meets our criteria for acceptance as a hauled waste and is approved for discharge at the Lemay Treatment Plant or the Bissell Point Treatment Plant. The material may be discharged only by a hauler having a valid MSD identification number. This approval is valid for 30 days from the date of this letter.

This discharge has been approved based upon the information and sample analyses you provided and is subject to the conditions stated above. This approval may be revoked by the District at any time if any of the information is found to be incorrect, or if the conditions of this approval are violated. Also, if the discharge causes any operational or maintenance problem within the District's collection or treatment system or results in violations of any conditions of the District's NPDES permit, Missouri Department of Elementary and Secondary Education will be considered responsible for damages.

If you have any questions, please call me at 436-8757.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

Michael Townley

Michael Townley
Civil Engineer

ldl

pc Bernie Rains
Neil Frankenberg
Jeff Theerman

WASTE HAULER DISCHARGE PERMIT
(TO BE SUPPLIED BY HAULER)
PERMIT NO. № 50250

WASTE HAULER DISCHARGE PERMIT
(TO BE SUPPLIED BY HAULER)
PERMIT NO. № 50251

WASTE HAULER DISCHARGE PERMIT
(TO BE SUPPLIED BY HAULER)
PERMIT NO. № 50252

WASTE HAULER DISCHARGE PERMIT
(TO BE SUPPLIED BY HAULER)
PERMIT NO. № 50253

WASTE HAULER DISCHARGE PERMIT
(TO BE SUPPLIED BY HAULER)
PERMIT NO. № 50254

SUPERIOR EQT.

WASTE HAULER DISCHARGE PERMIT

WASTE SOURCE INFORMATION: (TO BE SUPPLIED BY HAULER)

PERMIT NO. № 50255

NAME OF SOURCE OF WASTE: WHEELER SCHOOL

STREET ADDRESS OF WASTE: 5707 WILSON

HAULER ID: 0020

HEALTH PERMIT NO.: 0380

DISCHARGE DATE: 090195

DISCHARGE TIME: 1019

DISCHARGE LOCATIONS:

- [ ] COLDWATER CREEK PLANT 13798 OLD HALLS FERRY RD.
- [ ] LEMAY PUMP STATION 8520 VIRGINIA AVE.
- [x] BISSELL POINT PLANT 10 E. GRAND AVE.
- [ ] LEMAY PLANT 201 HOFFMEISTER

TYPE WASTE:

- [x] INDUSTRY
- [ ] DOMESTIC

TANK CAPACITY: 3000 GALLONS

- [ ] MO. RIVER PLANT 3455 CREVE COEUR MILL RD.

MSD

500 GALLONS
$25.00 DOLLARS

APPENDIX E

MONITORING WELL CERTIFICATION RECORDS, REGISTRATION RECORD, BORING LOGS AND LEGEND

MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGY AND LAND SURVEY

MONITORING WELL CERTIFICATION RECORD

REF. NO. 122986	CHECK NO.
ROUTE	TRANSMITTAL NO.
STATE WELL NUMBER	CROSS REFERENCE NO.
CHECKED BY	ENTERED Ph 1 Ph 2 Ph 3
APPROVED BY	DATE APPROVED

INFORMATION SUPPLIED BY OWNER

SITE NAME: Hubert Wheeler State School		WELL NUMBER: MW-1	
SITE ADDRESS: 5707 Wilson Avenue	CITY: St. Louis	STATE: MO	ZIP CODE: 63110
NAME: State of Missouri - Division of Design and Construction		TELEPHONE: (314) 751-2283	
ADDRESS: P.O. Box 809	CITY: Jefferson City	STATE: Mo	ZIP CODE: 65102

INFORMATION SUPPLIED BY MONITORING WELL CONTRACTOR

LOCATION OF WELL
SHOW LOCATION IN SECTION PLAT

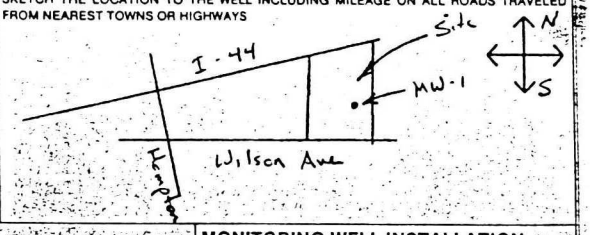
COUNTY: St Louis
ELEVATION: 490 ± msl
AREA NO.:

SMALLEST ¼: ___ ¼ ___ ¼ ___ ¼ LARGEST ¼: NE ¼

SEC. 25 TWN. 45 N,RNG. 6 (E) OR W

LAT. 38 . 37 . 03 . LONG. 90 . 17 . 01 .

SKETCH THE LOCATION TO THE WELL INCLUDING MILEAGE ON ALL ROADS TRAVELED FROM NEAREST TOWNS OR HIGHWAYS



DESCRIBE LOCATION OF THE WELL SO WE WOULD BE ABLE TO VISIT IT
East / Central Section of the site near swingsets

MONITORING WELL INSTALLATION CONTRACTOR'S NAME
Geotechnology, Inc

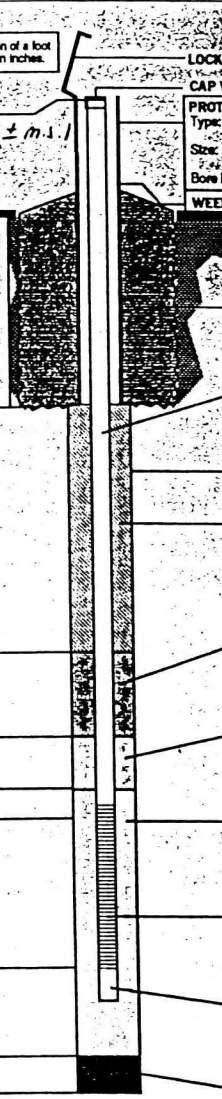
DRILLING CONTRACTOR'S NAME
Geotechnology, Inc

NOTE: Record the fraction of a foot in decimal, not in inches.

Top of Riser Elevation: 489.9 ± m.s.l

Ground Surface Elevation: 490 ± Ft

Information in this column to be supplied in the Feet from Surface column	Feet from Surface	Description of Formation
Depth to bottom of Protective Casing Seal:	1.0	
Depth to Base of Annular Seal:	15.5	
Depth to Base of Bentonite Seal:	17.5	
Depth to Base of Secondary Filter Pack:	NA	
Depth to Top of the Screen:	19.4	
Depth to Bottom of the Screen:	29.4	
Plug Back Total Depth:	29.7	
Original Total Depth:	30.0	



LOCKING CAP (Y) N (Circle one)
CAP VENT (Y) N (Circle one)
PROTECTIVE CASING Type: Steel Flushmount Size: 9-inch Bore Hole Diameter:
WEEP HOLE - Y / (N) (Circle one)

PROTECTIVE CASING SEAL Type: [X] Concrete [ ] Cement Slurry

RISER PIPE Length: 19.3 feet Diameter: 2-inch Type of Material: Sch 40 PVC

BOREHOLE DIAMETER: 8.5 in.

ANNULAR SEAL Type: [X] Bentonite Slurry [X] Cement Slurry [ ] Non Slurry Bentonite — Mixture

BENTONITE SEAL Type: [ ] Bentonite Slurry [X] Non Slurry Bentonite Length of Seal: 2 Ft

SECONDARY FILTER PACK (Optional) Type: [ ] Sand [ ] Manufactured Grain Size: Length:

PRIMARY FILTER PACK Type: [X] Sand [ ] Manufactured Grain Size: 10-20 Length: 12.4 feet

WELL SCREEN Length: 10 feet Slot Size: 0.010 inch Type: Sch 40 PVC

SUMP DETAILS Length: 0.5 Ft. Diameter: 2 in. Type: Sch 40 PVC

TYPE OF BACKFILL: Collapse

TYPE OF INSTALLATION: [ ] ABOVE GROUND [X] FLUSH MOUNT

STATIC WATER LEVEL: 23.14 FEET FROM MEASURING POINT

DATE OF STATIC WATER LEVEL: 7/18/95

ELEVATION OF MEASURING POINT: 489.9 ± m.s.l.

MEASURING POINT IS: [X] TOP OF RISER PIPE [ ] OTHER

DRILLING EQUIPMENT: [ ] AIR ROTARY [X] AUGER TYPE 4 1/4" H.S.A. [ ] REVERSE ROTARY [ ] OTHER

CENTRALIZERS USED: [ ] YES, AT [ ] STAINLESS STEEL [ ] OTHER [X] NO

MULTIPLE CASED WELLS: SUBMIT ADDITIONAL AS BUILT DIAGRAM SHOWING WELL CONSTRUCTION DETAILS INCLUDING TYPE AND SIZE OF ALL CASING, HOLE DIAMETERS, AND GROUT USED.

DATE WELL CONSTRUCTION WAS COMPLETED: 7/11/95

I HEREBY CERTIFY THAT THE MONITORING WELL HEREIN DESCRIBED WAS CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT OF NATURAL RESOURCES REQUIREMENTS FOR THE CONSTRUCTION OF MONITORING WELLS.

SIGNATURE (MONITORING WELL CONTRACTOR): James F. Clyde
PERMIT NUMBER: CILESW3M DATE: 7/25/95

SIGNATURE (DRILLING CONTRACTOR): James F. Clyde
PERMIT NUMBER: CILESW3M DATE: 7/25/95

MO 780-1415 (2-94)

DISTRIBUTION: WHITE/DIVISION CANARY/MONITORING WELL CONTRACTOR PINK/OWNER
MAIL WHITE COPY TO: DEPARTMENT OF NATURAL RESOURCES, P.O. BOX 250, ROLLA, MO 65401
ENCLOSE $35 PER MONITORING WELL FOR THE CERTIFICATION FEE WITHIN 60 DAYS AFTER WELL COMPLETION

RECYCLED PAPER

MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGY AND LAND SURVEY

MONITORING WELL CERTIFICATION RECORD

OFFICE USE ONLY	DATE RECEIVED
REF. NO. 122987	CHECK NO.
ROUTE	TRANSMITTAL NO.
STATE WELL NUMBER	CROSS REFERENCE NO.
CHECKED BY	ENTERED Ph 1 Ph 2 Ph 3
APPROVED BY	DATE APPROVED

INFORMATION SUPPLIED BY OWNER

SITE NAME: Hubert Wheeler State School		WELL NUMBER: MW-2	
SITE ADDRESS: 5707 Wilson Avenue	CITY: St. Louis	STATE: MO	ZIP CODE: 63110
NAME: State of Missouri - Division of Design and Construction		TELEPHONE: (314) 751-2283	
ADDRESS: P.O. Box 809	CITY: Jefferson City	STATE: MO	ZIP CODE: 65102

INFORMATION SUPPLIED BY MONITORING WELL CONTRACTOR

LOCATION OF WELL
SHOW LOCATION IN SECTION PLAT

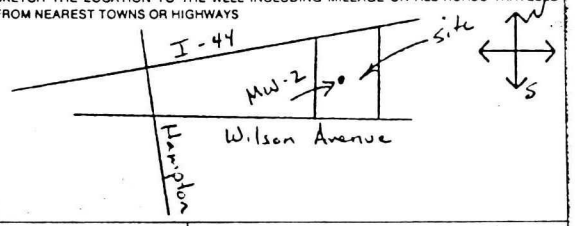
COUNTY: St. Louis
ELEVATION: 490 ± M.S.L.
AREA NO.

SMALLEST ¼ ___ ¼ ___ ¼ ___ ¼ LARGEST ¼: NE ¼

SEC. 25 TWN. 45 N,RNG. 6 (E) OR W

LAT. 38 . 37 . 03 - LONG. 90 . 17 . 01 -

SKETCH THE LOCATION TO THE WELL INCLUDING MILEAGE ON ALL ROADS TRAVELED FROM NEAREST TOWNS OR HIGHWAYS



DESCRIBE LOCATION OF THE WELL SO WE WOULD BE ABLE TO VISIT IT
Center of site in asphalt playground area

MONITORING WELL INSTALLATION CONTRACTOR'S NAME
Geotechnology, Inc

DRILLING CONTRACTOR'S NAME
Geotechnology, Inc

TYPE OF INSTALLATION: ☐ ABOVE GROUND ☒ FLUSH MOUNT

STATIC WATER LEVEL: 41.82 FEET FROM MEASURING POINT

DATE OF STATIC WATER LEVEL: 7/18/95

ELEVATION OF MEASURING POINT: 490.0 ± M.S.L.

MEASURING POINT IS: ☒ TOP OF RISER PIPE ☐ OTHER

DRILLING EQUIPMENT: ☐ AIR ROTARY ☒ AUGER TYPE 4 1/4" H.S.A. ☐ REVERSE ROTARY ☐ OTHER

CENTRALIZERS USED: ☐ YES, AT ☐ STAINLESS STEEL ☐ OTHER ☒ NO

MULTIPLE CASED WELLS: SUBMIT ADDITIONAL AS BUILT DIAGRAM SHOWING WELL CONSTRUCTION DETAILS INCLUDING TYPE AND SIZE OF ALL CASING, HOLE DIAMETERS, AND GROUT USED.

DATE WELL CONSTRUCTION WAS COMPLETED: 7/12/95

I HEREBY CERTIFY THAT THE MONITORING WELL HEREIN DESCRIBED WAS CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT OF NATURAL RESOURCES REQUIREMENTS FOR THE CONSTRUCTION OF MONITORING WELLS.

SIGNATURE (MONITORING WELL CONTRACTOR): [signature]
PERMIT NUMBER: 011ESWPM DATE: 7/25/95

SIGNATURE (DRILLING CONTRACTOR): [signature]
PERMIT NUMBER: 011ESWPM DATE: 7/25/95

NOTE: Record the fraction of a foot in decimal, not in inches.

Top of Riser Elevation: 490.0 ± M.S.L.

LOCKING CAP - (Y) N (Circle one)
CAP VENT - (Y) N (Circle one)

PROTECTIVE CASING
Type: Steel Flushmount
Size: 9-inch
Bore Hole Diameter:
WEEP HOLE - Y / (N) (Circle one)

Ground Surface Elevation: 490 ± Ft.

Information in this column to be supplied in the Feet from Surface column	Feet from Surface	Description of Formation
Depth to bottom of Protective Casing Seal:	1.0	
Depth to Base of Annular Seal:	35.5	
Depth to Base of Bentonite Seal:	37.5	
Depth to Base of Secondary Filter Pack:		
Depth to Top of the Screen:	39.6	
Depth to Bottom of the Screen:	47.6	
Plug Back Total Depth:		
Original Total Depth:	50.1	

PROTECTIVE CASING SEAL
Type: ☒ Concrete ☐ Cement Slurry

RISER PIPE
Length: 39.6 feet
Diameter: 2-inch
Type of Material: Sch 40 PVC

BOREHOLE DIAMETER: 8.5 in.

ANNULAR SEAL
Type: ☒ Bentonite Slurry mixture ☒ Cement Slurry ☐ Non Slurry Bentonite

BENTONITE SEAL
Type: ☐ Bentonite Slurry ☒ Non Slurry Bentonite
Length of Seal: 2 Ft.

SECONDARY FILTER PACK (Optional)
Type: ☐ Sand ☐ Manufactured
Grain Size:
Length:

PRIMARY FILTER PACK
Type: ☒ Sand ☐ Manufactured
Grain Size: 10-20
Length: 12.6 feet

WELL SCREEN
Length: 10-feet
Slot Size: 0.010 inch
Type: Sch 40 PVC

SUMP DETAILS
Length: 0.5 Ft.
Diameter: 2 in.
Type: Sch 40 PVC

TYPE OF BACKFILL: NA

MO 780-1415 (2-94)

DISTRIBUTION: WHITE/DIVISION CANARY/MONITORING WELL CONTRACTOR PINK/OWNER
MAIL WHITE COPY TO: DEPARTMENT OF NATURAL RESOURCES, P.O. BOX 250, ROLLA, MO 65401
ENCLOSE $35 PER MONITORING WELL FOR THE CERTIFICATION FEE WITHIN 60 DAYS AFTER WELL COMPLETION

RECYCLED

MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGY AND LAND SURVEY

MONITORING WELL CERTIFICATION RECORD

OFFICE USE ONLY	DATE RECEIVED
REF. NO. 122989	CHECK NO.
ROUTE	TRANSMITTAL NO.
STATE WELL NUMBER	CROSS REFERENCE NO.
CHECKED BY	ENTERED Ph 1 Ph 2 Ph 3
APPROVED BY	DATE APPROVED

INFORMATION SUPPLIED BY OWNER

SITE NAME: Hubert Wheeler State School	WELL NUMBER: MW-3
SITE ADDRESS: 5707 Wilson Avenue	CITY: St. Louis; STATE: MO; ZIP CODE: 63110
NAME: State of Missouri - Division of Design and Construction	TELEPHONE: (314) 751-2283
ADDRESS: P.O. Box 809	CITY: Jefferson City; STATE: MO; ZIP CODE: 65102

INFORMATION SUPPLIED BY MONITORING WELL CONTRACTOR

LOCATION OF WELL
SHOW LOCATION IN SECTION PLAT

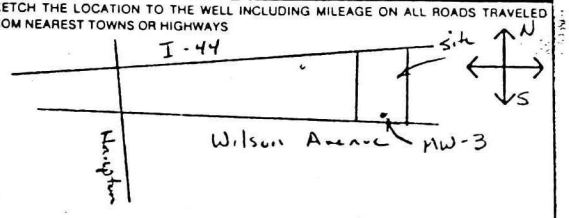
COUNTY: St. Louis
ELEVATION: 490 ± m.s.l.
AREA NO.:

SMALLEST ¼ ____ ¼ ____ ¼ ____ ¼ LARGEST ¼

SEC. 25 TWN. 45 N,RNG. 6 (E) OR W

LAT. 38 . 37 . 03 - LONG. 90 . 17 . 01 -

SKETCH THE LOCATION TO THE WELL INCLUDING MILEAGE ON ALL ROADS TRAVELED FROM NEAREST TOWNS OR HIGHWAYS



DESCRIBE LOCATION OF THE WELL SO WE WOULD BE ABLE TO VISIT IT
South / Center section of site adjacent to Wilson Ave

NOTE: Record the fraction of a foot in decimal, not in inches.

Top of Riser Elevation: 489.8 ± m.s.l.

Ground Surface Elevation: 490 ± m.s.l. Ft

Information in this column to be supplied in the Feet from Surface column	Feet from Surface	Description of Formation
Depth to bottom of Protective Casing Seal:	1.0	
Depth to Base of Annular Seal:	26.0	
Depth to Base of Bentonite Seal:	28.0	
Depth to Base of Secondary Filter Pack:		
Depth to Top of the Screen:	30.0	
Depth to Bottom of the Screen:	40.0	
Plug Back Total Depth:		
Original Total Depth:	40.5	

LOCKING CAP - (Y) / N (Circle one)
CAP VENT (Y) / N (Circle one)
PROTECTIVE CASING Type: Steel Flushmount Size: 9-inch Bore Hole Diameter:
WEEP HOLE - Y / (N) (Circle one)

PROTECTIVE CASING SEAL Type: ☒ Concrete ☐ Cement Slurry
RISER PIPE Length: 29.8 feet Diameter: 2-inch Type of Material: Sch 40 PVC
BOREHOLE DIAMETER: 8.5 in.
ANNULAR SEAL Type: ☒ Bentonite Slurry ☒ Cement Slurry ☐ Non Slurry Bentonite Mixture
BENTONITE SEAL Type: ☐ Bentonite Slurry ☒ Non Slurry Bentonite Length of Seal: 2 Ft.
SECONDARY FILTER PACK (Optional) Type: ☐ Sand ☐ Manufactured Grain Size: Length:
PRIMARY FILTER PACK Type: ☒ Sand ☐ Manufactured Grain Size: 10-20 Length: 12.5 feet
WELL SCREEN Length: 10 feet Slot Size: 0.010 inch Type: Sch. 40 PVC
SUMP DETAILS Length: 0.5 Ft. Diameter: 2 in. Type: Sch 40 PVC
TYPE OF BACKFILL: NA

MONITORING WELL INSTALLATION CONTRACTOR'S NAME
Geotechnology, Inc

DRILLING CONTRACTOR'S NAME
Geotechnology, Inc

TYPE OF INSTALLATION: ☐ ABOVE GROUND ☒ FLUSH MOUNT

STATIC WATER LEVEL: 17.95 FEET FROM MEASURING POINT

DATE OF STATIC WATER LEVEL: 7/18/95

ELEVATION OF MEASURING POINT: 489.8 ± m.s.l.

MEASURING POINT IS: ☒ TOP OF RISER PIPE ☐ OTHER

DRILLING EQUIPMENT: ☐ AIR ROTARY ☒ AUGER TYPE 4 1/4" H.S.A. ☐ REVERSE ROTARY ☐ OTHER

CENTRALIZERS USED: ☐ YES, AT ☐ STAINLESS STEEL ☐ OTHER ☒ NO

MULTIPLE CASED WELLS: SUBMIT ADDITIONAL AS BUILT DIAGRAM SHOWING WELL CONSTRUCTION DETAILS INCLUDING TYPE AND SIZE OF ALL CASING, HOLE DIAMETERS, AND GROUT USED.

DATE WELL CONSTRUCTION WAS COMPLETED: 7/13/95

I HEREBY CERTIFY THAT THE MONITORING WELL HEREIN DESCRIBED WAS CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT OF NATURAL RESOURCES REQUIREMENTS FOR THE CONSTRUCTION OF MONITORING WELLS.

SIGNATURE (MONITORING WELL CONTRACTOR): [signature]
PERMIT NUMBER: COMPLETION 1 DATE: 7/25/95
SIGNATURE (DRILLING CONTRACTOR): [signature]
PERMIT NUMBER: COMPLETION DATE: 7/25/95

MO 780-1415 (2-94)

DISTRIBUTION: WHITE/DIVISION CANARY/MONITORING WELL CONTRACTOR PINK/OWNER
MAIL WHITE COPY TO: DEPARTMENT OF NATURAL RESOURCES, P.O. BOX 250, ROLLA, MO 65401
ENCLOSE $35 PER MONITORING WELL FOR THE CERTIFICATION FEE WITHIN 60 DAYS AFTER WELL COMPLETION

RECYCLED PAPER

MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGY AND LAND SURVEY

REGISTRATION RECORD

OFFICE USE ONLY		DATE RECEIVED	
REF. NO. 131687			
ROUTE		P.W.S. NUMBER	CHECK NUMBER
STATE WELL NUMBER		TRANSMITTAL NO.	
CHECKED BY		CROSS REFERENCE NO.	
APPROVED BY	DATE	ENTERED Ph 1 Ph 2 Ph 3	

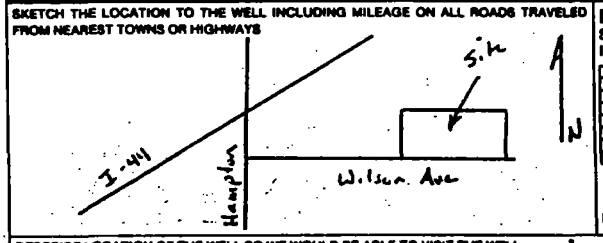
INFORMATION SUPPLIED BY OWNER

NAME			TELEPHONE
State of Missouri - Division of Design and Construction			(314) 751-2223
ADDRESS	CITY	STATE	ZIP CODE
P.O. Box 809	Jefferson City	MO	65102
SITE NAME	WELL NUMBER	ADDRESS OF WELL SITE OR SITE NAME (IF DIFFERENT THAN ABOVE)	
Hubert Wheeler State School		5707 Wilson Avenue	
OWNER STATUS: ☐ BUILDER ☐ PRIVATE HOME OWNER ☐ DEVELOPER ☒ OTHER (SPECIFY) State Agency		CITY St. Louis	STATE MO / ZIP CODE 63110

PURPOSE OF REGISTRATION FORM	VARIANCE ISSUED?	VARIANCE NUMBER:	WELL CERTIFICATION NUMBER	DATE ORIGINALLY DRILLED
☐ ABANDONED WELL ☐ MINERAL EXPLORATORY ☐ WELL RECONSTRUCTION TEST HOLE ☒ OTHER Soil Boring	☐ YES ☒ NO	SIGNATURE (WELL OWNER)		DATE

INFORMATION SUPPLIED BY CONTRACTOR

SKETCH THE LOCATION TO THE WELL INCLUDING MILEAGE ON ALL ROADS TRAVELED FROM NEAREST TOWNS OR HIGHWAYS



LOCATION OF WELL

SHOW LOCATION IN SECTION PLAT

QUAD Webster Groves COUNTY St Louis

ELEV 490 ± msl AREA NO.

SMALLEST ¼ ___ ¼ ___ ¼ ___ ¼ LARGEST ¼ NE ¼

SEC. 25 TWN. 45 N.RNG. 6 E OR W

LAT. 38 . 37 . 03 . LONG. 90 . 17 . 01 .

DESCRIBE LOCATION OF THE WELL SO WE WOULD BE ABLE TO VISIT THE WELL: 9 soil borings located throughout the site

CONTRACTOR'S NAME ▶	PERMIT NUMBER	DRILLERS NAME ▶	PERMIT NUMBER
Geotechnology, Inc.	WITHDRAWN	Geotechnology, Inc	WITHDRAWN

ABANDONMENT OF WELLS

FORMER USE OF WELL
- ☐ HAND DUG
- ☐ DOMESTIC (1 TO 3 CONNECTIONS)
- ☐ MULTI-FAMILY
- ☐ HEAT PUMP
- ☐ IRRIGATION
- ☒ SOIL BORING 9-20' borings
- ☐ PUBLIC WATER SUPPLY
- ☐ MINERAL EXPLORATORY TEST HOLE
- ☐ MONITORING
- ☐ OTHER

ORIGINAL DRILLER (IF KNOWN)	DATE ORIGINALLY DRILLED
Geotechnology, Inc	7/5 to 13/1995

DATE PLUGGED	STATIC WATER LEVEL	PUMP REMOVED FROM WELL?
7/5 to 13/95	FT	☐ YES ☐ NO

DEPTH OF THE WELL	LENGTH OF CASING	CASING DIAMETER/WELL DIA.
20'		

GROUT INSTALLATION METHOD	CASING CUT OFF THREE FEET BELOW SURFACE?	TYPE OF CASING
☐ GRAVITY ☒ TREMIE	☐ YES ☐ NO	☐ STEEL ☐ PLASTIC ☐ OTHER

GROUT MATERIAL USED
- NEAT CEMENT
- ☐ HI-EARLY
- ☒ PORTLAND TYPE 1
- ☐ OTHER
- ☐ BENTONITE SLURRY
- ☐ OTHER
- BENTONITE
- ☒ POWDER
- ☐ GRANULAR
- ☐ CHIPS
- ☐ PELLETS

NUMBER OF BAGS OF GROUT USED 27

POUNDS OF GROUT PER BAG 100

IF NEAT CEMENT USED, HOW MANY GALLONS OF WATER MIXED PER BAG OF CEMENT

TYPE OF FILL MATERIAL USED

AMOUNT OF FILL MATERIAL USED CU. YDS.

DEPTH TO TOP OF FILL MATERIAL

WELL DISINFECTED BEFORE PLUGGING?	NUMBER USED FOR DISINFECTION
☐ YES ☐ NO	GALLONS OF CHLORINE ___ POUNDS OF CHLORINE ___ TABLETS OF CHLORINE ___

WAS THE WELL ABANDONED BECAUSE OF HOOKING UP TO A PUBLIC OR RURAL WATER SUPPLY DISTRICT? ☐ YES ☐ NO

IF YES, WHAT IS THE NAME OF THE WATER DISTRICT:

WELL RECONSTRUCTION

TYPE OF REPAIR
- ☐ RAISED CASING
- ☐ DEEPENING OF WELL
- ☐ LINING OF WELL
- ☐ OTHER

USE OF WELL
- ☐ DOMESTIC (1 TO 3 CONNECTIONS)
- ☐ MULTI-FAMILY
- ☐ HEAT PUMP
- ☐ IRRIGATION
- ☐ PUBLIC WATER SUPPLY
- ☐ MONITORING
- ☐ OTHER

DIA. OF WELL CASING	WAS WELL DISINFECTED AFTER RECONSTRUCTION	DATE RECONSTRUCTION COMPLETED
IN.	☐ YES ☐ NO	

RAISED CASING INFORMATION

LENGTH OF CASING ADDED FT.

MATERIAL	METHOD OF ATTACHMENT
☐ STEEL ☐ PLASTIC	☐ THREADED ☐ WELDED ☐ COUPLED ☐ GLUED

LINER DETAILS

PURPOSE OF LINER	DIAMETER OF LINER
☐ USED ONLY TO HOLD BACK FORMATION ☐ USED TO SEAL OUT CONTAMINATION OR OTHER CONDITIONS	IN. WEIGHT OR SDR #

DEPTH TO THE TOP OF LINER FROM SURFACE	MATERIAL
FT.	☐ PLASTIC ☐ STEEL

AMOUNT OF LINER USED	JOINTS
FT.	☐ GLUED ☐ WELDED ☐ OTHER

LINER PACKER DETAILS

TYPE USED	DEPTH(S) SET
☐ NONE ☐ RUBBER BOOT	

LINER GROUT DETAILS

POSITION OF SEAL	MATERIAL
☐ FULL LENGTH ☐ BETWEEN PACKERS	CEMENT: ☐ PORTLAND TYPE 1 ☐ HI EARLY BENTONITE: ☐ CHIPS ☐ PELLETS ☐ SLURRY ☐ GRANULAR

DEPTH PUMP WAS SET ___ FT. GPM ___	DEPTH FROM SURFACE TO TOP OF THE GROUT SEAL	DEPTH FROM SURFACE TO BOTTOM OF THE GROUT SEAL
	FT.	FT.

CHECK THE BOX WHICH APPLIES

☑ I HEREBY CERTIFY THAT THE WELL HEREIN DESCRIBED WAS ABANDONED IN ACCORDANCE WITH THE DEPARTMENT OF NATURAL RESOURCES REQUIREMENTS FOR THE ABANDONMENT OF WELLS.

☐ I HEREBY CERTIFY THAT THE WELL HEREIN DESCRIBED WAS REPAIRED IN ACCORDANCE WITH THE DEPARTMENT OF NATURAL RESOURCES REQUIREMENTS FOR THE REPAIR OF WELLS.

CONTRACTORS SIGNATURE [signature] DATE 7/25/95

DEEPENING OF WELL INFORMATION

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION	YIELD

MO 780-1414 (1-89) DISTRIBUTION: WHITE/CONTRACTOR CANARY/DIVISION PINK/OWNER

MAIL CANARY COPY TO: DEPARTMENT OF NATURAL RESOURCES, P.O. BOX 250, ROLLA, MO 65401 RECORD MUST BE SUBMITTED WITHIN 60 DAYS OF COMPLETION DATE

Surface Elevation ___

Datum ___

Completion Date: 7-5-95

DEPTH IN FEET	DESCRIPTION OF MATERIAL	GRAPHIC LOG	PID VALUES (ppm)	SAMPLES
	Grass, then FILL: Soft to medium stiff, brown, silty CLAY, dry, with brick, rock, and black inclusions - CL		0	CS
	FILL: Soft, medium brown, silty CLAY, moist, trace black inclusions, trace gray mottling - CL		0	
	FILL: Stiff, medium brown and light gray mottled, silty CLAY, dry - CL		0	
5	soft, moist		0	CS
	FILL: Soft to medium stiff, dark gray and black, mottled SILT, dry - ML		0	
	FILL: Stiff, medium gray and white, silty CLAY, dry, with rock - CL		0	
	with sandstone and calcified limestone rock		0	
10	Stiff, white and gray, CLAY, dry to moist - CL		0	
	Soft to medium stiff, medium brown and light gray, mottled, silty CLAY, dry to moist, trace black inclusions - CL		0	CS
	moist to wet		0	
15	Soft to medium stiff, medium brown, silty CLAY, moist, with gray mottling and trace black inclusions - CL		0	CS
	Soft to medium stiff, medium brown and gray, mottled, silty CLAY, trace black inclusions - CL		0	CS
20	Very stiff, medium brown and gray, mottled, CLAY, dry, with black inclusions - CL		0	
	Boring terminated at 20.0 feet			

SHEAR STRENGTH, tsf
Δ - UU/2 O - QU/2 □ - SV
.5 1 1.5 2 2.5

STANDARD PENETRATION RESISTANCE
(ASTM D 1586)
▲ - BLOWS PER FOOT
WATER CONTENT, %
PL 10 20 30 40 50 LL

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

GROUNDWATER DATA

ENCOUNTERED AT ___ FEET
AT ___ AFTER ___ HOURS
AT ___ AFTER ___ HOURS
X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA

___ AUGER 3-3/4" HOLLOW STEM
WASHBORING FROM ___ FEET
PG DRILLER DAD LOGGER
CME 550 DRILL RIG

REMARKS:

SEE NOTATION SHEET FOR DESCRIPTION OF ABBREVIATIONS

Drawn by: DAD	Ck'd. by: SCB	App'vd. by: SCB
Date: 8/22/95	Date: 8/6/95	Date: 8/8/95

GEOTECHNOLOGY, INC
ENGINEERING AND ENVIRONMENTAL SERVICES

HUBERT WHEELER STATE SCHOOL

LOG OF BORING: SB1

Project No. 2498.03.4120.05

PLATE

Surface Elevation ___

Datum ___

Completion Date: 7-8-95

DEPTH IN FEET	DESCRIPTION OF MATERIAL	GRAPHIC LOG	PID VALUES (ppm)	SAMPLES
	Grass, then FILL: Stiff, medium brown and red-brown, SILT, with clay, dry, with brick, rock, and black inclusions - ML		0	
			0	
	with larger black inclusions		--	CS
	No recovery at 2-5 feet		--	
			--	
5	FILL: Brown, silty SAND, wood, glass, bricks, rock, paper - SP		0	
			0	
	No recovery at 6.25 to 10 feet		--	
			--	CS
			--	
			--	
10	FILL: Silty SAND, brick and rock, with black inclusions - SP		0	
			0	
	FILL: Soft, black, sandy SILT, very wet, with brick and rock - ML		0	
			--	CS
	FILL: Stiff, medium brown, silty CLAY, moist - CL		--	
	No recovery from 12 to 20 feet		--	
15			--	
			--	
			--	CS
			--	
			--	
20	Boring terminated at 20.0 feet			

SHEAR STRENGTH, tsf

Δ - UU/2 O - QU/2 □ - SV

.5 1 1.5 2 2.5

STANDARD PENETRATION RESISTANCE (ASTM D 1586)

▲ - BLOWS PER FOOT

WATER CONTENT, %

PL 10 20 30 40 50 LL

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

GROUNDWATER DATA

ENCOUNTERED AT___FEET

AT___AFTER___HOURS

AT___AFTER___HOURS

X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA

___AUGER 3-3/4" HOLLOW STEM

WASHBORING FROM ___FEET

PG DRILLER DAD LOGGER

CME 550 DRILL RIG

REMARKS:

SEE NOTATION SHEET FOR DESCRIPTION OF ABBREVIATIONS

Drawn by: DAO	Ck'd. by: SCB	App'vd. by: SCB
Date: 8/22/95	Date: 8/6/95	Date: 8/6/95

GEOTECHNOLOGY, INC

ENGINEERING AND ENVIRONMENTAL SERVICES

HUBERT WHEELER STATE SCHOOL

LOG OF BORING: SB2

Project No. 2498.03.4120.05

PLATE

Surface Elevation ___

Datum ___

Completion Date: 7-6-95

DEPTH IN FEET	DESCRIPTION OF MATERIAL	GRAPHIC LOG	PID VALUES (ppm)	SAMPLES
	Grass, then FILL: Medium brown, silty CLAY, moist, with black mottling, rock, trace black inclusions -CL		0	
	FILL: Medium brown and light gray, mottled, silty CLAY, trace black inclusions - CL		0	
	FILL: Stiff, red-brown and dark brown, silty CLAY, dry, trace trace light brown mottling - CL		0	CS
	FILL: Soft to medium stiff, light and medium brown, silty CLAY, moist, with red-brown mottling, rock and small gravel - CL		0	
5	FILL: Soft to medium stiff, medium brown and light brown, silty CLAY, dry to moist, trace black inclusion and small gravel - CL		0	
	FILL: Soft to medium stiff, dark brown and medium brown, mottled, silty CLAY, trace black inclusions, trace small gravel - CL		0	CS
			--	
			--	
10	FILL: Soft, medium brown and light brown, silty CLAY, moist, with gravel and trace black inclusions - CL		0	
	No recovery at 8-10 feet		0	
	FILL: Soft, medium brown and light brown, silty CLAY, moist, with gravel and black inclusions - CL		--	CS
	FILL: Sandy GRAVEL, wire, wood, and green stained rocks - GP		--	
			--	
15	No recovery at 11.5-15 feet		0	
	FILL: Medium and dark brown, silty CLAY, with brick and large limestone rock with quartz - CL		--	
	No recovery at 15.8-20 feet		--	CS
			--	
			--	
20	Boring terminated at 20.0 feet		--	

SHEAR STRENGTH, tsf

Δ - UU/2 O - QU/2 □ - SV

.5 1 1.5 2 2.5

STANDARD PENETRATION RESISTANCE (ASTM D 1586)

▲ - BLOWS PER FOOT

WATER CONTENT, %

PL 10 20 30 40 50 LL

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

GROUNDWATER DATA

ENCOUNTERED AT___FEET

AT___AFTER___HOURS

AT___AFTER___HOURS

X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA

___AUGER 3-3/4" HOLLOW STEM

WASHBORING FROM ___FEET

PG DRILLER DAD LOGGER

CME 550 DRILL RIG

REMARKS:

SEE NOTATION SHEET FOR DESCRIPTION OF ABBREVIATIONS

Drawn by: DAD	Ck'd. by: SLB	App'vd. by: SLB
Date: 7/20/95	Date: 9/6/95	Date: 9/6/95

GEOTECHNOLOGY, INC

ENGINEERING AND ENVIRONMENTAL SERVICES

HUBERT WHEELER STATE SCHOOL

LOG OF BORING: SB3

Project No. 2498.03.4120.05

PLATE

Surface Elevation ___

Datum ___

Completion Date: 7-6-95

SHEAR STRENGTH, tsf
Δ - UU/2 O - QU/2 □ - SV
.5 1 1.5 2 2.5

STANDARD PENETRATION RESISTANCE
(ASTM D 1586)
▲ - BLOWS PER FOOT
WATER CONTENT, %
PL 10 20 30 40 50 LL

DEPTH IN FEET	DESCRIPTION OF MATERIAL	GRAPHIC LOG	PID VALUES (ppm)	SAMPLES
	Grass, then FILL: Soft, medium brown, silty CLAY, moist, with light brown mottling, rock, gravel, brick, and black inclusions - CL		0	
			0	
			0	CS
	— large concrete fragments		0	
	FILL: Soft to medium stiff, medium and light brown, mottled, silty CLAY, dry to moist, with concrete, brick, and black inclusions - CL		0	
5			--	
	FILL: Very stiff, black, sandy matrix, with small gravel		--	
	No recovery at 5-10 feet		--	CS
			--	
			--	
10	FILL: Very stiff, black, sandy matrix, with peagravel		0	
	FILL: Stiff to very stiff, white, silty CLAY, dry to moist, with small gravel and black inclusions - CL		0	
			0	CS
	No recovery at 13-15 feet		--	
			--	
15	FILL: Asphalt and sandstone		0	
	FILL: Soft, white and orange, silty CLAY matrix of small gravel, rocks, and large black inclusions, stratified with dark brown, silty clay, dry to moist - CL		0	
			0	CS
			0	
	FILL: White, silty CLAY, with orange streaking and brown-red, mottled, silt - CL		--	
			--	
20	No recovery at 18.5-20 feet		--	
	Boring terminated at 20.0 feet			

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

GROUNDWATER DATA

ENCOUNTERED AT___FEET
AT___AFTER___HOURS
AT___AFTER___HOURS
X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA

___AUGER 3-3/4" HOLLOW STEM
WASHBORING FROM ___FEET
PG DRILLER DAD LOGGER
CME 550 DRILL RIG

REMARKS:

SEE NOTATION SHEET FOR DESCRIPTION OF ABBREVIATIONS

Drawn by: DAD	Ck'd by: SCB	App'vd by: SCB
Date: 8/22/95	Date: 8/8/95	Date: 8/8/95

GEOTECHNOLOGY, INC
ENGINEERING AND ENVIRONMENTAL SERVICES

HUBERT WHEELER STATE SCHOOL

LOG OF BORING: SB4

Project No. 2498.03.4120.05

PLATE

Surface Elevation ___

Datum ___

Completion Date: 7-7-95

DEPTH IN FEET	DESCRIPTION OF MATERIAL	GRAPHIC LOG	PID VALUES (ppm)	SAMPLES
	Grass, then FILL: Soft to medium stiff, medium brown, silty CLAY, moist, with light brown mottling, rock, gravel, and trace black black inclusions - CL		0	
			0	
	FILL: Soft to medium stiff, medium brown, silty CLAY with light brown, gray, and rust colored mottling, moist, with gravel and brick, trace black inclusions - CL		0	CS
			0	
	with larger inclusions, dry to moist		0	
5			0	
	FILL: Soft, medium brown, silty CLAY, moist, with light brown mottling, trace rock - CL		0	
	concrete		0	CS
	FILL: Medium stiff, medium brown, silty CLAY, moist, with rock and black inclusions - CL		0	
			--	
10	No recovery at 8.5-10 feet			
	FILL: BRICK and ROCK		0	
			0	
	FILL: CONCRETE		0	CS
	FILL: Soft, brown, silty CLAY, moist, with brick and rock, trace black inclusions - CL		--	
	No recovery at 13-15 feet		--	
15				
	FILL: LIMESTONE rock boulder		0	
	FILL: BRICK		0	
	FILL: Soft, brown and black, SILT, moist to wet, with brick, rock, wood and metal - ML		--	CS
	No recovery at 17-20 feet		--	
			--	
20			0	
	Boring terminated at 20.0 feet			

SHEAR STRENGTH, tsf

Δ - UU/2 O - QU/2 D - SV

.5 1 1.5 2 2.5

STANDARD PENETRATION RESISTANCE

(ASTM D 1586)

▲ - BLOWS PER FOOT

WATER CONTENT, %

PL 10 20 30 40 50 LL

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

GROUNDWATER DATA

ENCOUNTERED AT ✓ FEET

AT___ AFTER___ HOURS

AT___ AFTER___ HOURS

X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA

___ AUGER 3-3/4" HOLLOW STEM

WASHBORING FROM ___ FEET

PG DRILLER DAD LOGGER

CME 550 DRILL RIG

REMARKS:

SEE NOTATION SHEET FOR DESCRIPTION OF ABBREVIATIONS

Drawn by: DAD	Ck'd. by: SCA	App'vd. by: SCA
Date: 8/22/95	Date: 9/6/95	Date: 9/6/95

GEOTECHNOLOGY, INC

ENGINEERING AND ENVIRONMENTAL SERVICES

HUBERT WHEELER STATE SCHOOL

LOG OF BORING: SB5

Project No. 2498.03.4120.05

PLATE

Surface Elevation ___

Datum ___

Completion Date: 7-7-95

DEPTH IN FEET	DESCRIPTION OF MATERIAL	GRAPHIC LOG	PID VALUES (ppm)	SAMPLES
	Grass, then FILL: Stiff, dark brown, silty CLAY, dry, with light brown mottling and black inclusions - CL		0	
			0	
	FILL: Stiff, medium brown, silty CLAY, dry, with light brown mottling, brick, rock, and black inclusions - CL		0	CS
	FILL: Medium grain, brown, SAND		--	
	FILL: Medium brown, silty CLAY		--	
5	No recovery at 3-5 feet			
	FILL: Soft to medium stiff, dark brown and black, silty CLAY, moist, with olive green mottling, brick, rock, and black inclusions - CL		0	
			0	
	FILL: BRICK		0	CS
	FILL: Soft, dark brown and black mottled, silty CLAY, wet, with brick, rock, and olive green inclusions - CL		0	
	FILL: White and yellow, silty CLAY - CL		--	
10	No recovery at 9-10 feet		0	
	FILL: Medium grain, brown and gray SAND, moist, with brick, rock, and black mottled, silty clay - SP		0	
	FILL: Soft, medium brown and black, silty CLAY, moist, with green mottling, brick, rock, and sand - CL		--	CS
			--	
	No recovery at 12-15 feet		--	
15	Soft, medium brown, silty CLAY, moist, with light gray and dark brown mottling, trace black inclusions - CL		0	
			0	
			0	CS
			0	
			0	
20	Boring terminated at 20.0 feet		0	

SHEAR STRENGTH, tsf

Δ - UU/2 O - QU/2 □ - SV

.5 1 1.5 2 2.5

STANDARD PENETRATION RESISTANCE (ASTM D 1586)

▲ - BLOWS PER FOOT

WATER CONTENT, %

PL 10 20 30 40 50 LL

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

GROUNDWATER DATA

ENCOUNTERED AT ___ FEET

AT ___ AFTER ___ HOURS

AT ___ AFTER ___ HOURS

X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA

___ AUGER 3-3/4" HOLLOW STEM

WASHBORING FROM ___ FEET

PG DRILLER DAD LOGGER

CME 550 DRILL RIG

REMARKS:

SEE NOTATION SHEET FOR DESCRIPTION OF ABBREVIATIONS

Drawn by: DAD	Ck'd. by: SCB	App'vd. by: SCB
Date: 7/22/95	Date: 9/6/95	Date: 9/6/95

GEOTECHNOLOGY, INC

ENGINEERING AND ENVIRONMENTAL SERVICES

HUBERT WHEELER STATE SCHOOL

LOG OF BORING: SB6

Project No. 2498.03.4120.05

PLATE

Surface Elevation ___

Datum ___

Completion Date: 7-10-95

DEPTH IN FEET	DESCRIPTION OF MATERIAL	GRAPHIC LOG	PID VALUES (ppm)	SAMPLES	SHEAR STRENGTH, tsf (Δ - UU/2, O - QU/2, □ - SV; .5, 1, 1.5, 2, 2.5) / STANDARD PENETRATION RESISTANCE (ASTM D 1586) ▲ - BLOWS PER FOOT / WATER CONTENT, % (PL, 10, 20, 30, 40, 50, LL)
	Grass, then FILL: Stiff, medium brown, silty CLAY, dry, with rock and gravel - CL		0		
	FILL: Stiff, white and light gray, SILT, with clay, dry, with medium brown mottling and gravel - ML		0		
	FILL: Stiff, black and white, silty CLAY, dry, with brick, rock and gravel - CL		0	CS	
	No recovery at 3-15 feet		--		
5			--		
			--		
			--	CS	
			--		
			--		
10			--		
			--		
			--	CS	
			--		
			--		
15	Soft, medium brown, silty CLAY, moist, trace light gray mottling, trace black inclusions - CL		0		
			0		
			0	CS	
			0		
			0		
20	Boring terminated at 20.0 feet		0		

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

GROUNDWATER DATA

ENCOUNTERED AT___FEET

AT___AFTER___HOURS

AT___AFTER___HOURS

X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA

___AUGER 3-3/4" HOLLOW STEM

WASHBORING FROM ___FEET

PG DRILLER DAD LOGGER

CME 550 DRILL RIG

REMARKS:

SEE NOTATION SHEET FOR DESCRIPTION OF ABBREVIATIONS

Drawn by: DAD	Ck'd. by: SCO	App'vd. by: SCO
Date: 8/22/95	Date: 9/6/95	Date: 9/6/95

GEOTECHNOLOGY, INC
ENGINEERING AND ENVIRONMENTAL SERVICES

HUBERT WHEELER STATE SCHOOL

LOG OF BORING: SB8

Project No. 2498.03.4120.05

PLATE

Surface Elevation ___

Datum ___

Completion Date: 7-10-95

DEPTH IN FEET	DESCRIPTION OF MATERIAL	PID VALUES (ppm)	SAMPLES
	ASPHALT pavement	0	
	FILL: Stiff, medium brown, silty CLAY, with light gray and dark brown mottling, gravel and black inclusions - CL	0	
		0	CS
	FILL: Soft, black, silty CLAY, dry, trace gravel - CL	--	
	FILL: Soft, dark and medium brown, mottled, SILT, with clay, dry, with gravel and black inclusions - ML	--	
5	No recovery at 3-5 feet	0	
	FILL: Black and medium brown, silty GRAVEL, dry, with brick and rock - GP	0	
	No recovery at 7-10 feet	--	CS
		--	
		--	
10	FILL: Black and medium brown, silty GRAVEL, dry, with brick and rock - GP	0	
	Soft, medium brown, SILT, with clay, dry to moist, with rust colored mottling and trace black inclusions - ML	0	
		0	CS
	increased rust colored mottling	0	
		0	
15	Soft, medium brown and gray, mottled, SILT, with clay, moist, trace black inclusions - ML	0	
		0	
	stiff with less gray mottling	0	CS
		0	
		0	
20	Boring terminated at 20.0 feet	0	

GRAPHIC LOG

SHEAR STRENGTH, tsf
Δ - UU/2 O - QU/2 □ - SV
.5 1 1.5 2 2.5

STANDARD PENETRATION RESISTANCE
(ASTM D 1586)
▲ - BLOWS PER FOOT
WATER CONTENT, %
PL 10 20 30 40 50 LL

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

GROUNDWATER DATA

ENCOUNTERED AT___FEET
AT___AFTER___HOURS
AT___AFTER___HOURS
X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA

___AUGER 3-3/4" HOLLOW STEM
WASHBORING FROM ___FEET
PG DRILLER DAD LOGGER
CME 550 DRILL RIG

REMARKS:

SEE NOTATION SHEET FOR DESCRIPTION OF ABBREVIATIONS

Drawn by: DAD	Ck'd by: SCB	App'vd by: SCB
Date: 8/23/95	Date: 9/6/95	Date: 9/6/95

GEOTECHNOLOGY, INC
ENGINEERING AND ENVIRONMENTAL SERVICES

HUBERT WHEELER STATE SCHOOL

LOG OF BORING: SB9

Project No. 2498.03.4120.05

PLATE

Surface Elevation 101.2

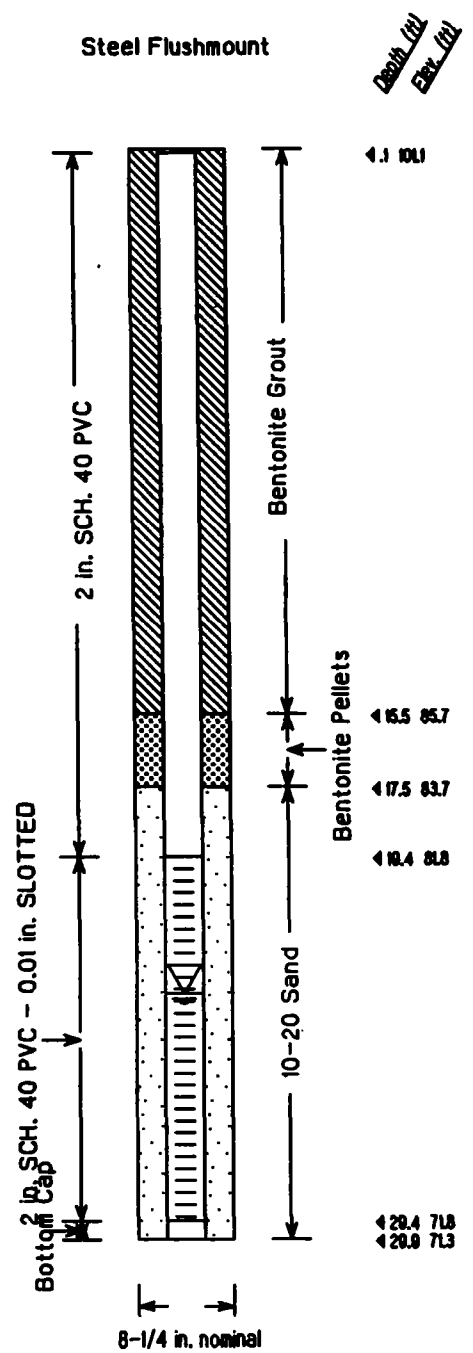
Datum SITE

Completion Date: 7-11-95
Development Date: 7-14-95

DEPTH IN FEET	DESCRIPTION OF MATERIAL	PID VALUES (ppm)	SAMPLES
	Grass, then FILL: Medium brown, silty CLAY, with light gray mottling, brick, rock, and gravel - CL	0 0	CS
	No recovery at 2.5-5 feet	-- -- --	
5	FILL: Soft, medium brown, silty CLAY, moist, with light gray mottling and black inclusions - CL	0 0	CS
	FILL: Stiff, medium brown, silty CLAY, dry, with brick, rock, gravel, and black inclusions - CL	-- -- --	
	with glass and pottery		
10	No recovery at 7-10 feet	0	
	FILL: Soft, medium brown, light brown, and black, SILT, moist, with gravel, sand, brick, rock and large black inclusions - CL	0 0	CS
	No recovery at 13-15 feet	-- --	
15	FILL: Soft, medium brown, light brown and black SILT, moist, with gravel, sand, brick, rock and large black inclusions - CL	0 0 0	CS
	FILL: White, fine, clayey GRAVEL, wet, with rock, brick, glass, trace black inclusions - CL	-- --	
20	No recovery at 18-20 feet	0	
	FILL: Soft, dark brown, silty CLAY, wet, trace gravel and medium brown inclusions - CL	0 0 0	CS
	No recovery at 23-25 feet	-- --	
25	Soft, dark gray and black, silty CLAY, wet, trace roots - CL	0 0	CS
	no roots	0	
	Soft to medium stiff, medium brown and gray, silty CLAY, wet, with black inclusions - CL	0 0	
30	Stiff, medium and light brown, SILT, with clay, dry - ML	0	
	Boring terminated at 30.0 feet		

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

WELL DIAGRAM



GROUNDWATER DATA

ENCOUNTERED AT 20 FEET
AT 23.76 AFTER 72 HOURS
AT 23.14 AFTER 168 HOURS
___ FREE WATER NOT ENCOUNTERED DURING DRILLING

REMARKS:

DRILLING DATA

___ AUGER 4-1/4" HOLLOW STEM
WASHBORING FROM ___ FEET
PG DRILLER DAD LOGGER
CME 550 DRILL RIG

Drawn by: DAD	Ck'd. by: SLB	App'vd. by: SLB
Date: 8/22/95	Date: 9/5/95	Date: 9/6/95

GEOTECHNOLOGY, INC
ENGINEERING AND ENVIRONMENTAL SERVICES

HUBERT WHEELER STATE SCHOOL

LOG OF BORING: MW-1

Project No. 2498.03.4120.05

PLATE

SEE NOTATION SHEET FOR DESCRIPTION OF ABBREVIATIONS

Surface Elevation 101.2

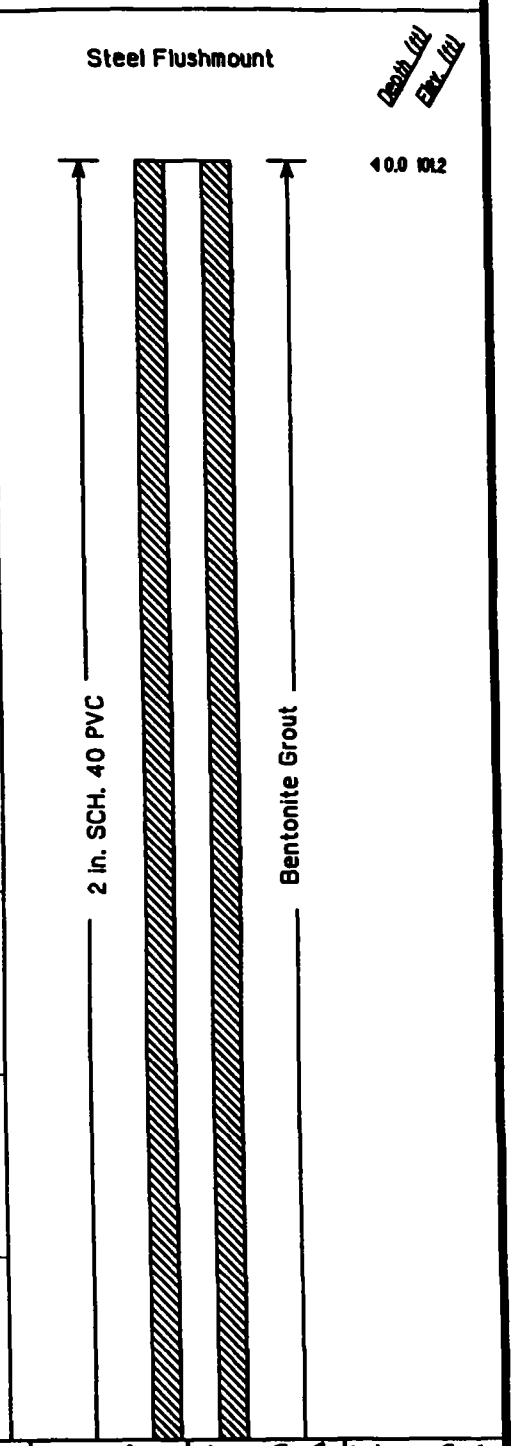
Datum SITE

Completion Date: 7-12-95
Development Date: 7-14-95

DEPTH IN FEET	DESCRIPTION OF MATERIAL	PID VALUES (ppm)	SAMPLES
	Asphalt covered base course	0	
	FILL: Medium brown and gray, silty CLAY, with olive green mottling, rock, and gravel, trace black inclusions - CL	0 0 0	CS
5	FILL: Medium grained, brown, SAND, with silt, rock, gravel - SP	-- 0	
	FILL: Soft, medium brown and black, silty CLAY, dry to moist, with rock, brick and glass, trace nails - CL	-- --	CS
	No recovery at 4-5 feet	--	
	Sandy SILT, brick, gravel and rock - ML	0	
10	No recovery at 8-9 feet	0	
	FILL: Medium brown, silty CLAY, with brick, rock, glass, and black inclusions - CL	0 0 0	CS
	Soft, medium brown, silty CLAY, moist, with gray mottling and black inclusions - CL	0	
15	less gray mottling, trace black inclusions	0	
	medium stiff	0	
	stiff	0 0 0	CS
20	Very stiff, orange and brown CLAY, moist, trace gray mottling, trace black inclusions - CL	0 0	
	Stiff, white and brown CLAY, moist	0	
	Soft to medium stiff, medium brown, silty CLAY, dry, with dark brown-red, and black inclusions, dry - CL	0 0 0	CS
25	Stiff, medium brown CLAY, dry to moist, with orange mottling, trace black inclusions - CL	0	
	Stiff, orange-brown and white, shaley CLAY, with silt, dry, trace yellow mottling - CL	0 0 0	CS
	changing to white, with orange-brown mottling	0	
30	Very stiff, red-brown, shaley CLAY, with silt, dry - CL	0	
	with olive green, orange, and gray mottling	0 0 0 0 0	CS

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

WELL DIAGRAM



GROUNDWATER DATA

ENCOUNTERED AT 42 FEET
AT 42.06 AFTER 48 HOURS
AT 41.82 AFTER 144 HOURS
___ FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA

___ AUGER 4 1/4" HOLLOW STEM
WASHBORING FROM ___ FEET
PG DRILLER DAD LOGGER
CME 550 DRILL RIG

REMARKS:

SEE NOTATION SHEET FOR DESCRIPTION OF ABBREVIATIONS

Drawn by: DAD	Ck'd. by: SLA	App'vd. by: SLA
Date: 8/22/95	Date: 9/5/95	Date: 9/5/95

GEOTECHNOLOGY, INC
ENGINEERING AND ENVIRONMENTAL SERVICES

HUBERT WHEELER STATE SCHOOL

LOG OF BORING: MW-2

Project No. 2498.03.4120.05

PLATE

Surface Elevation 101.2

Datum SITE

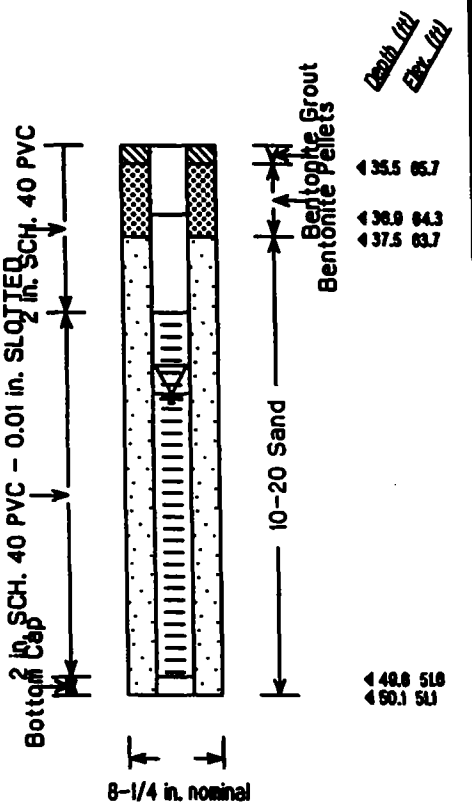
Completion Date: 7-12-95

Development Date: 7-14-95

DEPTH IN FEET	DESCRIPTION OF MATERIAL	GRAPHIC LOG	PID VALUES (ppm)	SAMPLES
			0	
	Very stiff, red-brown, shaley CLAY, dry, with red-brown shale, mottled with green, gray and orange - CL		0	CS
40	Brown and gray, shaley CLAY, dry to moist, with gray-orange mottling - CL		0	CS
	Stiff, medium gray, shaley CLAY, very wet, with medium brown, orange, and dark gray streaking - CL		0	
45	Stiff, gray, shaley CLAY, moist - CL		0	CS
	very stiff, dark gray		0	
	trace brown and red streaking, wet		0	
	no brown and red streaking		0	
50	Boring terminated at 50.1 feet		0	
55				
60				
65				

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

WELL DIAGRAM



GROUNDWATER DATA

ENCOUNTERED AT 42 FEET

AT 42.06 AFTER 48 HOURS

AT 41.82 AFTER 144 HOURS

___ FREE WATER NOT ENCOUNTERED DURING DRILLING

REMARKS:

DRILLING DATA

___ AUGER 4 1/4" HOLLOW STEM

WASHBORING FROM ___ FEET

PG DRILLER DAD LOGGER

CME 550 DRILL RIG

Drawn by: DAD	Ck'd. by: SCB	App'd. by: SCB
Date: 8/22/95	Date: 9/6/95	Date: 9/6/95

GEOTECHNOLOGY, INC
ENGINEERING AND ENVIRONMENTAL SERVICES

HUBERT WHEELER STATE SCHOOL

Continuation of BORING: MW-2

Project No. 2498.03.4120.05

PLATE

SEE NOTATION SHEET FOR DESCRIPTION OF ABBREVIATIONS

Surface Elevation 101.0

Datum SITE

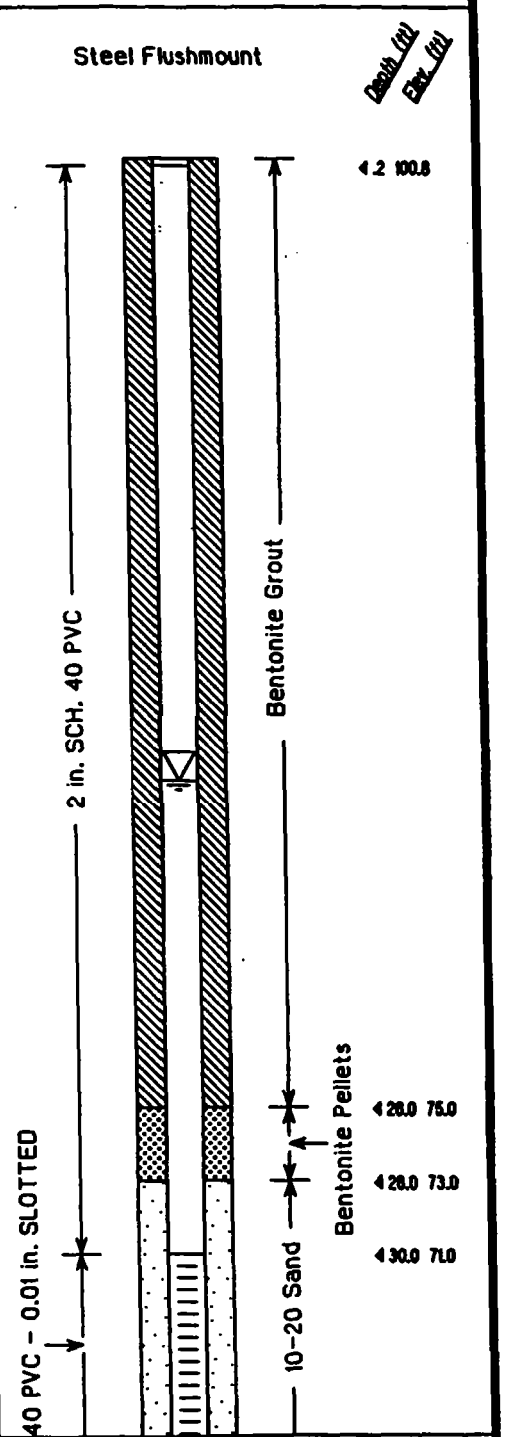
Completion Date: 7-13-95

Development Date: 7-14-95

DEPTH IN FEET	DESCRIPTION OF MATERIAL	GRAPHIC LOG	PID VALUES (ppm)	SAMPLES
	Asphalt pavement over base course		0	
	FILL: Soft, medium brown, silty CLAY, moist, with brick, rock, and black inclusions - CL		0 0	CS
	No recovery at 3-5 feet		-- --	
5	FILL: Soft, medium brown SILT, with clay, moist, with brick, rock, glass, and black inclusions - ML		0 0	
	No recovery at 7-10 feet		-- -- --	CS
10	Soft, medium brown SILT, with clay, moist, trace gray mottling and black inclusions - ML		0 0	
	no black inclusions		0 0 0	CS
15	Soft to medium stiff, medium brown, silty CLAY, moist, trace black inclusions - CL		0 0	
	Medium stiff, medium brown CLAY, with silt, moist, with light brown and gray mottling and black inclusions - CL		0 0 0	CS
20	soft to medium stiff, less clay		0	
	Soft, medium brown, silty CLAY, moist, with dark brown and light gray mottling, with black inclusions - CL		0 0 0	CS
	No recovery at 23-25 feet		-- --	
25	Soft, medium brown, silty CLAY, moist, with dark brown and light gray mottling, with black inclusions - CL		0 0 0 0 0	CS
30	Soft, medium brown and gray, silty CLAY, wet, with black inclusions - CL		0 0	
	stiff, more clay, very wet		0 0 0	CS
	Soft, medium gray, silty CLAY, very wet, with brown mottling - CL		0	

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

WELL DIAGRAM



GROUNDWATER DATA

ENCOUNTERED AT 30 FEET

AT 17.01 AFTER 24 HOURS

AT 17.05 AFTER 120 HOURS

___ FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA

___ AUGER 4-1/4" HOLLOW STEM

WASHBORING FROM ___ FEET

PG DRILLER DAD LOGGER

CME 550 DRILL RIG

REMARKS:

SEE NOTATION SHEET FOR DESCRIPTION OF ABBREVIATIONS

Drawn by: DAD	Ck'd by: SCS	App'vd by: SCS
Date: 8/29/95	Date: 9/6/95	Date: 9/6/95

GEOTECHNOLOGY, INC
ENGINEERING AND ENVIRONMENTAL SERVICES

HUBERT WHEELER STATE SCHOOL

LOG OF BORING: MW-3

Project No. 2498.03.4120.05

PLATE

Surface Elevation 101.0

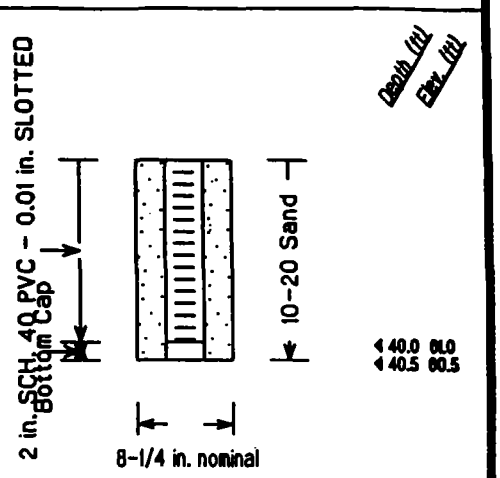
Datum SITE

Completion Date: 7-13-95
Development Date: 7-14-95

DEPTH IN FEET	DESCRIPTION OF MATERIAL	GRAPHIC LOG	PID VALUES (ppm)	SAMPLES
	Soft, medium brown, silty CLAY, very wet, with medium grain, angular gravel - CL		0	
	Medium grain, angular, GRAVEL, with silty clay, very wet - GP		0	
	Soft, medium brown, silty CLAY, very wet, with gravel, trace gray mottling - CL		0	CS
40	Medium grain, angular, GRAVEL, very wet, with soft, silty clay, trace gray mottling - GP		0	
	Soft, medium brown, silty CLAY, very wet, with gravel, and dark gray streaks - CL		--	
45	No recovery at 39-40.5 feet		--	
	Boring terminated at 40.5 feet			
50				
55				
60				
65				

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

WELL DIAGRAM



GROUNDWATER DATA

ENCOUNTERED AT 30 FEET
AT 17.01 AFTER 24 HOURS
AT 17.05 AFTER 120 HOURS
___ FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA

___ AUGER 4-1/4" HOLLOW STEM
WASHBORING FROM ___ FEET
PG DRILLER DAD LOGGER
CME 550 DRILL RIG

REMARKS:

SEE NOTATION SHEET FOR DESCRIPTION OF ABBREVIATIONS

Drawn by: DAD	Ck'd. by: SCB	App'vd. by: SCB
Date: 8/29/95	Date: 9/6/95	Date: 9/6/95

GEOTECHNOLOGY, INC
ENGINEERING AND ENVIRONMENTAL SERVICES

HUBERT WHEELER STATE SCHOOL

Continuation of BORING: MW-3

Project No. 2498.03.4120.05

PLATE

BORING LOG: TERMS AND SYMBOLS

GENERAL NOTES

1. *Information on each boring log is a compilation of subsurface conditions based on soil or rock classifications obtained from the field as well as from laboratory testing of samples. The strata lines on the logs may be approximate or the transition between the strata may be gradual rather than distinct. Water level measurements refer only to those observed at the times and places indicated, and may vary with time, geologic condition or construction activity.*
2. *Relative composition and Unified Soil Classification designations are based on visual estimates and are approximate only. If laboratory tests were performed to classify the soil, the unified designation is shown in parenthesis.*
3. *Value given in Unit Dry Weight/SPT Column is either a unit dry weight in pounds per cubic foot, if adjacent to a ST sample designation, or blows per 6-inch increment if adjacent to a SS sample designation.*

ABBREVIATIONS

UU/2	*Shear Strength from Unconsolidated - Undrained Triaxial Test (ASTM D2850)*
QU/2	*Shear Strength from Unconfined Compression Test (ASTM D2166)*
SV	*Shear Strength from Field Vane (ASTM D2573)*
PL	*Plastic Limit (ASTM D4318)*
LL	*Liquid Limit (ASTM D4318)*

LEGEND

CS	Continuous Sampler
GB	Grab Sample Taken From Auger Cuttings Or Wash Water Return
NX 100/42	NX Rock Core with Percent Recovery/R.Q.D. Given in Adjacent Column
PST	Three Inch Diameter Piston Tube Sample
SS	Split Spoon Sample (Standard Penetration Test)
ST	Three Inch Diameter Shelby Tube Sample
*	Sample Not Recovered
SV	Field Vane Test

SPLIT - BARREL SAMPLER DRIVING RECORD

Blow Per Foot (N-Value)	Description
25	25 blows drove sampler 12 inches after initial 6 inches of seating.
75/10"	75 blows drove sampler 10 inches after initial 6 inches of seating.
50/S3"	50 blows drove sampler 3 inches during initial 6 inch seating interval.

NOTES: 1. To avoid damage to sampling tools, driving is limited to 50 blows during any six inch interval.
2. N-Value (Blow Count) is the standard penetration resistance based on the total number of blows, using a 140-lb. hammer with 30-inch free fall, required to drive a split spoon the last two of three, 6 inch drive increments. (Example: 4/7/9, N = 7 + 9 = 16). Values are shown as a summation on grid plot and may be shown as 4/7/9 in Unit Dry Weight -SPT column.

RELATIVE COMPOSITION

Trace	0-10%
With/Some	11-35%
Soil modifier such as silty, clayey, sandy, etc.	> 35%

DENSITY OF GRANULAR SOILS

Descriptive Term:	N—Value
Very Loose	0-4
Loose	5-10
Medium Dense	11-30
Dense	31-50
Very Dense	> 50

STRENGTH OF COHESIVE SOILS

Consistency	Undrained Shear Strength Tons Per Sq. Ft.	Field Test	Approximate N-Value Range
Very Soft	less than 0.12	Thumb will penetrate soil more than 1".	0-1
Soft	0.13 to 0.25	Thumb will penetrate soil about 1".	2-4
Medium Stiff	0.26 to 0.50	Thumb will penetrate soil about ¼"	5-8
Stiff	0.51 to 1.00	Thumb hardly indents soil	9-15
Very Stiff	1.01 to 2.00	Thumb will not indent soil, but readily indented with thumbnail	16-30
Hard	greater than 2.00	Thumbnail will not indent soil	> 30

SOIL GRAIN SIZE

U.S. STANDARD SIEVE

12"	3"	¼"	4	10	40	200

BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		COARSE	FINE	COARSE	MEDIUM	FINE		

300 76.2 19.1 4.76 2.00 0.42 0.074 .002

SOIL GRAIN SIZE IN MILLIMETERS

SOIL STRUCTURE

Calcareous — *Having appreciable quantities of carbonate.*

Fissured — *Containing shrinkage or relief cracks, often filled with fine sand or silt; usually more or less vertical.*

Slickensided — *Having planes of weakness that appear slick and glossy. The degree of slickensidedness depends upon the spacing of slickensides and the ease of breaking along these planes.*

Layer — *Inclusion greater than 3 inches thick.*

Seam — *Inclusion 1/8 inch to 3 inches thick extending through the sample.*

Parting — *Inclusion less than 1/8 inch thick.*

Pocket — *Inclusion of material of different texture that is smaller than the diameter of the sample.*

Interlayered — *Soil samples composed of alternating layers of different soil types.*

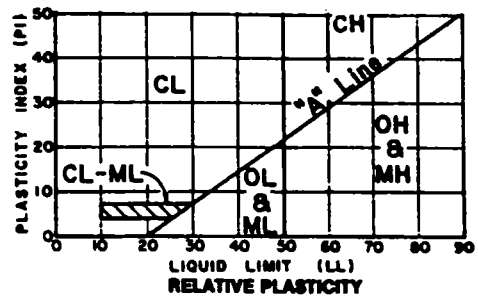
Intermixed — *Soil samples composed of pockets of different soil types and a layered or laminated structure is not evident.*

Laminated — *Soil sample composed of alternating partings or seams of different soil type.*

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR		DIVISIONS	SYMBOL	DESCRIPTION
Coarse-Grained Soils (more than 50% Larger than No. 200 Sieve Size)	Gravel and Gravelly Soils	Clean Gravels Little or no Fines	GW	Well-Graded Gravel, Gravel-Sand Mixture
			GP	Poorly-Graded Gravel, Gravel-Sand Mixture
		Gravels with Appreciable Fines	GM	Silty Gravel, Gravel-Sand-Silt Mixture
			GC	Clayey-Gravel, Gravel-Sand-Clay Mixture
	Sand and Sandy Soils	Clean Sands Little or no Fines	SW	Well-Graded Sand, Gravelly Sand
			SP	Poorly-Graded Sand, Gravelly Sand
		Sands with Appreciable Fines	SM	Silty Sand, Sand-Silt Mixture
			SC	Clayey Sand, Sand-Clay Mixture
Fine-Grained Soils (more than 50% Smaller than No. 200 Sieve Size)	Silts and Clays	Liquid Limit Less than 50	ML	Silt, Clayey Silt, Silty or Clayey Very Fine Sand, Slight Plasticity
			CL	Clay, Sandy Clay, Silty Clay, Low to Medium Plasticity
			OL	Organic Silts or Silty Clays of Low Plasticity
	Silts and Clays	Liquid Limit More than 50	MH	Silt, Fine Sandy or Silty Soil with High Plasticity
			CH	Clay, High Plasticity
			OH	Organic Clay of Medium to High Plasticity
	Highly Organic Soils		PT	Peat, Humus, Swamp Soil

PLASTICITY CHART



RELATIVE PLASTICITY

Nonplastic	Cannot Roll Into Ball
Trace Plasticity	Barely Roll Into Ball
Medium Plastic	Can be Rolled Into Ball
Highly Plastic	No Rupture by Kneading

VISUAL DESCRIPTION CRITERIA*

TABLE 1: CRITERIA FOR DESCRIBING ANGULARITY OF COARSE-GRAINED PARTICLES

Description	Criteria
Angular	Particles have sharp edges and relatively plane sides with unpolished surfaces
Subangular	Particles are similar to angular description but have rounded edges
Subrounded	Particles have nearly plane sides but have well-rounded corners and edges
Rounded	Particles have smoothly curved sides and no edges

TABLE 2: CRITERIA FOR DESCRIBING PARTICLE SHAPE

Description	Criteria
Flat	Particles with width/thickness X3
Elongated	Particles with length/width X3
Flat and Elongated	Particles meet criteria for both flat and elongated

TABLE 3: CRITERIA FOR DESCRIBING MOISTURE CONDITION

Description	Criteria
Dry	Absence of moisture, dusty, dry to the touch
Moist	Damp but no visible water
Wet	Visible free water, usually soil is below water table

TABLE 4: CRITERIA FOR DESCRIBING REACTION WITH HCL

Description	Criteria
None	No visible reaction
Weak	Some reaction, with bubbles forming slowly
Strong	Violent reaction, with bubbles forming immediately

TABLE 6: CRITERIA FOR DESCRIBING CEMENTATION

Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure
Moderate	Crumbles or breaks with considerable finger pressure
Strong	Will not crumble or break with finger pressure

*NOTES: 1. Tables adapted from ASTM D 2488 "Description and Identification of Soils" (Visual-Manual Procedure)
2. Tables 5, 7 and 11 incorporated into other information on this plate.

TABLE 8: CRITERIA FOR DESCRIBING DRY STRENGTH

Description	Criteria
None	The dry specimen crumbles into powder with mere pressure of handling
Low	The dry specimen crumbles into powder with some finger pressure
Medium	The dry specimen breaks into pieces or crumbles with considerable finger pressure
High	The dry specimen cannot be broken with finger pressure. Specimen will break into pieces between thumb and a hard surface
Very High	The dry specimen cannot be broken between the thumb and a hard surface

TABLE 9: CRITERIA FOR DESCRIBING DILATANCY

Description	Criteria
None	No visible change in the specimen
Slow	Water appears slowly on the surface of the specimen during shaking and does not disappear or disappears slowly upon squeezing
Rapid	Water appears quickly on the surface of the specimen during shaking and disappears quickly upon squeezing

TABLE 10: CRITERIA FOR DESCRIBING TOUGHNESS

Description	Criteria
Low	Only slight pressure is required to roll the thread near the plastic limit. The thread and the lump are weak and soft.
Medium	Medium pressure is required to roll the thread to near the plastic limit. The thread and the lump have medium stiffness
High	Considerable pressure is required to roll the thread to near the plastic limit. The thread and the lump have very high stiffness

TABLE 12: IDENTIFICATION OF INORGANIC FINE-GRAINED SOILS FROM MANUAL TESTS

Soil Symbol	Dry Strength	Dilatancy	Toughness
ML	None to low	Slow to rapid	Low or thread cannot be formed
CL	Medium to high	None to slow	Medium
MH	Low to medium	None to slow	Low to medium
CH	High to very high	None	High

APPENDIX F

SLUG TEST RESULTS

SAMPLE CALCULATION FOR HYDRAULIC CONDUCTIVITY

Hydraulic conductivity is calculated from slug test data using the following equation:

$$K = \frac{r_c^2 \ln(R_e / r_w)}{2L_e} \frac{1}{t} \ln \frac{y_o}{y_t} \tag{1}$$

K	=	hydraulic conductivity (cm/sec)
r_c	=	radius of casing (cm)
R_e	=	effective radial distance over which y is dissipated; determined with an electrical resistance network analog and simplified in table and equation form.
r_w	=	radius of well boring (cm)
L_e	=	length of screened or open section of well (cm)
y_o	=	y at time zero (sec)
y_t	=	y at time t (sec)
H	=	Static height of water in well (cm)

A plot of ln y_t versus t should approximate a straight line on semilog paper. In general, y (drawdown or recovery) and t (time) measurements are collected and [ln (y_o/y_t)]/t is calculated to determine the slope of the best-fitting line through the data points on semilog paper. Subsequently, the data points y_o and y_t can be taken from the semilog plot and inserted into the above equation.

ln R_e/r_w is determined by:

$$\ln R_e/r_w = \left[\frac{1.1}{\ln (H/r_w)} + \frac{C}{L/r_w}\right]^{-1} \tag{2}$$

C is a function of L/r_w and is determined from Bouwer and Rice (1989).

Inserting the slug test variables for MW-1 into equation (2) yields:

$$\ln R_e/r_w = \left[\frac{1.1}{\ln (206\ cm/10.5\ cm)} + \frac{1.7}{29.0\ cm}\right]^{-1} \tag{3}$$

$$\ln R_e/r_w = 2.335 \tag{4}$$

inserting the value for ln R_e/r_w into equation (1) yields:

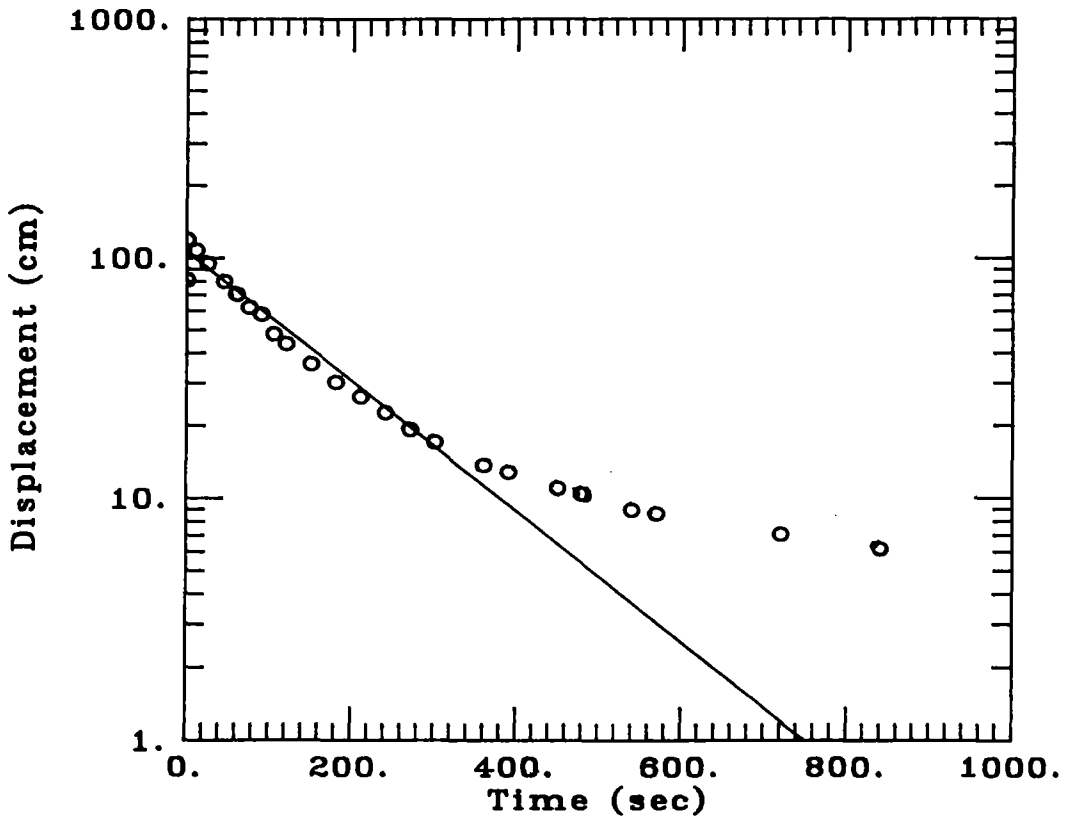
$$K = \frac{(2.54\ cm^2)\ (2.335)}{2\ (304.8\ cm)} \frac{1}{(3400\ sec)} \ln \frac{(20\ cm)}{(4\ cm)} \tag{5}$$

$$K = 1.17 \times 10^{-5} cm/sec \tag{6}$$

The value determined for K is similar to the value determined by AQTESOLV.

State of Missouri	Client: Division of Design and Constr.
Project No.: 2498.03.4120.05	Location: St. Louis, Missouri

MONITORING WELL MW-3 SLUG TEST DATA



DATA SET:
f:\kenny\24mw3.dat
08/29/95

AQUIFER TYPE:
confined

SOLUTION METHOD:
Bouwer-Rice

TEST DATE:
July 18, 1995

TEST WELL:
NA

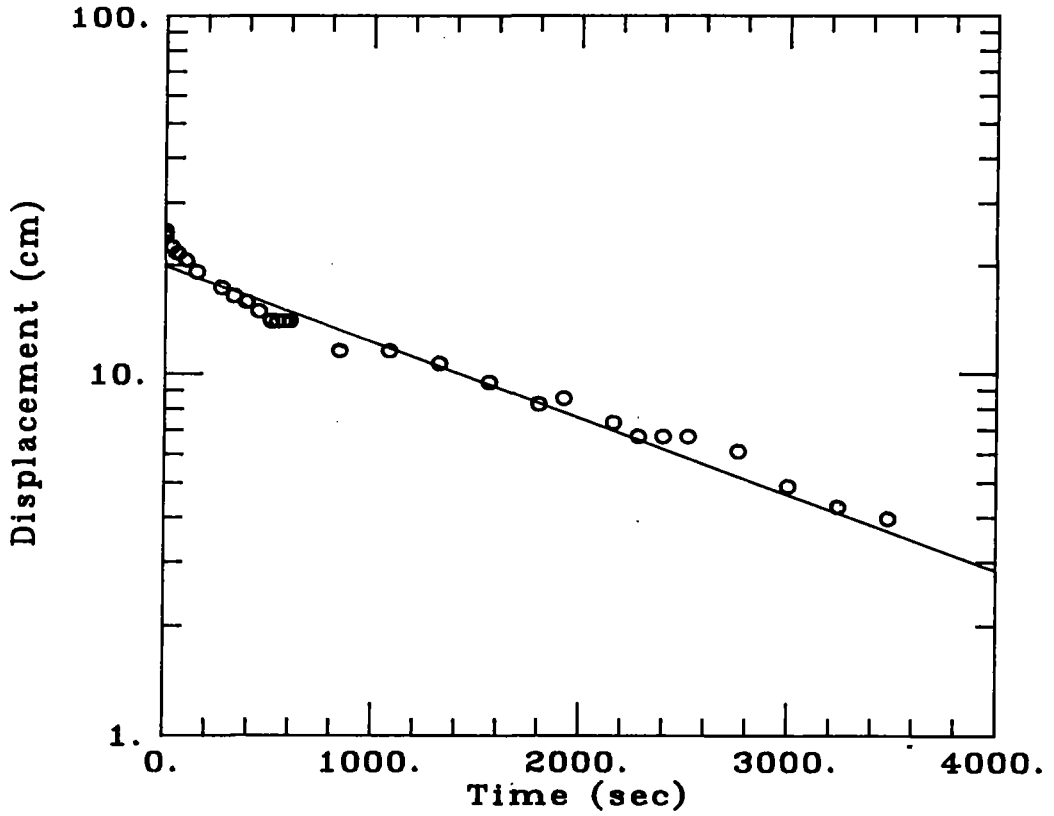
OBS. WELL:
NA

ESTIMATED PARAMETERS:
K = 0.0001995 cm/sec
y0 = 105.2 cm

TEST DATA:
H0 = 81. cm
rc = 2.54 cm
rw = 10.5 cm
L = 304.8 cm
b = 320. cm
H = 687. cm

State of Missouri	Client: Division of Design and Constr.
Project No.: 2498.03.4120.05	Location: St. Louis, Missouri

MONITORING WELL MW-1 SLUG TEST DATA



DATA SET:
F:\KENNY\24MW1.DAT
08/17/95

AQUIFER TYPE:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATE:
July 18, 1995

TEST WELL:
NA

OBS. WELL:
NA

ESTIMATED PARAMETERS:
K = 1.1795E-05 cm/sec
y0 = 19.93 cm

TEST DATA:
H0 = 25. cm
rc = 2.54 cm
rw = 10.5 cm
L = 304.8 cm
b = 206. cm
H = 206. cm

APPENDIX G

SUBSURFACE SOIL ANALYTICAL DATA REPORTS

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

July 24, 1995

Sam Brenneke
Geotechnology, Inc.
2258 Grissom Drive
ST. Louis, MO 63146

JUL 2 6 1995

Subject: Project Summary for the Hubert Wheeler State School Playground Site Restoration Samples SB1-2, SB1-7, SB1-13.5, SB1-18.5.

Dear Mr. Brenneke:

Please find the analytical reports for the reference project attached.

Date Received 07/06/95

Chain of Custody Form: 009332

Environmetrics Laboratory # 9507/033

Invoice # 32918

The summary of the project is as follows:

PROJECT IDENTIFICATION:

The following samples were received and analyzed:

Description	Lab #	Received	Analyses
SB1-2 14:10	9507-033-001	7/5/95	Total(8)Metals, Semi-Volatiles
SB1-7 15:00	9507-033-002	7/5/95	Total(8)Metals, Semi-Volatiles, Volatiles
SB1-7 15:00	9507-033-002	7/5/95	Total(8)Metals Matrix Spike/Matrix Spike Duplicate Semi-Volatiles Matrix Spike/ Matrix Spike Duplicate Volatiles Matrix Spike/ Matrix Spike Duplicate
SB1-13.5 15:20	9507-033-003	7/5/95	Total(8)Metals, Semi-Volatiles
SB1-18.5 15:40	9507-033-004	7/5/95	Total(8)Metals, Semi-Volatiles

Specific methods, extraction, preparation dates, and detection limits are noted on the individual reports attached.

ENVIR NMETRICS
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Maryland Heights, MO 63043-3529
(314) 427-0550

REANALYSES, DILUTIONS, ETC.

The analytical data reflects the result of the initial analysis without dilutions with the exception of :

Sample ID# SB1-7: Acetone had a positive hit out of the calibration range and a 1:5 Dilution was run.

QUALITY ASSURANCE SUMMARY:

All Quality Assurance parameters (temperature upon receipt, holding times, spike recoveries, etc.) were within method specifications. Please note that the Total(8)Metals are reported on a dry weight basis.

If you have any questions regarding this report please do not hesitate to call: (314) 427-0550. Thank you for your business.

Sincerely,

Karen J. Coons

Karen J. Coons

Project Manager

Attachments

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIR NMETRIC
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32918
PO # 10107
PROJECT # 2498.03.4120.05, HUBERT WHEELEER STATE SCHOOL

PREPARATION BLANK
ICP/AA
(UNITS = mg/l)

PREP. CODE: MP+252-34
PREP. DATE: 7/10/95

ELEMENT	BLANK RESULT
ARSENIC	<0.200
BARIUM	<0.040
CADMIUM	<0.005
CHROMIUM	<0.010
LEAD	<0.100
MERCURY	<0.0002
SELENIUM	<0.200
SILVER	<0.010

LABORATORY CONTROL SAMPLE
ICP/AA
(UNITS = mg/l)

PREP. CODE: MP-197-10
PREP. DATE: 9/01/94

ELEMENT	VALUE	RESULT	PERCENT RECOVERY
ARSENIC	2.00	1.88	94
BARIUM	2.00	1.88	93
CADMIUM	0.50	0.440	88
CHROMIUM	0.50	0.489	98
LEAD	0.50	0.490	98
MERCURY	0.002	0.00197	98
SELENIUM	2.00	1.93	96
SILVER	0.50	0.462	92

Geotechnology, Inc.
2258 Grissom Drive
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ATTN: Sam Brenneke

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE: 32918
PO: 10107
PROJECT NO: 2498.03.4120.0005, HUBERT WHEELER STATE SCHOOL

RECEIVED
AUG 10 1995
GEOTECHNOLOGY

ANALYSIS RESULTS

SAMPLE ID: SB1-2 14:10
LAB ID: 9507000033-001
DATE COLLECTED: 07/05/95
DATE RECEIVED: 07/06/95 09:43

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<11.8 mg/Kg	7/11/95 R.D.
TOTAL BARIUM	SW-846 6010A	188 mg/Kg	7/11/95 R.D.
TOTAL CADMIUM	SW-846 6010A	<0.296 mg/Kg	7/12/95 R.D.
TOTAL CHROMIUM	SW-846 6010A	9.26 mg/Kg	7/11/95 R.D.
TOTAL LEAD	SW-846 6010A	35.6 mg/Kg	7/11/95 R.D.
TOTAL MERCURY	SW-846 7471A	0.120 mg/Kg	7/12/95 D.S.
TOTAL SELENIUM	SW-846 6010A	<11.8 mg/Kg	7/11/95 R.D.
TOTAL SILVER	SW-846 6010A	<0.590 mg/Kg	7/11/95 R.D.

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INVOICE: 32918
PO: 10107
PROJECT NO: 2498.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB1-7 15:00 MS/MSD
LAB ID: 9507000033-002
DATE COLLECTED: 07/05/95
DATE RECEIVED: 07/06/95 09:45

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<11.7 mg/Kg	7/11/95 R.D.
TOTAL BARIUM	SW-846 6010A	155 mg/Kg	7/11/95 R.D.
TOTAL CADMIUM	SW-846 6010A	<0.293 mg/Kg	7/12/95 R.D.
TOTAL CHROMIUM	SW-846 6010A	6.04 mg/Kg	7/11/95 R.D.
TOTAL LEAD	SW-846 6010A	97.3 mg/Kg	7/11/95 R.D.
TOTAL MERCURY	SW-846 7471A	<0.1 mg/Kg	7/14/95 D.S.
TOTAL SELENIUM	SW-846 6010A	<11.7 mg/Kg	7/11/95 R.D.
TOTAL SILVER	SW-846 6010A	<0.586 mg/Kg	7/11/95 R.D.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32918
PO # 10107
PROJECT # 2498.03.4120.05, HUBERT WHEELEER STATE SCHOOL

QUALITY ASSURANCE QUALITY CONTROL REPORT

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
ICP/AA WATER

SAMPLE ID: SB1-7 MS/MSD
LAB ID: 9507/033-002

ELEMENT	SAMPLE RESULT (mg/l)	SPIKE LEVEL (mg/l)	SPIKE RESULT (mg/l)	% REC.	DUPLICATE RESULT (mg/l)	% REC.	RPD
ARSENIC	<11.7	467	401	86	398	85	1
BARIUM	155	467	524	79	538	82	3
CADMIUM	<0.293	12	9.33	78	9.44	79	1
CHROMIUM	6.04	47	46.8	87	46.8	87	0
LEAD	97.3	117	166	59	174	66	7
MERCURY	<0.1	1.17	1.18	101	1.24	106	5
SELENIUM	<11.7	467	411	88	417	89	1
SILVER	<0.586	12	9.57	80	9.44	79	1

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INVOICE: 32918
PO: 10107
PROJECT NO: 2498.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB1-13.5 15:20
LAB ID: 9507000033-003
DATE COLLECTED: 07/05/95
DATE RECEIVED: 07/06/95 09:47

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	17.5 mg/Kg B	7/11/95 R.D.
TOTAL BARIUM	SW-846 6010A	159 mg/Kg	7/11/95 R.D.
TOTAL CADMIUM	SW-846 6010A	<0.315 mg/Kg	7/12/95 R.D.
TOTAL CHROMIUM	SW-846 6010A	14.3 mg/Kg	7/11/95 R.D.
TOTAL LEAD	SW-846 6010A	9.50 mg/Kg	7/11/95 R.D.
TOTAL MERCURY	SW-846 7471A	<0.13 mg/Kg	7/14/95 D.S.
TOTAL SELENIUM	SW-846 6010A	<12.6 mg/Kg	7/11/95 R.D.
TOTAL SILVER	SW-846 6010A	<6.30 mg/Kg	7/11/95 R.D.

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

TN: Sam Brenneke

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2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE: 32918
PO: 10107
PROJECT NO: 2498.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB1-18.5 15:40
LAB ID: 9507000033-004
DATE COLLECTED: 07/05/95
DATE RECEIVED: 07/06/95 09:47

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.2 mg/Kg	7/11/95 R.D.
TOTAL BARIUM	SW-846 6010A	101 mg/Kg	7/11/95 R.D.
TOTAL CADMIUM	SW-846 6010A	<0.305 mg/Kg	7/12/95 R.D.
TOTAL CHROMIUM	SW-846 6010A	14.6 mg/Kg	7/11/95 R.D.
TOTAL LEAD	SW-846 6010A	8.41 mg/Kg	7/11/95 R.D.
TOTAL MERCURY	SW-846 7471A	<0.11 mg/Kg	7/14/95 R.D.
TOTAL SELENIUM	SW-846 6010A	<12.2 mg/Kg	7/11/95 R.D.
TOTAL SILVER	SW-846 6010A	<0.610 mg/Kg	7/11/95 R.D.

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
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ATTN: SAM BRENNEKE

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32918
PO # 10107
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

SAMPLE ID: METHOD BLANK
LAB ID: VDBLK192A

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/12/95
ANALYST : L.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32918
PO # 10107
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: VDBLK193A

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/12/95
ANALYST : L.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32918
PO # 10107
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB1-7
LAB ID: 9507/033-002

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	5.9
67-64-1	Acetone	500	670
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	140
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/05/95 15:00
DATE RECEIVED : 7/06/95 9:47
DATE ANALYZED : 7/12/95
ANALYST : L.C.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32918
PO # 10107
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

SAMPLE ID: SB1-7
LAB ID: 9507/033-002

COMPOUND	SPIKE ADDED (µg/kg)	SAMPLE CONC. (µg/kg)	MS CONC. (µg/kg)	MS % REC	#	QC LIMITS REC.
1,1-Dichloroethene	50	U	28	56	*	59-172
Trichloroethene	50	U	38	76		62-137
Benzene	50	U	47	94		60-133
Toluene	50	U	48	96		59-139
Chlorobenzene	50	U	49	98		66-142

COMPOUND	SPIKE ADDED (µg/kg)	MSD CONC. (µg/kg)	MSD % REC #	% RPD	#	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	50	30	60	4		22	59-172
Trichloroethene	50	43	86	10		24	62-137
Benzene	50	53	106	12		21	60-133
Toluene	50	52	104	8		21	59-139
Chlorobenzene	50	62	124	23	*	21	66-142

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 2 out of 5 outside limits

Spike Recovery: 1 out of 10 outside limits

GEOTECHNOLOGY, INC.
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ATTN: SAM BRENNEKE

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(314) 427-0550

INVOICE # 32918
PO # 10107
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANIC SURROGATE RECOVERY FORM

LAB_ID	SAMPLE_IDENTIFICATION	S1 1,2-DCA-d4	S2 TOL-d8	S3 BFB
VDLBK192A	METHOD BLANK	108	101	93
VDLBK193A	METHOD BLANK	109	105	96
VDLBK192A	LCS	108	100	98
VDLBK193A	LCS	110	104	94
9507/033-1	SB1-2	128	106	93
9507/033-1	SB1-2 (DILUTION)	108	105	105

S1 - 1,2-DICHORORETHANE-d4

S2 - TOLUENE-d8

S3 - BROMOFLUOROBENZENE

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

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2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32918
PO # 10107
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

VOLATILE LABORATORY CONTROL SPIKE

SAMPLE ID: LCS
LAB ID: VDLCS192A

COMPOUND	CONC.	SPIKE	PERCENT RECOVERY
1,1-Dichloroethene	54	50	108
Trichloroethene	50	50	100
Benzene	50	50	100
Toluene	48	50	96
Chlorobenzene	50	50	100

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

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2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32918
PO # 10107
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

VOLATILE LABORATORY CONTROL SPIKE

SAMPLE ID: LCS
LAB ID: VDLCS193A

COMPOUND	CONC.	SPIKE	PERCENT RECOVERY
1,1-Dichloroethene	55	50	110
Trichloroethene	51	50	102
Benzene	49	50	98
Toluene	49	50	98
Chlorobenzene	50	50	100

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32918 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10107 METHOD SW-846 8270
PROJECT # 2498.03.4120.05 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6524

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	330 µg/kg	U µg/kg
108-95-2	Phenol	330	U
111-44-4	bis(2-chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	o-Cresol	330	U
39638-32-9	bis-(2-Chloro2propyl)Ether	330	U
106-44-5	m & p-Cresol	330	U
621-64-7	N-Nitroso-Di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	1,700	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1,700	U
131-11-3	Dimethylphthalate	330	U
103-33-3	Azobenzene	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1,700	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1,700	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32918 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10107 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6524

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,700 µg/kg	U µg/kg
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenol phenyl ether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1,700	U
534-52-1	4,6-Dinitro-2-methylphenol	1,700	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1,700	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
92-87-4	Benzidine	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE EXTRACTED : 7/11/95
DATE ANALYZED : 7/13/95
ANALYST : D.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

EN IR NMETRIC
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INVOICE # 32918 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10107 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB1-2
LAB ID: 9507/033-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	390 µg/kg	U µg/kg
108-95-2	Phenol	390	U
111-44-4	bis(2-chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl Alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	o-Cresol	390	U
39638-32-9	bis-(2-Chloro2propyl)Ether	390	U
106-44-5	m & p-Cresol	390	U
621-64-7	N-Nitroso-Di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic Acid	1,900	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	1,900	U
131-11-3	Dimethylphthalate	390	U
103-33-3	Azobenzene	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	1,900	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	1,900	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
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INVOICE # 32918 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10107 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB1-2
LAB ID: 9507/033-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,900 µg/kg	U µg/kg
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenol phenyl ether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	1,900	U
534-52-1	4,6-Dinitro-2-methylphenol	1,900	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	1,900	U
85-01-8	Phenanthrene	390	1,500
120-12-7	Anthracene	390	390
84-74-2	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	2,500
92-87-4	Benzidine	390	U
129-00-0	Pyrene	390	1,700
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	920
218-01-9	Chrysene	390	1,000
117-81-7	bis(2-Ethylhexyl)phthalate	390	430
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	1,100
207-08-9	Benzo(k)fluoranthene	390	810
50-32-8	Benzo(a)pyrene	390	860
193-39-5	Indeno(1,2,3-cd)pyrene	390	430
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	520

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/05/95 14:10
DATE RECEIVED : 7/06/95 9:47
DATE EXTRACTED : 7/11/95
DATE ANALYZED : 7/18/95
ANALYST : D.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

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INVOICE # 32918 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10107 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB1-7
LAB ID: 9507/033-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	390 µg/kg	U µg/kg
108-95-2	Phenol	390	U
111-44-4	bis(2-chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl Alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	o-Cresol	390	U
39638-32-9	bis-(2-Chloro2propyl)Ether	390	U
106-44-5	m & p-Cresol	390	U
621-64-7	N-Nitroso-Di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic Acid	1,900	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	1,900	U
131-11-3	Dimethylphthalate	390	U
103-33-3	Azobenzene	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	1,900	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	1,900	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

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INVOICE # 32918 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10107 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB1-7
LAB ID: 9507/033-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,900 µg/kg	U µg/kg
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenol phenyl ether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	1,900	U
534-52-1	4,6-Dinitro-2-methylphenol	1,900	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	1,900	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
84-74-2	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
92-87-4	Benzidine	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/05/95 15:00
DATE RECEIVED : 7/06/95 9:47
DATE EXTRACTED : 7/11/95
DATE ANALYZED : 7/18/95
ANALYST : D.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

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INVOICE # 32918 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10107 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB1-13.5
LAB ID: 9507/033-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	420 µg/kg	U µg/kg
108-95-2	Phenol	420	U
111-44-4	bis(2-chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	o-Cresol	420	U
39638-32-9	bis-(2-Chloro2propyl)Ether	420	U
106-44-5	m & p-Cresol	420	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	420	U
103-33-3	Azobenzene	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2,100	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

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(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32918 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10107 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB1-13.5
LAB ID: 9507/033-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenol phenyl ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
84-74-2	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
92-87-4	Benzidine	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/05/95 15:20
DATE RECEIVED : 7/06/95 9:47
DATE EXTRACTED : 7/11/95
DATE ANALYZED : 7/13/95
ANALYST : D.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

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INVOICE # 32918 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10107 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB1-18.5
LAB ID: 9507/033-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	2,000	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

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2345 Millpark Drive
Maryland Heights, MO 63043-3529
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INVOICE # 32918 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10107 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB1-18.5
LAB ID: 9507/033-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
84-74-2	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	500
206-44-0	Fluoranthene	410	U
92-87-4	Benzidine	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/05/95 15:40
DATE RECEIVED : 7/06/95 9:47
DATE EXTRACTED : 7/11/95
DATE ANALYZED : 7/13/95
ANALYST : D.C.

11B
SEMIVOLATILE ORGANICS LAB CONTROL SAMPLE

EPA SAMPLE NO.

SPIKE BLANK

Lab Name: Environmetrics Contract: GEOTECH.

Lab Code: 8270 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: SASLCS6524

Sample wt/vol: 30 (g/ml) g Lab File ID: >A7551

Level: (low/med) LOW Date Received: 07/05/95

% Moisture: NA decanted: (Y/N) N Date Extracted: 07/11/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/13/95

Injection Volume: 1.0 (uL) Dilution Factor: 33.3

GPC Cleanup: (Y/N) N pH: NA

COMPOUND	Conc.	Spike	Recovery
Phenol	5400	6700	82
2-Chlorophenol	4400	6700	66
1,4-Dichlorobenzene	2700	3300	81
N-Nitroso-Di-nPropylamine	4000	3300	120
1,2,4-Trichlorobenzene	3100	3300	94
4-Chloro-3-Methylphenol	6900	6700	103
Acenaphthene	3000	3300	90
4-Nitrophenol	7500	6700	113
2,4-Dinitrotoluene	3000	3300	90
Pentachlorophenol	5300	6700	80
Pyrene	3400	3300	101

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SB1-7

ab Name: Environmetrics Contract: GEOTECH.

ab code: Case No.: DRY SAS No.: SDG No.:

ab File ID: >A7550 Lab Sample ID: SASBLK6524

nstrument ID: HP5970 Date Extracted: 07/11/95

atrix: (soil/water) SOIL Date Analyzed: 07/13/95

evel: (low/med) LOW Time Analyzed: 09:28

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	SASLCS6524	SASLCS6524	>A7551	07/13/95
2	9507033-1	9507033-1	>A7650	07/18/95
3	9507033-2	9507033-2	>A7554	07/13/95
4	9507033-2M	9507033-2MS	>A7555	07/13/95
5	9507033-2M	9507033-2MSD	>A7556	07/13/95
6	9507033-3	9507033-3	>A7552	07/13/95
7	9507033-4	9507033-4	>A7553	07/13/95
9				
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COMMENTS: _____

page ___ of ___.

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Environmetrics Contract: GEOTECH.

Lab code: Case No.: DRY SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: 9507033-2 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	7800	0	5500	71	26- 90
2-Chlorophenol	7800	0	4400	57	25-102
1,4-Dichlorobenzene	3900	0	2400	62	28-104
N-Nitroso-Di-nPropylami	3900	0	3700	96	41-126
1,2,4-Trichlorobenzene	3900	0	3100	80	38-107
4-Chloro-3-Methylphenol	7800	0	7600	98	26-103
Acenaphthene	3900	0	3300	85	31-137
4-Nitrophenol	7800	0	8700	112	11-114
2,4-Dinitrotoluene	3900	0	3300	86	28- 89
Pentachlorophenol	7800	0	6900	89	17-109
Pyrene	3900	0	3700	96	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	7800	6000	78	10	35	26- 90
2-Chlorophenol	7800	5000	64	12	50	25-102
1,4-Dichlorobenzene	3900	2700	69	11	27	28-104
N-Nitroso-Di-nPropylami	3900	4800	123	24	38	41-126
1,2,4-Trichlorobenzene	3900	3600	93	14	23	38-107
4-Chloro-3-Methylphenol	7800	7400	96	2	33	26-103
Acenaphthene	3900	3400	88	4	19	31-137
4-Nitrophenol	7800	8100	104	8	50	11-114
2,4-Dinitrotoluene	3900	3400	88	2	47	28- 89
Pentachlorophenol	7800	7100	91	3	47	17-109
Pyrene	3900	3600	92	4	36	35-142

column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

2D

SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Environmetrics Contract: GEOTECH.

Lab code: Case No.: DRY SAS No.: SDG No.:

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (DCB)#	S3 (FBP)#	S4 (TPH)#	S5 (PHL)#	S6 (2CP)#	S7 (2FP)#	S8 (TBP)#	TOT OUT
01	SASBLK6524	66	39	66	87	73	70	66	54	0
02	SASLCS6524	76	52	66	89	51	68	73	55	0
03	9507033-1	91	49	73	93	86	81	78	95	0
04	9507033-2	66	42	62	81	71	68	63	60	0
05	9507033-2MS	64	42	60	80	59	57	59	36	0
06	9507033-2MSD	76	50	64	79	48	68	72	61	0
07	9507033-3	77	40	67	88	78	76	73	60	0
08	9507033-4	75	25	61	75	67	64	68	61	0
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)
S3 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S4 (TPH)	= Terphenyl-d14	(18-137)	
S5 (PHL)	= Phenol-d5	(24-113)	
S6 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S7 (2FP)	= 2-Fluorophenol	(25-121)	
S8 (TBP)	= 2,4,6-Tribromophenol	(19-122)	

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

GEOTECHNOLOGY, INC.
ENGINEERING & ENVIRONMENTAL SERVICES
ST. LOUIS KANSAS CITY INDIANAPOLIS

CHAIN OF CUSTODY RECORD

COC Record # 2196 P.O. # 10107

Project No. 2498.03.4120.05

Project Name: Hubert Wheeler State School

Shipper Name: Geotechnology, Inc

Address: 2258 Grissom Drive St Louis MO 63146

Sampler's Signature: [signature] Telephone # 997-7440

Contact: Sam Brennecke Telephone # 997-7440

Collectors Sample #	Date	Time	Sample Type	No. of Containers	Analysis	Remarks
SB1-2	7/5/95	1410	Soil	2-8oz	Semi volatiles, Total Metals	Normal T.A.
SB1-7	↓	1500	↓	2-8oz 1-2oz	Semi Volatiles, Volatiles Total Metals	↓
SB1-13.5	↓	1520	↓	2-8oz	Semi Volatiles, Total Metals	↓
SB1-18.5	↓	1540	↓	↓	↓	↓

Receiver Name: Environmetrics, Inc St Louis MO
(Company Name and Address)

Chain of Possession:

From: [signature] 7/5/95 1715 To: P Woods 7/5/95 1715
(Name and Date/Time) (Name and Date/Time)

From: To:

White copy to Laboratory • Yellow copy to COC File • Pink copy to Job File

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 009332
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Brenneke

Date Received: 07/05/95
Date Logged: 07/06/95
Status: Normal/LEVEL 4
Hubert Wheeler State School

Date Due (PM): 07/18/95 Proj #: 2493.03.4120.0005
Date Due (Client): 07/20/95 P.O. #: 10107
Mode: Mail Quot #:

e Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests
9507000033-001-01	SB1-2	SOIL	2-250 ml GLASS	Cold	07/05/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
MS/MSD 9507000033-002-01	SB1-7	SOIL	2-250 ml GLASS	Cold	07/05/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
QC DAILY FOR THIS PROJECT 9507000033-002-02	SB1-7	SOIL	1-2 OZ VOA	Cold	07/05/95		VOLATILE ORGANICS by GC/MS-SW-846 8240
	Sample Instructions:						
9507000033-003-01	SB1-13.5	SOIL	2-250 ml GLASS	Cold	07/05/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9507000033-004-01	SB1-18.5	SOIL	2-250 ml GLASS	Cold	07/05/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 009332
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 07/05/95
Date Logged: 07/06/95
Status: Normal/LEVEL 4
Hubert Wheeler State School

Date Due (PM): 07/18/95 Proj #: 2493.03.4120.0005
Date Due (Client): 07/20/95 P.O. #: 10107
Mode: Mail Quot #:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests

Items Transferred	Relinquished By	Date		Logged In By	Date	Time
5		07/05/95	PM Signature : Karen Coons Client Services Rep. Karen Coons KCn	Phyllis Woods Login Coordinator	07/06/95	09:47:34

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 009332
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 07/05/95
Date Logged: 07/06/95
Status: Normal/LEVEL 4
Hubert Wheeler State School

Date Due (PM): 07/18/95 Proj #: 2498.03.4120.0005
Date Due (Client): 07/20/95 P.O. #: 10107
Mode: Mail Quot #:

Items Transferred	Relinquished By	Date	Time	Received By	Date	Time	Reason For Transfer
1	P Woods	7/6/95	12:19	[illegible]	7/6/95	12:19	VOA
	P Woods	7/6/95	1:03	[illegible]	7-6-95	1:03	B/N A
1-4	P Woods	7-10	850	[illegible]	7-10	850	Metals
1	[illegible]	7/12/95	1535	[illegible]	7-12	1535	Return
	[illegible]	7-18	822	[illegible]	7-18	822	Return

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

July 27, 1995

RECEIVED
AUG - 1 1995
GEOTECHNOLOGY

Sam Brenneke
Geotechnology, Inc.
2258 Grissom Drive
ST. Louis, MO 63146

Subject: Project Summary for the Hubert Wheeler State School Playground Site Restoration
Samples SB8-3, SB8-16, SB8-20, SB9-3, SB9-7, SB9-15, SB9-20.

Dear Mr. Brenneke:

Please find the analytical reports for the reference project attached.

Date Received 7/10/95

Chain of Custody Number: 009354

Environmetrics Laboratory Number: 9507/100

Invoice # 32975

The summary of the project is as follows:

PROJECT IDENTIFICATION:

The following samples were received and analyzed:

Description	Lab #	Received	Analyses
SB8-3 09:40	9507-100-001	7/10/95	Total(8)Metals, Semi-Volatiles
SB8-16 10:00	9507-100-002	7/10/95	Total(8)Metals, Semi-Volatiles, Volatiles
SB8-16 10:00	9507-100-002	7/10/95	Total(8)Metals Matrix Spike / Matrix Spike Duplicate Semi-Volatiles Matrix Spike/ Matrix Spike Duplicate Volatiles Matrix Spike/ Matrix Spike Duplicate
SB8-20 10:10	9507-100-003	7/10/95	Total(8)Metals, Semi- Volatiles
SB9-3 11:40	9507-100-004	7/10/95	Total(8)Metals, Semi- Volatiles

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Maryland Heights, MO 63043-3529
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SB9-7 11:50	9507-100-005	7/10/95	Total(8)Metals, Semi-Volatiles, Volatiles
SB9-15 11:55	9507-100-006	7/10/95	Total(8)Metals, Semi-Volatiles
SB9-20 12:00	9507-100-007	7/10/95	Total(8)Metals, Semi-Volatiles

Specific methods, extraction, preparation dates, and detection limits are noted on the individual reports attached.

REANALYSES, DILUTIONS, ETC.

The analytical data reflects the original analysis without dilutions or reanalyses, with the exception of:

In accordance with SW-846 8240 sample ID# SB9-7 was reanalyzed because of low surrogate recoveries.

QUALITY ASSURANCE SUMMARY:

All Quality Assurance parameters (temperature upon receipt, holding times, spike recoveries, etc.) were within method specifications. Please note that the Total Pb results are reported on a dry weight basis.

If you have any questions regarding this report please do not hesitate to call: (314) 427-0550. Thank you for your business.

Sincerely,

Karen J. Coons

Project Manager

Attachments

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

ATTN: Sam Brenneke

V M T CS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE: 32975
PO: 10110
PROJECT NO: 2498.03.4120.05 HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB8-3 9:40
LAB ID: 9507000100-001
DATE COLLECTED: 07/10/95
DATE RECEIVED: 07/10/95 18:21

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<10.8 mg/Kg	
TOTAL BARIUM	SW-846 6010A	16.2 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	<0.271 mg/Kg	7/18/95 R.D.
TOTAL CHROMIUM	SW-846 6010A	6.55 mg/Kg	
TOTAL LEAD	SW-846 6010A	45.1 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.11 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<10.8 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.542 mg/Kg	

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

...TN: Sam Brenneke

INVOICE: 32975
PO: 10110
PROJECT NO: 2498.03.4120.05 HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB8-16 10:00 MS / MSD
LAB ID: 9507000100-002
DATE COLLECTED: 07/10/95
DATE RECEIVED: 07/10/95 18:22

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.4 mg/Kg	7/18/95 R.D.
TOTAL BARIUM	SW-846 6010A	102 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	0.805 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	13.6 mg/Kg	
TOTAL LEAD	SW-846 6010A	8.85 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.12 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.4 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.619 mg/Kg	

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32975
PO # 10110 .
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

QUALITY ASSURANCE QUALITY CONTROL REPORT

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
ICP/AA WATER

SAMPLE ID: SB8-16
LAB ID: 9507/100-002

ELEMENT	SAMPLE RESULT (mg/l)	SPIKE LEVEL (mg/l)	SPIKE RESULT (mg/l)	% REC.	DUPLICATE RESULT (mg/l)	% REC.	RPD
ARSENIC	<12.4	495	423	85	425	86	1
BARIUM	102	495	535	87	530	86	1
CADMIUM	0.805	12	11.8	92	11.9	92	0
CHROMIUM	13.6	50	57.2	87	56.3	85	2
LEAD	8.85	124	110	82	109	81	1
MERCURY	<0.12	1.24	1.20	97	1.29	104	7
SELENIUM	<12.4	495	421	85	415	84	1
SILVER	<0.619	12	10.6	88	10.9	91	3

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

...TN: Sam Brenneke

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE: 32975
PO: 10110
PROJECT NO: 2498.03.4120.05 HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB8-20 10:10
LAB ID: 9507000100-003
DATE COLLECTED: 07/10/95
DATE RECEIVED: 07/10/95 18:22

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.5 mg/Kg	7/18/95 R.D.
TOTAL BARIUM	SW-846 6010A	92.9 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.56 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	19.0 mg/Kg	
TOTAL LEAD	SW-846 6010A	11.0 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.11 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.5 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.623 mg/Kg	

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

..ATTN: Sam Brenneke

V M T CS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE: 32975
PO: 10110
PROJECT NO: 2498.03.4120.05 HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB9-3 11:40
LAB ID: 9507000100-004
DATE COLLECTED: 07/10/95
DATE RECEIVED: 07/10/95 18:23

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.5 mg/Kg	7/18/95 R.D.
TOTAL BARIUM	SW-846 6010A	138 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.32 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	8.59 mg/Kg	
TOTAL LEAD	SW-846 6010A	126 mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.200 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.5 mg/Kg	
TOTAL SILVER	SW-846 6010A	0.6270 mg/Kg	

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

...TN: Sam Brenneke

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE: 32975
PO: 10110
PROJECT NO: 2498.03.4120.05 HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB9-7 11:50
LAB ID: 9507000100-005
DATE COLLECTED: 07/10/95
DATE RECEIVED: 07/10/95 18:23

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	14.1 mg/Kg B	7/18/95 R.D.
TOTAL BARIUM	SW-846 6010A	331 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	3.87 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	15.4 mg/Kg	
TOTAL LEAD	SW-846 6010A	5,860 mg/Kg	
TOTAL MERCURY	SW-846 7471A	2.51 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.5 mg/Kg	
TOTAL SILVER	SW-846 6010A	0.8740 mg/Kg	

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

...TN: Sam Brenneke

EN IR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE: 32975
PO: 10110
PROJECT NO: 2498.03.4120.05 HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB9-15 11:55
LAB ID: 9507000100-006
DATE COLLECTED: 07/10/95
DATE RECEIVED: 07/10/95 18:24

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.6 mg/Kg	7/18/95 R.D.
TOTAL BARIUM	SW-846 6010A	175 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	0.757 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	13.5 mg/Kg	
TOTAL LEAD	SW-846 6010A	12.1 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.11 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.6 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.631 mg/Kg	

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

...ATTN: Sam Brenneke

EN IR NMETRICS
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(314) 427-0550

INVOICE: 32975
PO: 10110
PROJECT NO: 2498.03.4120.05 HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB9-20 12:00
LAB ID: 9507000100-007
DATE COLLECTED: 07/10/95
DATE RECEIVED: 07/10/95 18:24

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.2 mg/Kg	
TOTAL BARIUM	SW-846 6010A	65.4 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	0.549 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	15.3 mg/Kg	
TOTAL LEAD	SW-846 6010A	9.90 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.11 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.2 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.610 mg/Kg	

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

ENVIR NMETRICS
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(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975
PO # 10110
PROJECT # 2498.034120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: VDBLK193A

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	5.6B
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/12/95
ANALYST : L.C.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975
PO # 10110
PROJECT # 2498.034120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB8-16
LAB ID: 9507/100-002

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/10/95 10:00
DATE RECEIVED : 7/10/95 18:24
DATE ANALYZED : 7/12/95
ANALYST : L.C.

ENVIRON__ETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975
PO # 10110
PROJECT # 2498.034120.05, HUBERT WHEELER STATE SCHOOL

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

SAMPLE ID: SB8-16
LAB ID: 9507/100-002

COMPOUND	SPIKE ADDED (µg/kg)	SAMPLE CONC. (µg/kg)	MS CONC. (µg/kg)	MS % REC	#	QC LIMITS REC.
1,1-Dichloroethene	50	U	27	54	*	59-172
Trichloroethene	50	U	40	80		62-137
Benzene	50	U	40	80		60-133
Toluene	50	U	46	92		59-139
Chlorobenzene	50	U	44	88		66-142

COMPOUND	SPIKE ADDED (µg/kg)	MSD CONC. (µg/kg)	MSD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	50	27	54	*	0		22	59-172
Trichloroethene	50	46	92		12		24	62-137
Benzene	50	45	90		10		21	60-133
Toluene	50	54	108		16		21	59-139
Chlorobenzene	50	53	106		18		21	66-142

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 2 out of 10 outside limits

ENVIRONMETRICS
2345 Millpark Drive
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975
PO # 10110
PROJECT # 2498.034120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB9-7
LAB ID: 9507/100-005

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	24B
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/10/95 11:50
DATE RECEIVED : 7/10/95 18:24
DATE ANALYZED : 7/12/95
ANALYST : L.C.

E V RO _ _ETR CS
2345 Millpark Drive
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(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975
PO # 10110 .
PROJECT # 2498.034120.05, HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANIC SURROGATE RECOVERY FORM

LAB_ID	SAMPLE_IDENTIFICATION	S1 1,2-DCA-d4	S2 TOL-d8	S3 BFB
VDBLK193A	METHOD BLANK	109	105	96
9507/100-002	SB8-16	104	112	105
9507/100-005	SB9-7	180	100	77

S1 - 1,2-DICHORORETHANE-d4

S2 - TOLUENE-d8

S3 - BROMOFLUOROBENZENE

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ATTN: SAM BRENNEKE

INVOICE # 32975
PO # 10110
PROJECT # 2498.034120.05, HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANICS LAB CONTROL SPIKE

COMPOUND	CONC	SPIKE	PERCENT RECOVERY
1,1-Dichloroethene	55	50	110
Trichloroethene	51	50	102
Benzene	49	50	98
Toluene	49	50	98
Chlorobenzene	50	50	100

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GEOTECHNOLOGY, INC.
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ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10110 . **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6530

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	330 µg/kg	U µg/kg
108-95-2	Phenol	330	U
111-44-4	bis(2-chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	o-Cresol	330	U
39638-32-9	bis-(2-Chloro2propyl)Ether	330	U
106-44-5	m & p-Cresol	330	U
621-64-7	N-Nitroso-Di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	1,700	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1,700	U
131-11-3	Dimethylphthalate	330	U
103-33-3	Azobenzene	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1,700	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1,700	U

ENVIRONMETRICS
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10110 . **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6530

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,700 µg/kg	U µg/kg
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenol phenyl ether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1,700	U
534-52-1	4,6-Dinitro-2-methylphenol	1,700	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1,700	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
92-87-4	Benzidine	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/18/95
ANALYST : D.C.

E V RO _ _ETR CS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10110 . **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB8-3
LAB ID: 9507/100-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	360 µg/kg	U µg/kg
108-95-2	Phenol	360	U
111-44-4	bis(2-chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
100-51-6	Benzyl Alcohol	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	o-Cresol	360	U
39638-32-9	bis-(2-Chloro2propyl)Ether	360	U
106-44-5	m & p-Cresol	360	U
621-64-7	N-Nitroso-Di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic Acid	1,800	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	360	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	1,800	U
131-11-3	Dimethylphthalate	360	U
103-33-3	Azobenzene	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	1,800	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	1,800	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10110 . **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB8-3
LAB ID: 9507/100-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,800 µg/kg	U µg/kg
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenol phenyl ether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	1,800	U
534-52-1	4,6-Dinitro-2-methylphenol	1,800	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl phenyl ether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	1,800	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
84-74-2	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
92-87-4	Benzidine	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/10/95 09:40
DATE RECEIVED : 7/10/95 18:24
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/20/95
ANALYST : D.C.

ENVIRON__ETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10110 . **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB8-16
LAB ID: 9507/100-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	2,100	U

ENVIRONMETRICS
2345 Millpark Drive
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10110 . **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB8-16
LAB ID: 9507/100-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
84-74-2	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
92-87-4	Benzidine	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/10/95 10:00
DATE RECEIVED : 7/10/95 18:24
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/18/95
ANALYST : D.C.

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE

NVI O M T CS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

Lab Name: Environmetrics Contract: GEOTECH.

Lab code: Case No.: DRY SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: 9507100-2 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	8200	0	7000	85	26- 90
2-Chlorophenol	8200	0	5800	70	25-102
1,4-Dichlorobenzene	4100	0	1400	33	28-104
N-Nitroso-Di-nPropylami	4100	0	5100	123	41-126
1,2,4-Trichlorobenzene	4100	0	2700	65	38-107
4-Chloro-3-Methylphenol	8200	0	7900	96	26-103
Acenaphthene	4100	0	3500	84	31-137
4-Nitrophenol	8200	0	10500	127 *	11-114
2,4-Dinitrotoluene	4100	0	3500	85	28- 89
Pentachlorophenol	8200	0	7300	89	17-109
Pyrene	4100	0	4200	103	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	8200	6300	77	11	35	26- 90
2-Chlorophenol	8200	5300	65	8	50	25-102
1,4-Dichlorobenzene	4100	1500	36	9	27	28-104
N-Nitroso-Di-nPropylami	4100	4500	108	13	38	41-126
1,2,4-Trichlorobenzene	4100	2700	65	0	23	38-107
4-Chloro-3-Methylphenol	8200	7300	89	7	33	26-103
Acenaphthene	4100	3400	81	3	19	31-137
4-Nitrophenol	8200	9600	116 *	9	50	11-114
2,4-Dinitrotoluene	4100	3400	82	4	47	28- 89
Pentachlorophenol	8200	5300	65	32	47	17-109
Pyrene	4100	4100	99	4	36	35-142

column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits

Spike Recovery: 2 out of 22 outside limits

COMMENTS: _____

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10110 . **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB8-20
LAB ID: 9507/100-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	420 µg/kg	U µg/kg
108-95-2	Phenol	420	U
111-44-4	bis(2-chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	o-Cresol	420	U
39638-32-9	bis-(2-Chloro2propyl)Ether	420	U
106-44-5	m & p-Cresol	420	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	420	U
103-33-3	Azobenzene	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2,100	U

ENVIRONMETRICS
2345 Millpark Drive
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10110 . **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB8-20
LAB ID: 9507/100-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenol phenyl ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
84-74-2	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
92-87-4	Benzidine	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/10/95 10:10
DATE RECEIVED : 7/10/95 18:24
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/20/95
ANALYST : D.C.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10110 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB9-3
LAB ID: 9507/100-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	420 µg/kg	U µg/kg
108-95-2	Phenol	420	U
111-44-4	bis(2-chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	o-Cresol	420	U
39638-32-9	bis-(2-Chloro2propyl)Ether	420	U
106-44-5	m & p-Cresol	420	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	420	U
103-33-3	Azobenzene	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2,100	U

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10110 . METHOD SW-846 8270
PROJECT # 2498.03.4120.05 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB9-3
LAB ID: 9507/100-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenol phenyl ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
84-74-2	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
92-87-4	Benzidine	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/10/95 11:40
DATE RECEIVED : 7/10/95 18:24
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/20/95
ANALYST : D.C.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10110 METHOD SW-846 8270
PROJECT # 2498.03.4120.05 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB9-7
LAB ID: 9507/100-005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	440 µg/kg	U µg/kg
108-95-2	Phenol	440	U
111-44-4	bis(2-chloroethyl)Ether	440	U
95-57-8	2-Chlorophenol	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
100-51-6	Benzyl Alcohol	440	U
95-50-1	1,2-Dichlorobenzene	440	U
95-48-7	o-Cresol	440	U
39638-32-9	bis-(2-Chloro2propyl)Ether	440	U
106-44-5	m & p-Cresol	440	U
621-64-7	N-Nitroso-Di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
65-85-0	Benzoic Acid	2,200	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
120-82-1	1,2,4-Trichlorobenzene	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	440	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	2,200	U
131-11-3	Dimethylphthalate	440	U
103-33-3	Azobenzene	440	U
208-96-8	Acenaphthylene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
99-09-2	3-Nitroaniline	2,200	U
83-32-9	Acenaphthene	440	U
51-28-5	2,4-Dinitrophenol	2,200	U

ENVIRON_ETRICS
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10110 . **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB9-7
LAB ID: 9507/100-005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,200 µg/kg	U µg/kg
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
7005-72-3	4-Chlorophenol phenyl ether	440	U
86-73-7	Fluorene	440	U
100-01-6	4-Nitroaniline	2,200	U
534-52-1	4,6-Dinitro-2-methylphenol	2,200	U
86-30-6	N-Nitrosodiphenylamine	440	U
101-55-3	4-Bromophenyl phenyl ether	440	U
118-74-1	Hexachlorobenzene	440	U
87-86-5	Pentachlorophenol	2,200	U
85-01-8	Phenanthrene	440	480
120-12-7	Anthracene	440	U
84-74-2	Carbazole	440	U
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	440	U
92-87-4	Benzidine	440	U
129-00-0	Pyrene	440	U
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	440	U
218-01-9	Chrysene	440	450
117-81-7	bis(2-Ethylhexyl)phthalate	440	U
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
50-32-8	Benzo(a)pyrene	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenzo(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/10/95 11:50
DATE RECEIVED : 7/10/95 18:24
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/21/95
ANALYST : D.C.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10110 . METHOD SW-846 8270
PROJECT # 2498.03.4120.05 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB9-15
LAB ID: 9507/100-006

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	420 µg/kg	U µg/kg
108-95-2	Phenol	420	U
111-44-4	bis(2-chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	o-Cresol	420	U
39638-32-9	bis-(2-Chloro2propyl)Ether	420	U
106-44-5	m & p-Cresol	420	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	420	U
103-33-3	Azobenzene	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2,100	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10110 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB9-15
LAB ID: 9507/100-006

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenol phenyl ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
84-74-2	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
92-87-4	Benzidine	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/10/95 11:55
DATE RECEIVED : 7/10/95 18:24
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/20/95
ANALYST : D.C.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10110 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB9-20
LAB ID: 9507/100-007

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	420 µg/kg	U µg/kg
108-95-2	Phenol	420	U
111-44-4	bis(2-chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	o-Cresol	420	U
39638-32-9	bis-(2-Chloro2propyl)Ether	420	U
106-44-5	m & p-Cresol	420	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	420	U
103-33-3	Azobenzene	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2,100	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32975 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10110 . **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB9-20
LAB ID: 9507/100-007

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenol phenyl ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
84-74-2	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
92-87-4	Benzidine	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/10/95 12:00
DATE RECEIVED : 7/10/95 18:24
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/20/95
ANALYST : D.C.

11B

SEMIVOLATILE ORGANICS LAB CONTROL SAMPLE

EPA SAMPLE NO.

SPIKE BLANK

ab Name: Environmetrics Contract: GEOTECH.

Lab Code: 8270 Case No.: SAS No.: SDG No.:

atrix: (soil/water) SOIL Lab Sample ID: SASLCS6530

ample wt/vol: 30 (g/ml) g Lab File ID: >A7648

Level: (low/med) LOW Date Received: 07/10/95

Moisture: NA decanted: (Y/N) N Date Extracted: 07/12/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/18/95

njection Volume: 1.0 (uL) Dilution Factor: 33.3

GPC Cleanup: (Y/N) N pH: NA

COMPOUND	Conc.	Spike	Recovery
Phenol	5400	6700	81
2-Chlorophenol	4400	6700	66
1,4-Dichlorobenzene	1500	3300	45
N-Nitroso-Di-nPropylamine	3500	3300	105
1,2,4-Trichlorobenzene	2300	3300	70
4-Chloro-3-Methylphenol	6500	6700	97
Acenaphthene	2700	3300	80
4-Nitrophenol	7600	6700	114
2,4-Dinitrotoluene	2900	3300	87
Pentachlorophenol	5300	6700	80
Pyrene	3000	3300	89

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Environmetrics Contract: GEOTECH.

Lab code: Case No.: DRY SAS No.: SDG No.:

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (DCB)#	S3 (FBP)#	S4 (TPH)#	S5 (PHL)#	S6 (2CP)#	S7 (2FP)#	S8 (TBP)#	TOT OUT
01	SASBLK6530	24	1 *	53	80	83	78	75	89	1
02	SASLCS6530	73	36	59	80	69	74	75	100	0
03	9507100-1	68	50	66	110	69	68	56	66	0
04	9507100-2	75	40	66	99	75	72	68	106	0
05	9507100-2MS	73	23	66	98	79	79	79	109	0
06	9507100-2MSD	78	40	62	93	65	70	70	102	0
07	9507100-3	62	18 *	60	84	73	71	62	84	1
08	9507100-4	49	23	47	86	64	54	48	80	0
09	9507100-5	81	45	65	85	83	75	64	81	0
10	9507100-6	72	21	63	91	80	80	68	88	0
11	9507100-7	60	27	59	83	72	70	57	85	0
12										
13										
14										
15			e Advisory							
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)
S3 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S4 (TPH)	= Terphenyl-d14	(18-137)	
S5 (PHL)	= Phenol-d5	(24-113)	
S6 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S7 (2FP)	= 2-Fluorophenol	(25-121)	
S8 (TBP)	= 2,4,6-Tribromophenol	(19-122)	

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 009354
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 07/10/95
Date Logged: 07/10/95
Status: Normal/LEVEL 4
Hubert Wheeler State School

Date Due (PM): 07/20/95 Proj #: 2498.03.4120.05
Date Due (Client): 07/24/95 P.O. #: 10110
Mode: Mail Quot #:

Items Transferred	Relinquished By	Date	Time	Received By	Date	Time	Reason For Transfer
	[illegible]	7/11	400	[illegible]	7/11	400	Prep
2	[illegible]	7-11	730	[illegible]	7/11/95	730	VOA
2	[illegible]	7/12/95	1330	[illegible]	7-12	1330	Return
	[illegible]	7-14	1125	[illegible]	7-14	1125	Metals
	[illegible]	7-21	1140	[illegible]	7-21	1140	Return

GEOTECHNOLOGY, INC.
ENGINEERING & ENVIRONMENTAL SERVICES
ST. LOUIS KANSAS CITY INDIANAPOLIS

Page ____ of ____

CHAIN OF CUSTODY RECORD

COC Record # _____ P.O. # 10110

Project No. 2498.03.4120.05

Project Name: Hubert Wheeler State School

Shipper Name: Geotechnology, Inc

Address: 2258 Grissom Drive St Louis MO

Sampler's Signature: Dan Deardorff Telephone # 997-7440

Contact: Sam Brennecke Telephone # Same

Collectors Sample #	Date	Time	Sample Type	No. of Containers	Analysis	Remarks
SBB-3	7/10/95	0940	Soil	2-8oz	Semi-Volatiles, Total Metal	Normal T.A.
SBB-16		1000		2-8oz 1-2oz	Semi-Volatiles, Total Metal Volatile Organics	
SBB-20		1010		2-8oz	Semi-Volatiles, Total Metal	
SB9-3		1140		2-8oz	Semi Volatiles, Total Metals	
SB9-7		1150		2-8oz 1-2oz	Semi Volatiles, Total Metal Volatile Organics	
SB9-15		1155		2-8oz	Semi-Volatiles, Total Metal	
SB9-20		1200		2-8oz	Semi-Volatiles, Total Metal	

Receiver Name: Environmetrics, Inc St Louis MO
(Company Name and Address)

Chain of Possession:

From: Dan Deardorff 7/10/95
(Name and Date/Time)

To: P Woods 7/10/95 6:00 pm
(Name and Date/Time)

From: _____ To: _____

White copy to Laboratory • Yellow copy to COC File • Pink copy to Job File

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 009354
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 07/10/95
Date Logged: 07/10/95
Status: Normal/LEVEL 4
Hubert Wheeler State School

Date Due (PM): 07/20/95 Proj #: 2493.03.4120.05
Date Due (Client): 07/24/95 P.O. #: 10110
Mode: Mail Quot #:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests
9507000100-001-01	SB8-3	SOIL	2-250 ml GLASS	Cold	07/10/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions: ALL ANALYSIS ON DRIED WT. BASIS						
MS / MSD 9507000100-002-01	SB8-16	SOIL	2-250 ml GLASS	Cold	07/10/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
MS / MSD 9507000100-002-02	SB8-16	SOIL	1-2 OZ VOA	Cold	07/10/95		VOLATILE ORGANICS by GC/MS-SW-846 8240
	Sample Instructions:						
9507000100-003-01	SB8-20	SOIL	2-250 ml GLASS	Cold	07/10/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9507000100-004-01	SB9-3	SOIL	2-250 ml GLASS	Cold	07/10/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9507000100-005-01	SB9-7	SOIL	2-250 ml GLASS	Cold	07/10/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 009354
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 07/10/95
Date Logged: 07/10/95
Status: Normal/LEVEL 4
Hubert Wheeler State School

Date Due (PM): 07/20/95 Proj #: 2493.03.4120.05
Date Due (Client): 07/24/95 P.O. #: 10110
Mode: Mail Quot #:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests
9507000100-005-01	SB9-7	SOIL	2-250 ml GLASS	Cold	07/10/95		TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9507000100-005-02	SB9-7	SOIL	1-2 OZ VOA	Cold	07/10/95		VOLATILE ORGANICS by GC/MS-SW-846 8240
	Sample Instructions:						
9507000100-006-01	SB9-15	SOIL	2-250 ml GLASS	Cold	07/10/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9507000100-007-01	SB9-20	SOIL	2-250 ml GLASS	Cold	07/10/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						

Items Transferred	Relinquished By	Date		Logged In By	Date	Time
9		07/10/95	PM Signature : Karen Coons Client Services Rep.	Phyllis Woods Login Coordinator	07/10/95	18:24:59

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

RECEIVED
AUG 16 1995
GEOTECHNOLOGY

August 14, 1995

Sam Brenneke
Geotechnology, Inc.
2258 Grissom Drive
ST. Louis, MO 63146

Subject: Project Summary for the Hubert Wheeler State School Playground Site Restoration Samples - SB1-7, SB2-6, SB3-11.5, SB4-5, SB5-13, SB6-12, SB9-7, MW1-13, MW2-4, MW3-7.

Dear Mr. Brenneke:

Please find the analytical reports for the reference project attached.

Date Received 8/03/95

Chain of Custody Number:009545

Environmetrics Laboratory Number: 9508/040

Invoice # 33272

The summary of the project is as follows:

PROJECT IDENTIFICATION:

The following samples were received and analyzed:

Description	Lab #	Received	Analyses
SB1-7 Relog 9507-033-002	9508-040-001	8/3/95	TCLP(8) Metals
SB2-6 Relog 9507-052-003	9508-040-002	8/3/95	TCLP (8) Metals
SB3-11.5 Relog 9507-052-007	9508-040-003	8/3/95	TCLP (8) Metals
SB4-5 Relog 9507-052-009	9508-040-004	8/3/95	TCLP (8) Metals
SB5-13 Relog 9507-076-004	9508-040-005	8/3/95	TCLP (8) Metals

SB5-13 Relog 9507-076-004	9508- 040-005	8/3/95	TCLP (8) Metals Matrix Spike, Matrix Spike Duplicate
SB6-12 Relog 9507-076-009	9508- 040-006	8/3/95	TCLP (8) Metals
SB9-7 Relog 9507-100-005	9508- 040-007	8/3/95	TCLP (8) Metals
MW1-13 Relog 9507-130-003	9508- 040-008	8/3/95	TCLP (8) Metals
MW2-4 Relog 9507-130-007	9508- 040-009	8/3/95	TCLP(8) Metals

Specific methods, extraction, preparation dates, and detection limits are noted on the individual reports attached.

REANALYSES, DILUTIONS, ETC.

The analytical data reflects the result of the initial analysis with out dilutions.

QUALITY ASSURANCE SUMMARY:

All Quality Assurance parameters (temperature upon receipt, holding times, spike recoveries, etc.) were within method specifications.

If you have any questions regarding this report please do not hesitate to call: (314) 427-0550. Thank you for your business.

Sincerely,

Karen J. Coons

Project Manager

Attachments

ENVIRONMETRICS
2345 Millpark Drive
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(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: DON DEARDORFF

INVOICE # 33272
PO # 10253
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

PREPARATION BLANK
ICP/AA
(UNITS = mg/l)

PREP. CODE: MP-252-79
PREP. DATE: 8/07/95

ELEMENT	BLANK RESULT
ARSENIC	<0.200
BARIUM	<0.040
CADMIUM	<0.005
CHROMIUM	<0.010
LEAD	<0.100
MERCURY	<0.0002
SELENIUM	<0.200
SILVER	<0.010

LABORATORY CONTROL SAMPLE
ICP/AA
(UNITS = mg/l)

PREP. CODE: MP-252-79
PREP. DATE: 8/07/95

ELEMENT	VALUE	RESULT	PERCENT RECOVERY
ARSENIC	2.00	2.00	100
BARIUM	2.00	2.06	103
CADMIUM	0.50	0.478	96
CHROMIUM	0.50	0.505	101
LEAD	0.50	0.432	86
MERCURY	0.002	0.0020	101
SELENIUM	2.00	2.04	102
SILVER	0.50	0.510	102

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INVOICE: 33272
PO: 10253
PROJECT NO: 2498.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB1-7 / 9507-33-002 RELOG
LAB ID: 9508000040-001
DATE COLLECTED: 07/05/95
DATE RECEIVED: 08/03/95 10:30

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TCLP ARSENIC	SW-846 1311/6010A	<0.200 mg/L	8/08/95 R.D.
TCLP BARIUM	SW-846 1311/6010A	1.04 mg/L	
TCLP CADMIUM	SW-846 1311/6010A	<0.005 mg/L	
TCLP CHROMIUM	SW-846 1311/6010A	<0.010 mg/L	
TCLP LEAD	SW-846 1311/6010A	<0.100 mg/L	
TCLP MERCURY	SW-846 1311/7470	0.001000 mg/L	
TCLP SELENIUM	SW-846 1311/6010A	<0.200 mg/L	
TCLP SILVER	SW-846 1311/6010A	<0.040 mg/L	

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TCLP SPIKE RECOVERY FORM

SAMPLE ID: SB1-7 / 9507-33-002 RELOG
LAB ID: 9508000040-001
DATE COLLECTED: 07/05/95
DATE RECEIVED: 08/03/95 10:30

ELEMENT	SAMPLE RESULT mg/L	SPIKE LEVEL mg/L	SPIKE RESULT mg/L	PERCENT RECOVERY
TCLP ARSENIC	<0.200	5.0	4.87	97
TCLP BARIUM	1.04	5.0	5.90	97
TCLP CADMIUM	<0.005	1.0	0.896	90
TCLP CHROMIUM	<0.010	5.0	4.71	94
TCLP LEAD	<0.100	5.0	4.61	92
TCLP MERCURY	0.0010	0.002	0.0032	110
TCLP SELENIUM	<0.200	1.0	0.972	97
TCLP SILVER	<0.040	1.0	0.994	99

$$\text{ERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT}) \times 100}{\text{SPIKE LEVEL}}$$

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INVOICE:
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PROJECT NO: 2498.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB2-6 / 9507-52-003 RELOG
LAB ID: 9508000040-002
DATE COLLECTED: 07/06/95
DATE RECEIVED: 08/03/95 10:31

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TCLP ARSENIC	SW-846 1311/6010A	<0.200 mg/L	8/08/95 R.D.
TCLP BARIUM	SW-846 1311/6010A	0.267 mg/L	
TCLP CADMIUM	SW-846 1311/6010A	0.00600 mg/L	
TCLP CHROMIUM	SW-846 1311/6010A	<0.010 mg/L	
TCLP LEAD	SW-846 1311/6010A	0.875 mg/L	
TCLP MERCURY	SW-846 1311/7470	0.0003000 mg/L	
TCLP SELENIUM	SW-846 1311/6010A	<0.200 mg/L	
TCLP SILVER	SW-846 1311/6010A	<0.040 mg/L	

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TCLP SPIKE RECOVERY FORM

SAMPLE ID: SB2-6 / 9507-52-003 RELOG
LAB ID: 9508000040-002
DATE COLLECTED: 07/06/95
DATE RECEIVED: 08/03/95 10:31

ELEMENT	SAMPLE RESULT mg/L	SPIKE LEVEL mg/L	SPIKE RESULT mg/L	PERCENT RECOVERY
TCLP ARSENIC	<0.200	5.0	4.67	93
TCLP BARIUM	0.267	5.0	4.79	90
TCLP CADMIUM	0.006	1.0	0.833	83
TCLP CHROMIUM	<0.010	5.0	4.36	87
TCLP LEAD	0.875	5.0	5.14	85
TCLP MERCURY	0.0003	0.002	0.0025	110
TCLP SELENIUM	<0.200	1.0	1.04	104
TCLP SILVER	<0.040	1.0	0.971	97

$$\text{PERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT}) \times 100}{\text{SPIKE LEVEL}}$$

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INVOICE:
PO: 10253
PROJECT NO: 2498.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB3-11.5 / 9507-052-007 RELOG
LAB ID: 9508000040-003
DATE COLLECTED: 07/06/95
DATE RECEIVED: 08/03/95 10:32

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TCLP ARSENIC	SW-846 1311/6010A	<0.200 mg/L	8/08/95 R.D.
TCLP BARIUM	SW-846 1311/6010A	0.698 mg/L	
TCLP CADMIUM	SW-846 1311/6010A	0.00600 mg/L	
TCLP CHROMIUM	SW-846 1311/6010A	<0.010 mg/L	
TCLP LEAD	SW-846 1311/6010A	2.27 mg/L	
TCLP MERCURY	SW-846 1311/7470	0.0004000 mg/L	
TCLP SELENIUM	SW-846 1311/6010A	<0.200 mg/L	
TCLP SILVER	SW-846 1311/6010A	<0.040 mg/L	

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TCLP SPIKE RECOVERY FORM

SAMPLE ID: SB3-11.5 / 9507-052-007 RELOG
LAB ID: 9508000040-003
DATE COLLECTED: 07/06/95
DATE RECEIVED: 08/03/95 10:32

ELEMENT	SAMPLE RESULT mg/L	SPIKE LEVEL mg/L	SPIKE RESULT mg/L	PERCENT RECOVERY
TCLP ARSENIC	<0.200	5.0	4.72	94
TCLP BARIUM	0.698	5.0	5.35	93
TCLP CADMIUM	0.006	1.0	0.845	84
TCLP CHROMIUM	<0.010	5.0	4.40	88
TCLP LEAD	2.27	5.0	6.64	87
TCLP MERCURY	0.0004	0.002	0.0025	105
TCLP SELENIUM	<0.200	1.0	1.04	104
TCLP SILVER	<0.040	1.0	0.983	98

$$\text{PERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT}) \times 100}{\text{SPIKE LEVEL}}$$

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PROJECT NO: 2498.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB4-5 / 9507-052-009 RELOG
LAB ID: 9508000040-004
DATE COLLECTED: 07/06/95
DATE RECEIVED: 08/03/95 10:32

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TCLP ARSENIC	SW-846 1311/6010A	<0.200 mg/L	
TCLP BARIUM	SW-846 1311/6010A	1.32 mg/L	
TCLP CADMIUM	SW-846 1311/6010A	0.00700 mg/L	
TCLP CHROMIUM	SW-846 1311/6010A	<0.010 mg/L	
TCLP LEAD	SW-846 1311/6010A	<0.100 mg/L	
TCLP MERCURY	SW-846 1311/7470	0.0006000 mg/L	
TCLP SELENIUM	SW-846 1311/6010A	<0.200 mg/L	
TCLP SILVER	SW-846 1311/6010A	<0.040 mg/L	

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TCLP SPIKE RECOVERY FORM

SAMPLE ID: SB4-5 / 9507-052-009 RELOG
LAB ID: 9508000040-004
DATE COLLECTED: 07/06/95
DATE RECEIVED: 08/03/95 10:32

ELEMENT	SAMPLE RESULT mg/L	SPIKE LEVEL mg/L	SPIKE RESULT mg/L	PERCENT RECOVERY
TCLP ARSENIC	<0.200	5.0	4.60	92
TCLP BARIUM	1.32	5.0	5.83	90
TCLP CADMIUM	0.007	1.0	0.823	82
TCLP CHROMIUM	<0.010	5.0	4.34	87
TCLP LEAD	<0.100	5.0	4.28	86
TCLP MERCURY	0.0006	0.002	0.0028	110
TCLP SELENIUM	<0.200	1.0	1.08	108
TCLP SILVER	<0.040	1.0	0.945	95

$$\text{PERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT}) \times 100}{\text{SPIKE LEVEL}}$$

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ANALYSIS RESULTS

SAMPLE ID: SB5-13 / 9507-076-004 RELOG
LAB ID: 9508000040-005
DATE COLLECTED: 07/07/95
DATE RECEIVED: 08/03/95 10:34

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TCLP ARSENIC	SW-846 1311/6010A	<0.200 mg/L	8/08/95 R.D.
TCLP BARIUM	SW-846 1311/6010A	0.398 mg/L	
TCLP CADMIUM	SW-846 1311/6010A	0.0160 mg/L	
TCLP CHROMIUM	SW-846 1311/6010A	0.0100 mg/L	
TCLP LEAD	SW-846 1311/6010A	<0.100 mg/L	
TCLP MERCURY	SW-846 1311/7470	0.0004000 mg/L	
TCLP SELENIUM	SW-846 1311/6010A	<0.200 mg/L	
TCLP SILVER	SW-846 1311/6010A	<0.040 mg/L	

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PROJECT NO: 2498.03.4120.0005, HUBERT WHEELER STATE SCHOOL

TCLP SPIKE RECOVERY FORM

SAMPLE ID: SB5-13 / 9507-076-004 RELOG
LAB ID: 9508000040-005
DATE COLLECTED: 07/07/95
DATE RECEIVED: 08/03/95 10:34

ELEMENT	SAMPLE RESULT mg/L	SPIKE LEVEL mg/L	SPIKE RESULT mg/L	PERCENT RECOVERY
TCLP ARSENIC	<0.200	5.0	4.56	91
TCLP BARIUM	0.398	5.0	4.77	87
TCLP CADMIUM	0.016	1.0	0.798	78
TCLP CHROMIUM	0.010	5.0	4.23	84
TCLP LEAD	<0.100	5.0	4.12	82
TCLP MERCURY	0.0004	0.002	0.0025	105
TCLP SELENIUM	<0.200	1.0	1.02	102
TCLP SILVER	<0.040	1.0	0.930	93

$$\text{PERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT}) \times 100}{\text{SPIKE LEVEL}}$$

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PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

QUALITY ASSURANCE QUALITY CONTROL REPORT

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
ICP/AA WATER

SAMPLE ID: SB5-13
LAB ID: 9508/40-005

ELEMENT	SAMPLE RESULT (mg/l)	SPIKE LEVEL (mg/l)	SPIKE RESULT (mg/l)	% REC.	DUPLICATE RESULT (mg/l)	% REC.	RPD
ARSENIC	<0.200	5.0	4.56	91	4.57	91	0
BARIUM	0.398	5.0	4.77	87	4.75	87	0
CADMIUM	0.016	1.0	0.798	78	0.798	78	0
CHROMIUM	0.010	5.0	4.23	84	4.24	85	1
LEAD	<0.100	5.0	4.12	82	4.14	83	1
MERCURY	0.0004	0.002	0.0025	106	0.0025	107	<1
SELENIUM	<0.200	1.0	1.02	102	0.980	98	4
SILVER	<0.040	1.0	0.930	93	0.921	92	1

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INVOICE:
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PROJECT NO: 2498.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB6-12 / 9507-076-009 RELOG
LAB ID: 9508000040-006
DATE COLLECTED: 07/07/95
DATE RECEIVED: 08/03/95 10:35

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TCLP ARSENIC	SW-846 1311/6010A	<0.200 mg/L	8/08/95 R.D.
TCLP BARIUM	SW-846 1311/6010A	1.09 mg/L	
TCLP CADMIUM	SW-846 1311/6010A	0.00800 mg/L	
TCLP CHROMIUM	SW-846 1311/6010A	<0.010 mg/L	
TCLP LEAD	SW-846 1311/6010A	0.157 mg/L	
TCLP MERCURY	SW-846 1311/7470	0.001600 mg/L	
TCLP SELENIUM	SW-846 1311/6010A	<0.200 mg/L	
TCLP SILVER	SW-846 1311/6010A	<0.040 mg/L	

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TCLP SPIKE RECOVERY FORM

SAMPLE ID: SB6-12 / 9507-076-009 RELOG
LAB ID: 9508000040-006
DATE COLLECTED: 07/07/95
DATE RECEIVED: 08/03/95 10:35

ELEMENT	SAMPLE RESULT mg/L	SPIKE LEVEL mg/L	SPIKE RESULT mg/L	PERCENT RECOVERY
TCLP ARSENIC	<0.200	5.0	4.68	94
TCLP BARIUM	1.09	5.0	5.60	90
TCLP CADMIUM	0.008	1.0	0.851	84
TCLP CHROMIUM	<0.010	5.0	4.55	91
TCLP LEAD	0.157	5.0	4.41	85
TCLP MERCURY	0.0016	0.002	0.0039	115
TCLP SELENIUM	<0.200	1.0	0.985	99
TCLP SILVER	<0.040	1.0	0.927	93

$$\text{PERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT}) \times 100}{\text{SPIKE LEVEL}}$$

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ANALYSIS RESULTS

SAMPLE ID: SB9-7 / 9507-100-005 RELOG
LAB ID: 9508000040-007
DATE COLLECTED: 07/10/95
DATE RECEIVED: 08/03/95 10:36

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TCLP ARSENIC	SW-846 1311/6010A	<0.200 mg/L	8/08/95 R.D.
TCLP BARIUM	SW-846 1311/6010A	0.402 mg/L	
TCLP CADMIUM	SW-846 1311/6010A	0.0120 mg/L	
TCLP CHROMIUM	SW-846 1311/6010A	<0.010 mg/L	
TCLP LEAD	SW-846 1311/6010A	0.100 mg/L	
TCLP MERCURY	SW-846 1311/7470	0.0004000 mg/L	
TCLP SELENIUM	SW-846 1311/6010A	<0.200 mg/L	
TCLP SILVER	SW-846 1311/6010A	<0.040 mg/L	

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TCLP SPIKE RECOVERY FORM

SAMPLE ID: SB9-7 / 9507-100-005 RELOG
LAB ID: 9508000040-007
DATE COLLECTED: 07/10/95
DATE RECEIVED: 08/03/95 10:36

ELEMENT	SAMPLE RESULT mg/L	SPIKE LEVEL mg/L	SPIKE RESULT mg/L	PERCENT RECOVERY
TCLP ARSENIC	<0.200	5.0	4.82	96
TCLP BARIUM	0.402	5.0	5.08	94
TCLP CADMIUM	0.012	1.0	0.825	81
TCLP CHROMIUM	<0.010	5.0	4.41	88
TCLP LEAD	0.100	5.0	4.35	85
TCLP MERCURY	0.0004	0.002	0.0025	105
TCLP SELENIUM	<0.200	1.0	1.10	110
TCLP SILVER	<0.040	1.0	0.927	93

$$\text{PERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT}) \times 100}{\text{SPIKE LEVEL}}$$

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ANALYSIS RESULTS

SAMPLE ID: MW-1:13/9507-130-002 RELOG
LAB ID: 9508000040-008
DATE COLLECTED: 07/11/95
DATE RECEIVED: 08/03/95 10:37

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TCLP ARSENIC	SW-846 1311/6010A	<0.200 mg/L	8/08/95 R.D.
TCLP BARIUM	SW-846 1311/6010A	0.496 mg/L	
TCLP CADMIUM	SW-846 1311/6010A	0.0190 mg/L	
TCLP CHROMIUM	SW-846 1311/6010A	<0.010 mg/L	
TCLP LEAD	SW-846 1311/6010A	0.290 mg/L	
TCLP MERCURY	SW-846 1311/7470	0.003400 mg/L	
TCLP SELENIUM	SW-846 1311/6010A	<0.200 mg/L	
TCLP SILVER	SW-846 1311/6010A	<0.040 mg/L	

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TCLP SPIKE RECOVERY FORM

SAMPLE ID: MW-1:13/9507-130-002 RELOG
LAB ID: 9508000040-008
DATE COLLECTED: 07/11/95
DATE RECEIVED: 08/03/95 10:37

ELEMENT	SAMPLE RESULT mg/L	SPIKE LEVEL mg/L	SPIKE RESULT mg/L	PERCENT RECOVERY
TCLP ARSENIC	<0.200	5.0	4.66	93
TCLP BARIUM	0.496	5.0	5.12	92
TCLP CADMIUM	0.019	1.0	0.808	79
TCLP CHROMIUM	<0.010	5.0	4.34	87
TCLP LEAD	0.290	5.0	4.73	89
TCLP MERCURY	0.0034	0.002	0.0056	110
TCLP SELENIUM	<0.200	1.0	1.18	118
TCLP SILVER	<0.040	1.0	0.918	92

$$\text{PERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT}) \times 100}{\text{SPIKE LEVEL}}$$

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

ATTN: Don Deardorff

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE: 33272
PO: 10253
PROJECT NO: 2498.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-2:4/9507-130-007 RELOG
LAB ID: 9508000040-009
DATE COLLECTED: 07/11/95
DATE RECEIVED: 08/03/95 10:38

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TCLP ARSENIC	SW-846 1311/6010A	<0.200 mg/L	8/08/95 R.D.
TCLP BARIUM	SW-846 1311/6010A	1.59 mg/L	
TCLP CADMIUM	SW-846 1311/6010A	0.0120 mg/L	
TCLP CHROMIUM	SW-846 1311/6010A	<0.010 mg/L	
TCLP LEAD	SW-846 1311/6010A	0.364 mg/L	
TCLP MERCURY	SW-846 1311/7470	<0.0002 mg/L	
TCLP SELENIUM	SW-846 1311/6010A	<0.200 mg/L	
TCLP SILVER	SW-846 1311/6010A	<0.010 mg/L	

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PROJECT NO: 2498.03.4120.0005, HUBERT WHEELER STATE SCHOOL

TCLP SPIKE RECOVERY FORM

SAMPLE ID: MW-2:4/9507-130-007 RELOG
LAB ID: 9508000040-009
DATE COLLECTED: 07/11/95
DATE RECEIVED: 08/03/95 10:38

ELEMENT	SAMPLE RESULT mg/L	SPIKE LEVEL mg/L	SPIKE RESULT mg/L	PERCENT RECOVERY
TCLP ARSENIC	<0.200	5.0	4.52	90
TCLP BARIUM	1.59	5.0	5.94	87
TCLP CADMIUM	0.012	1.0	0.792	78
TCLP CHROMIUM	<0.010	5.0	4.27	85
TCLP LEAD	0.364	5.0	4.73	87
TCLP MERCURY	<0.0002	0.002	0.0024	120
TCLP SELENIUM	<0.200	1.0	1.11	111
TCLP SILVER	<0.010	1.0	0.897	90

$$\text{PERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT}) \times 100}{\text{SPIKE LEVEL}}$$

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PO: 10253
PROJECT NO: 2498.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-3:7/9507-170-004 RELOG
LAB ID: 9508000040-010
DATE COLLECTED: 07/13/95
DATE RECEIVED: 08/03/95 10:39

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TCLP ARSENIC	SW-846 1311/6010A	<0.200 mg/L	8/08/95 R.D.
TCLP BARIUM	SW-846 1311/6010A	1.87 mg/L	
TCLP CADMIUM	SW-846 1311/6010A	0.0130 mg/L	
TCLP CHROMIUM	SW-846 1311/6010A	<0.010 mg/L	
TCLP LEAD	SW-846 1311/6010A	0.168 mg/L	
TCLP MERCURY	SW-846 1311/7470	0.0002000 mg/L	
TCLP SELENIUM	SW-846 1311/6010A	<0.200 mg/L	
TCLP SILVER	SW-846 1311/6010A	<0.040 mg/L	

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(314) 427-0550

INVOICE: 33272
PO: 10253
PROJECT NO: 2498.03.4120.0005, HUBERT WHEELER STATE SCHOOL

TCLP SPIKE RECOVERY FORM

SAMPLE ID: MW-3:7/9507-170-004 RELOG
LAB ID: 9508000040-010
DATE COLLECTED: 07/13/95
DATE RECEIVED: 08/03/95 10:39

ELEMENT	SAMPLE RESULT mg/L	SPIKE LEVEL mg/L	SPIKE RESULT mg/L	PERCENT RECOVERY
TCLP ARSENIC	<0.200	5.0	4.56	91
TCLP BARIUM	1.87	5.0	6.27	88
TCLP CADMIUM	0.013	1.0	0.795	78
TCLP CHROMIUM	<0.010	5.0	4.33	87
TCLP LEAD	0.168	5.0	4.73	91
TCLP MERCURY	0.0002	0.002	0.0024	110
TCLP SELENIUM	<0.200	1.0	1.10	110
TCLP SILVER	<0.040	1.0	0.886	89

$$\text{PERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT}) \times 100}{\text{SPIKE LEVEL}}$$

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 009545
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Don Deardorff

Date Received: 08/03/95
Date Logged: 08/03/95
Status: Normal/LEVEL 4
Hubert Wheeler State School RELOG

Date Due (PM): 08/15/95 Proj #: 2498.03.4120.0005, HUBERT
Date Due (Client): 08/17/95 P.O. #: 10253
Mode: Mail Quot #:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests
19628 9508000040-001-01	SB1-7 / 9507-33-002 RELOG	SOIL	1-250 ml GLASS	Cold	07/05/95		TCLP ARSENIC-SW-846 1311/6010A TCLP BARIUM-SW-846 1311/6010A TCLP CADMIUM-SW-846 1311/6010A TCLP CHROMIUM-SW-846 1311/6010A TCLP LEAD-SW-846 1311/6010A TCLP MERCURY-SW-846 1311/7470 TCLP SELENIUM-SW-846 1311/6010A TCLP SILVER-SW-846 1311/6010A
	Sample Instructions: MATRIX SPIKE WITH ALL SAMPLES						
19630 9508000040-002-01	SB2-6 / 9507-52-003 RELOG	SOIL	1-250 ml GLASS	Cold	07/06/95		TCLP ARSENIC-SW-846 1311/6010A TCLP BARIUM-SW-846 1311/6010A TCLP CADMIUM-SW-846 1311/6010A TCLP CHROMIUM-SW-846 1311/6010A TCLP LEAD-SW-846 1311/6010A TCLP MERCURY-SW-846 1311/7470 TCLP SELENIUM-SW-846 1311/6010A TCLP SILVER-SW-846 1311/6010A
	Sample Instructions:						
19631 9508000040-003-01	SB3-11.5 / 9507-052-007 RELOG	SOIL	1-250 ml GLASS	Cold	07/06/95		TCLP ARSENIC-SW-846 1311/6010A TCLP BARIUM-SW-846 1311/6010A TCLP CADMIUM-SW-846 1311/6010A TCLP CHROMIUM-SW-846 1311/6010A TCLP LEAD-SW-846 1311/6010A TCLP MERCURY-SW-846 1311/7470 TCLP SELENIUM-SW-846 1311/6010A TCLP SILVER-SW-846 1311/6010A
	Sample Instructions:						
19632 9508000040-004-01	SB4-5 / 9507-052-009 RELOG	SOIL	1-250 ml GLASS	Cold	07/06/95		TCLP ARSENIC-SW-846 1311/6010A TCLP BARIUM-SW-846 1311/6010A TCLP CADMIUM-SW-846 1311/6010A TCLP CHROMIUM-SW-846 1311/6010A TCLP LEAD-SW-846 1311/6010A TCLP MERCURY-SW-846 1311/7470 TCLP SELENIUM-SW-846 1311/6010A TCLP SILVER-SW-846 1311/6010A
	Sample Instructions:						
19633 9508000040-005-01	SB5-13 / 9507-076-004 RELOG	SOIL	1-250 ml GLASS	Cold	07/07/95		TCLP ARSENIC-SW-846 1311/6010A TCLP BARIUM-SW-846 1311/6010A TCLP CADMIUM-SW-846 1311/6010A TCLP CHROMIUM-SW-846 1311/6010A TCLP LEAD-SW-846 1311/6010A TCLP MERCURY-SW-846 1311/7470 TCLP SELENIUM-SW-846 1311/6010A TCLP SILVER-SW-846 1311/6010A
	Sample Instructions:						
19634 9508000040-006-01	SB6-12 / 9507-076-009 RELOG	SOIL	1-250 ml GLASS	Cold	07/07/95		TCLP ARSENIC-SW-846 1311/6010A TCLP BARIUM-SW-846 1311/6010A

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 009545
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Don Deardorff

Date Received: 08/03/95
Date Logged: 08/03/95
Status: Normal/LEVEL 4
Hubert Wheeler State School RELOG

Date Due (PM): 08/15/95 Proj #: 2498.03.4120.0005, HUBERT
Date Due (Client): 08/17/95 P.O. #: 10253
Mode: Mail Quot #:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests
9508000040-006-01	SB6-12 / 9507-076-009 RELOG	SOIL	1-250 ml GLASS	Cold	07/07/95		TCLP CADMIUM-SW-846 1311/6010A TCLP CHROMIUM-SW-846 1311/6010A TCLP LEAD-SW-846 1311/6010A TCLP MERCURY-SW-846 1311/7470 TCLP SELENIUM-SW-846 1311/6010A TCLP SILVER-SW-846 1311/6010A
	Sample Instructions:						
19635 9508000040-007-01	SB9-7 / 9507-100-005 RELOG	SOIL	1-250 ml GLASS	Cold	07/10/95		TCLP ARSENIC-SW-846 1311/6010A TCLP BARIUM-SW-846 1311/6010A TCLP CADMIUM-SW-846 1311/6010A TCLP CHROMIUM-SW-846 1311/6010A TCLP LEAD-SW-846 1311/6010A TCLP MERCURY-SW-846 1311/7470 TCLP SELENIUM-SW-846 1311/6010A TCLP SILVER-SW-846 1311/6010A
	Sample Instructions:						
19636 9508000040-008-01	MW-1 13 / 9507-130-003 RELOG	SOIL	1-250 ml GLASS	Cold	07/11/95		TCLP ARSENIC-SW-846 1311/6010A TCLP BARIUM-SW-846 1311/6010A TCLP CADMIUM-SW-846 1311/6010A TCLP CHROMIUM-SW-846 1311/6010A TCLP LEAD-SW-846 1311/6010A TCLP MERCURY-SW-846 1311/7470 TCLP SELENIUM-SW-846 1311/6010A TCLP SILVER-SW-846 1311/6010A
	Sample Instructions:						
19637 9508000040-009-01	MW-2 4 / 9507-130-007 RELOG	SOIL	1-250 ml GLASS	Cold	07/11/95		TCLP ARSENIC-SW-846 1311/6010A TCLP BARIUM-SW-846 1311/6010A TCLP CADMIUM-SW-846 1311/6010A TCLP CHROMIUM-SW-846 1311/6010A TCLP LEAD-SW-846 1311/6010A TCLP MERCURY-SW-846 1311/7470 TCLP SELENIUM-SW-846 1311/6010A TCLP SILVER-SW-846 1311/6010A
	Sample Instructions:						
19638 9508000040-010-01	MW-3 7 / 9507-170-004 RELOG	SOIL	1-250 ml GLASS	Cold	07/13/95		TCLP ARSENIC-SW-846 1311/6010A TCLP BARIUM-SW-846 1311/6010A TCLP CADMIUM-SW-846 1311/6010A TCLP CHROMIUM-SW-846 1311/6010A TCLP LEAD-SW-846 1311/6010A TCLP MERCURY-SW-846 1311/7470 TCLP SELENIUM-SW-846 1311/6010A TCLP SILVER-SW-846 1311/6010A
	Sample Instructions:						

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 009545
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Don Deardorff

Date Received: 08/03/95
Date Logged: 08/03/95
Status: Normal/LEVEL 4
Hubert Wheeler State School RELOG

Date Due (PM): 08/15/95 Proj #: 2498.03.4120.0005, HUBERT
Date Due (Client): 08/17/95 P.O. #: 10253
Mode: Mail Quot #:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests

Items Transferred	Relinquished By	Date		Logged In By	Date	Time
10		08/03/95	PM Signature : Karen Coons Client Services Rep	Phyllis Woods Login Coordinator	08/03/95	10:39:02

Karen Coons

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

July 27, 1995

Sam Brenneke
Geotechnology, Inc.
2258 Grissom Drive
ST. Louis, MO 63146

Subject: Project Summary for the Hubert Wheeler State School Playground Site Restoration
Samples: SB-TB:7-6-95, SB2-2, SB2-6, SB2-12, SB3-5, SB3-8, SB3-11.5, SB3-15.5, SB-4-5, SB4-13, SB4-18.5.

Dear Mr. Brenneke:

Please find the analytical reports for the reference project attached.

Date Received 07/06/95

Chain of Custody Form: 009338

Environmetrics Laboratory # 9507/052

Invoice # 32923

The summary of the project is as follows:

PROJECT IDENTIFICATION:

The following samples were received and analyzed:

Description	Lab #	Received	Analyses
SB-TB:7-6-95	9507-052-001	7/695	Trip Blank- Volatiles
SB2-2 9:55	9507-052-002	7/695	Total(8)Metals, Semi-Volatiles
SB2-6 10:10	9507-052-003	7/695	Total(8)Metals, Semi-Volatiles
SB2-12 10:30	9507-052-004	7/6/95	Total(8)Metals, Semi-Volatiles,Volatiles
SB3-5 12:10	9507-052-005	7/6/95	Total(8)Metals, Semi-Volatiles
SB3-8 12:25	9507-052-006	7/6/95	Total(8)Metals, Semi-Volatiles
SB3-11.5 12:45	9507-052-007	7/6/95	Total(8)Metals, Semi-Volatiles, Volatiles

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Maryland Heights, MO 63043-3529
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SB-3-11.5 12:45	9507-052-007	7/6/95	Total(8)Metals Matrix Spike/Matrix Spike Duplicate Semi-Volatiles Matrix Spike/ Matrix Spike Duplicate Volatiles Matrix Spike/ Matrix Spike Duplicate
SB3- 15.5 12:55	9507-052-008	7/6/95	Total(8)Metals, Semi-Volatiles
SB4-5 14:40	9507-052-009	7/6/95	Total(8)Metals, Semi-Volatiles, Volatiles
SB4-13 15:00	9507-052-010	7/6/95	Total(8)Metals, Semi-Volatiles
SB4-18.5 15:15	9507-052-011	7/6/95	Total(8)Metals, Semi-Volatiles

Specific methods, extraction, preparation dates, and detection limits are noted on the individual reports attached.

REANALYSES, DILUTIONS, ETC.

The analytical data reflects the original analysis without any dilutions or reanalyses, with the exception of:

In accordance with SW-846 8240 sample ID# SB4-5 was reanalyzed because of low surrogate recoveries.

For method SW-846 8270 there were elevated detection limits for samples Id# SB2-6 and SB4 -5 because of matrix interferences. The samples concentrated to 2.0ml and per method samples should concentrate down to 1.0ml. Sample Id# SB4-5 was also diluted 1:2 because of low surrogate recoveries.

QUALITY ASSURANCE SUMMARY:

All Quality Assurance parameters (temperature upon receipt, holding times, spike recoveries, etc.) were within method specifications. Please note that the Total(8)Metals are reported on a dry weight basis.

If you have any questions regarding this report please do not hesitate to call: (314) 427-0550. Thank you for your business.

Sincerely,

Karen J. Coons

Project Manager

Attachments

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32923
PO # 10108
PROJECT # 2498.03.4120.0005, HUBERT WHEELER STATE SCHOOL

PREPARATION BLANK
ICP/AA
(UNITS = mg/l)

PREP. CODE: MP-252-34
PREP. DATE: 7/10/95

ELEMENT	BLANK RESULT
ARSENIC	<0.200
BARIUM	<0.040
CADMIUM	<0.005
CHROMIUM	<0.010
MERCURY	<0.0002
LEAD	<0.100
SELENIUM	<0.200
SILVER	<0.010

LABORATORY CONTROL SAMPLE
ICP/AA
(UNITS = mg/l)

PREP. CODE: MP-252-34
PREP. DATE: 7/10/95

ELEMENT	VALUE	RESULT	PERCENT RECOVERY
ARSENIC	2.00	1.88	94
BARIUM	2.00	1.88	94
CADMIUM	0.50	0.440	88
CHROMIUM	0.50	0.489	98
MERCURY	0.0020	0.00189	94
LEAD	0.50	0.490	98
SELENIUM	2.00	1.93	96
SILVER	0.50	0.462	92

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ATTN: Sam Brenneke

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(314) 427-0550

INVOICE: 32923
PO: 10108
PROJECT NO: 2493.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB2-2 9:55
LAB ID: 9507000052-002
DATE COLLECTED: 07/06/95
DATE RECEIVED: 07/06/95 18:41

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<11.6 mg/Kg	7/11/95 R.D.
TOTAL BARIUM	SW-846 6010A	119 mg/Kg	7/11/95 R.D.
TOTAL CADMIUM	SW-846 6010A	0.291 mg/Kg	7/12/95 R.D.
TOTAL CHROMIUM	SW-846 6010A	11.8 mg/Kg	7/11/95 R.D.
TOTAL LEAD	SW-846 6010A	37.6 mg/Kg	7/11/95 R.D.
TOTAL MERCURY	SW-846 7471A	0.130 mg/Kg	7/14/95 D.S.
TOTAL SELENIUM	SW-846 6010A	<11.6 mg/Kg	7/11/95 R.D.
TOTAL SILVER	SW-846 6010A	<0.582 mg/Kg	7/11/95 R.D.

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

ENVIR NMETRICS
2345 Millpark Drive
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(314) 427-0550

`TTN: Sam Brenneke

INVOICE: 32923
PO: 10108
PROJECT NO: 2493.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB2-6 10:10
LAB ID: 9507000052-003
DATE COLLECTED: 07/06/95
DATE RECEIVED: 07/06/95 18:42

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<11.7 mg/Kg	7/11/95 R.D.
TOTAL BARIUM	SW-846 6010A	240 mg/Kg	7/11/95 R.D.
TOTAL CADMIUM	SW-846 6010A	0.761 mg/Kg	7/12/95 R.D.
TOTAL CHROMIUM	SW-846 6010A	9.49 mg/Kg	7/11/95 R.D.
TOTAL LEAD	SW-846 6010A	756 mg/Kg	7/11/95 R.D.
TOTAL MERCURY	SW-846 7471A	2.07 mg/Kg	7/14/95 D.S.
TOTAL SELENIUM	SW-846 6010A	<11.7 mg/Kg	7/11/95 R.D.
TOTAL SILVER	SW-846 6010A	0.6440 mg/Kg	7/11/95 R.D.

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

TTN: Sam Brenneke

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2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE: 32923
PO: 10108
PROJECT NO: 2493.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB2-12 10:30
LAB ID: 9507000052-004
DATE COLLECTED: 07/06/95
DATE RECEIVED: 07/06/95 18:42

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.6 mg/Kg	7/11/95 R.D.
TOTAL BARIUM	SW-846 6010A	85.0 mg/Kg	7/11/95 R.D.
TOTAL CADMIUM	SW-846 6010A	0.508 mg/Kg	7/12/95 R.D.
TOTAL CHROMIUM	SW-846 6010A	12.9 mg/Kg	7/11/95 R.D.
TOTAL LEAD	SW-846 6010A	44.1 mg/Kg	7/11/95 R.D.
TOTAL MERCURY	SW-846 7471A	0.500 mg/Kg	7/14/95 D.S.
TOTAL SELENIUM	SW-846 6010A	<12.6 mg/Kg	7/11/95 R.D.
TOTAL SILVER	SW-846 6010A	<0.634 mg/Kg	7/11/95 R.D.

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INVOICE: 32923
PO: 10108
PROJECT NO: 2493.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB3-5 12:10
LAB ID: 9507000052-005
DATE COLLECTED: 07/06/95
DATE RECEIVED: 07/06/95 18:43

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.6 mg/Kg	7/11/95 R.D.
TOTAL BARIUM	SW-846 6010A	116 mg/Kg	7/11/95 R.D.
TOTAL CADMIUM	SW-846 6010A	1.83 mg/Kg	7/12/95 R.D.
TOTAL CHROMIUM	SW-846 6010A	15.2 mg/Kg	7/11/95 R.D.
TOTAL LEAD	SW-846 6010A	39.8 mg/Kg	7/11/95 R.D.
TOTAL MERCURY	SW-846 7471A	0.270 mg/Kg	7/14/995 D.S.
TOTAL SELENIUM	SW-846 6010A	<12.6 mg/Kg	7/11/95 R.D.
TOTAL SILVER	SW-846 6010A	<0.629 mg/Kg	7/11/95 R.D.

Geotechnology, Inc.
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ITN: Sam Brenneke

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(314) 427-0550

INVOICE: 32923
PO: 10108
PROJECT NO: 2493.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB3-8 12:25
LAB ID: 9507000052-006
DATE COLLECTED: 07/06/95
DATE RECEIVED: 07/06/95 18:43

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.3 mg/Kg	7/11/95 R.D.
TOTAL BARIUM	SW-846 6010A	67.3 mg/Kg	7/11/95 R.D.
TOTAL CADMIUM	SW-846 6010A	1.23 mg/Kg	7/12/95 R.D.
TOTAL CHROMIUM	SW-846 6010A	9.38 mg/Kg	7/11/95 R.D.
TOTAL LEAD	SW-846 6010A	13.8 mg/Kg	7/11/95 R.D.
TOTAL MERCURY	SW-846 7471A	0.260 mg/Kg	7/14/95 D.S.
TOTAL SELENIUM	SW-846 6010A	<12.3 mg/Kg	7/11/95 R.D.
TOTAL SILVER	SW-846 6010A	<0.617 mg/Kg	7/11/95 R.D.

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

ATTN: Sam Brenneke

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE: 32923
PO: 10108
PROJECT NO: 2493.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB3-11.5 12:45 MS / MSD
LAB ID: 9507000052-007
DATE COLLECTED: 07/06/95
DATE RECEIVED: 07/06/95 18:44

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.0 mg/Kg	7/11/95 R.D.
TOTAL BARIUM	SW-846 6010A	132 mg/Kg	7/11/95 R.D.
TOTAL CADMIUM	SW-846 6010A	1.51 mg/Kg	7/12/95 R.D.
TOTAL CHROMIUM	SW-846 6010A	11.6 mg/Kg	7/11/95 R.D.
TOTAL LEAD	SW-846 6010A	140 mg/Kg	7/11/95 R.D.
TOTAL MERCURY	SW-846 7471A	0.570 mg/Kg	7/14/95 D.S.
TOTAL SELENIUM	SW-846 6010A	<12.0 mg/Kg	7/11/95 R.D.
TOTAL SILVER	SW-846 6010A	<0.602 mg/Kg	7/11/95 R.D.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32923
PO # 10108
PROJECT # 2498.03.4120.0005, HUBERT WHEELER STATE SCHOOL

QUALITY ASSURANCE QUALITY CONTROL REPORT

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
ICP/AA WATER

SAMPLE ID: SB3-11.5
LAB ID: 9507/052-007

ELEMENT	SAMPLE RESULT (mg/l)	SPIKE LEVEL (mg/l)	SPIKE RESULT (mg/l)	% REC.	DUPLICATE RESULT (mg/l)	% REC.	RPD
ARSENIC	<12.0	480	419	87	420	88	1
BARIUM	132	480	561	89	552	88	1
CADMIUM	1.51	12	11.0	79	11.0	79	0
CHROMIUM	11.6	48	50.6	81	51.3	83	2
LEAD	140	120	311	142	340	167	25
MERCURY	0.57	1.2	1.48	76	1.43	72	4
SELENIUM	<12.0	480	431	90	434	90	0
SILVER	<0.602	12	10.8	90	11.2	93	3

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

ATTN: Sam Brenneke

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE: 32923
PO: 10108
PROJECT NO: 2493.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB3-15.5 12:55
LAB ID: 9507000052-008
DATE COLLECTED: 07/06/95
DATE RECEIVED: 07/06/95 18:45

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.5 mg/Kg	7/11/95 R.D.
TOTAL BARIUM	SW-846 6010A	207 mg/Kg	7/11/95 R.D.
TOTAL CADMIUM	SW-846 6010A	1.39 mg/Kg	7/12/95 R.D.
TOTAL CHROMIUM	SW-846 6010A	12.4 mg/Kg	7/11/95 R.D.
TOTAL LEAD	SW-846 6010A	80.9 mg/Kg	7/11/95 R.D.
TOTAL MERCURY	SW-846 7471A	0.590 mg/Kg	7/14/95 D.S.
TOTAL SELENIUM	SW-846 6010A	<12.5 mg/Kg	7/11/95 R.D.
TOTAL SILVER	SW-846 6010A	<0.627 mg/Kg	7/11/95 R.D.

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

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INVOICE: 32923
PO: 10108
PROJECT NO: 2493.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB4-5 14:40
LAB ID: 9507000052-009
DATE COLLECTED: 07/06/95
DATE RECEIVED: 07/06/95 18:46

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<11.8 mg/Kg	7/11/95 R.D.
TOTAL BARIUM	SW-846 6010A	165 mg/Kg	7/11/95 R.D.
TOTAL CADMIUM	SW-846 6010A	1.43 mg/Kg	7/12/95 R.D.
TOTAL CHROMIUM	SW-846 6010A	12.2 mg/Kg	7/11/95 R.D.
TOTAL LEAD	SW-846 6010A	115 mg/Kg	7/11/95 R.D.
TOTAL MERCURY	SW-846 7471A	0.270 mg/Kg	7/14/95 D.S.
TOTAL SELENIUM	SW-846 6010A	<11.8 mg/Kg	7/11/95 R.D.
TOTAL SILVER	SW-846 6010A	<0.593 mg/Kg	7/11/95 R.D.

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

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(314) 427-0550

INVOICE: 32923
PO: 10108
PROJECT NO: 2493.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB4-13 15:00
LAB ID: 9507000052-010
DATE COLLECTED: 07/06/95
DATE RECEIVED: 07/06/95 18:47

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<11.1 mg/Kg	7/11/95 R.D.
TOTAL BARIUM	SW-846 6010A	18.4 mg/Kg	7/11/95 R.D.
TOTAL CADMIUM	SW-846 6010A	0.502 mg/Kg	7/12/95 R.D.
TOTAL CHROMIUM	SW-846 6010A	2.57 mg/Kg	7/11/95 R.D.
TOTAL LEAD	SW-846 6010A	64.1 mg/Kg	7/11/95 R.D.
TOTAL MERCURY	SW-846 7471A	0.190 mg/Kg	7/14/95 R.D.
TOTAL SELENIUM	SW-846 6010A	<11.1 mg/Kg	7/11/95 R.D.
TOTAL SILVER	SW-846 6010A	<0.557 mg/Kg	7/11/95 R.D.

Geotechnology, Inc.
2258 Grissom Drive
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INVOICE: 32923
PO: 10108
PROJECT NO: 2493.03.4120.0005, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB4-18.5 15:15
LAB ID: 9507000052-011
DATE COLLECTED: 07/06/95
DATE RECEIVED: 07/06/95 18:48

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.6 mg/Kg	7/11/95 R.D.
TOTAL BARIUM	SW-846 6010A	45.5 mg/Kg	7/11/95 R.D.
TOTAL CADMIUM	SW-846 6010A	5.57 mg/Kg	7/12/95 R.D.
TOTAL CHROMIUM	SW-846 6010A	9.92 mg/Kg	7/11/95 R.D.
TOTAL LEAD	SW-846 6010A	33.6 mg/Kg	7/11/95 R.D.
TOTAL MERCURY	SW-846 7471A	0.160 mg/Kg	7/14/95 D.S.
TOTAL SELENIUM	SW-846 6010A	<12.6 mg/Kg	7/11/95 R.D.
TOTAL SILVER	SW-846 6010A	<0.632 mg/Kg	7/11/95 D.S.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32923
PO # 10108
PROJECT # 2498.03.4020.0005, HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

SAMPLE ID: METHOD BLANK
LAB ID: VBBLK191A

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/l	U µg/l
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/10/95
ANALYST : L.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32923
PO # 10108
PROJECT # 2498.03.4020.0005, HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

SAMPLE ID: METHOD BLANK
LAB ID: VBBLK191A

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/10/95
ANALYST : L.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32923
PO # 10108
PROJECT # 2498.03.4020.0005, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: VBBLK192A

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/11/95
ANALYST : L.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

E V RO _ _ETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32923
PO # 10108
PROJECT # 2498.03.4020.0005, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB-TB: 7-6-95
LAB ID: 9507/052-001

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/l	U µg/l
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/06/95
DATE RECEIVED : 7/06/95 18:48
DATE ANALYZED : 7/11/95
ANALYST : L.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32923
PO # 10108
PROJECT # 2498.03.4020.0005, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB2-12
LAB ID: 9507/052-004

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/06/95 10:30
DATE RECEIVED : 7/06/95 18:48
DATE ANALYZED : 7/10/95
ANALYST : L.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32923
PO # 10108
PROJECT # 2498.03.4020.0005, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB3-11.5
LAB ID: 9507/052-007

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/06/95 12:45
DATE RECEIVED : 7/06/95 18:48
DATE ANALYZED : 7/10/95
ANALYST : L.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32923
PO # 10108
PROJECT # 2498.03.4020.0005, HUBERT WHEELER STATE SCHOOL

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

SAMPLE ID: SB3-11.5
LAB ID: 9507/052-007

COMPOUND	SPIKE ADDED (µg/kg)	SAMPLE CONC. (µg/kg)	MS CONC. (µg/kg)	MS % REC	#	QC LIMITS REC.
1,1-Dichloroethene	50	U	28	56	*	59-172
Trichloroethene	50	U	41	82		62-137
Benzene	50	U	44	88		60-133
Toluene	50	U	46	92		59-139
Chlorobenzene	50	U	44	88		66-142

COMPOUND	SPIKE ADDED (µg/kg)	MSD CONC. (µg/kg)	MSD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	50	26	52	*	4		22	59-172
Trichloroethene	50	37	74		8		24	62-137
Benzene	50	44	88		0		21	60-133
Toluene	50	43	86		6		21	59-139
Chlorobenzene	50	43	86		2		21	66-142

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 2 out of 10 outside limits

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ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32923
PO # 10108
PROJECT # 2498.03.4020.0005, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB4-5
LAB ID: 9507/052-009

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/06/95 14:40
DATE RECEIVED : 7/06/95 18:48
DATE ANALYZED : 7/11/95
ANALYST : L.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32923
PO # 10108
PROJECT # 2498.03.4020.0005, HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANIC SURROGATE RECOVERY FORM

LAB_ID	SAMPLE_IDENTIFICATION	S1 1,2-DCA-d4	S2 TOL-d8	S3 BFB
VBBLK191A	METHOD BLANK	108	100	91
VBBLK192A	METHOD BLANK	108	101	93
9507/052-001	SB-TB:7-6-95	78	102	107
9507/052-004	SB2-12	109	101	86
9507/052-007	SB3-11.5	110	104	90
9507/052-009	SB4-5	118	98	97

S1 - 1,2-DICHORORETHANE-d4

S2 - TOLUENE-d8

S3 - BROMOFLUOROBENZENE

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ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

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Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32923
PO # 10108
PROJECT # 2498.03.4020.0005, HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANICS LAB CONTROL SPIKE

SAMPLE ID: LCS
LAB ID: VDLCS192A

COMPOUND	CONC	SPIKE	PERCENT RECOVERY
1,1-Dichloroethene	54	50	108
Trichloroethene	50	50	100
Benzene	50	50	100
Toluene	48	50	96
Chlorobenzene	50	50	100

SAMPLE ID: LCS
LAB ID: VDLCS191A

COMPOUND	CONC	SPIKE	PERCENT RECOVERY
1,1-Dichloroethene	51	50	101
Trichloroethene	52	50	104
Benzene	53	50	107
Toluene	52	50	104
Chlorobenzene	67	50	134

SAMPLE ID: LCS
LAB ID: VDLCS191A

COMPOUND	CONC	SPIKE	PERCENT RECOVERY
1,1-Dichloroethene	53	50	106
Trichloroethene	51	50	102
Benzene	49	50	98
Toluene	49	50	98
Chlorobenzene	49	50	98

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GEOTECHNOLOGY, INC.
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ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32923 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10108 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6527

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	330 µg/kg	U µg/kg
108-95-2	Phenol	330	U
111-44-4	bis(2-chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	o-Cresol	330	U
39638-32-9	bis-(2-Chloro2propyl)Ether	330	U
106-44-5	m & p-Cresol	330	U
621-64-7	N-Nitroso-Di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	1,700	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1,700	U
131-11-3	Dimethylphthalate	330	U
103-33-3	Azobenzene	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1,700	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1,700	U

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2258 GRISSOM DRIVE
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ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32923 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10108 **METHOD SW-846 8270**
PROJECT # 2498.03.5120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6527

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,700 µg/kg	U µg/kg
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenol phenyl ether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1,700	U
534-52-1	4,6-Dinitro-2-methylphenol	1,700	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1,700	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
92-87-4	Benzidine	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE EXTRACTED : 7/11/95
DATE ANALYZED : 7/14/95
ANALYST : D.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32923 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10108 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB2-2
LAB ID: 9507/052-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	380 µg/kg	U µg/kg
108-95-2	Phenol	380	U
111-44-4	bis(2-chloroethyl)Ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
100-51-6	Benzyl Alcohol	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	o-Cresol	380	U
39638-32-9	bis-(2-Chloro2propyl)Ether	380	U
106-44-5	m & p-Cresol	380	U
621-64-7	N-Nitroso-Di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
65-85-0	Benzoic Acid	1,900	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	1,900	U
131-11-3	Dimethylphthalate	380	U
103-33-3	Azobenzene	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	1,900	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	1,900	U

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(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32923 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10108 **METHOD SW-846 8270**
PROJECT # 2498.03.5120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB2-2
LAB ID: 9507/052-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,900 µg/kg	U µg/kg
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenol phenyl ether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	1,900	U
534-52-1	4,6-Dinitro-2-methylphenol	1,900	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl phenyl ether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1,900	U
85-01-8	Phenanthrene	380	860
120-12-7	Anthracene	380	U
84-74-2	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	1,400
92-87-4	Benzidine	380	U
129-00-0	Pyrene	380	1,060
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	510
218-01-9	Chrysene	380	660
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	730
207-08-9	Benzo(k)fluoranthene	380	800
50-32-8	Benzo(a)pyrene	380	460
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

U = UNDETECTED
B = PRESENT IN BLANK
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DATE COLLECTED : 7/06/95 09:55
DATE RECEIVED : 7/06/95 18:48
DATE EXTRACTED : 7/11/95
DATE ANALYZED : 7/14/95
ANALYST : D.C.

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2345 Millpark Drive
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(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32923 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10108 METHOD SW-846 8270
PROJECT # 2498.03.4120.05 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB2-6
LAB ID: 9507/052-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	770 µg/kg	U µg/kg
108-95-2	Phenol	770	U
111-44-4	bis(2-chloroethyl)Ether	770	U
95-57-8	2-Chlorophenol	770	U
541-73-1	1,3-Dichlorobenzene	770	U
106-46-7	1,4-Dichlorobenzene	770	U
100-51-6	Benzyl Alcohol	770	U
95-50-1	1,2-Dichlorobenzene	770	U
95-48-7	o-Cresol	770	U
39638-32-9	bis-(2-Chloro2propyl)Ether	770	U
106-44-5	m & p-Cresol	770	U
621-64-7	N-Nitroso-Di-n-propylamine	770	U
67-72-1	Hexachloroethane	770	U
98-95-3	Nitrobenzene	770	U
78-59-1	Isophorone	770	U
88-75-5	2-Nitrophenol	770	U
105-67-9	2,4-Dimethylphenol	770	U
65-85-0	Benzoic Acid	3,900	U
111-91-1	bis(2-Chloroethoxy)methane	770	U
120-83-2	2,4-Dichlorophenol	770	U
120-82-1	1,2,4-Trichlorobenzene	770	U
91-20-3	Naphthalene	770	U
106-47-8	4-Chloroaniline	770	U
87-68-3	Hexachlorobutadiene	770	U
59-50-7	4-Chloro-3-methylphenol	770	U
91-57-6	2-Methylnaphthalene	770	U
77-47-4	Hexachlorocyclopentadiene	770	U
88-06-2	2,4,6-Trichlorophenol	770	U
95-95-4	2,4,5-Trichlorophenol	770	U
91-58-7	2-Chloronaphthalene	770	U
88-74-4	2-Nitroaniline	3,900	U
131-11-3	Dimethylphthalate	770	U
103-33-3	Azobenzene	770	U
208-96-8	Acenaphthylene	770	U
606-20-2	2,6-Dinitrotoluene	770	U
99-09-2	3-Nitroaniline	3,900	U
83-32-9	Acenaphthene	770	1,200
51-28-5	2,4-Dinitrophenol	3,900	U

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(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32923 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10108 METHOD SW-846 8270
PROJECT # 2498.03.5120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB2-6
LAB ID: 9507/052-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	3,900 µg/kg	U µg/kg
132-64-9	Dibenzofuran	770	U
121-14-2	2,4-Dinitrotoluene	770	U
84-66-2	Diethylphthalate	770	U
7005-72-3	4-Chlorophenol phenyl ether	770	U
86-73-7	Fluorene	770	1,200
100-01-6	4-Nitroaniline	3,900	U
534-52-1	4,6-Dinitro-2-methylphenol	3,900	U
86-30-6	N-Nitrosodiphenylamine	770	U
101-55-3	4-Bromophenyl phenyl ether	770	U
118-74-1	Hexachlorobenzene	770	U
87-86-5	Pentachlorophenol	3,900	U
85-01-8	Phenanthrene	770	11,000
120-12-7	Anthracene	770	3,400
84-74-2	Carbazole	770	1,600
84-74-2	Di-n-butylphthalate	770	U
206-44-0	Fluoranthene	7,700	19,000
92-87-4	Benzidine	770	U
129-00-0	Pyrene	7,700	14,000
85-68-7	Butylbenzylphthalate	770	U
91-94-1	3,3'-Dichlorobenzidine	770	U
56-55-3	Benzo(a)anthracene	770	7,900
218-01-9	Chrysene	770	6,200
117-81-7	bis(2-Ethylhexyl)phthalate	770	U
117-84-0	Di-n-octylphthalate	770	U
205-99-2	Benzo(b)fluoranthene	770	9,200
207-08-9	Benzo(k)fluoranthene	770	2,800
50-32-8	Benzo(a)pyrene	770	7,000
193-39-5	Indeno(1,2,3-cd)pyrene	770	2,200
53-70-3	Dibenzo(a,h)anthracene	770	U
191-24-2	Benzo(g,h,i)perylene	770	2,100

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/06/95 10:10
DATE RECEIVED : 7/06/95 18:48
DATE EXTRACTED : 7/11/95
DATE ANALYZED : 7/14 & 15/95
ANALYST : D.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

E V RO _ _ETR CS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32923 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10108 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB2-12
LAB ID: 9507/052-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	420 µg/kg	U µg/kg
108-95-2	Phenol	420	U
111-44-4	bis(2-chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	o-Cresol	420	U
39638-32-9	bis-(2-Chloro2propyl)Ether	420	U
106-44-5	m & p-Cresol	420	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	420	U
103-33-3	Azobenzene	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2,100	U

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32923 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10108 **METHOD SW-846 8270**
PROJECT # 2498.03.5120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB2-12
LAB ID: 9507/052-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenol phenyl ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
84-74-2	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	480
206-44-0	Fluoranthene	420	U
92-87-4	Benzidine	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/06/95 10:30
DATE RECEIVED : 7/06/95 18:48
DATE EXTRACTED : 7/11/95
DATE ANALYZED : 7/13/95
ANALYST : D.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

E V RON_ _ETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32923 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10108 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB3-5
LAB ID: 9507/052-005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	420 µg/kg	U µg/kg
108-95-2	Phenol	420	U
111-44-4	bis(2-chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	o-Cresol	420	U
39638-32-9	bis-(2-Chloro2propyl)Ether	420	U
106-44-5	m & p-Cresol	420	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	420	U
103-33-3	Azobenzene	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2,100	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

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2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32923 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10108 **METHOD SW-846 8270**
PROJECT # 2498.03.5120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB3-5
LAB ID: 9507/052-005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenol phenyl ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
84-74-2	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
92-87-4	Benzidine	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/06/95 12:10
DATE RECEIVED : 7/06/95 18:48
DATE EXTRACTED : 7/11/95
DATE ANALYZED : 7/13/95
ANALYST : D.C.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32923 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10108 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB3-8
LAB ID: 9507/052-006

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	2,000	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32923 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10108 **METHOD SW-846 8270**
PROJECT # 2498.03.5120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB3-8
LAB ID: 9507/052-006

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
84-74-2	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
92-87-4	Benzidine	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/06/95 12:25
DATE RECEIVED : 7/06/95 18:48
DATE EXTRACTED : 7/11/95
DATE ANALYZED : 7/19/95
ANALYST : D.C.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32923 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10108 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB3-11.5
LAB ID: 9507/052-007

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 µg/kg	U µg/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	920
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	740
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	420
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	930
51-28-5	2,4-Dinitrophenol	2,000	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32923 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10108 **METHOD SW-846 8270**
PROJECT # 2498.03.5120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB3-11.5
LAB ID: 9507/052-007

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	600
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	1,100
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	2,000	13,000
120-12-7	Anthracene	400	2,900
84-74-2	Carbazole	400	1,300
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	2,000	15,000
92-87-4	Benzidine	400	U
129-00-0	Pyrene	2,000	13,000
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	2,000	6,100
218-01-9	Chrysene	400	4,900
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	2,000	6,600
207-08-9	Benzo(k)fluoranthene	400	1,010
50-32-8	Benzo(a)pyrene	400	5,500
193-39-5	Indeno(1,2,3-cd)pyrene	400	1,700
53-70-3	Dibenzo(a,h)anthracene	400	530
191-24-2	Benzo(g,h,i)perylene	400	1,700

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/06/95 12:45
DATE RECEIVED : 7/06/95 18:48
DATE EXTRACTED : 7/11/95
DATE ANALYZED : 7/14 & 15/95
ANALYST : D.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
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INVOICE # 32923 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10108 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB3-15.5
LAB ID: 9507/052-008

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	420 µg/kg	U µg/kg
108-95-2	Phenol	420	U
111-44-4	bis(2-chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	o-Cresol	420	U
39638-32-9	bis-(2-Chloro2propyl)Ether	420	U
106-44-5	m & p-Cresol	420	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	4,200	8,200
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	3,700
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	420	U
103-33-3	Azobenzene	420	U
208-96-8	Acenaphthylene	420	1,500
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	420	3,600
51-28-5	2,4-Dinitrophenol	2,100	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 32923 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10108 **METHOD SW-846 8270**
PROJECT # 2498.03.5120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB3-15.5
LAB ID: 9507/052-008

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	420	3,900
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenol phenyl ether	420	U
86-73-7	Fluorene	420	4,800
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	4,200	33,000
120-12-7	Anthracene	4,200	9,100
84-74-2	Carbazole	420	5,500
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	4,200	30,000
92-87-4	Benzidine	420	U
129-00-0	Pyrene	4,200	23,000
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	4,200	11,000
218-01-9	Chrysene	4,200	10,500
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	4,200	11,000
207-08-9	Benzo(k)fluoranthene	420	2,800
50-32-8	Benzo(a)pyrene	4,200	9,800
193-39-5	Indeno(1,2,3-cd)pyrene	420	3,800
53-70-3	Dibenzo(a,h)anthracene	420	1,100
191-24-2	Benzo(g,h,i)perylene	420	3,700

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/06/95 12:55
DATE RECEIVED : 7/06/95 18:48
DATE EXTRACTED : 7/11/95
DATE ANALYZED : 7/15 & 19/95
ANALYST : D.C.

E V RO _ _ T CS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 32923 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10108 METHOD SW-846 8270
PROJECT # 2498.03.4120.05 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB4-5
LAB ID: 9507/052-009

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	1,600 µg/kg	U µg/kg
108-95-2	Phenol	1,600	U
111-44-4	bis(2-chloroethyl)Ether	1,600	U
95-57-8	2-Chlorophenol	1,600	U
541-73-1	1,3-Dichlorobenzene	1,600	U
106-46-7	1,4-Dichlorobenzene	1,600	U
100-51-6	Benzyl Alcohol	1,600	U
95-50-1	1,2-Dichlorobenzene	1,600	U
95-48-7	o-Cresol	1,600	U
39638-32-9	bis-(2-Chloro2propyl)Ether	1,600	U
106-44-5	m & p-Cresol	1,600	U
621-64-7	N-Nitroso-Di-n-propylamine	1,600	U
67-72-1	Hexachloroethane	1,600	U
98-95-3	Nitrobenzene	1,600	U
78-59-1	Isophorone	1,600	U
88-75-5	2-Nitrophenol	1,600	U
105-67-9	2,4-Dimethylphenol	1,600	U
65-85-0	Benzoic Acid	7,900	U
111-91-1	bis(2-Chloroethoxy)methane	1,600	U
120-83-2	2,4-Dichlorophenol	1,600	U
120-82-1	1,2,4-Trichlorobenzene	1,600	U
91-20-3	Naphthalene	1,600	U
106-47-8	4-Chloroaniline	1,600	U
87-68-3	Hexachlorobutadiene	1,600	U
59-50-7	4-Chloro-3-methylphenol	1,600	U
91-57-6	2-Methylnaphthalene	1,600	U
77-47-4	Hexachlorocyclopentadiene	1,600	U
88-06-2	2,4,6-Trichlorophenol	1,600	U
95-95-4	2,4,5-Trichlorophenol	1,600	U
91-58-7	2-Chloronaphthalene	1,600	U
88-74-4	2-Nitroaniline	7,900	U
131-11-3	Dimethylphthalate	1,600	U
103-33-3	Azobenzene	1,600	U
208-96-8	Acenaphthylene	1,600	U
606-20-2	2,6-Dinitrotoluene	1,600	U
99-09-2	3-Nitroaniline	7,900	U
83-32-9	Acenaphthene	1,600	U
51-28-5	2,4-Dinitrophenol	7,900	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32923 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10108 **METHOD SW-846 8270**
PROJECT # 2498.03.5120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB4-5
LAB ID: 9507/052-009

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	7,900 µg/kg	U µg/kg
132-64-9	Dibenzofuran	1,600	U
121-14-2	2,4-Dinitrotoluene	1,600	U
84-66-2	Diethylphthalate	1,600	U
7005-72-3	4-Chlorophenol phenyl ether	1,600	U
86-73-7	Fluorene	1,600	U
100-01-6	4-Nitroaniline	7,900	U
534-52-1	4,6-Dinitro-2-methylphenol	7,900	U
86-30-6	N-Nitrosodiphenylamine	1,600	U
101-55-3	4-Bromophenyl phenyl ether	1,600	U
118-74-1	Hexachlorobenzene	1,600	U
87-86-5	Pentachlorophenol	7,900	U
85-01-8	Phenanthrene	1,600	5,700
120-12-7	Anthracene	1,600	U
84-74-2	Carbazole	1,600	U
84-74-2	Di-n-butylphthalate	1,600	U
206-44-0	Fluoranthene	1,600	6,400
92-87-4	Benzidine	1,600	U
129-00-0	Pyrene	1,600	6,600
85-68-7	Butylbenzylphthalate	1,600	U
91-94-1	3,3'-Dichlorobenzidine	1,600	U
56-55-3	Benzo(a)anthracene	1,600	2,500
218-01-9	Chrysene	1,600	2,800
117-81-7	bis(2-Ethylhexyl)phthalate	1,600	U
117-84-0	Di-n-octylphthalate	1,600	U
205-99-2	Benzo(b)fluoranthene	1,600	3,300
207-08-9	Benzo(k)fluoranthene	1,600	U
50-32-8	Benzo(a)pyrene	1,600	2,300
193-39-5	Indeno(1,2,3-cd)pyrene	1,600	U
53-70-3	Dibenzo(a,h)anthracene	1,600	U
191-24-2	Benzo(g,h,i)perylene	1,600	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/06/95 14:40
DATE RECEIVED : 7/06/95 18:48
DATE EXTRACTED : 7/11/95
DATE ANALYZED : 7/15/95
ANALYST : D.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

E V RO _ETR CS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32923 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10108 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB4-13
LAB ID: 9507/052-010

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	380 µg/kg	U µg/kg
108-95-2	Phenol	380	U
111-44-4	bis(2-chloroethyl)Ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
100-51-6	Benzyl Alcohol	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	o-Cresol	380	U
39638-32-9	bis-(2-Chloro2propyl)Ether	380	U
106-44-5	m & p-Cresol	380	U
621-64-7	N-Nitroso-Di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
65-85-0	Benzoic Acid	1,900	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	1,900	U
131-11-3	Dimethylphthalate	380	U
103-33-3	Azobenzene	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	1,900	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	1,900	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32923 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10108 **METHOD SW-846 8270**
PROJECT # 2498.03.5120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB4-13
LAB ID: 9507/052-010

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,900 µg/kg	U µg/kg
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenol phenyl ether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	1,900	U
534-52-1	4,6-Dinitro-2-methylphenol	1,900	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl phenyl ether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1,900	U
85-01-8	Phenanthrene	380	810
120-12-7	Anthracene	380	U
84-74-2	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	870
92-87-4	Benzidine	380	U
129-00-0	Pyrene	380	840
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	380
218-01-9	Cnrysene	380	580
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	510
207-08-9	Benzo(k)fluoranthene	380	780
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/06/95 15:00
DATE RECEIVED : 7/06/95 18:48
DATE EXTRACTED : 7/11/95
DATE ANALYZED : 7/13/95
ANALYST : D.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

E V RO _ _ETR CS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32923 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10108 METHOD SW-846 8270
PROJECT # 2498.03.4120.05 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB4-18.5
LAB ID: 9507/052-011

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	420 µg/kg	U µg/kg
108-95-2	Phenol	420	U
111-44-4	bis(2-chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	o-Cresol	420	U
39638-32-9	bis-(2-Chloro2propyl)Ether	420	U
106-44-5	m & p-Cresol	420	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	420	U
103-33-3	Azobenzene	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2,100	U

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32923 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10108 METHOD SW-846 8270
PROJECT # 2498.03.5120.05 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB4-18.5
LAB ID: 9507/052-011

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenol phenyl ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
84-74-2	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
92-87-4	Benzidine	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/06/95 15:15
DATE RECEIVED : 7/06/95 18:48
DATE EXTRACTED : 7/11/95
DATE ANALYZED : 7/13/95
ANALYST : D.C.

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 009338
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 07/06/95
Date Logged: 07/06/95
Status: Normal/LEVEL 4
Hubert Wheeler State School

Date Due (PM): 07/18/95 Proj #: 2498.03.4120.0005
Date Due (Client): 07/20/95 P.O. #: 10108
Mode: Mail Quot #:

Items Transferred	Relinquished By	Date	Time	Received By	Date	Time	Reason For Transfer
4	P Woods	7/6/95	6:00 PM	[illegible]	7/7/95	8:45	VOA
	[illegible]	7-7	11:30	[illegible]	7-7	11:30	Metals
	[illegible]	7-11	900	[illegible]	7-11-95	9:00 AM	[illegible]
4	[illegible]	7/12/95	1535	[illegible]	7-12	1535	Return
	[illegible]	7-18	8:20	[illegible]	7-18	8:20	return

GEOTECHNOLOGY, INC.
ENGINEERING & ENVIRONMENTAL SERVICES
ST. LOUIS KANSAS CITY INDIANAPOLIS

CHAIN OF CUSTODY RECORD

COC Record # 2197 P.O. # 10108

Project No. 2493.03.4120.05

Project Name: Hubert Wheeler State School

Shipper Name: Geotechnology, Inc

Address: 2258 Grissom Drive St. Louis MO 63146

Sampler's Signature: [signature] Telephone # 997-7440

Contact: Sam Brennecke Telephone # Same

Collectors Sample #	Date	Time	Sample Type	No. of Containers	Analysis	Remarks
SB-TB:7-6-95	7/6/95		Water	1-40 ml	Volatile Organics	Normal T.A.
SB2-2		0955	Soil	2-8oz	Semi Volatiles Total Metal	
SB2-6		1010		2-8oz	Semi Volatiles Total Metals	
SB2-12		1030		2-8oz 1-2oz	Semi Volatiles Total Metals Volatile Organics	
SB3-5		1210		2-8oz	Semi Volatiles, Total Metals	
SB3-8		1225		2-8oz	Semi Volatiles, Total Metals	
SB3-11.5		1245		2-8oz 1-2oz	Semi Volatiles, ~~do~~ Total Metals Volatiles	
SB3-15.5		1255		2-8oz	Semi Volatiles, Total Metals	
SB4-5		1440		2-8oz 1-2oz	Semi Volatiles, Total Metals Volatiles	
SB4-13		1500		2-8oz	Semi Volatiles, Total Metals	
SB4-18.5		1515		2-8oz	Semi Volatiles, Total Metals	

Receiver Name: Environmetrics, Inc St Louis MO
(Company Name and Address)

Chain of Possession:

From: [signature] 7/6/95 1700 To: [signature] 7/6/95 1700
(Name and Date/Time) (Name and Date/Time)

From: To:

White copy to Laboratory • Yellow copy to COC File • Pink copy to Job File

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 009338
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 07/06/95
Date Logged: 07/06/95
Status: Normal/LEVEL 4
Hubert Wheeler State School

Date Due (PM): 07/18/95 Proj #: 2493.03.4120.0005
Date Due (Client): 07/20/95 P.O. #: 10108
Mode: Mail Quot #:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests
TRIP BLANK 9507000052-001-01	SB-TB:7-6-95	WASTE WATER	1-40 ml VOA	Hydrochloric Acid	07/06/95		VOLATILE ORGANICS by GC/MS-SW-846 8240
	Sample Instructions:						
9507000052-002-01	SB2-2	SOIL	2-250 ml GLASS	Cold	07/06/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9507000052-003-01	SB2-6	SOIL	2-250 ml GLASS	Cold	07/06/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9507000052-004-01	SB2-12	SOIL	2-250 ml GLASS	Cold	07/06/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9507000052-004-02	SB2-12	SOIL	1-2 OZ VOA	Cold	07/06/95		VOLATILE ORGANICS by GC/MS-SW-846 8240
	Sample Instructions:						
9507000052-005-01	SB3-5	SOIL	2-250 ml GLASS	Cold	07/06/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9507000052-0(	SB3-8	SOIL	2-250 ml GL[illegible]	Cold	07/06/95		MERCURY-SW-846 7471A

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QUALITY ASSURANCE SUMMARY:

All Quality Assurance parameters (temperature upon receipt, holding times, spike recoveries, etc.) were within method specifications, with the exception of:

Due to a laboratory error Sample ID# SB5-8.5 EB was extracted for SW-846 method 8270 out of holding time.

Please note that the Total Pb results are reported on a dry weight basis.

If you have any questions regarding this report please do not hesitate to call: (314) 427-0550. Thank you for your business.

Sincerely,

Karen J. Coons

Project Manager

Attachments

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SB5-17 10:10	9507-076-005	7/07/95	Total(8)Metals, Semi-Volatiles
SB20-8.5-D1 9:40	9507-076-006	7/07/95	Total(8)Metals, Semi-Volatiles, Volatiles
SB6-3 12:45	9507-076-007	7/07/95	Total(8)Metals, Semi-Volatiles
SB6-9 13:00	9507-076-008	7/07/95	Total(8)Metals, Semi-Volatiles
SB6-12 13:05	9507-076-009	7/07/95	Total(8)Metals, Semi-Volatiles, Volatiles
SB6-20 13:15	9507-076-010	7/07/95	Total(8)Metals, Semi-Volatiles
SB7-5 15:10	9507-076-011	7/07/95	Total(8)Metals, Semi-Volatiles
SB7-9 15:20	9507-076-012	7/07/95	Total(8)Metals, Semi-Volatiles, Volatiles
SB7-11 15:25	9507-076-013	7/07/95	Total(8)Metals, Semi-Volatiles
SB7-18 15:30	9507-076-014	7/07/95	Total(8)Metals, Semi-Volatiles

Specific methods, extraction, preparation dates, and detection limits are noted on the individual reports attached.

REANALYSES, DILUTIONS, ETC.

The analytical data reflects the result of the initial analysis with out dilutions with the exception of:

For method SW-846 8270 there were elevated detection limits for samples Id.# SB5-13 and SB7-9 because of positive hits out of calibration range and matrix interferences.

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(314) 427-0550

INVOICE: 33001
PO: 10109
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB5-8.5-EB
LAB ID: 9507000076-001
DATE COLLECTED: 07/07/95 10:06
DATE RECEIVED: 07/07/95 19:43

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<0.200 mg/L	7/12/95 R.D.
TOTAL BARIUM	SW-846 6010A	0.0440 mg/L	
TOTAL CADMIUM	SW-846 6010A	0.00800 mg/L	
TOTAL CHROMIUM	SW-846 6010A	0.0130 mg/L	
TOTAL LEAD	SW-846 6010A	<0.100 mg/L	
TOTAL MERCURY	SW-846 7470A	<0.0002 mg/L	
TOTAL SELENIUM	SW-846 6010A	<0.200 mg/L	
TOTAL SILVER	SW-846 6010A	<0.010 mg/L	

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ATTN: SAM BRENNEKE

INVOICE # 33001
PO # 10109
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

PREPARATION BLANK
ICP/AA
(UNITS = mg/l)

PREP. CODE: MP-252-37
PREP. DATE: 7/10/95

ELEMENT	BLANK RESULT
ARSENIC	<0.200
BARIUM	<0.040
CADMIUM	<0.005
CHROMIUM	<0.010
MERCURY	<0.0002
LEAD	<0.100
SELENIUM	<0.200
SILVER	<0.010

LABORATORY CONTROL SAMPLE
ICP/AA
(UNITS = mg/l)

PREP. CODE: MP-252-37
PREP. DATE: 7/10/95

ELEMENT	VALUE	RESULT	PERCENT RECOVERY
ARSENIC	2.00	1.90	95
BARIUM	2.00	1.92	96
CADMIUM	0.50	0.459	92
CHROMIUM	0.50	0.482	96
LEAD	0.50	0.456	91
MERCURY	0.0020	0.00177	88
SELENIUM	2.00	1.94	97
SILVER	0.50	0.495	99

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PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB5-8.5
LAB ID: 9507000076-003
DATE COLLECTED: 07/07/95 09:40
DATE RECEIVED: 07/07/95 19:46

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.1 mg/Kg	7/12/95 R.D.
TOTAL BARIUM	SW-846 6010A	105 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.28 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	9.11 mg/Kg	
TOTAL LEAD	SW-846 6010A	51.5 mg/Kg	
TOTAL MERCURY	SW-846 7471A	1.03 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.1 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.607 mg/Kg	

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ANALYSIS RESULTS

SAMPLE ID: SB5-5
LAB ID: 9507000076-002
DATE COLLECTED: 07/07/95 09:20
DATE RECEIVED: 07/07/95 19:46

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.9 mg/Kg	7/12/95 R.D.
TOTAL BARIUM	SW-846 6010A	77.7 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	2.27 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	19.7 mg/Kg	
TOTAL LEAD	SW-846 6010A	22.1 mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.190 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.9 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.647 mg/Kg	

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ANALYSIS RESULTS

SAMPLE ID: SB5-13
LAB ID: 9507000076-004
DATE COLLECTED: 07/07/95 09:55
DATE RECEIVED: 07/07/95 19:47

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<11.7 mg/Kg	7/12/95 R.D.
TOTAL BARIUM	SW-846 6010A	136 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.34 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	7.94 mg/Kg	
TOTAL LEAD	SW-846 6010A	143 mg/Kg	
TOTAL MERCURY	SW-846 7471A	37.0 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<11.7 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.583 mg/Kg	

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ATTN: SAM BRENNEKE

INVOICE # 33001
PO # 10109
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

QUALITY ASSURANCE QUALITY CONTROL REPORT

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
ICP/AA WATER

SAMPLE ID: SB5-8.5
LAB ID: 9507/076-003

ELEMENT	SAMPLE RESULT (mg/l)	SPIKE LEVEL (mg/l)	SPIKE RESULT (mg/l)	% REC.	DUPLICATE RESULT (mg/l)	% REC.	RPD
ARSENIC	<12.1	483	416	86	422	87	1
BARIUM	105	483	544	91	546	91	0
CADMIUM	1.28	12	10.4	76	10.6	78	2
CHROMIUM	9.11	48	48.6	82	48.7	82	0
LEAD	51.5	121	181	107	170	98	9
MERCURY	1.03	1.2	2.29	105	2.29	105	0
SELENIUM	<12.1	483	394	82	395	82	0
SILVER	<0.607	12	10.7	89	10.9	91	2

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PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB20-8.5-D1
LAB ID: 9507000076-006
DATE COLLECTED: 07/07/95 09:40
DATE RECEIVED: 07/07/95 19:48

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.0 mg/Kg	7/12/95 R.D.
TOTAL BARIUM	SW-846 6010A	128 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.09 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	9.05 mg/Kg	
TOTAL LEAD	SW-846 6010A	100 mg/Kg	
TOTAL MERCURY	SW-846 7471A	1.30 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.0 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.603 mg/Kg	

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

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ANALYSIS RESULTS

SAMPLE ID: SB5-17
LAB ID: 9507000076-005
DATE COLLECTED: 07/07/95 10:10
DATE RECEIVED: 07/07/95 19:47

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	12.0 mg/Kg B	7/12/95 R.D.
TOTAL BARIUM	SW-846 6010A	257 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	3.30 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	14.0 mg/Kg	
TOTAL LEAD	SW-846 6010A	70.7 mg/Kg	
TOTAL MERCURY	SW-846 7471A	25.3 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<11.8 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.590 mg/Kg	

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

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ANALYSIS RESULTS

SAMPLE ID: SB6-9
LAB ID: 9507000076-008
DATE COLLECTED: 07/07/95 13:00
DATE RECEIVED: 07/07/95 19:49

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<11.5 mg/Kg	7/12/95 R.D.
TOTAL BARIUM	SW-846 6010A	66.5 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	0.746 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	5.45 mg/Kg	
TOTAL LEAD	SW-846 6010A	42.3 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.12 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<11.5 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.574 mg/Kg	

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

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ANALYSIS RESULTS

SAMPLE ID: SB6-3
LAB ID: 9507000076-007
DATE COLLECTED: 07/07/95 12:45
DATE RECEIVED: 07/07/95 19:49

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<10.7 mg/Kg	7/12/95 R.D.
TOTAL BARIUM	SW-846 6010A	39.2 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	0.537 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	5.10 mg/Kg	
TOTAL LEAD	SW-846 6010A	9.40 mg/Kg	
TOTAL MERCURY	SW-846 7471A	1.80 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<10.7 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.537 mg/Kg	

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

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ANALYSIS RESULTS

SAMPLE ID: SB6-20
LAB ID: 9507000076-010
DATE COLLECTED: 07/07/95 13:15
DATE RECEIVED: 07/07/95 19:51

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.5 mg/Kg	7/12/95 R.D.
TOTAL BARIUM	SW-846 6010A	122 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.25 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	15.4 mg/Kg	
TOTAL LEAD	SW-846 6010A	7.78 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.13 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.5 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.623 mg/Kg	

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

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ANALYSIS RESULTS

SAMPLE ID: SB6-12
LAB ID: 9507000076-009
DATE COLLECTED: 07/07/95 13:05
DATE RECEIVED: 07/07/95 19:50

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	15.0 mg/Kg B	7/12/95 R.D.
TOTAL BARIUM	SW-846 6010A	151 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.49 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	14.6 mg/Kg	
TOTAL LEAD	SW-846 6010A	157 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.14 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.4 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.621 mg/Kg	

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

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PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB7-9
LAB ID: 9507000076-012
DATE COLLECTED: 07/07/95 15:20
DATE RECEIVED: 07/07/95 19:52

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<11.3 mg/Kg	7/12/95 R.D.
TOTAL BARIUM	SW-846 6010A	14.5 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.07 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	5.24 mg/Kg	
TOTAL LEAD	SW-846 6010A	17.4 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.11 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<11.3 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.563 mg/Kg	

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PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB7-5
LAB ID: 9507000076-011
DATE COLLECTED: 07/07/95 15:10
DATE RECEIVED: 07/07/95 19:51

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.7 mg/Kg	7/12/95 R.D.
TOTAL BARIUM	SW-846 6010A	190 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	6.17 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	27.2 mg/Kg	
TOTAL LEAD	SW-846 6010A	13.2 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.13 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.7 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.636 mg/Kg	

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

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INVOICE: 33001
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ANALYSIS RESULTS

SAMPLE ID: SB7-18
LAB ID: 9507000076-014
DATE COLLECTED: 07/07/95 15:30
DATE RECEIVED: 07/07/95 19:53

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<11.9 mg/Kg	7/12/95 R.D.
TOTAL BARIUM	SW-846 6010A	<60.0 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	0.476 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	7.02 mg/Kg	
TOTAL LEAD	SW-846 6010A	14.2 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.13 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<11.9 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.595 mg/Kg	

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

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ANALYSIS RESULTS

SAMPLE ID: SB7-11
LAB ID: 9507000076-013
DATE COLLECTED: 07/07/95 15:25
DATE RECEIVED: 07/07/95 19:53

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<11.7 mg/Kg	7/12/95 R.D.
TOTAL BARIUM	SW-846 6010A	21.0 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	<0.294 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	3.11 mg/Kg	
TOTAL LEAD	SW-846 6010A	19.2 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.11 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<11.7 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.587 mg/Kg	

B = Reported value is greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

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ATTN: SAM BRENNEKE

INVOICE # 33001
PO # 10109
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: VBBLK193A

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/l	U µg/l
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/12/95
ANALYST : L.C.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001
PO # 10109
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: VDBLK192A

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/11/95
ANALYST : L.C.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001
PO # 10109
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB5-8.5
LAB ID: 9507/076-003

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/07/95 09:40
DATE RECEIVED : 7/07/95 19:53
DATE ANALYZED : 7/11/95
ANALYST : L.C.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001
PO # 10109
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB5-8.5-EB
LAB ID: 9507/076-001

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/l	U µg/l
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	120
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/07/95 10:06
DATE RECEIVED : 7/07/95 19:53
DATE ANALYZED : 7/12/95
ANALYST : L.C.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001
PO # 10109
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB20-8.5-D1
LAB ID: 9507/076-006

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/07/95 09:40
DATE RECEIVED : 7/07/95 19:53
DATE ANALYZED : 7/11/95
ANALYST : L.C.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001
PO # 10109
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

SAMPLE ID: SB5-8.5
LAB ID: 9507/052-003

COMPOUND	SPIKE ADDED (µg/kg)	SAMPLE CONC. (µg/kg)	MS CONC. (µg/kg)	MS % REC	#	QC LIMITS REC.
1,1-Dichloroethene	50	U	27	54	*	59-172
Trichloroethene	50	U	41	82		62-137
Benzene	50	U	46	92		60-133
Toluene	50	U	48	96		59-139
Chlorobenzene	50	U	48	96		66-142

COMPOUND	SPIKE ADDED (µg/kg)	MSD CONC. (µg/kg)	MSD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	50	29	58	*	4		22	59-172
Trichloroethene	50	43	86		4		24	62-137
Benzene	50	48	96		4		21	60-133
Toluene	50	54	108		12		21	59-139
Chlorobenzene	50	50	100		4		21	66-142

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 2 out of 10 outside limits

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001
PO # 10109
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB7-9
LAB ID: 9507/076-012

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/07/95 15:20
DATE RECEIVED : 7/07/95 19:53
DATE ANALYZED : 7/11/95
ANALYST : L.C.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001
PO # 10109
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB6-12
LAB ID: 9507/076-009

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	140
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/07/95 13:05
DATE RECEIVED : 7/07/95 19:53
DATE ANALYZED : 7/11/95
ANALYST : L.C.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001
PO # 10109
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANICS LAB CONTROL SPIKE

SAMPLE ID: LCS
LAB ID: VDLCS192A

COMPOUND	CONC	SPIKE	PERCENT RECOVERY
1,1-Dichloroethene	54	50	108
Benzene	50	50	100
Trichloroethene	50	50	100
Toluene	48	50	96
Chlorobenzene	50	50	100

SAMPLE ID: LCS
LAB ID: VBLCS193A

COMPOUND	CONC	SPIKE	PERCENT RECOVERY
1,1-Dichloroethene	53	50	105
Benzene	55	50	111
Trichloroethene	50	50	100
Toluene	50	50	100
Chlorobenzene	65	50	131

ENVIRON__ETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001
PO # 10109
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANIC SURROGATE RECOVERY FORM

LAB_ID	SAMPLE_IDENTIFICATION	S1 1,2-DCA-d4	S2 TOL-d8	S3 BFB
VBBLK192A	METHOD BLANK	108	101	93
VBBLK193A	METHOD BLANK	87	109	101
9507/076-001	SB5-8.5-EB	96	101	97
9507/076-003	SB5-8.5	108	101	96
9507/076-006	SB20-8.5-D1	114	108	97
9507/076-009	SB6-12	119	104	74
9507/076-012	SB7-9	121	86	99

S1 - 1,2-DICHORORETHANE-d4

S2 - TOLUENE-d8

S3 - BROMOFLUOROBENZENE

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: WASBLK6583

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	50 µg/l	U µg/l
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenol phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-4	Benzidine	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE EXTRACTED : 7/24/95
DATE ANALYZED : 7/24/95
ANALYST : D.C.

ENVIRON__ETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: WASBLK6583

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	10 µg/l	U µg/l
108-95-2	Phenol	10	U
111-44-4	bis(2-chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	o-Cresol	10	U
39638-32-9	bis-(2-Chloro2propyl)Ether	10	U
106-44-5	m & p-Cresol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
103-33-3	Azobenzene	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB5-8.5-EB
LAB ID: 9507/076-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	50 µg/l	U µg/l
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenol phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-4	Benzidine	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/07/95 10:06
DATE RECEIVED : 7/07/95 19:53
DATE EXTRACTED : 7/24/95
DATE ANALYZED : 7/24/95
ANALYST : D.C.

ENVIRON__ETRICS
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
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ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6529

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	330 µg/kg	U µg/kg
108-95-2	Phenol	330	U
111-44-4	bis(2-chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	o-Cresol	330	U
39638-32-9	bis-(2-Chloro2propyl)Ether	330	U
106-44-5	m & p-Cresol	330	U
621-64-7	N-Nitroso-Di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	1,700	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1,700	U
131-11-3	Dimethylphthalate	330	U
103-33-3	Azobenzene	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1,700	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1,700	U

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ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB5-5
LAB ID: 9507/076-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,200 µg/kg	U µg/kg
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenol phenyl ether	430	U
86-73-7	Fluorene	430	U
100-01-6	4-Nitroaniline	2,200	U
534-52-1	4,6-Dinitro-2-methylphenol	2,200	U
86-30-6	N-Nitrosodiphenylamine	430	U
101-55-3	4-Bromophenyl phenyl ether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	2,200	U
85-01-8	Phenanthrene	430	U
120-12-7	Anthracene	430	U
84-74-2	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	430	U
92-87-4	Benzidine	430	U
129-00-0	Pyrene	430	U
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	430	U
218-01-9	Chrysene	430	U
117-81-7	bis(2-Ethylhexyl)phthalate	430	U
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	430	U
207-08-9	Benzo(k)fluoranthene	430	U
50-32-8	Benzo(a)pyrene	430	U
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	430	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/07/95 09:20
DATE RECEIVED : 7/07/95 19:53
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/15/95
ANALYST : D.C.

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB5-8.5
LAB ID: 9507/076-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 µg/kg	U µg/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	2,000	U

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2345 Millpark Drive
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB5-8.5
LAB ID: 9507/076-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	400	2,700
120-12-7	Anthracene	400	550
84-74-2	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	4,500
92-87-4	Benzidine	400	U
129-00-0	Pyrene	400	3,100
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	1,700
218-01-9	Chrysene	400	1,700
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	2,200
207-08-9	Benzo(k)fluoranthene	400	870
50-32-8	Benzo(a)pyrene	400	1,600
193-39-5	Indeno(1,2,3-cd)pyrene	400	760
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	810

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/07/95 09:40
DATE RECEIVED : 7/07/95 19:53
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/17/95
ANALYST : D.C.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB5-13
LAB ID: 9507/076-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	1,900 µg/kg	U µg/kg
108-95-2	Phenol	1,900	U
111-44-4	bis(2-chloroethyl)Ether	1,900	U
95-57-8	2-Chlorophenol	1,900	U
541-73-1	1,3-Dichlorobenzene	1,900	U
106-46-7	1,4-Dichlorobenzene	1,900	U
100-51-6	Benzyl Alcohol	1,900	U
95-50-1	1,2-Dichlorobenzene	1,900	U
95-48-7	o-Cresol	1,900	U
39638-32-9	bis-(2-Chloro2propyl)Ether	1,900	U
106-44-5	m & p-Cresol	1,900	U
621-64-7	N-Nitroso-Di-n-propylamine	1,900	U
67-72-1	Hexachloroethane	1,900	U
98-95-3	Nitrobenzene	1,900	U
78-59-1	Isophorone	1,900	U
88-75-5	2-Nitrophenol	1,900	U
105-67-9	2,4-Dimethylphenol	1,900	U
65-85-0	Benzoic Acid	9,600	U
111-91-1	bis(2-Chloroethoxy)methane	1,900	U
120-83-2	2,4-Dichlorophenol	1,900	U
120-82-1	1,2,4-Trichlorobenzene	1,900	U
91-20-3	Naphthalene	1,900	U
106-47-8	4-Chloroaniline	1,900	U
87-68-3	Hexachlorobutadiene	1,900	U
59-50-7	4-Chloro-3-methylphenol	1,900	U
91-57-6	2-Methylnaphthalene	1,900	U
77-47-4	Hexachlorocyclopentadiene	1,900	U
88-06-2	2,4,6-Trichlorophenol	1,900	U
95-95-4	2,4,5-Trichlorophenol	1,900	U
91-58-7	2-Chloronaphthalene	1,900	U
88-74-4	2-Nitroaniline	9,600	U
131-11-3	Dimethylphthalate	1,900	U
103-33-3	Azobenzene	1,900	U
208-96-8	Acenaphthylene	1,900	U
606-20-2	2,6-Dinitrotoluene	1,900	U
99-09-2	3-Nitroaniline	9,600	U
83-32-9	Acenaphthene	1,900	U
51-28-5	2,4-Dinitrophenol	9,600	U

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2345 Millpark Drive
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
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ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB5-13
LAB ID: 9507/076-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	9,600 µg/kg	U µg/kg
132-64-9	Dibenzofuran	1,900	U
121-14-2	2,4-Dinitrotoluene	1,900	U
84-66-2	Diethylphthalate	1,900	U
7005-72-3	4-Chlorophenol phenyl ether	1,900	U
86-73-7	Fluorene	1,900	U
100-01-6	4-Nitroaniline	9,600	U
534-52-1	4,6-Dinitro-2-methylphenol	9,600	U
86-30-6	N-Nitrosodiphenylamine	1,900	U
101-55-3	4-Bromophenyl phenyl ether	1,900	U
118-74-1	Hexachlorobenzene	1,900	U
87-86-5	Pentachlorophenol	9,600	U
85-01-8	Phenanthrene	1,900	22,000
120-12-7	Anthracene	1,900	5,200
84-74-2	Carbazole	1,900	2,300
84-74-2	Di-n-butylphthalate	1,900	U
206-44-0	Fluoranthene	1,900	28,000
92-87-4	Benzidine	1,900	U
129-00-0	Pyrene	1,900	19,000
85-68-7	Butylbenzylphthalate	1,900	U
91-94-1	3,3'-Dichlorobenzidine	1,900	U
56-55-3	Benzo(a)anthracene	1,900	9,500
218-01-9	Chrysene	1,900	9,200
117-81-7	bis(2-Ethylhexyl)phthalate	1,900	U
117-84-0	Di-n-octylphthalate	1,900	U
205-99-2	Benzo(b)fluoranthene	1,900	11,000
207-08-9	Benzo(k)fluoranthene	1,900	4,100
50-32-8	Benzo(a)pyrene	1,900	8,500
193-39-5	Indeno(1,2,3-cd)pyrene	1,900	3,900
53-70-3	Dibenzo(a,h)anthracene	1,900	U
191-24-2	Benzo(g,h,i)perylene	1,900	4,100

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/07/95 09:55
DATE RECEIVED : 7/07/95 19:53
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/18/95
ANALYST : D.C.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB5-17
LAB ID: 9507/076-005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	390 µg/kg	U µg/kg
108-95-2	Phenol	390	U
111-44-4	bis(2-chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl Alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	o-Cresol	390	U
39638-32-9	bis-(2-Chloro2propyl)Ether	390	U
106-44-5	m & p-Cresol	390	U
621-64-7	N-Nitroso-Di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	450
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	390	U
103-33-3	Azobenzene	390	U
208-96-8	Acenaphthylene	390	460
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	390	1,200
51-28-5	2,4-Dinitrophenol	2,000	U

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2345 Millpark Drive
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB5-17
LAB ID: 9507/076-005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	390	760
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenol phenyl ether	390	U
86-73-7	Fluorene	390	1,090
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	3,900	17,000
120-12-7	Anthracene	390	4,500
84-74-2	Carbazole	390	2,900
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	3,900	29,000
92-87-4	Benzidine	390	U
129-00-0	Pyrene	3,900	20,000
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	3,900	9,800
218-01-9	Chrysene	3,900	10,500
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	3,900	12,000
207-08-9	Benzo(k)fluoranthene	390	2,100
50-32-8	Benzo(a)pyrene	3,900	8,500
193-39-5	Indeno(1,2,3-cd)pyrene	390	4,000
53-70-3	Dibenzo(a,h)anthracene	390	1,100
191-24-2	Benzo(g,h,i)perylene	390	3,900

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/07/95 10:10
DATE RECEIVED : 7/07/95 19:53
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/18 & 19/95
ANALYST : D.C.

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GEOTECHNOLOGY, INC.
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ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB20-8.5-D1
LAB ID: 9507/076-006

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 µg/kg	U µg/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	2,000	U

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ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB20-8.5-D1
LAB ID: 9507/076-006

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	400	5,800
120-12-7	Anthracene	400	1,020
84-74-2	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	4,000	7,500
92-87-4	Benzidine	400	U
129-00-0	Pyrene	4,000	6,700
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	3,600
218-01-9	Chrysene	400	3,500
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	4,300
207-08-9	Benzo(k)fluoranthene	400	1,100
50-32-8	Benzo(a)pyrene	400	3,500
193-39-5	Indeno(1,2,3-cd)pyrene	400	1,400
53-70-3	Dibenzo(a,h)anthracene	400	420
191-24-2	Benzo(g,h,i)perylene	400	1,500

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/07/95 09:40
DATE RECEIVED : 7/07/95 19:53
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/18 & 19/95
ANALYST : D.C.

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ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB6-3
LAB ID: 9507/076-007

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	360 µg/kg	U µg/kg
108-95-2	Phenol	360	U
111-44-4	bis(2-chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
100-51-6	Benzyl Alcohol	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	o-Cresol	360	U
39638-32-9	bis-(2-Chloro2propyl)Ether	360	U
106-44-5	m & p-Cresol	360	U
621-64-7	N-Nitroso-Di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic Acid	1,800	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	360	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	1,800	U
131-11-3	Dimethylphthalate	360	U
103-33-3	Azobenzene	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	1,800	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	1,800	U

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GEOTECHNOLOGY, INC.
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ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB6-3
LAB ID: 9507/076-007

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,800 µg/kg	U µg/kg
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenol phenyl ether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	1,800	U
534-52-1	4,6-Dinitro-2-methylphenol	1,800	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl phenyl ether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	1,800	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
84-74-2	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
92-87-4	Benzidine	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/07/95 12:45
DATE RECEIVED : 7/07/95 19:53
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/16/95
ANALYST : D.C.

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB6-9
LAB ID: 9507/076-008

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	380 µg/kg	U µg/kg
108-95-2	Phenol	380	U
111-44-4	bis(2-chloroethyl)Ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
100-51-6	Benzyl Alcohol	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	o-Cresol	380	U
39638-32-9	bis-(2-Chloro2propyl)Ether	380	U
106-44-5	m & p-Cresol	380	U
621-64-7	N-Nitroso-Di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
65-85-0	Benzoic Acid	1,900	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	1,900	U
131-11-3	Dimethylphthalate	380	U
103-33-3	Azobenzene	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	1,900	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	1,900	U

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2345 Millpark Drive
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB6-9
LAB ID: 9507/076-008

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,900 µg/kg	U µg/kg
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenol phenyl ether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	1,900	U
534-52-1	4,6-Dinitro-2-methylphenol	1,900	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl phenyl ether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1,900	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
84-74-2	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
92-87-4	Benzidine	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/07/95 13:00
DATE RECEIVED : 7/07/95 19:53
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/15/95
ANALYST : D.C.

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB6-12
LAB ID: 9507/076-009

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	2,000	U

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2345 Millpark Drive
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB6-12
LAB ID: 9507/076-009

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	410	510
120-12-7	Anthracene	410	U
84-74-2	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	480
92-87-4	Benzidine	410	U
129-00-0	Pyrene	410	590
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	470
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/07/95 13:05
DATE RECEIVED : 7/07/95 19:53
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/16/95
ANALYST : D.C.

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB6-20
LAB ID: 9507/076-010

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	2,100	U

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB6-20
LAB ID: 9507/076-010

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
84-74-2	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
92-87-4	Benzidine	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/07/95 13:15
DATE RECEIVED : 7/07/95 19:53
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/15/95
ANALYST : D.C.

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GEOTECHNOLOGY, INC.
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ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB7-5
LAB ID: 9507/076-011

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	430 µg/kg	U µg/kg
108-95-2	Phenol	430	U
111-44-4	bis(2-chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
100-51-6	Benzyl Alcohol	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	o-Cresol	430	U
39638-32-9	bis-(2-Chloro2propyl)Ether	430	U
106-44-5	m & p-Cresol	430	U
621-64-7	N-Nitroso-Di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	430	U
103-33-3	Azobenzene	430	U
208-96-8	Acenaphthylene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	430	U
51-28-5	2,4-Dinitrophenol	2,100	U

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB7-5
LAB ID: 9507/076-011

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenol phenyl ether	430	U
86-73-7	Fluorene	430	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	430	U
101-55-3	4-Bromophenyl phenyl ether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	430	U
120-12-7	Anthracene	430	U
84-74-2	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	430	U
92-87-4	Benzidine	430	U
129-00-0	Pyrene	430	U
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	430	U
218-01-9	Chrysene	430	U
117-81-7	bis(2-Ethylhexyl)phthalate	430	U
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	430	U
207-08-9	Benzo(k)fluoranthene	430	U
50-32-8	Benzo(a)pyrene	430	U
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	430	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/07/95 15:10
DATE RECEIVED : 7/07/95 19:53
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/15/95
ANALYST : D.C.

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB7-9
LAB ID: 9507/076-012

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	3,700 µg/kg	U µg/kg
108-95-2	Phenol	3,700	U
111-44-4	bis(2-chloroethyl)Ether	3,700	U
95-57-8	2-Chlorophenol	3,700	U
541-73-1	1,3-Dichlorobenzene	3,700	U
106-46-7	1,4-Dichlorobenzene	3,700	U
100-51-6	Benzyl Alcohol	3,700	U
95-50-1	1,2-Dichlorobenzene	3,700	U
95-48-7	o-Cresol	3,700	U
39638-32-9	bis-(2-Chloro2propyl)Ether	3,700	U
106-44-5	m & p-Cresol	3,700	U
621-64-7	N-Nitroso-Di-n-propylamine	3,700	U
67-72-1	Hexachloroethane	3,700	U
98-95-3	Nitrobenzene	3,700	U
78-59-1	Isophorone	3,700	U
88-75-5	2-Nitrophenol	3,700	U
105-67-9	2,4-Dimethylphenol	3,700	U
65-85-0	Benzoic Acid	19,000	U
111-91-1	bis(2-Chloroethoxy)methane	3,700	U
120-83-2	2,4-Dichlorophenol	3,700	U
120-82-1	1,2,4-Trichlorobenzene	3,700	U
91-20-3	Naphthalene	3,700	U
106-47-8	4-Chloroaniline	3,700	U
87-68-3	Hexachlorobutadiene	3,700	U
59-50-7	4-Chloro-3-methylphenol	3,700	U
91-57-6	2-Methylnaphthalene	3,700	U
77-47-4	Hexachlorocyclopentadiene	3,700	U
88-06-2	2,4,6-Trichlorophenol	3,700	U
95-95-4	2,4,5-Trichlorophenol	3,700	U
91-58-7	2-Chloronaphthalene	3,700	U
88-74-4	2-Nitroaniline	19,000	U
131-11-3	Dimethylphthalate	3,700	U
103-33-3	Azobenzene	3,700	U
208-96-8	Acenaphthylene	3,700	U
606-20-2	2,6-Dinitrotoluene	3,700	U
99-09-2	3-Nitroaniline	19,000	U
83-32-9	Acenaphthene	3,700	U
51-28-5	2,4-Dinitrophenol	19,000	U

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB7-9
LAB ID: 9507/076-012

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	19,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	3,700	U
121-14-2	2,4-Dinitrotoluene	3,700	U
84-66-2	Diethylphthalate	3,700	U
7005-72-3	4-Chlorophenol phenyl ether	3,700	U
86-73-7	Fluorene	3,700	U
100-01-6	4-Nitroaniline	19,000	U
534-52-1	4,6-Dinitro-2-methylphenol	19,000	U
86-30-6	N-Nitrosodiphenylamine	3,700	U
101-55-3	4-Bromophenyl phenyl ether	3,700	U
118-74-1	Hexachlorobenzene	3,700	U
87-86-5	Pentachlorophenol	19,000	U
85-01-8	Phenanthrene	3,700	U
120-12-7	Anthracene	3,700	U
84-74-2	Carbazole	3,700	U
84-74-2	Di-n-butylphthalate	3,700	U
206-44-0	Fluoranthene	3,700	U
92-87-4	Benzidine	3,700	U
129-00-0	Pyrene	3,700	U
85-68-7	Butylbenzylphthalate	3,700	U
91-94-1	3,3'-Dichlorobenzidine	3,700	U
56-55-3	Benzo(a)anthracene	3,700	U
218-01-9	Chrysene	3,700	U
117-81-7	bis(2-Ethylhexyl)phthalate	3,700	U
117-84-0	Di-n-octylphthalate	3,700	U
205-99-2	Benzo(b)fluoranthene	3,700	U
207-08-9	Benzo(k)fluoranthene	3,700	U
50-32-8	Benzo(a)pyrene	3,700	U
193-39-5	Indeno(1,2,3-cd)pyrene	3,700	U
53-70-3	Dibenzo(a,h)anthracene	3,700	U
191-24-2	Benzo(g,h,i)perylene	3,700	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/07/95 15:20
DATE RECEIVED : 7/07/95 19:53
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/18/95
ANALYST : D.C.

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB7-11
LAB ID: 9507/076-013

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	390 µg/kg	U µg/kg
108-95-2	Phenol	390	U
111-44-4	bis(2-chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl Alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	o-Cresol	390	U
39638-32-9	bis-(2-Chloro2propyl)Ether	390	U
106-44-5	m & p-Cresol	390	U
621-64-7	N-Nitroso-Di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic Acid	1,900	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	1,900	U
131-11-3	Dimethylphthalate	390	U
103-33-3	Azobenzene	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	1,900	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	1,900	U

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10109 METHOD SW-846 8270
PROJECT # 2498.03.4120.05 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB7-11
LAB ID: 9507/076-013

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,900 µg/kg	U µg/kg
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenol phenyl ether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	1,900	U
534-52-1	4,6-Dinitro-2-methylphenol	1,900	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	1,900	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
84-74-2	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
92-87-4	Benzidine	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/07/95 15:25
DATE RECEIVED : 7/07/95 19:53
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/16/95
ANALYST : D.C.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB7-18
LAB ID: 9507/076-014

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 µg/kg	U µg/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	2,000	U

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33001 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10109 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB7-18
LAB ID: 9507/076-014

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	400	610
120-12-7	Anthracene	400	U
84-74-2	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	710
92-87-4	Benzidine	400	U
129-00-0	Pyrene	400	750
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	500
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	420
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/07/95 15:30
DATE RECEIVED : 7/07/95 19:53
DATE EXTRACTED : 7/12/95
DATE ANALYZED : 7/16/95
ANALYST : D.C.

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

ab Name: Environmetrics Contract: GEOTECH.

Lab code: Case No.: DRY SAS No.: SDG No.:

atrix Spike - EPA Sample No.: 9507076-3 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	8000	0	6700	83	26- 90
2-Chlorophenol	8000	0	5200	64	25-102
1,4-Dichlorobenzene	4000	0	1700	42	28-104
N-Nitroso-Di-nPropylami	4000	0	4700	117	41-126
1,2,4-Trichlorobenzene	4000	0	3100	77	38-107
4-Chloro-3-Methylphenol	8000	0	8500	106 *	26-103
Acenaphthene	4000	0	3900	96	31-137
4-Nitrophenol	8000	0	9700	120 *	11-114
2,4-Dinitrotoluene	4000	0	3700	91 *	28- 89
Pentachlorophenol	8000	0	3100	39	17-109
Pyrene	4000	3100	8800	141	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	8000	7000	87	5	35	26- 90
2-Chlorophenol	8000	5500	69	6	50	25-102
1,4-Dichlorobenzene	4000	2100	51	19	27	28-104
N-Nitroso-Di-nPropylami	4000	5100	126 *	8	38	41-126
1,2,4-Trichlorobenzene	4000	3200	80	4	23	38-107
4-Chloro-3-Methylphenol	8000	8100	100	6	33	26-103
Acenaphthene	4000	4100	103	7	19	31-137
4-Nitrophenol	8000	9000	112	7	50	11-114
2,4-Dinitrotoluene	4000	3700	91 *	0	47	28- 89
Pentachlorophenol	8000	2000	24	45	47	17-109
Pyrene	4000	13000	252 *	56 *	36	35-142

column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 11 outside limits

Spike Recovery: 6 out of 22 outside limits

C. MENTS: _____

11B
SEMIVOLATILE ORGANICS LAB CONTROL SPIKE

EPA SAMPLE NO.

WATER SPIKE

L Name: Environmetrics Contract: GEOTECH.

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: WASLCS6583

Sample wt/vol: 1000 (g/ml) ml Lab File ID: >A7753

Level: (low/med) LOW Date Received: 07/07/95

% Moisture: decanted: (Y/N) N Date Extracted: 07/24/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/24/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: NA

COMPOUND	Conc.	Spike	Recovery
Phenol	130	200	67
2-Chlorophenol	160	200	80
1,4-Dichlorobenzene	61	100	61
N-Nitroso-Di-nPropylamine	137	150	81
1,2,4-Trichlorobenzene	75	100	75
4-Chloro-3-Methylphenol	220	200	110
Acenaphthene	92	100	91
4-Nitrophenol	210	200	104
2,4-Dinitrotoluene	99	100	99
Pentachlorophenol	220	200	113
Pyrene	110	100	109

11B

SEMIVOLATILE ORGANICS LAB CONTROL SAMPLE

EPA SAMPLE NO.

SPIKE BLANK

Lab Name: Environmetrics Contract: GEOTECH.

Lab Code: 8270 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: SASLCS6529

Sample wt/vol: 30 (g/ml) g Lab File ID: >A7571

Level: (low/med) LOW Date Received: 07/07/95

Moisture: NA decanted: (Y/N) N Date Extracted: 07/12/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/14/95

Injection Volume: 1.0 (uL) Dilution Factor: 33.3

GPC Cleanup: (Y/N) N pH: NA

COMPOUND	Conc.	Spike	Recovery
Phenol	4100	6700	61
2-Chlorophenol	3200	6700	48
1,4-Dichlorobenzene	1800	3300	53
N-Nitroso-Di-nPropylamine	3400	3300	103
1,2,4-Trichlorobenzene	2600	3300	79
4-Chloro-3-Methylphenol	5800	6700	88
Acenaphthene	2700	3300	82
4-Nitrophenol	6000	6700	90
2,4-Dinitrotoluene	2800	3300	86
Pentachlorophenol	4800	6700	71
Pyrene	3400	3300	101

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Environmetrics Contract: GEOTECH.

Lab code: Case No.: DRY SAS No.: SDG No.:

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (DCB)#	S3 (FBP)#	S4 (TPH)#	S5 (PHL)#	S6 (2CP)#	S7 (2FP)#	S8 (TBP)#	TOT OUT
01	SASBLK6529	73	42	71	95	72	72	68	20	0
02	SASLCS6529	63	43	58	83	49	64	69	19	0
03	9507076-2	69	27	65	93	69	65	60	19	0
04	9507076-3	76	43	67	93	82	75	67	28	0
05	9507076-3MS	78	40	65	102	59	72	69	33	0
06	9507076-3MSD	70	31	63	105	65	80	78	32	0
07	9507076-4	81	46	70	107	78	72	70	51	0
08	9507076-5	86	47	72	113	84	81	72	69	0
09	9507076-5DL	58	42	60	106	67	63	47	50	0
10	9507076-6	86	51	71	109	82	75	67	77	0
11	9507076-6DL	58	43	60	107	60	57	43	58	0
12	9507076-7	70	40	63	101	73	70	65	137	0
13	9507076-8	54	18 *	58	97	75	73	68	23	1
14	9507076-9	76	50	66	107	78	78	74	54	0
15	9507076-10	73	43	65	102	72	71	67	39	0
16	9507076-11	65	18 *	64	100	77	74	70	57	1
17	9507076-12	65	52	59	108	66	66	53	80	0
18	9507076-13	82	58	76	119	87	88	77	60	0
19	9507076-14	57	23	56	97	67	65	61	32	0
20										
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)
S3 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S4 (TPH)	= Terphenyl-d14	(18-137)	
S5 (PHL)	= Phenol-d5	(24-113)	
S6 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S7 (2FP)	= 2-Fluorophenol	(25-121)	
S8 (TBP)	= 2,4,6-Tribromophenol	(19-122)	

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Environmetrics Contract: GEOTECH.

Lab code: Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (DCB)#	S3 (FBP)#	S4 (TPH)#	S5 (PHL)#	S6 (2CP)#	S7 (2FP)#	S8 (TBP)#	TOT OUT
01	WASBLK6583	94	63	73	132	62	64	55	97	0
02	WASLCS6583	89	56	67	117	59	64	55	104	0
03	9507076-1	97	60	73	124	42	64	43	97	0
04										
05										
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)
S3 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S4 (TPH)	= Terphenyl-d14	(33-141)	
S5 (PHL)	= Phenol-d5	(10- 94)	
S6 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S7 (2FP)	= 2-Fluorophenol	(21-100)	
S8 (TBP)	= 2,4,6-Tribromophenol	(10-123)	

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

August 01, 1995

Sam Brenneke
Geotechnology, Inc.
2258 Grissom Drive
ST. Louis, MO 63146

Subject: Project Summary for the Hubert Wheeler State School Playground Site Restoration
Samples MW-1:2, MW-1:7, MW-1:13, MW-1:18, MW-1:26, SB-TB-7-11-95, MW-2-4, MW-2-10, MW-2-15, MW-2-20, MW-2-30, SB22-15-D2, MW-2-15-EB.

Dear Mr. Brenneke:

Please find the analytical reports for the reference project attached.

Date Received 7/10/95

Chain of Custody Number: 2200

Environmetrics Laboratory Number: 9507/130

Invoice # 33002

The summary of the project is as follows:

PROJECT IDENTIFICATION:

The following samples were received and analyzed:

Description	Lab #	Received	Analyses
MW-1:2 15:50	9507-130-001	7/10/95	Total(8)Metals, Semi-Volatiles
MW-1:7 16:00	9507-130-002	7/10/95	Total(8)Metals, Semi-Volatiles, Volatiles
MW-1:13 16:15	9507-130-003	7/10/95	Total(8)Metals, Semi-Volatiles
MW-1:18 16:30	9507-130-004	7/10/95	Total(8)Metals, Semi-Volatiles
MW-1:26 9:10	9507-130-005	7/10/95	Total(8)Metals, Semi- Volatiles

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SB-TB-7-11-95	9507-130-006	7/10/95	Volatiles
MW-2-4 15:00	9507-130-007	7/10/95	Total(8)Metals, Semi-Volatiles
MW-2-10 15:15	9507-130-008	7/10/95	Total(8)Metals, Semi-Volatiles
MW-2-15 15:30	9507-130-009	7/10/95	Total(8)Metals, Semi-Volatiles, Volatiles
MW-2-15 15:30	9507-130-009	7/10/95	Total(8)Metals Matrix Spike/ Matrix Spike Duplicate Semi-Volatiles Matrix Spike/ Matrix Spike Duplicate Volatiles Matrix Spike/ Matrix Spike Duplicate
MW-2-20 15:45	9507-130-010	7/10/95	Total(8)Metals, Semi-Volatiles
MW-2-30 16:30	9507-130-011	7/10/95	Total(8)Metals, Semi-Volatiles
SB22-15-D2 15:30	9507-130-012	7/10/95	Total(8)Metals, Semi-Volatiles, Volatiles
MW-2-15-EB 16:00	9507-130-013	7/10/95	Total(8)Metals, Semi-Volatiles, Volatiles

Specific methods, extraction, preparation dates, and detection limits are noted on the individual reports attached.

REANALYSES, DILUTIONS, ETC.

The analytical data reflects the result of the initial analysis with out dilutions with the exception of:

Sample ID#'s MW-1:7 and MW-2-4 were diluted because of matrix interferences, resulting in elevated detection limits.

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

ATTN: Sam Brenneke

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE: 33002
PO: 10111
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-1:2
LAB ID: 9507000130-001
DATE COLLECTED: 07/10/95 15:50
DATE RECEIVED: 07/12/95 09:14

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.0 mg/Kg	7/18/95 R.D.
TOTAL BARIUM	SW-846 6010A	91.1 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.26 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	13.2 mg/Kg	
TOTAL LEAD	SW-846 6010A	51.4 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.18 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	12.0 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.599 mg/Kg	

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ATTN: Sam Brenneke

INVOICE: 33002
PO: 10111
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ENVIR NMET
2345 Millpa
Maryland Heights, MO 630
(314) 4

ANALYSIS RESULTS

SAMPLE ID: MW-1:7
LAB ID: 9507000130-002
DATE COLLECTED: 07/10/95 16:00
DATE RECEIVED: 07/12/95 09:15

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<11.5 mg/Kg	7/18/95 R
TOTAL BARIUM	SW-846 6010A	194 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.50 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	11.9 mg/Kg	
TOTAL LEAD	SW-846 6010A	227 mg/Kg	
TOTAL MERCURY	SW-846 7471A	1.03 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<11.5 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.582 mg/Kg	

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2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE: 33002
PO: 10111
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-1:13
LAB ID: 9507000130-003
DATE COLLECTED: 07/10/95 16:15
DATE RECEIVED: 07/12/95 09:17

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	26.1 mg/Kg	7/18/95 R.D.
TOTAL BARIUM	SW-846 6010A	521 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	5.26 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	26.8 mg/Kg	
TOTAL LEAD	SW-846 6010A	510 mg/Kg	
TOTAL MERCURY	SW-846 7471A	1.07 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.7 mg/Kg	
TOTAL SILVER	SW-846 6010A	3.490 mg/Kg	

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(314) 427-0550

ATTN: Sam Brenneke

INVOICE: 33002
PO: 10111
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-1:18
LAB ID: 9507000130-004
DATE COLLECTED: 07/10/95 16:30
DATE RECEIVED: 07/12/95 09:18

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.0 mg/Kg	7/18/95 R.D.
TOTAL BARIUM	SW-846 6010A	136 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	2.89 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	23.1 mg/Kg	
TOTAL LEAD	SW-846 6010A	505 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.12 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.0 mg/Kg	
TOTAL SILVER	SW-846 6010A	0.6010 mg/Kg	

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INVOICE: 33002
PO: 10111
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-1:26
LAB ID: 9507000130-005
DATE COLLECTED: 07/11/95 09:10
DATE RECEIVED: 07/12/95 09:19

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<13.3 mg/Kg	7/18/95 R.D.
TOTAL BARIUM	SW-846 6010A	174 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.99 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	15.0 mg/Kg	
TOTAL LEAD	SW-846 6010A	314 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.17 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<13.3 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.665 mg/Kg	

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

...TN: Sam Brenneke

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(314) 427-0550

INVOICE: 33002
PO: 10111
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-2-4
LAB ID: 9507000130-007
DATE COLLECTED: 07/11/95 15:00
DATE RECEIVED: 07/12/95 09:21

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.3 mg/Kg	7/18/95 R.D.
TOTAL BARIUM	SW-846 6010A	255 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	2.21 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	22.4 mg/Kg	
TOTAL LEAD	SW-846 6010A	464 mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.530 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.3 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.614 mg/Kg	

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

ATTN: Sam Brenneke

ENVIRONMETRIC
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE: 33002
PO: 10111
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-2-10
LAB ID: 9507000130-008
DATE COLLECTED: 07/11/95 15:15
DATE RECEIVED: 07/12/95 09:21

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.5 mg/Kg	7/18/95 R.D.
TOTAL BARIUM	SW-846 6010A	136 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.58 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	14.0 mg/Kg	
TOTAL LEAD	SW-846 6010A	15.1 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.13 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.5 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.628 mg/Kg	

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INVOICE: 33002
PO: 10111
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-2-15 RUN MS/MSD ON SAMPLE RUN MS/MSD ON SAMPLE
LAB ID: 9507000130-009
DATE COLLECTED: 07/11/95 15:30
DATE RECEIVED: 07/12/95 09:22

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.5 mg/Kg	7/18/95 R.D.
TOTAL BARIUM	SW-846 6010A	117 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.12 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	14.7 mg/Kg	
TOTAL LEAD	SW-846 6010A	8.43 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.12 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.5 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.625 mg/Kg	

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(314) 427-0550

INVOICE # 33002
PO # 10111
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

QUALITY ASSURANCE QUALITY CONTROL REPORT

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
ICP/AA WATER

SAMPLE ID: MW-2-15
LAB ID: 9507/130-009

ELEMENT	SAMPLE RESULT (mg/l)	SPIKE LEVEL (mg/l)	SPIKE RESULT (mg/l)	% REC.	DUPLICATE RESULT (mg/l)	% REC.	RPD
ARSENIC	<12.5	502	426	85	426	85	0
BARIUM	117	502	523	81	544	85	4
CADMIUM	1.12	12	12.2	92	12.5	95	3
CHROMIUM	14.7	50	58.9	88	58.1	87	1
LEAD	8.43	125	113	84	111	82	2
MERCURY	<0.12	1.19	1.26	106	1.14	96	10
SELENIUM	<12.5	502	418	83	419	83	0
SILVER	<0.625	12	11.2	93	11.3	94	1

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INVOICE: 33002
PO: 10111
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-2-20
LAB ID: 9507000130-010
DATE COLLECTED: 07/11/95 15:45
DATE RECEIVED: 07/12/95 09:23

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<13.4 mg/Kg	7/18/95 R.D.
TOTAL BARIUM	SW-846 6010A	77.3 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	0.806 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	9.95 mg/Kg	
TOTAL LEAD	SW-846 6010A	8.19 mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.130 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<13.4 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.672 mg/Kg	

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INVOICE: 33002
PO: 10111
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-2-30
LAB ID: 9507000130-011
DATE COLLECTED: 07/11/95 16:30
DATE RECEIVED: 07/12/95 09:24

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<11.7 mg/Kg	7/18/95 R.D.
TOTAL BARIUM	SW-846 6010A	12.5 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	2.29 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	20.7 mg/Kg	
TOTAL LEAD	SW-846 6010A	<5.87 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.12 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<11.7 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.587 mg/Kg	

Geotechnology, Inc.
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(314) 427-0550

INVOICE: 33002
PO: 10111
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SB22-15-D2
LAB ID: 9507000130-012
DATE COLLECTED: 07/11/95 15:30
DATE RECEIVED: 07/12/95 09:24

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.5 mg/Kg	7/18/95 R.D.
TOTAL BARIUM	SW-846 6010A	137 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.00 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	16.5 mg/Kg	
TOTAL LEAD	SW-846 6010A	8.94 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.13 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.5 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.625 mg/Kg	

Geotechnology, Inc.
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INVOICE: 33002
PO: 10111
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-2-15-EB
LAB ID: 9507000130-013
DATE COLLECTED: 07/11/95 16:00
DATE RECEIVED: 07/12/95 09:29

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<0.200 mg/L	7/18/95 R.D.
TOTAL BARIUM	SW-846 6010A	0.0550 mg/L	
TOTAL CADMIUM	SW-846 6010A	<0.005 mg/L	
TOTAL CHROMIUM	SW-846 6010A	<0.010 mg/L	
TOTAL LEAD	SW-846 6010A	<0.100 mg/L	
TOTAL MERCURY	SW-846 7470A	<0.0002 mg/L	
TOTAL SELENIUM	SW-846 6010A	<0.200 mg/L	
TOTAL SILVER	SW-846 6010A	<0.010 mg/L	

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33002
PO # 10111
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: VDBLK197A

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/17/95
ANALYST : L.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 33002
PO # 10111
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: VDBLK200A

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/19/95
ANALYST : L.C.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33002
PO # 10111
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: VDBLK201A

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/20/95
ANALYST : L.C.

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(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33002
PO # 10111
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-1: 7
LAB ID: 9507/130-002

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/10/95 15:50
DATE RECEIVED : 7/12/95 9:30
DATE ANALYZED : 7/17/95
ANALYST : L.C.

EN IR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33002
PO # 10111
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB-TB-7-11-95
LAB ID: 9507/130-006

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/03/95
DATE RECEIVED : 7/12/95 9:30
DATE ANALYZED : 7/19/95
ANALYST : L.C.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33002
PO # 10111
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-2-15
LAB ID: 9507/130-009

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/11/95 15:30
DATE RECEIVED : 7/12/95 9:30
DATE ANALYZED : 7/17/95
ANALYST : L.C.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33002
PO # 10111
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

SAMPLE ID: MW-2-15
LAB ID: 9507/130-009

COMPOUND	SPIKE ADDED (µg/kg)	SAMPLE CONC. (µg/kg)	MS CONC. (µg/kg)	MS % REC	#	QC LIMITS REC.
1,1-Dichloroethene	50	U	30	60		59-172
Trichloroethene	50	U	48	96		62-137
Benzene	50	U	46	92		60-133
Toluene	50	U	54	108		59-139
Chlorobenzene	50	U	52	104		66-142

COMPOUND	SPIKE ADDED (µg/kg)	MSD CONC. (µg/kg)	MSD % REC #	% RPD	#	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	50	28	56 *	7		22	59-172
Trichloroethene	50	43	86	11		24	62-137
Benzene	50	44	88	4		21	60-133
Toluene	50	50	100	8		21	59-139
Chlorobenzene	50	48	96	8		21	66-142

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 1 out of 10 outside limits

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33002
PO # 10111
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB22-15-D2
LAB ID: 9507/130-012

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

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ANALYST : L.C.

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33002
PO # 10111
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-2-15-EB
LAB ID: 9507/130-013

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	50	730
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

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DATE COLLECTED : 7/11/95 16:00
DATE RECEIVED : 7/12/95 9:30
DATE ANALYZED : 7/20/95
ANALYST : L.C.

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Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33002
PO # 10111
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANIC SURROGATE RECOVERY FORM

LAB_ID	SAMPLE_IDENTIFICATION	S1 1,2-DCA-d4	S2 TOL-d8	S3 BFB
VDBLK197A	METHOD BLANK	112	101	95
VDBLK200A	METHOD BLANK	95	104	102
VDBLK201A	METHOD BLANK	95	99	102
9507/130-001	MW-1: 7	121	108	93
9507/130-006	SB-TB-7-11-95	106	110	108
9507/130-009	MW-2-15	101	109	105
9507/130-012	SB22-15-D2	100	114	104
9507/130-013	MW-2-15-EB	97	105	102
9507/130-013 (DILUTION)	MW-2-15-EB	96	108	104

S1 - 1,2-DICHORORETHANE-d4

S2 - TOLUENE-d8

S3 - BROMOFLUOROBENZENE

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ATTN: SAM BRENNEKE

INVOICE # 33002
PO # 10111
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANICS LAB CONTROL SPIKE

SAMPLE ID: LCS
LAB ID: VDLCS197A

COMPOUND	CONC	SPIKE	PERCENT RECOVERY
1,1-Dichloroethene	56	50	112
Trichloroethene	48	50	96
Benzene	50	50	100
Toluene	47	50	94
Chlorobenzene	49	50	98

SAMPLE ID: LCS
LAB ID: VDLCS200A

COMPOUND	CONC	SPIKE	PERCENT RECOVERY
1,1-Dichloroethene	52	50	104
Trichloroethene	51	50	102
Benzene	52	50	104
Toluene	51	50	102
Chlorobenzene	50	50	100

SAMPLE ID: LCS
LAB ID: VDLCS201A

COMPOUND	CONC	SPIKE	PERCENT RECOVERY
1,1-Dichloroethene	49	50	98
Trichloroethene	48	50	96
Benzene	52	50	104
Toluene	51	50	102
Chlorobenzene	46	50	92

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GEOTECHNOLOGY, INC.
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ATTN: SAM BRENNEKE

INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: WASBLK6541

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	10 µg/l	U µg/l
108-95-2	Phenol	10	U
111-44-4	bis(2-chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	o-Cresol	10	U
39638-32-9	bis-(2-Chloro2propyl)Ether	10	U
106-44-5	m & p-Cresol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
103-33-3	Azobenzene	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: WASBLK6541

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	50 µg/l	U µg/l
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenol phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-4	Benzidine	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE EXTRACTED : 7/13/95
DATE ANALYZED : 7/19/95
ANALYST : D.C.

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6541

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	330 µg/kg	U µg/kg
108-95-2	Phenol	330	U
111-44-4	bis(2-chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	o-Cresol	330	U
39638-32-9	bis-(2-Chloro2propyl)Ether	330	U
106-44-5	m & p-Cresol	330	U
621-64-7	N-Nitroso-Di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	1,700	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1,700	U
131-11-3	Dimethylphthalate	330	U
103-33-3	Azobenzene	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1,700	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1,700	U

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6541

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,700 µg/kg	U µg/kg
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenol phenyl ether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1,700	U
534-52-1	4,6-Dinitro-2-methylphenol	1,700	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1,700	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
92-87-4	Benzidine	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

U = UNDETECTED
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DATE COLLECTED : ---
DATE RECEIVED : ---
DATE EXTRACTED : 7/13/95
DATE ANALYZED : 7/17/95
ANALYST : D.C.

ENVIR NMETRICS
2345 Millpark Drive
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2258 GRISSOM DRIVE
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ATTN: SAM BRENNEKE

INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-1: 2
LAB ID: 9507/130-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 µg/kg	U µg/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	2,000	U

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-1: 2
LAB ID: 9507/130-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	400	2,100
120-12-7	Anthracene	400	500
84-74-2	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	2,000
92-87-4	Benzidine	400	U
129-00-0	Pyrene	400	1,500
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	760
218-01-9	Chrysene	400	780
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	810
207-08-9	Benzo(k)fluoranthene	400	820
50-32-8	Benzo(a)pyrene	400	600
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/10/95 15:50
DATE RECEIVED : 7/12/95 9:30
DATE EXTRACTED : 7/13/95
DATE ANALYZED : 7/17/95
ANALYST : D.C.

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ATTN: SAM BRENNEKE

INVOICE # 33002 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10111 METHOD SW-846 8270
PROJECT # 2498.03.4120.05 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-1: 7
LAB ID: 9507/130-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	1,900 µg/kg	U µg/kg
108-95-2	Phenol	1,900	U
111-44-4	bis(2-chloroethyl)Ether	1,900	U
95-57-8	2-Chlorophenol	1,900	U
541-73-1	1,3-Dichlorobenzene	1,900	U
106-46-7	1,4-Dichlorobenzene	1,900	U
100-51-6	Benzyl Alcohol	1,900	U
95-50-1	1,2-Dichlorobenzene	1,900	U
95-48-7	o-Cresol	1,900	U
39638-32-9	bis-(2-Chloro2propyl)Ether	1,900	U
106-44-5	m & p-Cresol	1,900	U
621-64-7	N-Nitroso-Di-n-propylamine	1,900	U
67-72-1	Hexachloroethane	1,900	U
98-95-3	Nitrobenzene	1,900	U
78-59-1	Isophorone	1,900	U
88-75-5	2-Nitrophenol	1,900	U
105-67-9	2,4-Dimethylphenol	1,900	U
65-85-0	Benzoic Acid	9,600	U
111-91-1	bis(2-Chloroethoxy)methane	1,900	U
120-83-2	2,4-Dichlorophenol	1,900	U
120-82-1	1,2,4-Trichlorobenzene	1,900	U
91-20-3	Naphthalene	1,900	U
106-47-8	4-Chloroaniline	1,900	U
87-68-3	Hexachlorobutadiene	1,900	U
59-50-7	4-Chloro-3-methylphenol	1,900	U
91-57-6	2-Methylnaphthalene	1,900	U
77-47-4	Hexachlorocyclopentadiene	1,900	U
88-06-2	2,4,6-Trichlorophenol	1,900	U
95-95-4	2,4,5-Trichlorophenol	1,900	U
91-58-7	2-Chloronaphthalene	1,900	U
88-74-4	2-Nitroaniline	9,600	U
131-11-3	Dimethylphthalate	1,900	U
103-33-3	Azobenzene	1,900	U
208-96-8	Acenaphthylene	1,900	U
606-20-2	2,6-Dinitrotoluene	1,900	U
99-09-2	3-Nitroaniline	9,600	U
83-32-9	Acenaphthene	1,900	U
51-28-5	2,4-Dinitrophenol	9,600	U

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GEOTECHNOLOGY, INC.
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ATTN: SAM BRENNEKE

INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-1: 7
LAB ID: 9507/130-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	9,600 µg/kg	U µg/kg
132-64-9	Dibenzofuran	1,900	U
121-14-2	2,4-Dinitrotoluene	1,900	U
84-66-2	Diethylphthalate	1,900	U
7005-72-3	4-Chlorophenol phenyl ether	1,900	U
86-73-7	Fluorene	1,900	U
100-01-6	4-Nitroaniline	9,600	U
534-52-1	4,6-Dinitro-2-methylphenol	9,600	U
86-30-6	N-Nitrosodiphenylamine	1,900	U
101-55-3	4-Bromophenyl phenyl ether	1,900	U
118-74-1	Hexachlorobenzene	1,900	U
87-86-5	Pentachlorophenol	9,600	U
85-01-8	Phenanthrene	1,900	15,000
120-12-7	Anthracene	1,900	3,400
84-74-2	Carbazole	1,900	U
84-74-2	Di-n-butylphthalate	1,900	U
206-44-0	Fluoranthene	1,900	18,000
92-87-4	Benzidine	1,900	U
129-00-0	Pyrene	1,900	12,000
85-68-7	Butylbenzylphthalate	1,900	U
91-94-1	3,3'-Dichlorobenzidine	1,900	U
56-55-3	Benzo(a)anthracene	1,900	6,000
218-01-9	Chrysene	1,900	6,000
117-81-7	bis(2-Ethylhexyl)phthalate	1,900	U
117-84-0	Di-n-octylphthalate	1,900	U
205-99-2	Benzo(b)fluoranthene	1,900	6,500
207-08-9	Benzo(k)fluoranthene	1,900	4,000
50-32-8	Benzo(a)pyrene	1,900	5,200
193-39-5	Indeno(1,2,3-cd)pyrene	1,900	2,300
53-70-3	Dibenzo(a,h)anthracene	1,900	U
191-24-2	Benzo(g,h,i)perylene	1,900	2,900

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/10/95 16:00
DATE RECEIVED : 7/12/95 9:30
DATE EXTRACTED : 7/13/95
DATE ANALYZED : 7/22/95
ANALYST : D.C.

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GEOTECHNOLOGY, INC.
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ATTN: SAM BRENNEKE

INVOICE # 33002 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10111 METHOD SW-846 8270
PROJECT # 2498.03.4120.05 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-1: 13
LAB ID: 9507/130-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	420 µg/kg	U µg/kg
108-95-2	Phenol	420	U
111-44-4	bis(2-chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	o-Cresol	420	U
39638-32-9	bis-(2-Chloro2propyl)Ether	420	U
106-44-5	m & p-Cresol	420	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	420	U
103-33-3	Azobenzene	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2,100	U

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GEOTECHNOLOGY, INC.
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ATTN: SAM BRENNEKE

INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-1: 13
LAB ID: 9507/130-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenol phenyl ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	420	640
120-12-7	Anthracene	420	U
84-74-2	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	1,200
92-87-4	Benzidine	420	U
129-00-0	Pyrene	420	1,050
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	660
218-01-9	Chrysene	420	870
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	1,300
207-08-9	Benzo(k)fluoranthene	420	870
50-32-8	Benzo(a)pyrene	420	750
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	540

U = UNDETECTED
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DATE COLLECTED : 7/10/95 16:15
DATE RECEIVED : 7/12/95 9:30
DATE EXTRACTED : 7/13/95
DATE ANALYZED : 7/21/95
ANALYST : D.C.

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
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ATTN: SAM BRENNEKE

INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-1: 18
LAB ID: 9507/130-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 µg/kg	U µg/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	2,000	U

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ATTN: SAM BRENNEKE

INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-1: 18
LAB ID: 9507/130-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
84-74-2	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	U
92-87-4	Benzidine	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/10/95 16:30
DATE RECEIVED : 7/12/95 9:30
DATE EXTRACTED : 7/13/95
DATE ANALYZED : 7/21/95
ANALYST : D.C.

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ATTN: SAM BRENNEKE

INVOICE # 33002 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10111 METHOD SW-846 8270
PROJECT # 2498.03.4120.05 PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-1: 26
LAB ID: 9507/130-005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	450 µg/kg	U µg/kg
108-95-2	Phenol	450	U
111-44-4	bis(2-chloroethyl)Ether	450	U
95-57-8	2-Chlorophenol	450	U
541-73-1	1,3-Dichlorobenzene	450	U
106-46-7	1,4-Dichlorobenzene	450	U
100-51-6	Benzyl Alcohol	450	U
95-50-1	1,2-Dichlorobenzene	450	U
95-48-7	o-Cresol	450	U
39638-32-9	bis-(2-Chloro2propyl)Ether	450	U
106-44-5	m & p-Cresol	450	U
621-64-7	N-Nitroso-Di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
65-85-0	Benzoic Acid	2,200	U
111-91-1	bis(2-Chloroethoxy)methane	450	U
120-83-2	2,4-Dichlorophenol	450	U
120-82-1	1,2,4-Trichlorobenzene	450	U
91-20-3	Naphthalene	450	U
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	450	U
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	450	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	2,200	U
131-11-3	Dimethylphthalate	450	U
103-33-3	Azobenzene	450	U
208-96-8	Acenaphthylene	450	U
606-20-2	2,6-Dinitrotoluene	450	U
99-09-2	3-Nitroaniline	2,200	U
83-32-9	Acenaphthene	450	U
51-28-5	2,4-Dinitrophenol	2,200	U

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2258 GRISSOM DRIVE
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ATTN: SAM BRENNEKE

INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-1: 26
LAB ID: 9507/130-005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	450	U
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
7005-72-3	4-Chlorophenol phenyl ether	450	U
86-73-7	Fluorene	450	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	450	U
101-55-3	4-Bromophenyl phenyl ether	450	U
118-74-1	Hexachlorobenzene	450	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	450	U
120-12-7	Anthracene	450	U
84-74-2	Carbazole	450	U
84-74-2	Di-n-butylphthalate	450	U
206-44-0	Fluoranthene	450	U
92-87-4	Benzidine	450	U
129-00-0	Pyrene	450	U
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3'-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	450	U
218-01-9	Chrysene	450	U
117-81-7	bis(2-Ethylhexyl)phthalate	450	U
117-84-0	Di-n-octylphthalate	450	U
205-99-2	Benzo(b)fluoranthene	450	U
207-08-9	Benzo(k)fluoranthene	450	U
50-32-8	Benzo(a)pyrene	450	U
193-39-5	Indeno(1,2,3-cd)pyrene	450	U
53-70-3	Dibenzo(a,h)anthracene	450	U
191-24-2	Benzo(g,h,i)perylene	450	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/11/95 09:10
DATE RECEIVED : 7/12/95 9:30
DATE EXTRACTED : 7/13/95
DATE ANALYZED : 7/21/95
ANALYST : D.C.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-2-4
LAB ID: 9507/130-007

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	2,100 µg/kg	U µg/kg
108-95-2	Phenol	2,100	U
111-44-4	bis(2-chloroethyl)Ether	2,100	U
95-57-8	2-Chlorophenol	2,100	U
541-73-1	1,3-Dichlorobenzene	2,100	U
106-46-7	1,4-Dichlorobenzene	2,100	U
100-51-6	Benzyl Alcohol	2,100	U
95-50-1	1,2-Dichlorobenzene	2,100	U
95-48-7	o-Cresol	2,100	U
39638-32-9	bis-(2-Chloro2propyl)Ether	2,100	U
106-44-5	m & p-Cresol	2,100	U
621-64-7	N-Nitroso-Di-n-propylamine	2,100	U
67-72-1	Hexachloroethane	2,100	U
98-95-3	Nitrobenzene	2,100	U
78-59-1	Isophorone	2,100	U
88-75-5	2-Nitrophenol	2,100	U
105-67-9	2,4-Dimethylphenol	2,100	U
65-85-0	Benzoic Acid	10,300	U
111-91-1	bis(2-Chloroethoxy)methane	2,100	U
120-83-2	2,4-Dichlorophenol	2,100	U
120-82-1	1,2,4-Trichlorobenzene	2,100	U
91-20-3	Naphthalene	2,100	U
106-47-8	4-Chloroaniline	2,100	U
87-68-3	Hexachlorobutadiene	2,100	U
59-50-7	4-Chloro-3-methylphenol	2,100	U
91-57-6	2-Methylnaphthalene	2,100	U
77-47-4	Hexachlorocyclopentadiene	2,100	U
88-06-2	2,4,6-Trichlorophenol	2,100	U
95-95-4	2,4,5-Trichlorophenol	2,100	U
91-58-7	2-Chloronaphthalene	2,100	U
88-74-4	2-Nitroaniline	10,300	U
131-11-3	Dimethylphthalate	2,100	U
103-33-3	Azobenzene	2,100	U
208-96-8	Acenaphthylene	2,100	U
606-20-2	2,6-Dinitrotoluene	2,100	U
99-09-2	3-Nitroaniline	10,300	U
83-32-9	Acenaphthene	2,100	U
51-28-5	2,4-Dinitrophenol	10,300	U

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-2-4
LAB ID: 9507/130-007

CAS NUMBER		PRACTICAL QUANTITATION LIMIT		RESULTS	
100-02-7	4-Nitrophenol	10,300	µg/kg	U	µg/kg
132-64-9	Dibenzofuran	2,100		U	
121-14-2	2,4-Dinitrotoluene	2,100		U	
84-66-2	Diethylphthalate	2,100		U	
7005-72-3	4-Chlorophenol phenyl ether	2,100		U	
86-73-7	Fluorene	2,100		U	
100-01-6	4-Nitroaniline	10,300		U	
534-52-1	4,6-Dinitro-2-methylphenol	10,300		U	
86-30-6	N-Nitrosodiphenylamine	2,100		U	
101-55-3	4-Bromophenyl phenyl ether	2,100		U	
118-74-1	Hexachlorobenzene	2,100		U	
87-86-5	Pentachlorophenol	10,300		U	
85-01-8	Phenanthrene	2,100		9,000	
120-12-7	Anthracene	2,100		2,400	
84-74-2	Carbazole	2,100		U	
84-74-2	Di-n-butylphthalate	2,100		U	
206-44-0	Fluoranthene	2,100		15,000	
92-87-4	Benzidine	2,100		U	
129-00-0	Pyrene	2,100		12,000	
85-68-7	Butylbenzylphthalate	2,100		U	
91-94-1	3,3'-Dichlorobenzidine	2,100		U	
56-55-3	Benzo(a)anthracene	2,100		6,200	
218-01-9	Chrysene	2,100		6,000	
117-81-7	bis(2-Ethylhexyl)phthalate	2,100		U	
117-84-0	Di-n-octylphthalate	2,100		U	
205-99-2	Benzo(b)fluoranthene	2,100		7,500	
207-08-9	Benzo(k)fluoranthene	2,100		4,300	
50-32-8	Benzo(a)pyrene	2,100		6,100	
193-39-5	Indeno(1,2,3-cd)pyrene	2,100		2,700	
53-70-3	Dibenzo(a,h)anthracene	2,100		U	
191-24-2	Benzo(g,h,i)perylene	2,100		3,300	

U = UNDETECTED
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DATE COLLECTED : 7/11/95 15:00
DATE RECEIVED : 7/12/95 9:30
DATE EXTRACTED : 7/13/95
DATE ANALYZED : 7/22/95
ANALYST : D.C.

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2345 Millpark Drive
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-2-10
LAB ID: 9507/130-008

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	420 µg/kg	U µg/kg
108-95-2	Phenol	420	U
111-44-4	bis(2-chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	o-Cresol	420	U
39638-32-9	bis-(2-Chloro2propyl)Ether	420	U
106-44-5	m & p-Cresol	420	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	420	U
103-33-3	Azobenzene	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2,100	U

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ATTN: SAM BRENNEKE

INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-2-10
LAB ID: 9507/130-008

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenol phenyl ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	420	1,600
120-12-7	Anthracene	420	420
84-74-2	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	2,400
92-87-4	Benzidine	420	U
129-00-0	Pyrene	420	1,800
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	860
218-01-9	Chrysene	420	870
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	940
207-08-9	Benzo(k)fluoranthene	420	860
50-32-8	Benzo(a)pyrene	420	730
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	460

U = UNDETECTED
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DATE COLLECTED : 7/11/95 15:15
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DATE EXTRACTED : 7/13/95
DATE ANALYZED : 7/21/95
ANALYST : D.C.

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2345 Millpark Drive
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INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-2-15
LAB ID: 9507/130-009

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	420 µg/kg	U µg/kg
108-95-2	Phenol	420	U
111-44-4	bis(2-chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	o-Cresol	420	U
39638-32-9	bis-(2-Chloro2propyl)Ether	420	U
106-44-5	m & p-Cresol	420	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	420	U
103-33-3	Azobenzene	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2,100	U

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33002 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10111 METHOD SW-846 8270
PROJECT # 2498.03.4120.05 PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-2-15
LAB ID: 9507/130-009

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenol phenyl ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
84-74-2	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
92-87-4	Benzidine	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/11/95 15:30
DATE RECEIVED : 7/12/95 9:30
DATE EXTRACTED : 7/13/95
DATE ANALYZED : 7/21/95
ANALYST : D.C.

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INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-2-20
LAB ID: 9507/130-010

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	440 µg/kg	U µg/kg
108-95-2	Phenol	440	U
111-44-4	bis(2-chloroethyl)Ether	440	U
95-57-8	2-Chlorophenol	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
100-51-6	Benzyl Alcohol	440	U
95-50-1	1,2-Dichlorobenzene	440	U
95-48-7	o-Cresol	440	U
39638-32-9	bis-(2-Chloro2propyl)Ether	440	U
106-44-5	m & p-Cresol	440	U
621-64-7	N-Nitroso-Di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
65-85-0	Benzoic Acid	2,200	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
120-82-1	1,2,4-Trichlorobenzene	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	440	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	2,200	U
131-11-3	Dimethylphthalate	440	U
103-33-3	Azobenzene	440	U
208-96-8	Acenaphthylene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
99-09-2	3-Nitroaniline	2,200	U
83-32-9	Acenaphthene	440	U
51-28-5	2,4-Dinitrophenol	2,200	U

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
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ATTN: SAM BRENNEKE

INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-2-20
LAB ID: 9507/130-010

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,200 µg/kg	U µg/kg
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
7005-72-3	4-Chlorophenol phenyl ether	440	U
86-73-7	Fluorene	440	U
100-01-6	4-Nitroaniline	2,200	U
534-52-1	4,6-Dinitro-2-methylphenol	2,200	U
86-30-6	N-Nitrosodiphenylamine	440	U
101-55-3	4-Bromophenyl phenyl ether	440	U
118-74-1	Hexachlorobenzene	440	U
87-86-5	Pentachlorophenol	2,200	U
85-01-8	Phenanthrene	440	U
120-12-7	Anthracene	440	U
84-74-2	Carbazole	440	U
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	440	U
92-87-4	Benzidine	440	U
129-00-0	Pyrene	440	U
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	440	U
218-01-9	Chrysene	440	U
117-81-7	bis(2-Ethylhexyl)phthalate	440	U
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
50-32-8	Benzo(a)pyrene	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenzo(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

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J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/11/95 15:45
DATE RECEIVED : 7/12/95 9:30
DATE EXTRACTED : 7/13/95
DATE ANALYZED : 7/21/95
ANALYST : D.C.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-2-30
LAB ID: 9507/130-011

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	390 µg/kg	U µg/kg
108-95-2	Phenol	390	U
111-44-4	bis(2-chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl Alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	o-Cresol	390	U
39638-32-9	bis-(2-Chloro2propyl)Ether	390	U
106-44-5	m & p-Cresol	390	U
621-64-7	N-Nitroso-Di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic Acid	1,900	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	1,900	U
131-11-3	Dimethylphthalate	390	U
103-33-3	Azobenzene	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	1,900	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	1,900	U

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ATTN: SAM BRENNEKE

INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-2-30
LAB ID: 9507/130-011

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,900 µg/kg	U µg/kg
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenol phenyl ether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	1,900	U
534-52-1	4,6-Dinitro-2-methylphenol	1,900	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	1,900	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
84-74-2	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
92-87-4	Benzidine	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/11/95 16:30
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INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB22-15-D2
LAB ID: 9507/130-012

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	420 µg/kg	U µg/kg
108-95-2	Phenol	420	U
111-44-4	bis(2-chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	o-Cresol	420	U
39638-32-9	bis-(2-Chloro2propyl)Ether	420	U
106-44-5	m & p-Cresol	420	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	420	U
103-33-3	Azobenzene	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2,100	U

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INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: SB22-15-D2
LAB ID: 9507/130-012

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenol phenyl ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
84-74-2	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
92-87-4	Benzidine	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

U = UNDETECTED
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INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-2-15-EB
LAB ID: 9507/130-013

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	10 µg/l	U µg/l
108-95-2	Phenol	10	U
111-44-4	bis(2-chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	o-Cresol	10	U
39638-32-9	bis-(2-Chloro2propyl)Ether	10	U
106-44-5	m & p-Cresol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	52	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	52	U
131-11-3	Dimethylphthalate	10	U
103-33-3	Azobenzene	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	52	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	52	U

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INVOICE # 33002 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10111 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05 **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-2-15-EB
LAB ID: 9507/130-013

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	52 µg/l	U µg/l
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenol phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	52	U
534-52-1	4,6-Dinitro-2-methylphenol	52	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	52	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-4	Benzidine	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

U = UNDETECTED
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DATE COLLECTED : 7/11/95 16:00
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ANALYST : D.C.

11B

SEMIVOLATILE ORGANICS LAB CONTROL SPIKE

EPA SAMPLE NO.

WATER SPIKE

Lab Name: Environmetrics Contract: GEOTECH.

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: WASLCS6541

Sample wt/vol: 1000 (g/ml) ml Lab File ID: >A7622

Level: (low/med) LOW Date Received: 07/12/95

% Moisture: decanted: (Y/N) N Date Extracted: 07/13/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/17/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: NA

COMPOUND	Conc.	Spike	Recovery
Phenol	160	200	79
2-Chlorophenol	130	200	67
1,4-Dichlorobenzene	66	100	66
N-Nitroso-Di-nPropylamine	137	150	67
1,2,4-Trichlorobenzene	79	100	79
4-Chloro-3-Methylphenol	180	200	89
Acenaphthene	81	100	81
4-Nitrophenol	220	200	109
2,4-Dinitrotoluene	87	100	87
Pentachlorophenol	150	200	77
Pyrene	86	100	86

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Environmetrics Contract: GEOTECH.

Lab code: Case No.: DRY SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: 9507130-9 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	8400	0	7100	85	26- 90
2-Chlorophenol	8400	0	6100	73	25-102
1,4-Dichlorobenzene	4200	0	2300	55	28-104
N-Nitroso-Di-nPropylami	4200	0	4900	117	41-126
1,2,4-Trichlorobenzene	4200	0	3300	79	38-107
4-Chloro-3-Methylphenol	8400	0	8400	101	26-103
Acenaphthene	4200	0	3600	87	31-137
4-Nitrophenol	8400	0	10000	119 *	11-114
2,4-Dinitrotoluene	4200	0	3600	86	28- 89
Pentachlorophenol	8400	0	7200	87	17-109
Pyrene	4200	0	4100	98	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	8400	7500	90 *	6	35	26- 90
2-Chlorophenol	8400	6300	75	3	50	25-102
1,4-Dichlorobenzene	4200	2300	55	0	27	28-104
N-Nitroso-Di-nPropylami	4200	4700	113	4	38	41-126
1,2,4-Trichlorobenzene	4200	3100	75	5	23	38-107
4-Chloro-3-Methylphenol	8400	8200	98	3	33	26-103
Acenaphthene	4200	3500	84	4	19	31-137
4-Nitrophenol	8400	10400	124 *	4	50	11-114
2,4-Dinitrotoluene	4200	3500	84	2	47	28- 89
Pentachlorophenol	8400	7300	88	1	47	17-109
Pyrene	4200	3900	94	3	36	35-142

column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits

Spike Recovery: 3 out of 22 outside limits

COMMENTS: _____

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Environmetrics Contract: GEOTECH.

Lab code: Case No.: DRY SAS No.: SDG No.:

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (DCB)#	S3 (FBP)#	S4 (TPH)#	S5 (PHL)#	S6 (2CP)#	S7 (2FP)#	S8 (TBP)#	TOT OUT
01	SASBLK6541	82	36	73	102	85	79	72	58	0
02	SASLCS6541	98	67	78	105	70	81	81	41	0
03	9507130-1	72	32	60	84	79	66	61	71	0
04	9507130-2	76	51	61	87	77	70	60	51	0
05	9507130-3	91	58	72	90	87	81	72	83	0
06	9507130-4	80	29	52	107	80	69	61	74	0
07	9507130-5	72	30	58	82	77	66	56	104	0
08	9507130-7	79	30	69	94	84	74	76	68	0
09	9507130-8	77	25	61	84	83	70	65	70	0
10	9507130-9	72	12 *	60	87	72	60	58	80	1
11	9507130-9MS	86	38	66	91	83	74	71	106	0
12	9507130-9MSD	87	42	66	92	84	74	71	106	0
13	9507130-10	87	24	70	95	83	74	70	97	0
14	9507130-11	93	36	70	95	89	80	74	100	0
15	9507130-12	81	17 *	64	94	80	64	61	95	1
16										
17										
18										
19			* Advisory							
20										
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25										
26										
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28										
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)
S3 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S4 (TPH)	= Terphenyl-d14	(18-137)	
S5 (PHL)	= Phenol-d5	(24-113)	
S6 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S7 (2FP)	= 2-Fluorophenol	(25-121)	
S8 (TBP)	= 2,4,6-Tribromophenol	(19-122)	

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Environmetrics Contract: GEOTECH.

Lab code: Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (DCB)#	S3 (FBP)#	S4 (TPH)#	S5 (PHL)#	S6 (2CP)#	S7 (2FP)#	S8 (TBP)#	TOT OUT
01	WASBLK6541	73	36	76	101	84	80	68	97	0
02	WASLCS6541	90	46	57	84	73	73	70	61	0
03	9507130-13	93	56	64	83	71	73	58	89	0
04										
05										
06										
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29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)
S3 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S4 (TPH)	= Terphenyl-d14	(33-141)	
S5 (PHL)	= Phenol-d5	(10- 94)	
S6 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S7 (2FP)	= 2-Fluorophenol	(21-100)	
S8 (TBP)	= 2,4,6-Tribromophenol	(10-123)	

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

11B

SEMIVOLATILE ORGANICS LAB CONTROL SAMPLE

EPA SAMPLE NO.

SPIKE BLANK

ab Name: Environmetrics Contract: GEOTECH.

Lab Code: 8270 Case No.: SAS No.: SDG No.:

atrix: (soil/water) SOIL Lab Sample ID: SASLCS6541

ample wt/vol: 30 (g/ml) g Lab File ID: >A7624

evel: (low/med) LOW Date Received: 07/12/95

Moisture: NA decanted: (Y/N) N Date Extracted: 07/13/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/17/95

njection Volume: 1.0 (uL) Dilution Factor: 33.3

PC Cleanup: (Y/N) N pH: NA

COMPOUND	Conc.	Spike	Recovery
Phenol	5900	6700	89
2-Chlorophenol	4800	6700	72
1,4-Dichlorobenzene	2700	3300	80
N-Nitroso-Di-nPropylamine	4700	5300	88
1,2,4-Trichlorobenzene	3200	3300	97
4-Chloro-3-Methylphenol	6700	6700	100
Acenaphthene	3000	3300	91
4-Nitrophenol	7400	6700	111
2,4-Dinitrotoluene	3200	3300	96
Pentachlorophenol	5900	6700	88
Pyrene	3200	3300	96

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2345 Millpark Drive
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(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

PREPARATION BLANK
ICP/AA
(UNITS = mg/l)

PREP. CODE: MP-252-54
PREP. DATE: 7/18/95

ELEMENT	BLANK RESULT
ARSENIC	<0.200
BARIUM	<0.040
CADMIUM	<0.005
CHROMIUM	<0.010
LEAD	<0.100
MERCURY	<0.0002
SELENIUM	<0.200
SILVER	<0.010

LABORATORY CONTROL SAMPLE
ICP/AA
(UNITS = mg/l)

PREP. CODE: MP-252-54
PREP. DATE: 7/18/95

ELEMENT	VALUE	RESULT	PERCENT RECOVERY
ARSENIC	2.00	1.87	94
BARIUM	2.00	1.89	94
CADMIUM	0.50	0.512	102
CHROMIUM	0.50	0.485	97
LEAD	0.50	0.447	89
MERCURY	0.002	0.00194	97
SELENIUM	2.00	1.88	94
SILVER	0.50	0.484	97

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MW-3:15 9:50	9507-170-005	7/13/95	Total(8)Metals, Semi-Volatiles
MW-3:20 13:10	9507-170-006	7/13/95	Total(8)Metals, Semi-Volatiles
MW-3:30 13:50	9507-100-007	7/13/95	Total(8)Metals, Semi-Volatiles
MW-3:39 15:00	9507-170-008	7/13/95	Total(8)Metals, Semi-Volatiles
Soil Drum: Comp 11:45	9507-170-009	7/13/95	TCLP (8) Metals ,TCLP Volatiles, TCLP Semi-Volatiles, TCLP Pesticides, TCLP Herbicides, PCB, Reactive Cyanide, Reactive Sulfide, Phenol, pH, Flashpoint, Paintfilter

Specific methods, extraction, preparation dates, and detection limits are noted on the individual reports attached.

REANALYSES, DILUTIONS, ETC.

The analytical data reflects the original analysis without dilutions or reanalyses, with the exception of:

Sample ID# MW-3:7 was diluted because of positive hits of Fluoranthene and Pyrene that were out of the calibration range.

QUALITY ASSURANCE SUMMARY:

All Quality Assurance parameters (temperature upon receipt, holding times, spike recoveries, etc.) were within method specifications. Please note that the Total Pb results are reported on a dry weight basis.

If you have any questions regarding this report please do not hesitate to call: (314) 427-0550. Thank you for your business.

Sincerely,

Karen J. Coons

Karen J. Coons

Project Manager

Attachments

Geotechnology, Inc.
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INVOICE: 33035
PO: 10120
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-2:40
LAB ID: 9507000170-001
DATE COLLECTED: 07/12/95 09:30
DATE RECEIVED: 07/13/95 17:38

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<11.0 mg/Kg	7/19/95 R.D.
TOTAL BARIUM	SW-846 6010A	24.5 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	3.36 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	27.3 mg/Kg	
TOTAL LEAD	SW-846 6010A	<0.552 mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.210 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<11.0 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.552 mg/Kg	

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ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

PREPARATION BLANK
ICP/AA
(UNITS = mg/l)

PREP. CODE: MP-252-64
PREP. DATE: 7/21/95

ELEMENT	BLANK RESULT
ARSENIC	<0.200
BARIUM	<0.040
CADMIUM	<0.005
CHROMIUM	<0.010
LEAD	<0.100
MERCURY	<0.0002
SELENIUM	<0.200
SILVER	<0.010

LABORATORY CONTROL SAMPLE
ICP/AA
(UNITS = mg/l)

PREP. CODE: MP-252-64
PREP. DATE: 7/21/95

ELEMENT	VALUE	RESULT	PERCENT RECOVERY
ARSENIC	2.00	1.92	96
BARIUM	2.00	1.91	96
CADMIUM	0.50	0.475	95
CHROMIUM	0.50	0.488	98
LEAD	0.50	0.480	96
MERCURY	0.002	0.00194	97
SELENIUM	2.00	1.89	94
SILVER	0.50	0.480	96

Geotechnology, Inc.
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INVOICE: 33035
PO: 10125
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-3:3
LAB ID: 9507000170-003
DATE COLLECTED: 07/13/95 09:15
DATE RECEIVED: 07/13/95 17:39

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<11.9 mg/Kg	7/19/95 R.D.
TOTAL BARIUM	SW-846 6010A	159 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.85 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	27.8 mg/Kg	
TOTAL LEAD	SW-846 6010A	94.2 mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.140 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<11.9 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.596 mg/Kg	

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INVOICE: 33035
PO: 10120
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-2:50
LAB ID: 9507000170-002
DATE COLLECTED: 07/12/95 10:00
DATE RECEIVED: 07/13/95 17:39

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<11.2 mg/Kg	7/19/95 R.D.
TOTAL BARIUM	SW-846 6010A	18.7 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	3.47 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	29.0 mg/Kg	
TOTAL LEAD	SW-846 6010A	15.7 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.11 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<11.2 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.562 mg/Kg	

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PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-3:7 MS / MSD
LAB ID: 9507000170-004
DATE COLLECTED: 07/13/95 09:30
DATE RECEIVED: 07/13/95 17:40

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.4 mg/Kg	7/19/95 R.D.
TOTAL BARIUM	SW-846 6010A	385 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	5.22 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	26.9 mg/Kg	
TOTAL LEAD	SW-846 6010A	535 mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.550 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.4 mg/Kg	
TOTAL SILVER	SW-846 6010A	0.7460 mg/Kg	

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ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

QUALITY ASSURANCE QUALITY CONTROL REPORT

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
ICP/AA WATER

SAMPLE ID: MW-3:7
LAB ID: 9507/170-004

ELEMENT	SAMPLE RESULT (mg/l)	SPIKE LEVEL (mg/l)	SPIKE RESULT (mg/l)	% REC.	DUPLICATE RESULT (mg/l)	% REC.	RPD
ARSENIC	<12.4	498	427	86	415	83	3
BARIUM	385	498	765	76	812	86	10
CADMIUM	5.22	12	16.2	92	15.5	86	6
CHROMIUM	26.9	50	65.9	78	67.2	81	3
LEAD	535	124	690	125	665	105	20
MERCURY	0.55	1.24	2.10	125	0.96	33	92
SELENIUM	<12.4	498	427	86	423	85	1
SILVER	0.746	12	11.6	90	11.0	85	5

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PO: 10125
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-3:20
LAB ID: 9507000170-006
DATE COLLECTED: 07/13/95 13:10
DATE RECEIVED: 07/13/95 17:42

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.2 mg/Kg	7/19/95 R.D.
TOTAL BARIUM	SW-846 6010A	207 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	3.11 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	48.5 mg/Kg	
TOTAL LEAD	SW-846 6010A	17.3 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.12 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.2 mg/Kg	
TOTAL SILVER	SW-846 6010A	<6.10 mg/Kg	

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PO: 10125
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-3:15
LAB ID: 9507000170-005
DATE COLLECTED: 07/13/95 09:50
DATE RECEIVED: 07/13/95 17:42

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.8 mg/Kg	7/19/95 R.D.
TOTAL BARIUM	SW-846 6010A	106 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.40 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	21.0 mg/Kg	
TOTAL LEAD	SW-846 6010A	10.0 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.12 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.8 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.641 mg/Kg	

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INVOICE: 33035
PO: 10125
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-3:39
LAB ID: 9507000170-008
DATE COLLECTED: 07/13/95 15:00
DATE RECEIVED: 07/13/95 17:43

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.4 mg/Kg	7/19/95 R.D.
TOTAL BARIUM	SW-846 6010A	50.8 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.36 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	26.0 mg/Kg	
TOTAL LEAD	SW-846 6010A	13.1 mg/Kg	
TOTAL MERCURY	SW-846 7471A	<0.10 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.4 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.618 mg/Kg	

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INVOICE: 33035
PO: 10125
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-3:30
LAB ID: 9507000170-007
DATE COLLECTED: 07/13/95 13:50
DATE RECEIVED: 07/13/95 17:43

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<12.7 mg/Kg	7/19/95 R.D.
TOTAL BARIUM	SW-846 6010A	126 mg/Kg	
TOTAL CADMIUM	SW-846 6010A	1.79 mg/Kg	
TOTAL CHROMIUM	SW-846 6010A	16.1 mg/Kg	
TOTAL LEAD	SW-846 6010A	13.4 mg/Kg	
TOTAL MERCURY	SW-846 7471A	0.120 mg/Kg	
TOTAL SELENIUM	SW-846 6010A	<12.7 mg/Kg	
TOTAL SILVER	SW-846 6010A	<0.637 mg/Kg	

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ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

TCLP SPIKE RECOVERY FORM

METALS

SAMPLE ID: SOIL DRUM: COMP
LAB ID: 9507/170-009
DATE COLLECTED: 7/13/95 11:45
DATE RECEIVED: 7/13/95 17:46

ELEMENT	SAMPLE RESULT MG/L	SPIKE LEVEL MG/L	SPIKE RESULT MG/L	PERCENT RECOVERY
ARSENIC	<0.200	5.0	4.81	96
BARIUM	0.969	5.0	5.43	89
CADMIUM	0.010	1.0	0.881	87
CHROMIUM	<0.010	5.0	4.54	91
LEAD	<0.100	5.0	4.74	95
MERCURY	0.0027	0.002	0.0045	90
SELENIUM	<0.200	1.0	1.04	104
SILVER	<0.040	1.0	0.954	95

$$\text{PERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT})}{\text{SPIKE LEVEL}} \times 100$$

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INVOICE: 33035
PO: 10125
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: SOIL DRUM:COMP AND 1 VOA CONTAINER
LAB ID: 9507000170-009
DATE COLLECTED: 07/13/95 11:45
DATE RECEIVED: 07/13/95 17:46

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TCLP ARSENIC	SW-846 1311/6010A	<0.200 mg/L	7/24/95 R.D.
TCLP BARIUM	SW-846 1311/6010A	0.969 mg/L	
TCLP CADMIUM	SW-846 1311/6010A	0.0100 mg/L	
TCLP CHROMIUM	SW-846 1311/6010A	<0.010 mg/L	
TCLP LEAD	SW-846 1311/6010A	<0.100 mg/L	
TCLP MERCURY	SW-846 1311/7470	0.002700 mg/L	
TCLP SELENIUM	SW-846 1311/6010A	<0.200 mg/L	
TCLP SILVER	SW-846 1311/6010A	<0.040 mg/L	
REACTIVE CYANIDE	SW-846 9010	<0.5 mg/Kg	7/24/95 S.H.
	SW-846 9045	8	7/19/95 T.H.
PHENOLS	SW-846 9065	<1.0 mg/Kg	7/20/95 S.H.
REACTIVE SULFIDE	SW-846 9030	16.4 mg/Kg	7/24/95 S.H.
IGNITABILITY (CLOSED CUP)	SW-846 1020	>200 °F	7/18/95 R.P.
PAINT FILTER	SW-846 9095	NO FREE LIQUID (PASSED)	7/19/95 T.H.

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INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

SAMPLE ID: LABORATORY CONTROL SAMPLE
LAB ID: LCS

ELEMENT	SPIKE ADDED		SAMPLE RECOVERY		PERCENT RECOVERY	ANALYST
REACTIVE SULFIDE	200	mg/l	194	mg/l	97	7/24/95 SH
REACTIVE CYANIDE	0.20	mg/l	0.19	mg/l	95	7/24/95 AC
PHENOL	0.50	mg/l	0.52	mg/l	103	7/20/95 SH

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PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

DUPLICATE

LAB ID	SAMPLE ID	ELEMENT	RESULTS		ANALYST
9507/170 009	SOIL DRUM COMP.	pH	7.92		7/19/95 T.H.
		IGNITABILTIY	>200	°F	7/19/95 T.H.

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INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

TCLP VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

SAMPLE ID: TCLP BLANK
LAB ID: TDBLK1519A

CAS NUMBER		REGULATORY LEVEL µg/L	PRACTICAL QUANTITATION LIMIT	RESULTS
75-01-4	Vinyl Chloride	200	100 µg/l	U µg/l
75-35-4	1,1-Dichloroethene	700	50	U
67-66-3	Chloroform	6,000	200	U
107-06-2	1,2-Dichloroethane	500	50	U
78-93-3	2-Butanone	200,000	150	U
56-23-5	Carbon Tetrachloride	500	50	U
79-01-6	Trichloroethene	500	50	U
71-43-2	Benzene	500	50	U
127-18-4	Tetrachloroethene	700	50	U
108-90-7	Chlorobenzene	100,000	50	U
106-46-7	1,4-Dichlorobenzene	7,500	100	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/21/95 L.C.

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ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS REPORT

PCBs IN SOIL

SW-846 8080

LAB NO.	SAMPLE NO.	IDENTIFICATION	TOTAL ppm	TYPE
9507/170-009		MATRIX SPIKE	0.76 152	1248 % RECOVERY
9507/170-009		MATRIX SPIKE DUPLICATE	0.75 150	1248 % RECOVERY
9507/170-009		SOIL DRUM: SOIL	<3	--

DATE COLLECTED : 7/13/95 11:45
DATE RECEIVED : 7/13/95 17:46
DATE ANALYZED : 7/17/95
ANALYST : C.D.

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PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

VOLATILE TCLP SPIKE RECOVERY FORM

SAMPLE ID: LCS
LAB ID: TDLCS1519A

COMPOUND	SPIKE LEVEL (µg/l)	SPIKE RESULT (µg/l)	PERCENT RECOVERY
Vinyl Chloride	500	330	66
1,1-Dichloroethene	500	510	102
Chloroform	500	520	104
1,2-Dichloroethane	500	580	116
2-Butanone	500	550	110
Carbon Tetrachloride	500	520	104
Trichloroethene	500	510	102
Benzene	500	500	100
Tetrachloroethene	1,000	1,000	100
Chlorobenzene	500	510	102
1,4-Dichlorobenzene	500	480	96

CALCULATIONS:

$$\text{PERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT})}{\text{SPIKE LEVEL}} \times 100$$

U = UNDETECTED

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INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

TCLP VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

SAMPLE ID: SOIL DRUM: COMP.
LAB ID: 9507/170-009

CAS NUMBER		REGULATORY LEVEL µg/L	PRACTICAL QUANTITATION LIMIT	RESULTS
75-01-4	Vinyl Chloride	200	100 µg/l	U µg/l
75-35-4	1,1-Dichloroethene	700	50	U
67-66-3	Chloroform	6,000	200	U
107-06-2	1,2-Dichloroethane	500	50	U
78-93-3	2-Butanone	200,000	150	U
56-23-5	Carbon Tetrachloride	500	50	U
79-01-6	Trichloroethene	500	50	U
71-43-2	Benzene	500	50	U
127-18-4	Tetrachloroethene	700	50	U
108-90-7	Chlorobenzene	100,000	50	U
106-46-7	1,4-Dichlorobenzene	7,500	100	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/13/95 11:45
DATE RECEIVED : 7/13/95 17:46
DATE ANALYZED : 7/21/95 L.C.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

VOLATILE TCLP SPIKE RECOVERY FORM

SAMPLE ID: SOIL DRUM: COMP.
LAB ID: 9507/170-009

COMPOUND	SAMPLE RESULT (µg/l)	SPIKE LEVEL (µg/l)	SPIKE RESULT (µg/l)	PERCENT RECOVERY
Vinyl Chloride	U	500	260	52
1,1-Dichloroethene	U	500	460	92
Chloroform	U	500	500	100
1,2-Dichloroethane	U	500	560	112
2-Butanone	U	500	640	128
Carbon Tetrachloride	U	500	470	94
Trichloroethene	U	500	480	96
Benzene	U	500	480	96
Tetrachloroethene	U	1,000	960	96
Chlorobenzene	U	500	480	96
1,4-Dichlorobenzene	U	500	480	96

CALCULATIONS:

$$\text{PERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT})}{\text{SPIKE LEVEL}} \times 100$$

U = UNDETECTED

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ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANIC SURROGATE RECOVERY FORM

LAB_ID	SAMPLE_IDENTIFICATION	S1 1,2-DCA-d4	S2 TOL-d8	S3 BFB
TDBLK1519A	TCLP BLANK	103	106	106
9507/170-009	SOIL DRUM COMP.	104	106	105

S1 - 1,2-DICHORORETHANE-d4

S2 - TOLUENE-d8

S3 - BROMOFLUOROBENZENE

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ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE #: 33035
PO # 10120/10125
PROJECT #: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

TCLP SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270

SAMPLE ID: TCLP BLANK
LAB ID: TASBLK6569

CAS NUMBER		REGULATORY LEVEL µg/L	PRACTICAL QUANTITATION LIMIT	RESULTS
110-86-1	Pyridine	5,000	500 µg/l	U µg/l
95-48-7	o-Cresol	200,000	100	U
106-44-5	m & p-Cresol	200,000	100	U
67-72-1	Hexachloroethane	3,000	100	U
98-95-3	Nitrobenzene	2,000	100	U
87-68-3	Hexachlorobutadiene	500	100	U
88-06-2	2,4,6-Trichlorophenol	2,000	100	U
95-95-4	2,4,5-Trichlorophenol	400,000	100	U
121-14-2	2,4-Dinitrotoluene	3,000	100	U
118-74-1	Hexachlorobenzene	130	100	U
87-86-5	Pentachlorophenol	100,000	100	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/22/95 D.C.

11B
SEMIVOLATILE ORGANICS LAB CONTROL SPIKE

EPA SAMPLE NO.

TCLP SPIKE

Name: Environmetrics Contract: GEOTECH.

Lab Code: M-8270 Case No.: SAS No.: SDG No.: FLUID #1

Matrix: (soil/water) TCLP Lab Sample ID: TASLCS6569

Sample wt/vol: VOL (g/ml) 100 Lab File ID: >A7732

Level: (low/med) LOW Date Received: 07/13/95

Moisture: decanted: (Y/N) N Date Extracted: 07/21/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/22/95

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 2 & 11

COMPOUND	Conc	Spike	Recovery
PYRIDINE	580	1000	58
2-Methylphenol	2300	2000	116
4-Methylphenol	1700	2000	87
Hexachloroethane	580	1000	58
Nitrobenzene	1800	1000	80
Hexachlorobutadiene	240	500	49
2,4,6-Trichlorophenol	1800	2000	90
2,4,5-Trichlorophenol	2200	2000	110
2,4-Dinitrotoluene	320	500	64
Hexachlorobenzene	380	500	76
Pentachlorophenol	1700	2000	86

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Environmetrics Contract: GEOTECH.

Lab code: Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (DCB)#	S3 (FBP)#	S4 (TPH)#	S5 (PHL)#	S6 (2CP)#	S7 (2FP)#	S8 (TBP)#	TOT OUT
01	TASBLK6569	70	49	53	79	59	51	52	73	0
02	TASLCS6569	87	45	53	87	67	67	58	81	0
03	9507170-9	71	38	47	101	54	53	40	76	0
04	9507170-9MS	81	55	59	124	58	52	49	101	0
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)
S3 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S4 (TPH)	= Terphenyl-d14	(33-141)	
S5 (PHL)	= Phenol-d5	(10- 94)	
S6 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S7 (2FP)	= 2-Fluorophenol	(21-100)	
S8 (TBP)	= 2,4,6-Tribromophenol	(10-123)	

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

TCLP SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270

SAMPLE ID: SOIL DRUM: COMP.
LAB ID: 9507/170-009

CAS NUMBER		REGULATORY LEVEL µg/L	PRACTICAL QUANTITATION LIMIT	RESULTS
110-86-1	Pyridine	5,000	500 µg/l	U µg/l
95-48-7	o-Cresol	200,000	100	U
106-44-5	m & p-Cresol	200,000	100	U
67-72-1	Hexachloroethane	3,000	100	U
98-95-3	Nitrobenzene	2,000	100	U
87-68-3	Hexachlorobutadiene	500	100	U
88-06-2	2,4,6-Trichlorophenol	2,000	100	U
95-95-4	2,4,5-Trichlorophenol	400,000	100	U
121-14-2	2,4-Dinitrotoluene	3,000	100	U
118-74-1	Hexachlorobenzene	130	100	U
87-86-5	Pentachlorophenol	100,000	100	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/13/95 11:45
DATE RECEIVED : 7/13/95 17:46
DATE ANALYZED : 7/22/95 D.C.

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INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

SEMIVOLATILE TCLP SPIKE RECOVERY FORM

SAMPLE ID: SOIL DRUM: COMP.
LAB ID: 9507/170-009

COMPOUND	SAMPLE RESULT (µg/l)	SPIKE LEVEL (µg/l)	SPIKE RESULT (µg/l)	PERCENT RECOVERY
Pyridine	U	1,000	610	61
o-Cresol	U	2,000	2,200	112
m & p-Cresol	U	2,000	1,800	89
Hexachloroethane	U	1,000	620	62
Nitrobenzene	U	1,000	730	73
Hexachlorobutadiene	U	500	290	58
2,4,6-Trichlorophenol	U	2,000	2,000	102
2,4,5-Trichlorophenol	U	2,000	2,400	122
2,4-Dinitrotoluene	U	500	390	79
Hexachlorobenzene	U	500	500	101
Pentachlorophenol	U	2,000	2,300	113

CALCULATIONS:

$$\text{PERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT})}{\text{SPIKE LEVEL}} \times 100$$

U = UNDETECTED

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ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

TCLP PESTICIDES ANALYSIS
METHOD SW-846 8080

SAMPLE ID: TCLP BLANK
LAB ID: OP6575

CAS NUMBER	PARAMETER	REGULATORY LEVEL µg/L	PRACTICAL QUANTITATION LIMIT	RESULTS
58-89-9	τ-BHC (Lindane)	400	0.40 µg/l	U µg/l
76-44-8	Heptachlor	8	0.30	U
1024-57-3	Heptachlor epoxide	8	0.20	U
72-20-8	Endrin	20	0.60	U
72-43-5	Methoxychlor	10,000	2.00	U
12789-03-6	Chlordane	30	10.00	U
8001-35-2	Toxaphene	500	50.00	U

TCLP HERBICIDES ANALYSIS
METHOD SW-846 8150

SAMPLE ID: TCLP BLANK
LAB ID: OP6576

CAS NUMBER	PARAMETER	REGULATORY LEVEL µg/L	PRACTICAL QUANTITATION LIMIT	RESULT
94-75-7	2,4-D	10,000	24.0 µg/l	U µg/l
93-72-1	2,4,5-TP	1,000	3.40	U

U = UNDETECTED

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/24 & 25/95
J.K.

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ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

LABORATORY CONTROL SAMPLE

PESTICIDES/HERBICIDES

SAMPLE ID: LCS
LAB ID: OP6575

COMPOUND	SPIKE CONC. (µg/l)	CONC.	PERCENT RECOVERY
Lindane	4	2.13	53
Heptachlor	4	2.26	57
Heptachlor epoxide	4	2.70	68
Endrin	4	2.78	70
Methoxychlor	40	35.9	90

COMPOUND	SPIKE LEVEL (µg/l)	CONC.	PERCENT RECOVERY
2,4-D	50	42.21	84
2,4,5-TP	5	3.92	78

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ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

TCLP PESTICIDES ANALYSIS
METHOD SW-846 8080

SAMPLE ID: SOIL DRUM: COMP.
LAB ID: 9507/170-009

CAS NUMBER	PARAMETER	REGULATORY LEVEL µg/L	PRACTICAL QUANTITATION LIMIT	RESULTS
58-89-9	τ-BHC (Lindane)	400	0.40 µg/l	U µg/l
76-44-8	Heptachlor	8	0.30	U
1024-57-3	Heptachlor epoxide	8	0.20	U
72-20-8	Endrin	20	0.60	U
72-43-5	Methoxychlor	10,000	2.00	U
12789-03-6	Chlordane	30	10.00	U
8001-35-2	Toxaphene	500	50.00	U

TCLP HERBICIDES ANALYSIS
METHOD SW-846 8150

SAMPLE ID: SOIL DRUM: COMP.
LAB ID: 9507/170-009

LEVEL NUMBER	QUANTITATION PARAMETER	REGULATORY µg/L	PRACTICAL CAS LIMIT	RESULT
94-75-7	2,4-D	10,000	24.0 µg/l	U µg/l
93-72-1	2,4,5-TP	1,000	3.40	U

U = UNDETECTED

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/24 & 25/95
J.K.

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OTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

TCLP SPIKE RECOVERY FORM

PESTICIDES/HERBICIDES

SAMPLE ID: SOIL DRUM: COMP.
LAB ID: 9507/170-009

COMPOUND	SAMPLE RESULT (µg/l)	SPIKE LEVEL (µg/l)	SPIKE RESULT (µg/l)	PERCENT RECOVERY
Lindane	U	4	1.97	49
Heptachlor	U	4	2.29	55
Heptachlor epoxide	U	4	2.72	68
Endrin	U	4	2.80	70
Methoxychlor	U	40	32.4	81

COMPOUND	SAMPLE RESULT (µg/l)	SPIKE LEVEL (µg/l)	SPIKE RESULT (µg/l)	PERCENT RECOVERY
2,4-D	U	50	43.75	88
2,4,5-TP	U	5	4.20	79

CALCULATIONS:

$$\text{PERCENT RECOVERY} = \frac{(\text{SPIKE RESULT} - \text{SAMPLE RESULT})}{\text{SPIKE LEVEL}} \times 100$$

U = UNDETECTED

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ATTN: SAM BRENNEKE

INVOICE # 33035 — VOLATILE ORGANIC ANALYSIS
PO # 10125 — METHOD SW-846 8240
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: VDBLK202A

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/21/95
ANALYST : L.C.

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2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-3:7
LAB ID: 9507/170-004

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/13/95 09:30
DATE RECEIVED : 7/13/95 17:46
DATE ANALYZED : 7/21/95
ANALYST : L.C.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

SAMPLE ID: MW-3:7
LAB ID: 9507/170-004

COMPOUND	SPIKE ADDED (µg/kg)	SAMPLE CONC. (µg/kg)	MS CONC. (µg/kg)	MS % REC	#	QC LIMITS REC.
1,1-Dichloroethene	50	U	30	60		59-172
Trichloroethene	50	U	42	84		62-137
Benzene	50	U	57	114		60-133
Toluene	50	U	54	108		59-139
Chlorobenzene	50	U	53	106		66-142

COMPOUND	SPIKE ADDED (µg/kg)	MSD CONC. (µg/kg)	MSD % REC #	% RPD	#	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	50	32	64	4		22	59-172
Trichloroethene	50	43	86	2		24	62-137
Benzene	50	53	106	7		21	60-133
Toluene	50	53	106	2		21	59-139
Chlorobenzene	50	52	104	2		21	66-142

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

EN IR NMETRICS
2345 Millpark Drive
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10120/10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANIC SURROGATE RECOVERY FORM

LAB_ID	SAMPLE_IDENTIFICATION	S1 1,2-DCA-d4	S2 TOL-d8	S3 BFB
VDBLK202A	METHOD BLANK	105	100	97
9507/170-004	MS-3:7	139	105	94

S1 - 1,2-DICHORORETHANE-d4

S2 - TOLUENE-d8

S3 - BROMOFLUOROBENZENE

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2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035
PO # 10125
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANICS LAB CONTROL SPIKE

SAMPLE ID: LCS
LAB ID: VDLCS202A

COMPOUND	CONC	SPIKE	PERCENT RECOVERY
1,1-Dichloroethene	49	50	98
Trichloroethene	48	50	96
Benzene	49	50	98
Toluene	48	50	96
Chlorobenzene	47	50	94

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10120/10125 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE ONE**
HUBERT WHEELER SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6556

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	330 µg/kg	U µg/kg
108-95-2	Phenol	330	U
111-44-4	bis(2-chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	o-Cresol	330	U
39638-32-9	bis-(2-Chloro2propyl)Ether	330	U
106-44-5	m & p-Cresol	330	U
621-64-7	N-Nitroso-Di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	1,700	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1,700	U
131-11-3	Dimethylphthalate	330	U
103-33-3	Azobenzene	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1,700	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1,700	U

11B
SEMIVOLATILE ORGANICS LAB CONTROL SAMPLE

EPA SAMPLE NO.

SPIKE BLANK

.b Name: Environmetrics Contract: GEOTECH.

.ab Code: 8270 Case No.: SAS No.: SDG No.:

.atrix: (soil/water) SOIL Lab Sample ID: SASLCS6556

.mple wt/vol: 30 (g/ml) g Lab File ID: >A7780

.evel: (low/med) LOW Date Received: 07/13/95

Moisture: NA decanted: (Y/N) N Date Extracted: 07/17/95

'oncentrated Extract Volume: 1000 (uL) Date Analyzed: 07/25/95

.ijection Volume: 1.0 (uL) Dilution Factor: 33.3

PC Cleanup: (Y/N) N pH: NA

COMPOUND	Conc.	Spike	Recovery
Phenol	4400	6700	61
2-Chlorophenol	5400	6700	80
1,4-Dichlorobenzene	2000	3300	61
N-Nitroso-Di-nPropylamine	4000	5300	74
1,2,4-Trichlorobenzene	2400	3300	72
4-Chloro-3-Methylphenol	6900	6700	104
Acenaphthene	3200	3300	95
4-Nitrophenol	6100	6700	91
2,4-Dinitrotoluene	3200	3300	96
Pentachlorophenol	7500	6700	113
Pyrene	3500	3300	105

2D

SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Environmetrics Contract: GEOTECH.

Lab code: Case No.: DRY SAS No.: SDG No.:

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (DCB)#	S3 (FBP)#	S4 (TPH)#	S5 (PHL)#	S6 (2CP)#	S7 (2FP)#	S8 (TBP)#	TOT OUT
01	SASBLK6556	88	58	76	109	95	84	74	107	0
02	SASLCS6556	84	57	70	117	57	64	54	99	0
03	9507170-1	97	58	83	109	94	86	76	106	0
04	9507170-2	89	66	78	98	90	87	74	78	0
05	9507170-3	90	55	80	105	92	86	74	91	0
06	9507170-4	91	64	81	118	92	87	74	51	0
07	9507170-4DL	97	64	82	109	102	90	81	53	0
08	9507170-4MS	98	78	82	122	94	91	80	73	0
09	9507170-4MSD	90	68	80	122	93	91	79	73	0
10	9507170-5	93	53	76	112	88	78	70	116	0
11	9507170-6	95	54	81	114	93	82	70	102	0
12	9507170-7	92	51	82	114	89	83	72	109	0
13	9507170-8	94	57	85	104	95	86	74	100	0
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)
S3 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S4 (TPH)	= Terphenyl-d14	(18-137)	
S5 (PHL)	= Phenol-d5	(24-113)	
S6 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S7 (2FP)	= 2-Fluorophenol	(25-121)	
S8 (TBP)	= 2,4,6-Tribromophenol	(19-122)	

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10120/10125 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6556

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,700 µg/kg	U µg/kg
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenol phenyl ether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1,700	U
534-52-1	4,6-Dinitro-2-methylphenol	1,700	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1,700	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
92-87-4	Benzidine	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE EXTRACTED : 7/17/95
DATE ANALYZED : 7/24/95
ANALYST : D.C.

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ATTN: SAM BRENNEKE

INVOICE # 33035 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10120 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE ONE**
HUBERT WHEELER SCHOOL
SAMPLE ID: MW-2:40
LAB ID: 9507/170-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	370 µg/kg	U µg/kg
108-95-2	Phenol	370	U
111-44-4	bis(2-chloroethyl)Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
100-51-6	Benzyl Alcohol	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	o-Cresol	370	U
39638-32-9	bis-(2-Chloro2propyl)Ether	370	U
106-44-5	m & p-Cresol	370	U
621-64-7	N-Nitroso-Di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
65-85-0	Benzoic Acid	1,800	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	1,800	U
131-11-3	Dimethylphthalate	370	U
103-33-3	Azobenzene	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	1,800	U
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	1,800	U

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ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10120 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-2:40
LAB ID: 9507/170-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,800 µg/kg	U µg/kg
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenol phenyl ether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	1,800	U
534-52-1	4,6-Dinitro-2-methylphenol	1,800	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl phenyl ether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	1,800	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
84-74-2	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	370	U
92-87-4	Benzidine	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	370	U
207-08-9	Benzo(k)fluoranthene	370	U
50-32-8	Benzo(a)pyrene	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
53-70-3	Dibenzo(a,h)anthracene	370	U
191-24-2	Benzo(g,h,i)perylene	370	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/12/95 09:30
DATE RECEIVED : 7/13/95 17:46
DATE EXTRACTED : 7/17/95
DATE ANALYZED : 7/24/95
ANALYST : D.C.

ENVIR NMETRICS
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2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

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INVOICE # 33035 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10120 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE ONE**
HUBERT WHEELER SCHOOL
SAMPLE ID: MW-2:50
LAB ID: 9507/170-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	380 µg/kg	U µg/kg
108-95-2	Phenol	380	U
111-44-4	bis(2-chloroethyl)Ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
100-51-6	Benzyl Alcohol	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	o-Cresol	380	U
39638-32-9	bis-(2-Chloro2propyl)Ether	380	U
106-44-5	m & p-Cresol	380	U
621-64-7	N-Nitroso-Di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
65-85-0	Benzoic Acid	1,900	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	1,900	U
131-11-3	Dimethylphthalate	380	U
103-33-3	Azobenzene	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	1,900	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	1,900	U

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ATTN: SAM BRENNEKE

INVOICE # 33035 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10120 METHOD SW-846 8270
PROJECT # 2498.03.4120.05, PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-2:50
LAB ID: 9507/170-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,900 µg/kg	U µg/kg
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenol phenyl ether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	1,900	U
534-52-1	4,6-Dinitro-2-methylphenol	1,900	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl phenyl ether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1,900	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
84-74-2	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
92-87-4	Benzidine	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/12/95 10:00
DATE RECEIVED : 7/13/95 17:46
DATE EXTRACTED : 7/17/95
DATE ANALYZED : 7/25/95
ANALYST : D.C.

ENVIR NMETRICS
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ATTN: SAM BRENNEKE

INVOICE # 33035 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10125 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE ONE**
HUBERT WHEELER SCHOOL
SAMPLE ID: MW-3:3
LAB ID: 9507/170-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	400 µg/kg	U µg/kg
108-95-2	Phenol	400	U
111-44-4	bis(2-chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl Alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	o-Cresol	400	U
39638-32-9	bis-(2-Chloro2propyl)Ether	400	U
106-44-5	m & p-Cresol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	400	U
103-33-3	Azobenzene	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	2,000	U

ENVIR NMETRICS
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10125 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-3:3
LAB ID: 9507/170-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenol phenyl ether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	400	900
120-12-7	Anthracene	400	U
84-74-2	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	1,400
92-87-4	Benzidine	400	U
129-00-0	Pyrene	400	980
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	540
218-01-9	Chrysene	400	690
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	820
207-08-9	Benzo(k)fluoranthene	400	820
50-32-8	Benzo(a)pyrene	400	520
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/13/95 09:15
DATE RECEIVED : 7/13/95 17:46
DATE EXTRACTED : 7/17/95
DATE ANALYZED : 7/25/95
ANALYST : D.C.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10125 METHOD SW-846 8270
PROJECT # 2498.03.4120.05, PAGE ONE
HUBERT WHEELER SCHOOL
SAMPLE ID: MW-3:7
LAB ID: 9507/170-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	2,100	U

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10125 METHOD SW-846 8270
PROJECT # 2498.03.4120.05, PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-3:7
LAB ID: 9507/170-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	410	4,400
120-12-7	Anthracene	410	1,300
84-74-2	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	830	9,100
92-87-4	Benzidine	410	U
129-00-0	Pyrene	830	7,100
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	3,700
218-01-9	Chrysene	410	3,300
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	4,500
207-08-9	Benzo(k)fluoranthene	410	880
50-32-8	Benzo(a)pyrene	410	3,400
193-39-5	Indeno(1,2,3-cd)pyrene	410	1,400
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	1,400

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT
DATE COLLECTED : 7/13/95 09:30
DATE RECEIVED : 7/13/95 17:46
DATE EXTRACTED : 7/17/95
DATE ANALYZED : 7/25 & 26/95
ANALYST : D.C.

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Environmetrics Contract: GEOTECH.

Lab code: Case No.: DRY SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: 9507170-4 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	8300	0	8600	104 *	26- 90
2-Chlorophenol	8300	0	7400	90	25-102
1,4-Dichlorobenzene	4100	0	3100	76	28-104
N-Nitroso-Di-nPropylami	4100	0	5000	120	41-126
1,2,4-Trichlorobenzene	4100	0	3700	89	38-107
4-Chloro-3-Methylphenol	8300	0	9500	115 *	26-103
Acenaphthene	4100	0	3900	94	31-137
4-Nitrophenol	8300	0	8600	103	11-114
2,4-Dinitrotoluene	4100	0	3600	86	28- 89
Pentachlorophenol	8300	0	1300	16 *	17-109
Pyrene	4100	7000	7300	8 *	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	8300	8700	105 *	1	35	26- 90
2-Chlorophenol	8300	7600	92	3	50	25-102
1,4-Dichlorobenzene	4100	3100	74	1	27	28-104
N-Nitroso-Di-nPropylami	4100	5100	123	2	38	41-126
1,2,4-Trichlorobenzene	4100	3600	88	2	23	38-107
4-Chloro-3-Methylphenol	8300	9500	115 *	0	33	26-103
Acenaphthene	4100	4000	98	4	19	31-137
4-Nitrophenol	8300	8300	101	2	50	11-114
2,4-Dinitrotoluene	4100	3500	84	2	47	28- 89
Pentachlorophenol	8300	970	12 *	28	47	17-109
Pyrene	4100	10400	82	164 *	36	35-142

column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 11 outside limits

Spike Recovery: 7 out of 22 outside limits

COMMENTS: _____

EN IR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10125 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE ONE**
HUBERT WHEELER SCHOOL
SAMPLE ID: MW-3:15
LAB ID: 9507/170-005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	430 µg/kg	U µg/kg
108-95-2	Phenol	430	U
111-44-4	bis(2-chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
100-51-6	Benzyl Alcohol	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	o-Cresol	430	U
39638-32-9	bis-(2-Chloro2propyl)Ether	430	U
106-44-5	m & p-Cresol	430	U
621-64-7	N-Nitroso-Di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	430	U
103-33-3	Azobenzene	430	U
208-96-8	Acenaphthylene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	430	U
51-28-5	2,4-Dinitrophenol	2,100	U

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10125 METHOD SW-846 8270
PROJECT # 2498.03.4120.05, PAGE TWO
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-3:15
LAB ID: 9507/170-005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenol phenyl ether	430	U
86-73-7	Fluorene	430	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	430	U
101-55-3	4-Bromophenyl phenyl ether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	430	U
120-12-7	Anthracene	430	U
84-74-2	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	430	U
92-87-4	Benzidine	430	U
129-00-0	Pyrene	430	U
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	430	U
218-01-9	Chrysene	430	U
117-81-7	bis(2-Ethylhexyl)phthalate	430	U
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	430	U
207-08-9	Benzo(k)fluoranthene	430	U
50-32-8	Benzo(a)pyrene	430	U
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	430	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/13/95 09:50
DATE RECEIVED : 7/13/95 17:46
DATE EXTRACTED : 7/17/95
DATE ANALYZED : 7/24/95
ANALYST : D.C.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10125 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE ONE**
HUBERT WHEELER SCHOOL
SAMPLE ID: MW-3:20
LAB ID: 9507/170-006

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,000	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,000	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,000	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	2,000	U

ENVIR NMETRICS
2345 Millpark Drive
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(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10125 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-3:20
LAB ID: 9507/170-006

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,000	U
534-52-1	4,6-Dinitro-2-methylphenol	2,000	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,000	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
84-74-2	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
92-87-4	Benzidine	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/13/95 13:10
DATE RECEIVED : 7/13/95 17:46
DATE EXTRACTED : 7/17/95
DATE ANALYZED : 7/24/95
ANALYST : D.C.

EN IR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10125 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE ONE**
HUBERT WHEELER SCHOOL
SAMPLE ID: MW-3:30
LAB ID: 9507/170-007

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	420 µg/kg	U µg/kg
108-95-2	Phenol	420	U
111-44-4	bis(2-chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	o-Cresol	420	U
39638-32-9	bis-(2-Chloro2propyl)Ether	420	U
106-44-5	m & p-Cresol	420	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	420	U
103-33-3	Azobenzene	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2,100	U

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10125 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-3:30
LAB ID: 9507/170-007

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenol phenyl ether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
84-74-2	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
92-87-4	Benzidine	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/13/95 13:50
DATE RECEIVED : 7/13/95 17:46
DATE EXTRACTED : 7/17/95
DATE ANALYZED : 7/24/95
ANALYST : D.C.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10125 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE ONE**
HUBERT WHEELER SCHOOL
SAMPLE ID: MW-3:39
LAB ID: 9507/170-008

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	410 µg/kg	U µg/kg
108-95-2	Phenol	410	U
111-44-4	bis(2-chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
100-51-6	Benzyl Alcohol	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	o-Cresol	410	U
39638-32-9	bis-(2-Chloro2propyl)Ether	410	U
106-44-5	m & p-Cresol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic Acid	2,100	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	2,100	U
131-11-3	Dimethylphthalate	410	U
103-33-3	Azobenzene	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	2,100	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	2,100	U

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33035 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10125 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-3:39
LAB ID: 9507/170-008

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	2,100 µg/kg	U µg/kg
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenol phenyl ether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	2,100	U
534-52-1	4,6-Dinitro-2-methylphenol	2,100	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	2,100	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
84-74-2	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
92-87-4	Benzidine	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/13/95 15:00
DATE RECEIVED : 7/13/95 17:46
DATE EXTRACTED : 7/17/95
DATE ANALYZED : 7/24/95
ANALYST : D.C.

GEOTECHNOLOGY, INC.
ENGINEERING & ENVIRONMENTAL SERVICES
ST. LOUIS KANSAS CITY INDIANAPOLIS

Page ____ of ____

CHAIN OF CUSTODY RECORD

COC Record # 2202

P.O. # 10125

Project No. 2498.03.4120.05

Project Name: Hubert Wheeler State School

Shipper Name: Geotechnology, Inc

Address: 2258 Grissom Drive St Louis MO 63146

Sampler's Signature: [signature]

Telephone # 997-7440

Contact:

Telephone #

Collectors Sample #	Date	Time	Sample Type	No. of Containers	Analysis	Remarks
MW-3:3	7/13/95	0915	Soil	2-8oz	Total Metal, Semi-Volatiles	Normal T.A.
MW-3:7		0930		2-8oz 1-2oz	Total Metal, Semi-Volatiles Volatile Organics	
MW-3:15		0950		2-8oz	Total Metal, Semi-Volatiles	
MW-3:20		1310		2-8oz		
MW-3:30		1350		2-8oz		
MW-3:39		1500		2-8oz		
Soil Drum:Comp		1145		4-8oz 1-2oz	TCLP Metals TCLP Volatiles	
					TCLP Semi Volatiles	
					TCLP Pesticides TCLP Herbicides	
					Total PCBs	
					Reactive Cynades Reactive Sulfides	
					Total Phenols	
					pH, flashpoint	
					paint filter	

Receiver Name: Environmetrics, Inc St Louis MO 6
(Company Name and Address)

Chain of Possession:

From: [signature] 7/13/95 5:15
(Name and Date/Time)

To: [signature] 7/13/95 5:15
(Name and Date/Time)

From:

To:

White copy to Laboratory • Yellow copy to COC File • Pink copy to Job File

GEOTECHNOLOGY, INC.
ENGINEERING & ENVIRONMENTAL SERVICES
ST. LOUIS KANSAS CITY INDIANAPOLIS

Page ____ of ____

CHAIN OF CUSTODY RECORD

COC Record # 2201

P.O. # 10120

Project No. 2498.03.4120.05

Project Name: Hubert Wheeler State School

Shipper Name: Geotechnology, Inc

Address: 2258 Grissom Drive St. Louis, Mo

Sampler's Signature: [signature]

Telephone # 997-7440

Contact: Sam Brennecke

Telephone # Same

Collectors Sample #	Date	Time	Sample Type	No. of Containers	Analysis	Remarks
MW-2:40	7/12/95	0930	Soil	2-8oz	Semi-Volatiles, Total Metal	Normal T.A.
MW-2:50	7/12/95	1000	↓	2-8oz	Semi-Volatiles, Total Metal	↓

Receiver Name: Environmetrics, Inc St Louis Mo
(Company Name and Address)

Chain of Possession:

From: [signature] 7/12/95 1540
(Name and Date/Time)

To: [signature] 7-12-95 15:40
(Name and Date/Time)

From: _____

To: _____

White copy to Laboratory • Yellow copy to COC File • Pink copy to Job File

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 2201-202
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 07/13/95
Date Logged: 07/13/95
Status: Normal/LEVEL 4
Metals on dried weight basis.

Date Due (PM): 07/25/95 Proj #: 2498.03.4120.05
Date Due (Client): 07/27/95 P.O. #: 10120 / 10125
Mode: Mail Quot #:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests
9507000170-001-01	MW-2:40	SOIL	2-250 ml GLASS	Cold	07/12/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9507000170-002-01	MW-2:50	SOIL	2-250 ml GLASS	Cold	07/12/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9507000170-003-01	MW-3:3	SOIL	2-250 ml GLASS	Cold	07/13/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
MS / MSD 9507000170-004-01	MW-3:7	SOIL	2-250 ml GLASS	Cold	07/13/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
MS / MSD 9507000170-004-02	MW-3:7	SOIL	1-2 OZ VOA	Cold	07/13/95		VOLATILE ORGANICS by GC/MS-SW-846 8240
	Sample Instructions:						
9507000170-005-01	MW-3:15	SOIL	2-250 ml GLASS	Cold	07/13/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

coc : 2201-202
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 07/13/95
Date Logged: 07/13/95
Status: Normal/LEVEL 4
Metals on dried weight basis.

Date Due (PM): 07/25/95 Proj #: 2498.03.4120.05
Date Due (Client): 07/27/95 P.O. #: 10120 / 10125
Mode: Mail Quot #:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests
9507 170-005-01	MW-3:15	SOIL	2-250 ml GLASS	Cold	07/13/95		TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9507 170-006-01	MW-3:20	SOIL	2-250 ml GLASS	Cold	07/13/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9507 170-007-01	MW-3:30	SOIL	2-250 ml GLASS	Cold	07/13/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
9507 170-008-01	MW-3:39	SOIL	2-250 ml GLASS	Cold	07/13/95		MERCURY-SW-846 7471A PREPARATION, (Soil/Solids)-SW-846 3050A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
AND 1 VOA CONTAINER 9507000170-009-01	SOIL DRUM:COMP	SOIL	4-250 ml GLASS	Cold	07/13/95		PHENOLS,(SPECTROPHOTOMETRIC)-SW-846 9065 C pH, SOIL & WASTE <20% WATER-SW-846 9045 PAINT FILTER LIQUIDS TEST-SW-846 9095 IGNITABILITY,(SETAFLASH CLOSED CUP)-SW-846 1020 PREPARATION,WATER, (Total)-SW-846 3010A REACTIVE CYANIDE-SW-846 9010

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 2201-202
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 07/13/95
Date Logged: 07/13/95
Status: Normal/LEVEL 4
Metals on dried weight basis.

Date Due (PM): 07/25/95 Proj #: 2498.03.4120.05
Date Due (Client): 07/27/95 P.O. #: 10120 / 10125
Mode: Mail Quot #:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests
9507000170-009-01	SOIL DRUM:COMP	SOIL	4-250 ml GLASS	Cold	07/13/95		REACTIVE SULFIDE-SW-846 9030 TCLP ARSENIC-SW-846 1311/6010A TCLP BARIUM-SW-846 1311/6010A TCLP CADMIUM-SW-846 1311/6010A TCLP CHROMIUM-SW-846 1311/6010A TCLP LEAD-SW-846 1311/6010A TCLP MERCURY-SW-846 1311/7470 TCLP SELENIUM-SW-846 1311/6010A TCLP SILVER-SW-846 1311/6010A TCLP Volatile Organic Compounds-SW-846 1311/8240 TCLP Semivolatile Organic Compounds-SW-846 1311/8270 TCLP Pesticides-SW-846 1311/8080 TCLP Herbicides-SW-846 8150 MODIFIED PCB-SW 846 8080m TCLP PREP-SW-846 1311 TCLP ZHE PREP-SW-846 1311

Sample Instructions:

Items Transferred	Relinquished By	Date		Logged In By	Date	Time
10		07/13/95	PM Signature : Karen Coons Client Services Rep.	Phyllis Woods Login Coordinator	07/13/95	17:46:31

Karen Coons

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

coc : 2201-202
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 07/13/95
Date Logged: 07/13/95
Status: Normal/LEVEL 4
Metals on dried weight basis.

Date Due (PM): 07/25/95 Proj #: 2498.03.4120.05
Date Due (Client): 07/27/95 P.O. #: 10120 / 10125
Mode: Mail Quot #:

Items Transferred	Relinquished By	Date	Time	Received By	Date	Time	Reason For Transfer
1	P Woods	7/13/95	6:50 pm	L Casaparde	7/14/95	7:40	VOA
#9	[illegible]	7-18	7:30	D McElgea	7/14	7:50	PLB / Soil
8	P Woods	7/17/95	11:45 am	[illegible]	7/17/95	11:45	[illegible]
170-9	P Woods	7/18/95	12:25 pm	[illegible]	7/18/95	12:35 pm	
	JMM	7-21	11:40	[illegible]	7-21	11:40	Return
1	L Casaparde	7/24	8:20	[illegible]	7-24	8:20	Return
	[illegible]	7/24	4:05	[illegible]	7-24	4:05	Return

APPENDIX H

GROUNDWATER ANALYTICAL DATA REPORTS

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

August 07, 1995

Sam Brenneke
Geotechnology, Inc.
2258 Grissom Drive
ST. Louis, MO 63146

Subject: Project Summary for the Hubert Wheeler State School Playground Site Restoration
Samples MW-2, MW-3, MW-1, Decon/Dev:Water, MW-TB.

Dear Mr. Brenneke:

Please find the analytical reports for the reference project attached.

Date Received 7/19/95

Chain of Custody Number: 2203

Environmetrics Laboratory Number: 9507/262

Invoice # 33090

The summary of the project is as follows:

PROJECT IDENTIFICATION:

The following samples were received and analyzed:

Description	Lab #	Received	Analyses
MW-1 14:30	9507-262-001	7/19/95	Total(8)Metals, Semi-Volatiles,Volatiles
MW-2 13:30	9507-262-002	7/19/95	Total(8)Metals, Semi-Volatiles, Volatiles
MW-2 13:30	9507-262-002	7/19/95	Total(8)Metals Matrix Spike, Matrix Spike Duplicate Semi-Volatiles Matrix Spike, Matrix Spike Duplicate Volatiles Matrix Spike, Matrix Spike Duplicate
MW-3 14:10	9507-262-003	7/19/95	Total(8)Metals, Semi-Volatiles,Volatiles
Decon/Dev:Water 14:50	9507-262-004	7/19/95	pH, TSS, Total Pb, COD, Semi-Volatiles, Volatiles
MW-TB 14:50	9507-262-005	7/19/95	Volatiles-Trip Blank

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

Specific methods, extraction, preparation dates, and detection limits are noted on the individual reports attached.

REANALYSES, DILUTIONS, ETC.

The analytical data reflects the result of the initial analysis with out dilutions or reanalyses with the exception of:

In Accordance with SW-846 method 8240 the following samples were reanalyzed because of both high and low surrogate recoveries: Sample ID# MW-1, MW-3, Decon/Dev:Water, and MW-TB

QUALITY ASSURANCE SUMMARY:

All Quality Assurance parameters (temperature upon receipt, holding times, spike recoveries, etc.) were within method specifications.

If you have any questions regarding this report please do not hesitate to call: (314) 427-0550. Thank you for your business.

Sincerely,

Karen J. Coons

Karen J. Coons

Project Manager

Attachments

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33090
PO # 10181
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

PREPARATION BLANK
ICP/AA
(UNITS = mg/l)

PREP. CODE: MP-252-68
PREP. DATE: 7/27/95

ELEMENT	BLANK RESULT
ARSENIC	<0.200
BARIUM	<0.040
CADMIUM	<0.005
CHROMIUM	<0.010
LEAD	<0.100
MERCURY	<0.0002
SELENIUM	<0.200
SILVER	<0.010

LABORATORY CONTROL SAMPLE
ICP/AA
(UNITS = mg/l)

PREP. CODE: MP-252-68
PREP. DATE: 7/27/95

ELEMENT	VALUE	RESULT	PERCENT RECOVERY
ARSENIC	2.00	1.78	89
BARIUM	2.00	1.80	90
CADMIUM	0.50	0.436	87
CHROMIUM	0.50	0.466	93
LEAD	0.50	0.421	84
MERCURY	0.002	0.00203	102
SELENIUM	2.00	1.82	91
SILVER	0.50	0.477	95

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

ATTN: Sam Brenneke

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE: 33090
PO: 10181
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-1
LAB ID: 9507000262-001
DATE COLLECTED: 07/19/95 14:30
DATE RECEIVED: 07/19/95 17:43

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<0.200 mg/L	7/27/95 R.D.
TOTAL BARIUM	SW-846 6010A	0.111 mg/L	
TOTAL CADMIUM	SW-846 6010A	<0.005 mg/L	
TOTAL CHROMIUM	SW-846 6010A	<0.010 mg/L	
TOTAL LEAD	SW-846 6010A	<0.100 mg/L	
TOTAL MERCURY	SW-846 7470A	<0.0002 mg/L	
TOTAL SELENIUM	SW-846 6010A	<0.200 mg/L	
TOTAL SILVER	SW-846 6010A	<0.010 mg/L	

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

ATTN: Sam Brenneke

EN IR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE: 33090
PO: 10181
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-2 MS / MSD
LAB ID: 9507000262-002
DATE COLLECTED: 07/19/95 13:30
DATE RECEIVED: 07/19/95 17:46

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	0.217 mg/L	7/27/95 R.D.
TOTAL BARIUM	SW-846 6010A	0.180 mg/L	
TOTAL CADMIUM	SW-846 6010A	0.00900 mg/L	
TOTAL CHROMIUM	SW-846 6010A	0.216 mg/L	
TOTAL LEAD	SW-846 6010A	0.244 mg/L	
TOTAL MERCURY	SW-846 7470A	0.0003 mg/L	
TOTAL SELENIUM	SW-846 6010A	<0.200 mg/L	
TOTAL SILVER	SW-846 6010A	<0.010 mg/L	

ENVIR NMETRIC
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33090
PO # 10181
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

QUALITY ASSURANCE QUALITY CONTROL REPORT

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
ICP/AA WATER

SAMPLE ID: MW-2
LAB ID: 9507/262-001

ELEMENT	SAMPLE RESULT (mg/l)	SPIKE LEVEL (mg/l)	SPIKE RESULT (mg/l)	% REC.	DUPLICATE RESULT (mg/l)	% REC.	RPD
ARSENIC	0.217	4.000	3.57	84	3.67	86	2
BARIUM	0.180	4.000	3.42	81	3.47	82	1
CADMIUM	0.009	0.100	0.090	81	0.091	82	1
CHROMIUM	0.216	0.400	0.554	84	0.545	82	2
LEAD	0.244	1.000	1.07	83	1.12	88	5
MERCURY	0.0003	0.0020	0.0020	89	0.0020	89	0
SELENIUM	<0.200	4.000	3.48	87	3.63	91	4
SILVER	<0.010	0.100	0.093	93	0.096	96	3

Geotechnology, Inc.
2258 Grissom Drive
St. Louis, Mo. 63146

ATTN: Sam Brenneke

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE: 33090
PO: 10181
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: MW-3
LAB ID: 9507000262-003
DATE COLLECTED: 07/19/95 14:10
DATE RECEIVED: 07/19/95 17:49

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL ARSENIC	SW-846 6010A	<0.200 mg/L	7/27/95 R.D.
TOTAL BARIUM	SW-846 6010A	0.053 mg/L	
TOTAL CADMIUM	SW-846 6010A	<0.005 mg/L	
TOTAL CHROMIUM	SW-846 6010A	0.0170 mg/L	
TOTAL LEAD	SW-846 6010A	<0.100 mg/L	
TOTAL MERCURY	SW-846 7470A	<0.0002 mg/L	
TOTAL SELENIUM	SW-846 6010A	<0.200 mg/L	
TOTAL SILVER	SW-846 6010A	<0.010 mg/L	

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INVOICE: 33090
PO: 10181
PROJECT NO: 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

ANALYSIS RESULTS

SAMPLE ID: DECON / DEV:WATER
LAB ID: 9507000262-004
DATE COLLECTED: 07/19/95 14:50
DATE RECEIVED: 07/19/95 17:52

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
TOTAL LEAD	SW-846 6010A	0.728 mg/L	7/27/95 R.D.
CHEMICAL OXYGEN DEMAND	EPA 410.4	220 mg/L	7/24/95 T.H.
PH	EPA 150.1	7.42	7/21/95 T.H.
TOTAL SUSPENDED SOLIDS	EPA 160.2	2,420 mg/L	7/24/95 T.H.

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ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33090
PO # 10181
PROJECT # 2498.03.4120.05, HUBERT WHEELER STATE SCHOOL

SAMPLE ID: LABORATORY CONTROL SAMPLE
LAB ID: LCS

ELEMENT	SPIKE ADDED	SAMPLE RECOVERY	PERCENT RECOVERY	ANALYST
pH	7.00	7.01	100	7/21/95 TH
CHEMICAL OXYEN DEMAND	500 mg/l	500 mg/l	100	7/21/95 TH

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ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33090
PO # 10181
PROJECT # 2498.03.4120.05,
HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

SAMPLE ID: METHOD BLANK
LAB ID: VBBLK205A

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/l	U µg/l
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 7/24/95 L.C.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33090
PO # 10181
PROJECT # 2498.03.4120.05,
HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

SAMPLE ID: MW-1
LAB ID: 9507/262-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/l	U µg/l
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/19/95 14:30
DATE RECEIVED : 7/19/95 17:53
DATE ANALYZED : 7/24/95 L.C.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33090
PO # 10181
PROJECT # 2498.03.4120.05,
HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

SAMPLE ID: MW-2
LAB ID: 9507/262-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/l	U µg/l
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
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DATE COLLECTED : 7/19/95 13:30
DATE RECEIVED : 7/19/95 17:53
DATE ANALYZED : 7/24/95 L.C.

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 33090
PO # 10181
PROJECT # 2498.03.4120.05,
HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

SAMPLE ID: MW-3
LAB ID: 9507/262-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/l	U µg/l
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	11
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	6.3
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

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DATE COLLECTED : 7/19/95 14:10
DATE RECEIVED : 7/19/95 17:53
DATE ANALYZED : 7/24/95 L.C.

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2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ENVIR NMETRICS
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Maryland Heights, MO 63043-3529
(314) 427-0550

ATTN: SAM BRENNEKE

INVOICE # 33090
PO # 10181
PROJECT # 2498.03.4120.05,
HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

SAMPLE ID: DECON/DEV: WATER
LAB ID: 9507/262-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/l	U µg/l
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	103
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

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DATE COLLECTED : 7/19/95 14:50
DATE RECEIVED : 7/19/95 17:53
DATE ANALYZED : 7/24/95 L.C.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33090
PO # 10181
PROJECT # 2498.03.4120.05,
HUBERT WHEELER STATE SCHOOL

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

SAMPLE ID: MW-TB
LAB ID: 9507/262-005

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/l	U µg/l
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
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J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/19/95
DATE RECEIVED : 7/19/95 17:53
DATE ANALYZED : 7/24/95 L.C.

ENVIR NMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33090 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10181 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: WASBLK6572

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	10 µg/l	U µg/l
108-95-2	Phenol	10	U
111-44-4	bis(2-chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	o-Cresol	10	U
39638-32-9	bis-(2-Chloro2propyl)Ether	10	U
106-44-5	m & p-Cresol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
103-33-3	Azobenzene	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U

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2345 Millpark Drive
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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33090 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10181 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: METHOD BLANK
LAB ID: WASBLK6572

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	50 µg/l	U µg/l
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenol phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-4	Benzidine	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE EXTRACTED : 7/20/95
DATE ANALYZED : 7/24/95
ANALYST : D.C.

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ATTN: SAM BRENNEKE

INVOICE # 33090 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10181 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-1
LAB ID: 9507/262-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	11 µg/l	U µg/l
108-95-2	Phenol	11	U
111-44-4	bis(2-chloroethyl)Ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl Alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	o-Cresol	11	U
39638-32-9	bis-(2-Chloro2propyl)Ether	11	U
106-44-5	m & p-Cresol	11	U
621-64-7	N-Nitroso-Di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic Acid	52	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	11	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	52	U
131-11-3	Dimethylphthalate	11	U
103-33-3	Azobenzene	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	52	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	52	U

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GEOTECHNOLOGY, INC.
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ATTN: SAM BRENNEKE

INVOICE # 33090 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10181 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-1
LAB ID: 9507/262-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	52 µg/l	U µg/l
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenol phenyl ether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	52	U
534-52-1	4,6-Dinitro-2-methylphenol	52	U
86-30-6	N-Nitrosodiphenylamine	11	U
101-55-3	4-Bromophenyl phenyl ether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	52	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Carbazole	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
92-87-4	Benzidine	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	11	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/19/95 14:30
DATE RECEIVED : 7/19/95 17:53
DATE EXTRACTED : 7/20/95
DATE ANALYZED : 7/24/95
ANALYST : D.C.

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INVOICE # 33090 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10181 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-2
LAB ID: 9507/262-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	10 µg/l	U µg/l
108-95-2	Phenol	10	U
111-44-4	bis(2-chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	o-Cresol	10	U
39638-32-9	bis-(2-Chloro2propyl)Ether	10	U
106-44-5	m & p-Cresol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
103-33-3	Azobenzene	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U

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ATTN: SAM BRENNEKE

INVOICE # 33090 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10181 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-2
LAB ID: 9507/262-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	50 µg/l	U µg/l
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenol phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-4	Benzidine	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/19/95 13:30
DATE RECEIVED : 7/19/95 17:53
DATE EXTRACTED : 7/20/95
DATE ANALYZED : 7/25/95
ANALYST : D.C.

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33090 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10181 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE ONE**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-3
LAB ID: 9507/262-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	11 µg/l	U µg/l
108-95-2	Phenol	11	U
111-44-4	bis(2-chloroethyl)Ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl Alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	o-Cresol	11	U
39638-32-9	bis-(2-Chloro2propyl)Ether	11	U
106-44-5	m & p-Cresol	11	U
621-64-7	N-Nitroso-Di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic Acid	56	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	11	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	56	U
131-11-3	Dimethylphthalate	11	U
103-33-3	Azobenzene	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	56	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	56	U

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GEOTECHNOLOGY, INC.
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ATTN: SAM BRENNEKE

INVOICE # 33090 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10181 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: MW-3
LAB ID: 9507/262-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	56 µg/l	U µg/l
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenol phenyl ether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	56	U
534-52-1	4,6-Dinitro-2-methylphenol	56	U
86-30-6	N-Nitrosodiphenylamine	11	U
101-55-3	4-Bromophenyl phenyl ether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	56	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Carbazole	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
92-87-4	Benzidine	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	11	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

U = UNDETECTED
B = PRESENT IN BLANK
J* = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/19/95 14:10
DATE RECEIVED : 7/19/95 17:53
DATE EXTRACTED : 7/20/95
DATE ANALYZED : 7/24/95
ANALYST : D.C.

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2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33090 SEMIVOLATILE ORGANIC COMPOUNDS
PO # 10181 METHOD SW-846 8270
PROJECT # 2498.03.4120.05, PAGE ONE
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: DECON/DEV: WATER
LAB ID: 9507/262-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	11 µg/l	U µg/l
108-95-2	Phenol	11	U
111-44-4	bis(2-chloroethyl)Ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl Alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	o-Cresol	11	U
39638-32-9	bis-(2-Chloro2propyl)Ether	11	U
106-44-5	m & p-Cresol	11	U
621-64-7	N-Nitroso-Di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic Acid	56	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	11	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	56	U
131-11-3	Dimethylphthalate	11	U
103-33-3	Azobenzene	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	56	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	56	U

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GEOTECHNOLOGY, INC.
2258 GRISSOM DRIVE
ST. LOUIS, MO 63146

ATTN: SAM BRENNEKE

INVOICE # 33090 **SEMIVOLATILE ORGANIC COMPOUNDS**
PO # 10181 **METHOD SW-846 8270**
PROJECT # 2498.03.4120.05, **PAGE TWO**
HUBERT WHEELER STATE SCHOOL
SAMPLE ID: DECON/DEV: WATER
LAB ID: 9507/262-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	56 µg/l	U µg/l
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenol phenyl ether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	56	U
534-52-1	4,6-Dinitro-2-methylphenol	56	U
86-30-6	N-Nitrosodiphenylamine	11	U
101-55-3	4-Bromophenyl phenyl ether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	56	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Carbazole	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
92-87-4	Benzidine	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	11	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 7/19/95 14:50
DATE RECEIVED : 7/19/95 17:53
DATE EXTRACTED : 7/20/95
DATE ANALYZED : 7/26/95
ANALYST : D.C.

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENVIRONMETRICS Contract: GEOTECHOLOGY

Lab code: 8240 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: MW-2

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50	0	53	105	61-145
Trichloroethene	50	0	55	111	71-120
Benzene	50	0	56	112	75-130
Toluene	50	0	54	107	76-125
Chlorobenzene	50	0	57	114	76-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	50	99	6	14	61-145
Trichloroethene	50	52	103	7	14	71-120
Benzene	50	53	106	6	11	75-130
Toluene	50	50	101	6	13	76-125
Chlorobenzene	50	53	106	7	13	76-127

column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

11A

VOLATILE ORGANICS LAB CONTROL SPIKE

EPA SAMPLE NO.

LCS

Lab Name: ENVIRONMETRICS Contract: GEOTECHOLOGY

Lab Code: 8240 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: VBLCS205A

Sample wt/vol: 5.0 (g/ml) Lab File ID: >B7985

Level: (low/med) LOW Date Received: 07/19/95

% Moisture: not dec. Date Analyzed: 07/24/95

GC Column: DB 624 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

COMPOUND	Conc	Spike	Recovery
1,1-Dichloroethene	51	50	103
Benzene	53	50	107
Trichloroethene	53	50	106
Toluene	54	50	108
Chlorobenzene	53	50	106

11A

VOLATILE ORGANICS LAB CONTROL SPIKE

EPA SAMPLE NO.

LCS

Lab Name: ENVIRONMETRICS Contract: GEOTECHNOLOG

Lab Code: 8240 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: VBLCS206A

Sample wt/vol: 5.0 (g/ml) Lab File ID: >B8002

Level: (low/med) LOW Date Received: 07/19/95

% Moisture: not dec. Date Analyzed: 07/25/95

GC Column: DB 624 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

COMPOUND	Conc	Spike	Recovery
1,1-Dichloroethene	51	50	101
Benzene	53	50	105
Trichloroethene	53	50	107
Toluene	55	50	110
Chlorobenzene	54	50	108

11A

VOLATILE ORGANICS LAB CONTROL SPIKE

EPA SAMPLE NO.

LCS

Lab Name: ENVIRONMETRICS Contract: GEOTECHNOLOG

Lab Code: 8240 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: VBLCS207A

Sample wt/vol: 5.0 (g/ml) Lab File ID: >B8008

Level: (low/med) LOW Date Received: 07/19/95

% Moisture: not dec. Date Analyzed: 07/26/95

GC Column: DB 624 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

COMPOUND	Conc	Spike	Recovery
1,1-Dichloroethene	48	50	95
Benzene	47	50	94
Trichloroethene	53	50	105
Toluene	51	50	101
Chlorobenzene	48	50	96

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ENVIRONMETRICS Contract: GEOTECHNOLOGY

Lab code: 8240 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (DCE)#	S2 (TOL)#	S3 (BFB)#	S4 ( )#	TOT OUT
01	VBBLK206A	106	101	105		0
02	VBLCS206A	113	102	107		0
03	MW-1 RE	117 *	96	92		1
04	MW-3 RE	116 *	102	109		1
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		QC LIMITS	
S1 (DCE) =	1,2-Dichloroethane-d4	(76-114)	
S2 (TOL) =	Toluene-D8	(88-110)	
S3 (BFB) =	Bromofluorobenzene	(86-115)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ENVIRONMETRICS Contract: GEOTECHNOLOGY

Lab code: 8240 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (DCE)#	S2 (TOL)#	S3 (BFB)#	S4 ( )#	TOT OUT
01	VBBLK207A	104	94	93		0
02	VBLCS207A	115 *	94	102		1
03	DECON RE	119 *	88 *	86		2
04	MW-TB RE	117 *	95	97		1
05						
06						
07						
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		QC LIMITS	
S1 (DCE)	= 1,2-Dichloroethane-d4	(76-114)	
S2 (TOL)	= Toluene-D8	(88-110)	
S3 (BFB)	= Bromofluorobenzene	(86-115)	(advisory)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

page __ of __.

11B

SEMIVOLATILE ORGANICS LAB CONTROL SPIKE

EPA SAMPLE NO.

WATER SPIKE

Name: Environmetrics Contract: GEOTECH.

ab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: WASLCS6572

ample wt/vol: 1000 (g/ml) ml Lab File ID: >A7747

Level: (low/med) LOW Date Received: 07/19/95

Moisture: decanted: (Y/N) N Date Extracted: 07/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/24/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: NA

COMPOUND	Conc.	Spike	Recovery
Phenol	130	200	65
2-Chlorophenol	140	200	70
1,4-Dichlorobenzene	45	100	45
N-Nitroso-Di-nPropylamine	192	160	92
1,2,4-Trichlorobenzene	56	100	56
4-Chloro-3-Methylphenol	170	200	83
Acenaphthene	69	100	69
4-Nitrophenol	150	200	77
2,4-Dinitrotoluene	71	100	71
Pentachlorophenol	170	200	85
Pyrene	73	100	73

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Environmetrics Contract: GEOTECH.

Lab code: Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: 9507262-2

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	200	0	150	75	12- 89
2-Chlorophenol	200	0	160	78	27-123
1,4-Dichlorobenzene	100	0	49	49	36- 97
N-Nitroso-Di-nPropylami	100	0	98	98	41-116
1,2,4-Trichlorobenzene	100	0	62	62	39- 98
4-Chloro-3-Methylphenol	200	0	200	102 *	23- 97
Acenaphthene	100	0	80	80	46-118
4-Nitrophenol	200	0	180	92 *	10- 80
2,4-Dinitrotoluene	100	0	83	83	24- 96
Pentachlorophenol	200	0	180	88	9-103
Pyrene	100	0	75	75	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	200	160	81	7	42	12- 89
2-Chlorophenol	200	160	82	5	40	27-123
1,4-Dichlorobenzene	100	48	48	2	28	36- 97
N-Nitroso-Di-nPropylami	100	96	96	2	38	41-116
1,2,4-Trichlorobenzene	100	61	61	1	28	39- 98
4-Chloro-3-Methylphenol	200	190	97	5	42	23- 97
Acenaphthene	100	74	74	9	31	46-118
4-Nitrophenol	200	180	89 *	3	50	10- 80
2,4-Dinitrotoluene	100	78	78	6	38	24- 96
Pentachlorophenol	200	160	80	9	50	9-103
Pyrene	100	72	72	4	31	26-127

column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits

Spike Recovery: 3 out of 22 outside limits

COMMENTS: _____

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Environmetrics Contract: GEOTECH.

Lab code: Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (DCB)#	S3 (FBP)#	S4 (TPH)#	S5 (PHL)#	S6 (2CP)#	S7 (2FP)#	S8 (TBP)#	TOT OUT
01	WASBLK6572	76	36	46	83	58	51	46	73	0
02	WASLCS6572	83	43	55	87	59	57	54	84	0
03	9507262-1	76	36	55	97	63	59	52	80	0
04	9507262-2	85	41	59	109	67	66	57	81	0
05	9507262-2MS	95	57	68	104	65	64	57	84	0
06	9507262-2MSD	90	43	59	95	70	66	58	82	0
07	9507262-3	87	68	72	103	48	61	48	88	0
08	9507262-4	81	58	61	78	41	48	30	68	0
09										
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)
S3 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S4 (TPH)	= Terphenyl-d14	(33-141)	
S5 (PHL)	= Phenol-d5	(10- 94)	
S6 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S7 (2FP)	= 2-Fluorophenol	(21-100)	
S8 (TBP)	= 2,4,6-Tribromophenol	(10-123)	

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

DEV:WATER

Lab Name: Environmetrics Contract: GEOTECH.

Lab code: Case No.: SAS No.: SDG No.:

Lab File ID: >A7748 Lab Sample ID: WASBLK6572

Instrument ID: HP5970 Date Extracted: 07/20/95

Matrix: (soil/water) WATER Date Analyzed: 07/24/95

Level: (low/med) LOW Time Analyzed: 10:12

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	WASLCS6572	WASLCS6572	>A7747	07/24/95
2	9507262-1	9507262-1	>A7767	07/24/95
3	9507262-2	9507262-2	>A7781	07/25/95
4	9507262-2M	9507262-2MS	>A7782	07/25/95
5	9507262-2M	9507262-2MSD	>A7783	07/25/95
6	9507262-3	9507262-3	>A7768	07/24/95
7	9507262-4	9507262-4	>A7802	07/26/95
9				
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COMMENTS: _____

page __ of __.

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ENVIRONMETRICS **Contract:** GEOTECHOLOGY

Lab code: 8240 **Case No.:** **SAS No.:** **SDG No.:**

	EPA SAMPLE NO.	S1 (DCE)#	S2 (TOL)#	S3 (BFB)#	S4 ( )#	TOT OUT
01	VBBLK205A	104	102	105		0
02	VBLCS205A	114 *	102	123 *		2
03	MW-1	115 *	102	100		1
04	MW-2	117 *	102	112		1
05	MW-2 MS	121 *	102	105		1
06	MW-2 MSD	115 *	98	99		1
07	MW-3	117 *	105	102		1
08	DECON	121 *	102	104		1
09	MW-TB	114 *	101	105		1
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		QC LIMITS	
S1 (DCE)	= 1,2-Dichloroethane-d4	(76-114)	
S2 (TOL)	= Toluene-D8	(88-110)	
S3 (BFB)	= Bromofluorobenzene	(86-115)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

page __ of __.

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 2203
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 07/19/95
Date Logged: 07/19/95
Status: Normal/LEVEL 4
Hubert Wheeler State School

Date Due (PM): 07/31/95 Proj #: 2498.03.4120.05
Date Due (Client): 08/03/95 P.O. #: 10181
Mode: Mail Quot #:

Items Transferred	Relinquished By	Date	Time	Received By	Date	Time	Reason For Transfer
5 VOA	PWoods	7/19/95	6:30 PM	[illegible]	7/20/95	9:35	VOA
1-4	PWoods	7/20/95	8:00 am	[illegible]	7-20	2:38	
0	[illegible]	7-20	2:21	[illegible]	7-20	2:21	SX's used
	[illegible]	7-21	11:20	[illegible]	7-21	11:20	Transfer
	[illegible]	7-24	4:05	[illegible]	7-24	4:05	Return
	PWoods	7-26	9:20	[illegible]	7-26	9:20	Metals
5	[illegible]	7/27/95	10:08	[illegible]	7/27	10:08	Return
	[illegible]	7/31/95	2:00	[illegible]	7/31	2:00	Return

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 2203
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 07/19/95
Date Logged: 07/19/95
Status: Normal/LEVEL 4
Hubert Wheeler State School

Date Due (PM): 07/31/95 Proj #: 2498.03.4120.05
Date Due (Client): 08/03/95 P.O. #: 10181
Mode: Mail Quot #:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests
18491 507000262-001-01	MW-1	WASTE WATER	3-40 ml VOA	Hydrochloric Acid	07/19/95		VOLATILE ORGANICS by GC/MS-SW-846 8240
	Sample Instructions:						
18492 507000262-001-02	MW-1	WASTE WATER	2-1 LITER GLASS	Cold	07/19/95		SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
18493 507000262-001-03	MW-1	WASTE WATER	1-1 LITER PLASTIC	Nitric Acid	07/19/95		PREPARATION,WATER, (Total)-SW-846 3010A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A TOTAL MERCURY-SW-846 7470A
	Sample Instructions:						
18494 MS / MSD 507000262-002-01	MW-2	WASTE WATER	2-1 LITER PLASTIC	Nitric Acid	07/19/95		PREPARATION,WATER, (Total)-SW-846 3010A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A TOTAL MERCURY-SW-846 7470A
	Sample Instructions:						
18495 MS / MSD 507000262-002-02	MW-2	WASTE WATER	6-40 ml VOA	Hydrochloric Acid	07/19/95		VOLATILE ORGANICS by GC/MS-SW-846 8240
	Sample Instructions:						
18496 MS / MSD 507000262-002-03	MW-2	WASTE WATER	1-1 gal GLASS	Cold	07/19/95		SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions: ALSO 2 1 L GLASS						
18497 507000262-003-01	MW-3	WASTE WATER	2-1 LITER GLASS	Cold	07/19/95		SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
18498 507000262-003-02	MW-3	WASTE WATER	3-40 ml VOA	Hydrochloric Acid	07/19/95		VOLATILE ORGANICS by GC/MS-SW-846 8240
	Sample Instructions:						
18499 507000262-003-03	MW-3	WASTE WATER	1-1 LITER PLASTIC	Nitric Acid	07/19/95		PREPARATION,WATER, (Total)-SW-846 3010A TOTAL ARSENIC-SW-846 6010A TOTAL BARIUM-SW-846 6010A CADMIUM-SW-846 6010A CHROMIUM-SW-846 6010A LEAD-SW-846 6010A SELENIUM-SW-846 6010A SILVER-SW-846 6010A

INTERNAL CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

COC : 2203
Geotechnology, Inc. - G034
2258 Grissom Drive
St. Louis, Mo. 63146
Sam Brenneke

Date Received: 07/19/95
Date Logged: 07/19/95
Status: Normal/LEVEL 4
Hubert Wheeler State School

Date Due (PM): 07/31/95 Proj #: 2498.03.4120.05
Date Due (Client): 08/03/95 P.O. #: 10181
Mode: Mail Quot #:

Sample Id. No.	Client Sample Name/Number	Matrix	Container	Preservative	Date Collected	Temp	Tests
507000262-003-03	MW-3	WASTE WATER	1-1 LITER PLASTIC	Nitric Acid	07/19/95		TOTAL MERCURY-SW-846 7470A
	Sample Instructions:						
18500 507000262-004-01	DECON / DEV;WATER	WASTE WATER	1-500 ml PLASTIC	Cold	07/19/95		pH-EPA 150.1 TOTAL SUSPENDED SOLIDS-EPA 160.2
	Sample Instructions:						
18501 507000262-004-02	DECON / DEV:WATER	WASTE WATER	1-500 ml PLASTIC	Nitric Acid	07/19/95		LEAD-SW-846 6010A
	Sample Instructions:						
18502 507000262-004-03	DECON / DEV:WATER	WASTE WATER	1-500 ml PLASTIC	Sulfuric Acid	07/19/95		COD (CHEMICAL OXYGEN DEMAND)-EPA 410.4
	Sample Instructions:						
18503 507000262-004-04	DECON / DEV:WATER	WASTE WATER	2-1 LITER GLASS	Cold	07/19/95		SEMIVOLATILE ORGANICS by CAPILLARY GC/MS-SW-846 8270
	Sample Instructions:						
18504 507000262-004-05	DECON / DEV:WATER	WASTE WATER	2-40 ml VOA	Hydrochloric Acid	07/19/95		VOLATILE ORGANICS by GC/MS-SW-846 8240
	Sample Instructions:						
18505 507000262-005-01	MW-TB	WASTE WATER	2-40 ml VOA	Hydrochloric Acid	07/19/95		VOLATILE ORGANICS by GC/MS-SW-846 8240
	Sample Instructions:						

tems Transferred	Relinquished By	Date		Logged In By	Date	Time
15		07/19/95	PM Signature : Karen Coons Client Services Rep.	Ann Quinlisk Sample Login Specialist	07/19/95	17:53:45

Karen Coons

GEOTECHNOLOGY, INC.
ENGINEERING & ENVIRONMENTAL SERVICES
ST. LOUIS KANSAS CITY INDIANAPOLIS

Page ____ of ____

CHAIN OF CUSTODY RECORD

COC Record # 2203 P.O. # 10181

Project No. 2498.03.4120.05

Project Name: Hubert Wheeler State School

Shipper Name: Geotechnology, Inc

Address: 2258 Grissom Drive St. Louis MO

Sampler's Signature: [signature] Telephone # 997-7440

Contact: Sam Brennecke Telephone # Same

Collectors Sample #	Date	Time	Sample Type	No. of Containers	Analysis	Remarks
MW-2	7/19/95	1330	Water	3-40ml	Volatile Organics	
↓	↓	↓	↓	2-liter 1-liter	Semi-Volatiles Total Metals (RCRA 8)	
↓	↓	↓	↓	3-40ml 2-liter	Volatile Organics Semi-Volatiles	} use for MS/MSD
↓	↓	↓	↓	1-liter	Total Metals (RCRA 8)	
MW-3	↓	1410	↓	3-40 ml	Volatile Organics	
↓	↓	↓	↓	2-liter 1-liter	Semi-Volatiles Total Metals (RCRA 8)	
MW-1	↓	1430	↓	3-40 ml	Volatile Organics	
↓	↓	↓	↓	2-liter 1-liter	Semi-Volatiles Total Metals (RCRA 8)	
Decon/DW Water	↓	1450	↓	1-500 ml 1-500 ml	pH, TSS Total Lead	
↓	↓	↓	↓	1-500 ml 2-liter	COD Semi-Volatiles	
↓	↓	↓	↓	2-40 ml	Volatile Organics	
MW-TB	↓		↓	2-40 ml	Volatile Organics	

Receiver Name: Environmetrics, Inc
(Company Name and Address)

Chain of Possession:

From: [signature] 7/19/95
(Name and Date/Time)

To: P Woods 7/19/95 4:45 pm
(Name and Date/Time)

From: _____ To: _____

White copy to Laboratory • Yellow copy to COC File • Pink copy to Job File

APPENDIX I

LIMITATIONS OF REPORT

LIMITATIONS OF REPORT

1. The geophysical analyses, conclusions, and recommendations contained herein are based on the site conditions, project layout, grid size, geophysical data, and interpretive procedures described herein, and are for preliminary planning purposes only. Subsurface exploration would be required to verify below grade conditions.

2. The geophysical data were prepared for the exclusive use of the engineer for evaluating the design of the project as it related to the geophysical aspects discussed herein. It should be made available to prospective contractors for information on data only and not as a warranty of subsurface conditions.

3. This report has been prepared on behalf of and for the exclusive use of the addressee, solely for use in assessing conditions at the site. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party in whole or in part, without the prior written consent of Geotechnology. However, Geotechnology acknowledges and agrees that the report may be conveyed to the regulatory agencies as desired.

4. The assessment was performed in general accordance with appropriate state guidelines and generally accepted practices of other consultants undertaking similar assessments at the same time and in the same geographical area, and Geotechnology observed that degree of care and skill generally exercised by other consultants under similar circumstances and conditions. The findings and conclusions stated herein must be considered not as scientific certainties, but rather as professional opinions concerning the significance of the limited data gathered during the course of the assessment. No other warranty, express or implied, is made. Specifically, Geotechnology does not and cannot represent that the site contains no hazardous waste or material, oil (including petroleum products) or other latent condition beyond that observed by Geotechnology during the assessment.

5. The observations described in the Report were made under the conditions stated therein. The conclusions presented in the Report were based solely upon the services described therein, and not on scientific tasks or procedure beyond the scope of described services. The work described in this report was carried out in accordance with the Contract which both parties have previously executed.

6. In the event that information is developed relative to environmental or hazardous waste or material issues at the site and not contained in this report, such information shall be brought to Geotechnology's attention. Geotechnology will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this Report.

7. The conclusions and recommendations contained in this Report are based in part upon the data obtained from a limited number of soil and/or groundwater samples obtained from widely spaced sampling. The identified presence of contaminated soil is limited to the extent that contaminated soil could be identified by color, smell, instrumentation and

sampling and testing. There is a potential for contaminated soil above the indicated concentrations to occur elsewhere on the site. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, and/or if changes are made in regulations, it will be necessary to reevaluate the conclusions and recommendations of this report.

8. Quantitative laboratory testing was performed as part of the site assessment by an outside laboratory, Geotechnology has relied upon the data provided, and has not conducted an independent evaluation of the reliability of these data.

9. Chemical analyses have been performed for specific parameters during the course of this assessment as described in the text. However, it should be noted that additional chemical constituents not searched for during the assessment could be present in soil and/or groundwater at the site.