



FAX

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Date: March 30, 2000

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Project No.: 6262.000.0

Project Name: Canterbury Residential Development

REMARKS:

Hard copy to follow Urgent For your review Reply ASAP Please comment

Attached please find the text, tables, and figures for the Soil Sampling Report. A complete hard copy with all of the Attachments will be overnighted. Thank you.

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March 30, 2000
Project 6262.000.0

ENVIRONMENTAL
PROTECTION

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SMIC 6669A

Mr. Hugh J. Murphy
City of Hayward Fire Department
777 B Street
Hayward, CA 94541-5007

Subject: Soil Sampling Results – Telford Court
Canterbury Residential Development
Hayward, California

Dear Mr. Murphy:

On behalf of the City of Hayward, Geomatrix Consultants, Inc. (Geomatrix) has prepared this summary of the results of a soil sampling program performed on residential properties on Telford Court in the Canterbury Residential Development in Hayward, California (Figure 1). The scope of work described herein was based on Geomatrix' March 17, 2000 work plan ("the work plan").¹

Based on reports by third parties, affected soil from other properties in the development may have been moved to the vicinity of Telford Court and possibly removed subsequently. The goal of this sampling effort was to evaluate soil conditions on eight residential parcels (Lots 33 to 40) on Telford Court. To achieve this goal, soil samples were collected and analyzed for chemicals of potential concern and detected concentrations were evaluated relevant to future residential land use.

This report is divided into four sections. The first section describes the methods used to collect the soil samples. The second section describes the analytical methods used by the laboratories. The third section presents the results of the field and analytical programs. The fourth section summarizes a comparison of the concentrations detected to levels considered acceptable by the U.S. Environmental Protection Agency (U.S. EPA) for residential land use.

FIELD PROGRAM

Prior to performing the field investigation, Geomatrix completed the following tasks: prepared a Health and Safety Plan; obtained a boring permit from the Alameda County Public Works Department (Attachment A); and cleared boring locations for underground utilities by notifying appropriate utilities through Underground Service Alert (USA). Prior to drilling, Geomatrix consulted in the field with a representative of the City of Hayward Department of Public Works regarding underground utilities.

¹ Geomatrix Consultants, Inc., 2000, Soil Sampling Plan, Canterbury Residential Development, Hayward, California, March 17.



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On March 20, 2000, Geomatrix supervised the advancement of 24 borings (GMX-33A, B, C through GMX-40A, B, C,) in the 8 residential lots at Telford Court (Figure 2). Precision Sampling, Inc., a California-licensed drilling firm from Richmond, California, advanced the borings using two direct-push drill rigs (an MD-1 and a DA-2).

The borings were continuously cored to a depth of about 9 feet below ground surface (bgs). The top 1.5 feet of the borings advanced with the MD-1 rig were cored using a California-modified split spoon sampler lined with stainless steel tubes. At this depth, the drillers converted to a dual tube (Enviro-core™) sampling system to complete the borings. The borings advanced with the DA-2 rig were continuously cored from the ground surface using the Enviro-core™ sampling system. The inner sample barrel of the Enviro-core system was lined with stainless steel tubes.

The recovered soil was logged in accordance with the Unified Soil Classification System visual-manual procedure (ASTM D2488-90) under the direction of a Geomatrix geologist registered in the State of California. The soil was screened in the field for volatile organic compounds (VOCs) using an organic vapor monitor equipped with a photoionization detector (PID).

As presented in the work plan, soil samples were collected at three depth intervals (approximately 0.5 to 1.5 feet bgs, 4.0 to 5.0 feet bgs, and 7.0 to 8.0 feet bgs) at each boring location. Because soil samples were to be submitted to two separate laboratories for specific analyses, two samples were collected from each of the three depth intervals at each boring. Samples were designated by lot number, sequential alpha character per lot, and depth (e.g., GMX33B-1.5).

Samples were packaged for laboratory analyses by covering the ends of each sampling tube with Teflon sheets and plastic caps. The caps were secured with silicon tape. The soil samples were labeled, placed in resealable plastic bags, and stored in coolers with ice pending delivery to an analytical laboratory under Geomatrix chain-of-custody.

All downhole equipment, including outer drive casing, inner sample barrels, drive rods, and sample tubes, was steam cleaned prior to borehole advancement at each location. Soil cuttings and cleaning water rinsate were placed in labeled 55-gallon drums pending characterization for disposal by SummerHill Homes.

ANALYTICAL PROGRAM

As outlined in the work plan, the analytical program was designed in a phased approach. Initially, soil samples from one boring in each lot were submitted to the laboratory for



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analyses; the soil samples from the other 16 borings were held at the laboratory pending review of the analytical results of the initial samples. Figure 2 shows the eight borings from which soil samples were initially analyzed (samples designated "B" on Lots 33 to 34 and designated "C" on lots 35 to 40). The analyses performed on these samples were selected to provide a broad spectrum of analytes that may be associated with industrial and agricultural operations and were consistent with previous analyses conducted at the property.

Soil samples from the upper 0.5-foot of each sampling interval were submitted to Chromalab, a California-certified analytical laboratory located in Pleasanton, California. Twenty-four of the 72 soil samples submitted were analyzed for:

- Title 22 metals, in accordance with U.S. EPA 6000/7000 series methods;
- pesticides, in accordance with U.S. EPA Method 8081; and
- polychlorinated biphenyls (PCBs), in accordance with U.S. EPA Method 8082.

Soil samples from the lower 0.5-foot of each sampling interval were submitted to Friedman & Bruya, a California-certified analytical laboratory in Seattle, Washington. Twenty-four of the 72 soil samples submitted were analyzed for:

- total petroleum hydrocarbons quantified as motor oil (TPH_{mo}), in accordance with U.S. EPA Method 8015, modified after a silica gel cleanup;
- VOCs, in accordance with U.S. EPA Method 8260; and
- polycyclic aromatic hydrocarbons (PAHs), in accordance with U.S. EPA Method 8270C SIM (selected ion mode).

Based on review of the initial analytical results (discussed in the following section), shallow soil samples (1.5 feet bgs) from three borings (GMX-39C, GMX-40A, and GMX-40B) were removed from hold status and analyzed for PAHs and TPH_{mo} (Figure 2). In addition, the 1.5-foot soil sample from boring GMX-40C was reanalyzed for PAHs using remaining soil from the opposite end of the sample tube.

For quality assurance/quality control (QA/QC) purposes, the laboratories analyzed method blanks, matrix spike/matrix spike duplicate samples, and laboratory control samples. In addition, Friedman and Bruya analyzed laboratory duplicate samples.

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RESULTS OF FIELD PROGRAM

This section presents the results of the field program. A summary of the soil types observed during drilling and a discussion of the analytical results follow.

SOIL CLASSIFICATION

Soil beneath the Telford Court area consists primarily of lean clay and lean clay with sand. The upper three feet typically consists of firm, dark gray to dark brown, lean clay with minor amounts of fine to coarse sand and fine gravel, that appears to be fill material². The upper fill unit is underlain by lean clay that grades in color from dark gray to light gray or brown. From depths of approximately 6 to 9 feet bgs, soft, gray to brown, lean clay with sand was typically observed.

Groundwater was not encountered during soil sampling activities. No indications of chemical impacts such as elevated PID readings, odor, or staining were observed. Therefore, no adjustments to the soil sampling program presented in the work plan were made in the field. Soil boring logs for the 11 borings from which soil samples were analyzed are included as Attachment B.

ANALYTICAL LABORATORY RESULTS

Soil Sample Results

Analytical results for PCBs, pesticides, metals, PAHs and TPHmo, and VOCs are summarized in Tables 1 through 5, respectively. Laboratory data sheets from Chromalab and Friedman and Bruya are presented in Attachments C and D, respectively. QA/QC results are included as Attachment E.

PCBs were not detected in any of the samples analyzed (analyte quantitation limit of 0.05 milligrams per kilogram [mg/kg]).

Pesticides were detected in four samples at the site (GMX34B-1.0, GMX36C-4.5, GMX37C-1.0, and GMX37C-4.5). Pesticides were not detected in the deepest samples analyzed (7.0 to 8.0 feet bgs). Dieldrin was detected in two samples at 2.2 and 16 micrograms per kilogram ($\mu\text{g}/\text{kg}$); endrin aldehyde was detected in one sample at 11 $\mu\text{g}/\text{kg}$, and 4,4'-DDE was detected in three samples at 2.0 to 2.2 $\mu\text{g}/\text{kg}$.

² This interpretation is consistent with SummerHill Homes statement that soil in the Telford Court area was overexcavated to approximately 3 feet bgs and replaced/compacted for geotechnical purposes prior to construction (meeting at City of Hayward, March 24, 2000).

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Eleven metals (shown below), which occur naturally in soils, were detected at the site. With the exception of cadmium and mercury, these metals were detected in at least 21 of the 24 samples analyzed. Cadmium was only detected in two samples and mercury was detected in nine samples. The range of detections for the eleven metals are presented below:

Arsenic: 1.0 to 7.2 mg/kg	Lead: 4.2 to 31 mg/kg
Barium: 19 to 320 mg/kg	Mercury: 0.052 to 0.39 mg/kg
Cadmium: 0.52 to 0.55 mg/kg	Nickel: 19 to 51 mg/kg
Chromium: 2.4 to 32 mg/kg	Vanadium: 1.5 to 57 mg/kg
Cobalt: 4.1 to 11 mg/kg	Zinc: 16 to 98 mg/kg
Copper: 3.9 to 48 mg/kg	

TPHmo was detected in ten of the eleven shallow samples at concentrations from 75 to 760 mg/kg. TPHmo was not detected at location GMX-33B. The chromatogram for the TPHmo analyses was relatively consistent with the motor oil standard used by the laboratory (chromatograms provided in Attachment D). TPHmo was not detected in samples at 4.5/5.0 or 7.5/8.5 feet bgs.

One or more PAHs, commonly associated with petroleum hydrocarbons, were detected in three of the initial eight shallow samples. PAHs were not detected in any samples at 4.5/5.0 or 7.5/8.5. In GMX34B-1.5, only benzo(g,h,i)perylene was detected at 58 $\mu\text{g}/\text{kg}$. In GMX38C-1.5, only chrysene was detected (53 $\mu\text{g}/\text{kg}$). In GMX40C-1.5, ten PAHs were detected at concentrations ranging from 55 to 410 $\mu\text{g}/\text{kg}$. Based on the criteria established in the work plan³, the detections at GMX40C-1.5 required analyses of additional shallow samples in the vicinity of GMX40C. GMX40B-1.5, GMX40A-1.5, and GMX 39B-1.5 were subsequently analyzed for PAHs. Deeper samples were not analyzed because PAHs were not detected at depth, and the soil stratigraphy was distinctly different for the deeper samples. In addition, sample GMX40C-1.5 was reanalyzed using remaining soil from the other end of the sample container. PAHs were not detected in any of the reanalyzed samples.

Four VOCs, methylene chloride, naphthalene, 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene, were reported in samples from the laboratory. The laboratory identified methylene chloride as a laboratory contaminant in the sixteen samples in which it was

³ If concentrations of any analyte exceeded the corresponding residential preliminary remediation goal (PRG; U.S. EPA, 1999), the additional samples in the vicinity would be analyzed.

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reported. Naphthalene⁴, 1,3,5-trimethylbenzene, and/or 1,2,4-trimethylbenzene, commonly associated with petroleum hydrocarbons, were detected in two of the eight surface samples analyzed (GMX38C-1.5 and GMX40C-1.5 [also where PAHs were detected]). These three VOCs were not detected in samples at 4.5 or 7.5 feet bgs. Naphthalene was detected in both samples (at 11 µg/kg); 1,3,5-trimethylbenzene was detected in one sample (13 µg/kg) and 1,2,4-trimethylbenzene was detected in both samples (6 and 22 µg/kg).

Data Evaluation

In accordance with the work plan, the concentrations of pesticides, metals, VOCs, and PAHs detected at the site were compared with residential Preliminary Remediation Goals (PRGs) established by U.S. EPA Region 9⁵. Total petroleum hydrocarbon measurements, such as TPHmo, represent mixtures of chemicals that, because of their potentially highly variable composition, have no associated health criteria. Therefore, the toxicity of these mixtures is best described by the aggregate toxicity of key individual chemicals in the mixture. As is the practice in California⁶, only petroleum hydrocarbon constituents detected in soil, i.e., VOCs and PAHs, were considered for comparison to PRGs.

PRGs combine current EPA toxicity values with standard exposure factors to estimate concentrations in environmental media (e.g., soil) that are protective of human health, including sensitive subgroups, over a lifetime. For some chemicals, variations in exposure or toxicity assessment required in California have been applied and a "Cal-modified" PRG has been published. The Cal-modified PRGs have been used in this assessment, where available. If chemicals are present at concentrations below the PRGs, then exposure to these chemicals should not result in adverse health effects. If multiple chemicals are present, then the potential for adverse health effects associated with cumulative exposure may need to be evaluated. The presence of chemicals at concentrations exceeding PRGs does not indicate that adverse health effects will occur, but "suggests that further evaluation of the potential risks that may be posed by site contaminants is appropriate."⁵ The PRGs are listed at the bottom of the Tables 1 through 5 for detected chemicals.

⁴ Naphthalene is also reported in the PAH analysis results. The concentrations detected using the VOC analysis (U.S. EPA Method 8260) were below the quantitation limits for naphthalene for the corresponding samples reported on the PAH analysis (U.S. EPA 8270) because of interferences requiring dilution of the samples analyzed for PAHs.

⁵ U.S. EPA, 1999, Region 9 Preliminary Remediation Goals (PRGs), October 1.

⁶ Cal-EPA, 1994, Preliminary Endangerment Assessment Guidance Manual: Department of Toxic Substances control, Sacramento, California.

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With the exception of arsenic, dieldrin, and three PAHs in one sample, concentrations of all other analytes detected were at least 100 times lower than their respective PRG.

- Concentrations of arsenic (1.0 to 7.2 mg/kg) exceed the residential PRG of 0.32 mg/kg. However, like other metals, arsenic occurs naturally in soil and the concentration of arsenic was compared to background concentrations in the San Francisco Bay area.⁷ The maximum concentration of arsenic was well below the upper tolerance limit of the background concentration in the San Francisco Bay area. Thus, arsenic concentrations present at the site are considered representative of background concentrations in soil.
- The maximum concentration of dieldrin (16 µg/kg) was approximately one-half of the PRG (31 µg/kg). Dieldrin was detected in only one other sample at a concentration of 2.2 µg/kg, which is just above the quantitation limit. These results indicate that the presence of dieldrin in site soil is limited. ✓
- In one shallow sample (GMX40C-1.5), concentrations of benzo(a)anthracene (170 µg/kg) and benzo(b)fluoranthene (77 µg/kg) were at least 10 percent of their PRGs (620 µg/kg for both PAHs), and the concentration of benzo(a)pyrene (140 µg/kg) exceeded its PRG (62 µg/kg). Concentrations of PAHs in additional samples analyzed in the vicinity (within approximately 50 feet) were below quantitation limits (50 µg/kg). A reanalysis of remaining soil from the other end of the sample tube for GMX40C-1.5 (6 inches or less from the initial sample) was also below quantitation limits. These results indicate that the PAHs detected represent a shallow, isolated area of potentially affected soil that would not present a significant source of exposure.

Based on data presented in this report and comparisons of maximum detected soil concentrations to levels considered acceptable by U.S. EPA for residential site use, no further action is recommended and the lots at Telford Court can be occupied for residential use.

⁷Lawrence Berkeley National Laboratory, 1995, "Background Concentration of Metals in Soil at Lawrence Berkeley National Laboratory".



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Geomatrix appreciates this opportunity to provide consulting services to the City of Hayward.
If you have any further questions, please contact any of the undersigned.

Sincerely yours,
GEOMATRIX CONSULTANTS, INC.

Ann M. Holbrow
Senior Scientist

Thomas H. Gavigan, R.G., C.H.G.
Project Hydrogeologist

Susan Gallardo, P.E.
Principal Engineer

Attachments:

- Tables 1 through 5
- Figures 1 and 2
- Attachment A – Permit
- Attachment B – Boring Logs
- Attachment C – Laboratory Analytical Results - Metals, Pesticides, and PCBs
- Attachment D – Laboratory Analytical Results – TPHmo, PAHs, VOCs
- Attachment E – Results of Quality Assurance/Quality Control

cc: Susan Hugo – Alameda County Health Care Services
Barbara Cook – Department of Toxic Substances Control
Roger Brewer – California Regional Water Quality Control Board, San Francisco Bay Region
Mark Beskind – SummerHill Homes
Kim Brandt – LFR Levine*Fricke

TABLES

TABLE 1
SOIL ANALYTICAL RESULTS FOR POLYCHLORINATED BIPHENYLS¹
 Canterbury Residential Development
 Hayward, California

Concentrations reported in milligrams per kilogram (mg/kg)

Sample I.D.	Depth (feet)	Date	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
GMX33B-1.0	1.0	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX33B-4.0	4.0	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX33B-7.0	7.0	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX34B-1.0	1.0	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX34B-4.0	4.0	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX34B-7.0	7.0	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX35C-1.0	1.0	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX35C-4.0	4.0	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX35C-7.0	7.0	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX36C-1.0	1.0	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX36C-4.5	4.5	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX36C-8.0	8.0	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX37C-1.0	1.0	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX37C-4.5	4.5	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX37C-8.0	8.0	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX38C-1.0	1.0	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX38C-4.5	4.5	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX38C-8.0	8.0	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX39C-1.0	1.0	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX39C-4.5	4.5	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX39C-8.0	8.0	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX40C-1.0	1.0	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX40C-4.5	4.5	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
GMX40C-8.0	8.0	3/20/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Notes:

1. Analyzed in accordance with U.S. EPA Method 8082.

TABLE 2

SOIL ANALYTICAL RESULTS FOR ORGANOCHLORINE PESTICIDES¹

Canterbury Residential Development
Hayward, California

Concentrations reported in micrograms per kilogram (µg/kg)

Sample I.D.	Depth (feet)	Sample Date	Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Heptachlor	Heptachlor epoxide	4,4'-Methoxychlor	Toxaphene
GMX33B-1.0	1.0	3/20/00	<10	<10	<10	<10	<10	<250	<250	<10	<10	<50	<10	<50	<50	<50	<10	<50	<10	<10	<50	<500
GMX33B-4.0	4.0	3/20/00	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<50	<2.0	<2.0	<10	<2.0	<10	<10	<10	<2.0	<10	<2.0	<2.0	<10	<100
GMX33B-7.0	7.0	3/20/00	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<50	<2.0	<2.0	<10	<2.0	<10	<10	<10	<2.0	<10	<2.0	<2.0	<10	<100
GMX34B-1.0	1.0	3/20/00	<10	<10	<10	<10	<10	<250	<250	<10	<10	<50	16²	<50	<50	<50	<10	<50	<10	<10	<50	<500
GMX34B-4.0	4.0	3/20/00	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<50	<2.0	<2.0	<10	<2.0	<10	<10	<10	<2.0	<10	<2.0	<2.0	<10	<100
GMX34B-7.0	7.0	3/20/00	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<50	<2.0	<2.0	<10	<2.0	<10	<10	<10	<2.0	<10	<2.0	<2.0	<10	<100
GMX35C-1.0	1.0	3/20/00	<10	<10	<10	<10	<10	<250	<250	<10	<10	<50	<10	<50	<50	<50	<10	<50	<10	<10	<50	<500
GMX35C-4.0	4.0	3/20/00	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<50	<2.0	<2.0	<10	<2.0	<10	<10	<10	<2.0	<10	<2.0	<2.0	<10	<100
GMX35C-7.0	7.0	3/20/00	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<50	<2.0	<2.0	<10	<2.0	<10	<10	<10	<2.0	<10	<2.0	<2.0	<10	<100
GMX36C-1.0	1.0	3/20/00	<10	<10	<10	<10	<10	<250	<250	<10	<10	<50	<10	<50	<50	<50	<10	<50	<10	<10	<50	<500
GMX36C-4.5	4.5	3/20/00	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<50	<2.0	2.0	<10	<2.0	<10	<10	<10	<2.0	<10	<2.0	<2.0	<10	<100
GMX36C-8.0	8.0	3/20/00	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<50	<2.0	<2.0	<10	<2.0	<10	<10	<10	<2.0	<10	<2.0	<2.0	<10	<100
GMX37C-1.0	1.0	3/20/00	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<50	<2.0	4.4	<10	<2.0	<10	<10	<10	<2.0	11	<2.0	<2.0	<10	<100
GMX37C-4.5	4.5	3/20/00	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<50	<2.0	2.2	<10	2.2	<10	<10	<10	<2.0	<10	<2.0	<2.0	<10	<100
GMX37C-8.0	8.0	3/20/00	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<50	<2.0	<2.0	<10	<2.0	<10	<10	<10	<2.0	<10	<2.0	<2.0	<10	<100
GMX38C-1.0	1.0	3/20/00	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<50	<2.0	<2.0	<10	<2.0	<10	<10	<10	<2.0	<10	<2.0	<2.0	<10	<100
GMX38C-4.0	4.0	3/20/00	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<50	<2.0	<2.0	<10	<2.0	<10	<10	<10	<2.0	<10	<2.0	<2.0	<10	<100
GMX38C-8.0	8.0	3/20/00	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<50	<2.0	<2.0	<10	<2.0	<10	<10	<10	<2.0	<10	<2.0	<2.0	<10	<100
GMX39C-1.0	1.0	3/20/00	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<50	<2.0	<2.0	<10	<2.0	<10	<10	<10	<2.0	<10	<2.0	<2.0	<10	<100
GMX39C-4.0	4.0	3/20/00	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<50	<2.0	<2.0	<10	<2.0	<10	<10	<10	<2.0	<10	<2.0	<2.0	<10	<100
GMX39C-8.0	8.0	3/20/00	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<50	<2.0	<2.0	<10	<2.0	<10	<10	<10	<2.0	<10	<2.0	<2.0	<10	<100
GMX40C-1.0	1.0	3/20/00	<10	<10	<10	<10	<10	<250	<250	<10	<10	<50	<10	<50	<50	<50	<10	<50	<10	<10	<50	<500
GMX40C-4.5	4.5	3/20/00	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<50	<2.0	<2.0	<10	<2.0	<10	<10	<10	<2.0	<10	<2.0	<2.0	<10	<100
GMX40C-8.0	8.0	3/20/00	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<50	<2.0	<2.0	<10	<2.0	<10	<10	<10	<2.0	<10	<2.0	<2.0	<10	<100
PRGs ³			-- ⁴	--	--	--	--	--	--	--	1700	--	30	--	--	--	--	18000 ⁵	--	--	--	--

Note:

1. Analyzed in accordance with U.S. EPA Method 8081.
2. Detected values highlighted in bold.
3. PRGs - Residential Preliminary Remediation Goals (U.S. EPA, 1999).
4. -- PRGs only provided if analyte was detected.
5. A PRG has not been developed for this compound; the PRG for Endrin was used as a surrogate based on similar physico-chemical properties

TABLE 3

SOIL ANALYTICAL RESULTS FOR METALS¹

Canterbury Residential Development
Hayward, California

Concentrations reported in milligrams per kilogram (mg/kg)

Sample I.D.	Depth (feet)	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
GMX33B-1.0	1.0	3/20/00	<2.0	5.2²	320	<0.50	<0.50	32	10	41	14	0.11	<1.0	31	<2.0	<1.0	<1.0	49	98
GMX33B-4.0	4.0	3/20/00	<2.0	4.9	210	<0.50	<0.50	29	9.2	15	6.1	<0.050	<1.0	35	<2.0	<1.0	<1.0	33	27
GMX33B-7.0	7.0	3/20/00	<2.0	1.1	110	<0.50	<0.50	29	7.0	12	4.7	<0.050	<1.0	32	<2.0	<1.0	<1.0	21	30
GMX34B-1.0	1.0	3/20/00	<2.0	7.2	150	<0.50	<0.50	32	11	47	21	0.35	<1.0	32	<2.0	<1.0	<1.0	57	65
GMX34B-4.0	4.0	3/20/00	<2.0	4.7	200	<0.50	<0.50	27	6.9	14	5.1	<0.050	<1.0	30	<2.0	<1.0	<1.0	33	25
GMX34B-7.0	7.0	3/20/00	<2.0	1.4	120	<0.50	<0.50	27	7.0	13	5.1	<0.050	<1.0	36	<2.0	<1.0	<1.0	20	32
GMX35C-1.0	1.0	3/20/00	<2.0	3.8	180	<0.50	<0.50	29	9.1	35	14	0.074	<1.0	32	<2.0	<1.0	<1.0	39	56
GMX35C-4.0	4.0	3/20/00	<2.0	<1.0	120	<0.50	<0.50	22	6.0	13	5.8	<0.050	<1.0	24	<2.0	<1.0	<1.0	16	22
GMX35C-7.0	7.0	3/20/00	<2.0	2.6	110	<0.50	<0.50	29	8.2	12	5.1	<0.050	<1.0	51	<2.0	<1.0	<1.0	24	29
GMX36C-1.0	1.0	3/20/00	<2.0	3.4	130	<0.50	<0.50	25	7.5	38	18	0.062	<1.0	28	<2.0	<1.0	<1.0	28	76
GMX36C-4.5	4.5	3/20/00	<2.0	1.4	130	<0.50	<0.50	22	8.3	15	22	0.097	<1.0	23	<2.0	<1.0	<1.0	17	44
GMX36C-8.0	8.0	3/20/00	<2.0	1.2	110	<0.50	0.52	28	6.6	15	5.0	<0.050	<1.0	36	<2.0	<1.0	<1.0	21	34
GMX37C-1.0	1.0	3/20/00	<2.0	3.9	100	<0.50	0.55	29	9.6	34	31	0.21	<1.0	34	<2.0	<1.0	<1.0	42	87
GMX37C-4.5	4.5	3/20/00	<2.0	4.7	150	<0.50	<0.50	26	8.6	48	17	0.066	<1.0	30	<2.0	<1.0	<1.0	37	54
GMX37C-8.0	8.0	3/20/00	<2.0	5.0	150	<0.50	<0.50	26	8.7	47	17	<0.050	<1.0	30	<2.0	<1.0	<1.0	37	54
GMX38C-1.0	1.0	3/20/00	<2.0	2.8	130	<0.50	<0.50	21	6.2	18	12	0.052	<1.0	23	<2.0	<1.0	<1.0	25	33
GMX38C-4.5	4.5	3/20/00	<2.0	<1.0	100	<0.50	<0.50	20	7.3	11	4.8	<0.050	<1.0	21	<2.0	<1.0	<1.0	16	16
GMX38C-8.0	8.0	3/20/00	<2.0	1.0	73	<0.50	<0.50	21	4.1	9.4	4.2	<0.050	<1.0	28	<2.0	<1.0	<1.0	17	23
GMX39C-1.0	1.0	3/20/00	<2.0	<1.0	19	<0.50	<0.50	2.4	<1.0	3.9	9.5	<0.050	<1.0	<1.0	<2.0	<1.0	<1.0	1.5	66
GMX39C-4.5	4.5	3/20/00	<2.0	1.2	120	<0.50	<0.50	19	5.4	14	8.8	<0.050	<1.0	19	<2.0	<1.0	<1.0	16	22
GMX39C-8.0	8.0	3/20/00	<2.0	1.9	90	<0.50	<0.50	26	5.0	12	4.5	<0.050	<1.0	32	<2.0	<1.0	<1.0	19	29
GMX40C-1.0	1.0	3/20/00	<2.0	2.6	120	<0.50	<0.50	22	8.1	33	16	0.39	<1.0	25	<2.0	<1.0	<1.0	37	47
GMX40C-4.5	4.5	3/20/00	<2.0	1.5	160	<0.50	<0.50	24	7.9	13	5.4	<0.050	<1.0	29	<2.0	<1.0	<1.0	20	21
GMX40C-8.0	8.0	3/20/00	<2.0	1.7	130	<0.50	<0.50	27	6.3	13	4.6	<0.050	<1.0	32	<2.0	<1.0	<1.0	23	29
PRGs ³			-- ⁴	0.38	5400	--	9	210	4700	2900	400	23	--	150	--	--	--	550	23,000
Background ⁵			--	19.1	323.6	--	2.7	99.6	22.2	69.4	16.1	0.4	--	119.8	--	--	--	74.3	106.1

Notes:

1. California Code of Regulations (CCR) Title 22, Section 66261.24(a)(2)(A) metals. Analyzed in accordance with U.S. EPA Method Series 6000/7000.
2. Detected values highlighted in bold.
3. PRGs - Residential Preliminary Remediation Goals (U.S. EPA, 1999).
4. -- PRGs/background only provided if analyte was detected.
5. "Background Concentration of Metals in Soil at Lawrence Berkeley National Laboratory" (LBNL, 1995) (Upper tolerance limit concentrations from 71 borings).

TABLE 4

SOIL ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL AND POLYCYCLIC AROMATIC HYDROCARBONS¹
 Canterbury Residential Development
 Hayward, California

Polynuclear aromatic hydrocarbon concentrations are reported in micrograms per kilogram (ug/kg); total petroleum hydrocarbon concentrations are reported in milligrams per kilogram (mg/kg).

Sample I.D.	Depth (feet)	Sample Date	TPHmo ²	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
GMX33B-1.5	1.5	3/20/00	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
GMX33B-4.5	4.5	3/20/00	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMX33B-7.5	7.5	3/20/00	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMX34B-1.5	1.5	3/20/00	760	<50	<50	<50	<50	<50	<50	58³	<50	<50	<50	<50	<50	<50	<50	<50	<50
GMX34B-4.5	4.5	3/20/00	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMX34B-7.5	7.5	3/20/00	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMX35C-1.5	1.5	3/20/00	210	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
GMX35C-4.5	4.5	3/20/00	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMX35C-7.5	7.5	3/20/00	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMX36C-1.5	1.5	3/20/00	240	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500
GMX36C-5.0	5.0	3/20/00	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMX36C-8.5	8.5	3/20/00	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMX37C-1.5	1.5	3/20/00	410	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
GMX37C-5.0	5.0	3/20/00	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMX37C-8.5	8.5	3/20/00	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMX38C-1.5	1.5	3/20/00	410	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
GMX38C-5.0	5.0	3/20/00	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMX38C-8.5	8.5	3/20/00	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMX39B-1.5	1.5	3/20/00	150	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
GMX39C-1.5	1.5	3/20/00	370	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
GMX39C-5.0	5.0	3/20/00	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMX39C-8.5	8.5	3/20/00	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMX40A-1.5	1.5	3/20/00	75	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
GMX40B-1.5	1.5	3/20/00	370	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
GMX40C-1.5	1.5	3/20/00	640	<50	<50	55	170	140	77	120	<50	340	<50	71	61	<50	<50	370	410
GMX40C-1.5 (Duplicate)	1.5	3/20/00	na ⁴	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
GMX40C-5.0	5.0	3/20/00	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMX40C-8.5	8.5	3/20/00	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PRGs ⁵			NA ⁶	-- ⁷	--	22,000,000	620	62	620	3,700,000 ⁸	--	6100	--	2,300,000	2,600,000	--	--	22,000,000 ⁸	2,300,000

Notes:

- Analyzed in accordance with U.S. EPA Methods 8015 modified (TPHmo) and 8270 SIMS (polycyclic aromatic hydrocarbon), respectively.
- TPHmo - Total Petroleum Hydrocarbons as Motor Oil
- Detected values highlighted in bold.
- na - not analyzed.
- PRGs - Residential Preliminary Remediation Goals (U.S. EPA, 1999).
- Not available; PRGs have not been developed for mixtures. TPHmo evaluated based on the individual constituents detected.
- - PRGs only provided if analyte was detected.
- A surrogate PRG was used because a PRG was not available for this compound. The surrogate selected based on physico-chemical properties was:
 Acenaphthene for benzo(g,h,i)perylene;
 Anthracene for phenanthrene.

TABLE 5

SOIL ANALYTICAL RESULTS FOR SELECTED VOLATILE ORGANIC COMPOUNDS¹
 Canterbury Residential Development
 Hayward, California

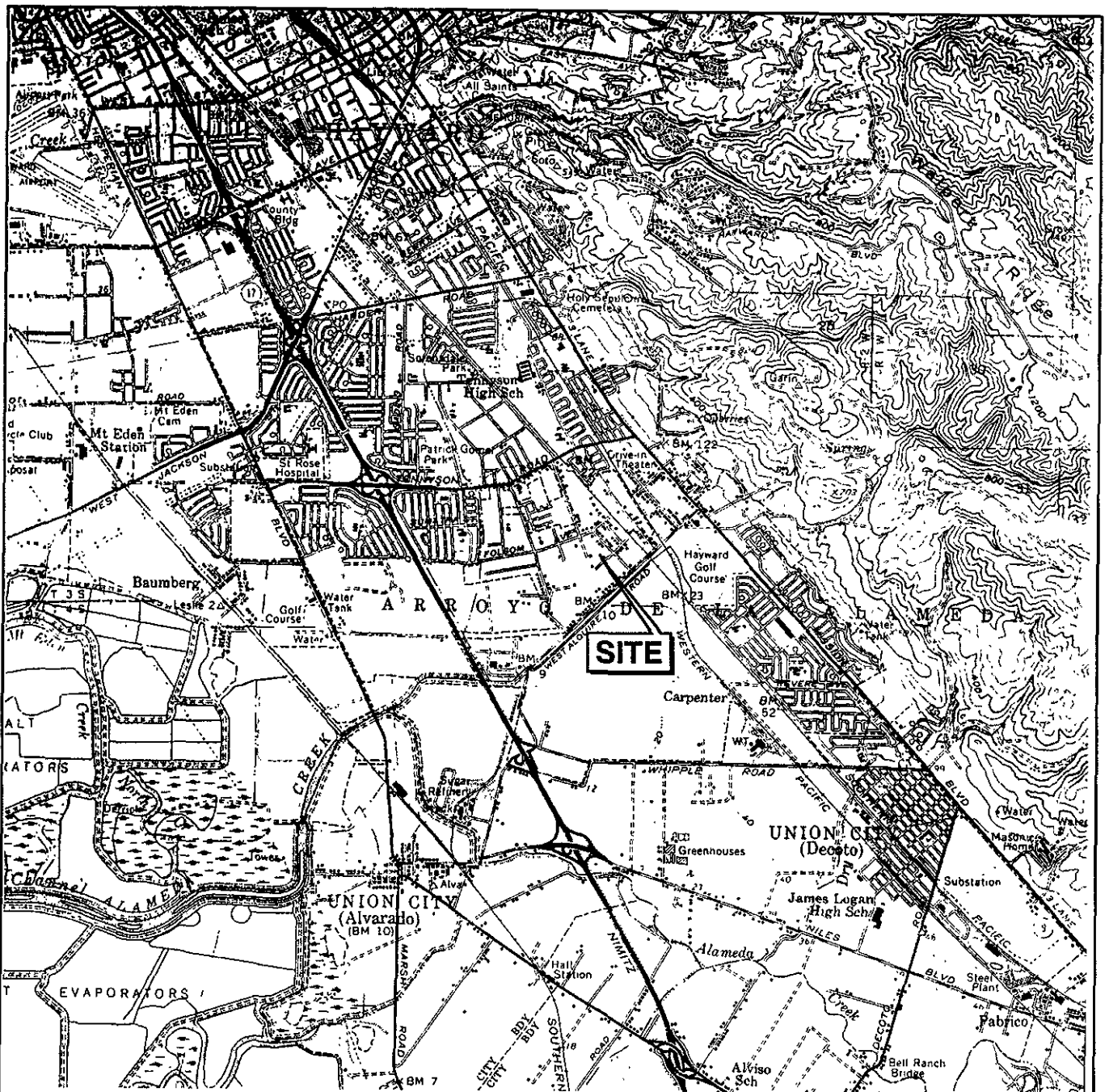
Concentrations reported in micrograms per kilogram (µg/kg)

Sample I.D.	Depth (feet)	Sample Date	Methylene chloride	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
GMX33B-1.5	1.5	3/20/00	55 lc ²	<5	<5	<5
GMX33B-4.5	4.5	3/20/00	<50	<5	<5	<5
GMX33B-7.5	7.5	3/20/00	<50	<5	<5	<5
GMX34B-1.5	1.5	3/20/00	55 lc	<5 I	<5 I	<5 I
GMX34B-4.5	4.5	3/20/00	54 lc	<5	<5	<5
GMX34B-7.5	7.5	3/20/00	51 lc	<5	<5	<5
GMX35C-1.5	1.5	3/20/00	<50	<5	<5	<5
GMX35C-4.5	4.5	3/20/00	<50	<5 I	<5 I	<5 I
GMX35C-7.5	7.5	3/20/00	<50	<5	<5	<5
GMX36C-1.5	1.5	3/20/00	59 lc	<5 I	<5 I	<5 I
GMX36C-5.0	5.0	3/20/00	70 lc	<5 I	<5 I	<5 I
GMX36C-8.5	8.5	3/20/00	74 lc	<5	<5	<5
GMX37C-1.5	1.5	3/20/00	79 lc	<5	<5	<5
GMX37C-5.0	5.0	3/20/00	60 lc	<5	<5	<5
GMX37C-8.5	8.5	3/20/00	<50	<5	<5	<5
GMX38C-1.5	1.5	3/20/00	73 lc	11	<5	6³
GMX38C-5.0	5.0	3/20/00	86 lc	<5	<5	<5
GMX38C-8.5	8.5	3/20/00	55 lc	<5	<5	<5
GMX39C-1.5	1.5	3/20/00	<50	<5	<5	<5
GMX39C-5.0	5.0	3/20/00	56 lc	<5	<5	<5
GMX39C-8.5	8.5	3/20/00	60 lc	<5	<5	<5
GMX40C-1.5	1.5	3/20/00	120 lc	11 I	13 I⁴	22 I
GMX40C-5.0	5.0	3/20/00	<50	<5	<5	<5
GMX40C-8.5	8.5	3/20/00	54 lc	<5	<5	<5
PRGs ⁵			8900	56,000	5,700	21,000

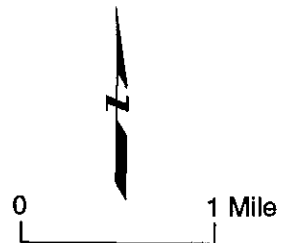
Notes:

1. Analyzed in accordance with U.S. EPA Method 8260. Only detected analytes included.
2. lc - The presence of the compound indicated is likely due to laboratory contamination.
3. Detected values highlighted in bold.
4. I- The internal standard associated with the analyte is out of control limits. The reporting limit or reported concentration is an estimate.
5. PRGs - Residential Preliminary Remediation Goals (U.S. EPA 1999).

FIGURES



Base map from U.S. Geological Survey; Hayward Quadrangle (California), 15 Minute series (topographic), 1959.



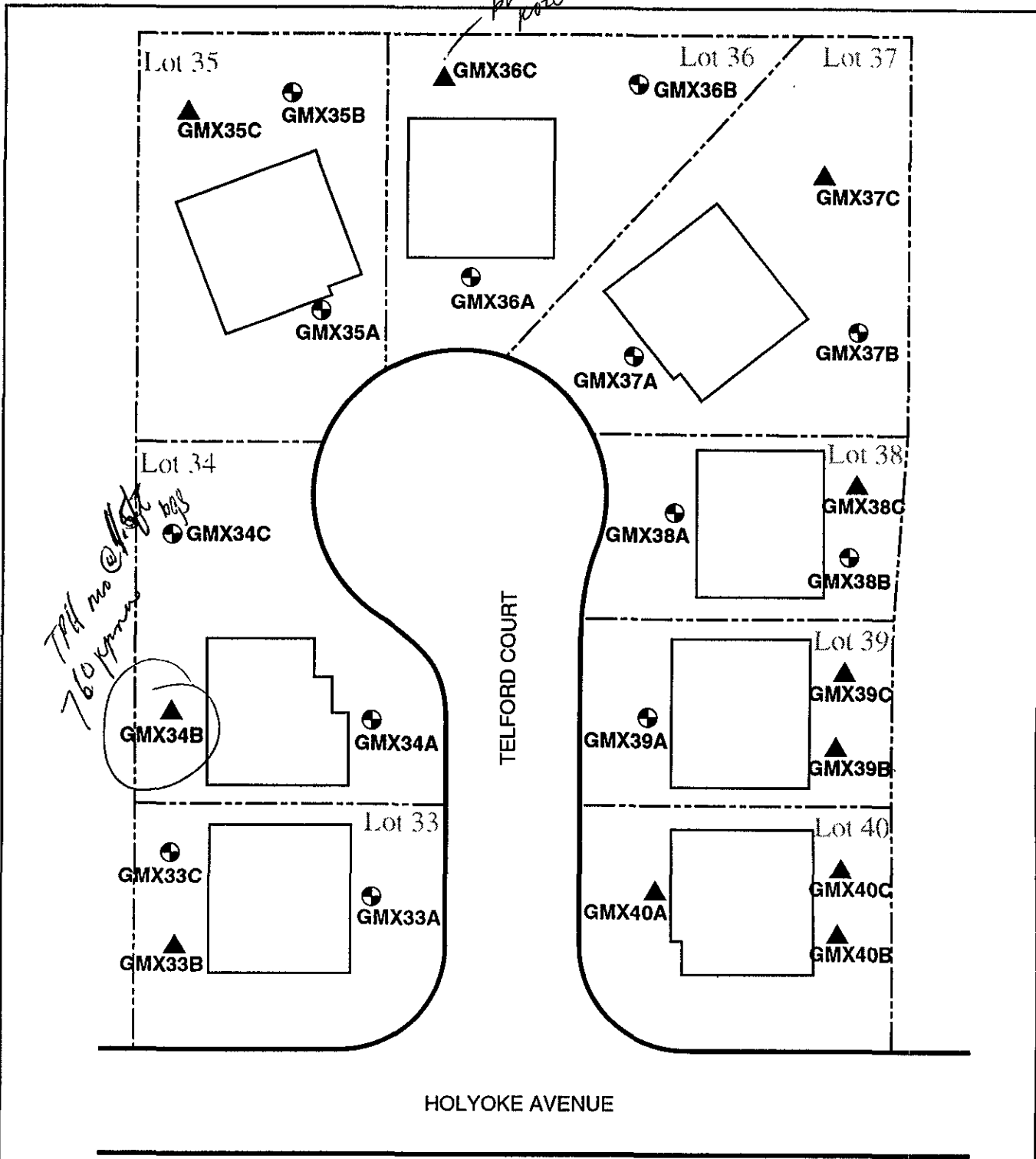
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SITE VICINITY MAP
 Canterbury Residential Development
 Olympic Avenue
 Hayward, California

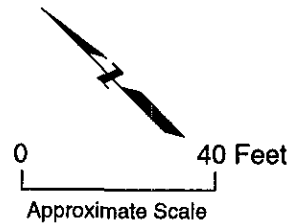
Project No.
6262

Figure
1



EXPLANATION

- Boring location
- ▲ Boring location where samples were analyzed



S:\62600s\6262\hna003_fig_02.ai



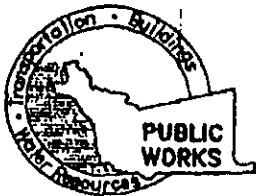
BORING LOCATIONS
 Canterbury Residential Development
 Hayward, California

Project No.
6262

Figure
2

ATTACHMENT A

Permit



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
379 ELMHURST ST., HAYWARD, CA 94544
PHONE (510) 478-5210 MARLON MAGALLANES/ONDY HUTCHINSON (510) 670-5554
FAX (510) 478-5262 (510) 782-1939 fax

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Canterbury Development,
Olympic Avenue, Hayward, CA
→ see attached figure ←

CLIENT Name City of Hayward
Address 777 B Street, Phone 510-583-4924
City Hayward, CA Zip 94541

APPLICANT Name Ms. Ann Holbrook
Geomatrix Consultants Fax 510-663-4141
Address 2101 Webster St., 12th Floor Phone 510-663-4100
City Oakland, CA Zip 94612

TYPE OF PROJECT
Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction
SOIL BORINGS (Environmental sampling)
PROPOSED WATER SUPPLY WELL USE
New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other

DRILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other (direct push)

DRILLER'S LICENSE NO. 057 686387 (Precision Sampling, Inc.)

WELL PROJECTS
Drill Hole Diameter 2 in. Maximum Depth 8 ft.
Casing Diameter N/A in. Number 24
Surface Seal Depth N/A ft.

GEOTECHNICAL PROJECTS
Number of Borings N/A Maximum Depth N/A ft.
Hole Diameter N/A in.

ESTIMATED STARTING DATE 3/20/00
ESTIMATED COMPLETION DATE 3/20/00

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Ann H. Holbrook DATE 3/16/00

FOR OFFICE USE

PERMIT NUMBER W00-117
WELL NUMBER _____
APN _____

PERMIT CONDITIONS Circled Permit Requirements Apply

- A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
 2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources Well Completion Report.

3. Permit is void if project not begun within 90 days of approval date.
- B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole with cement grout or cement grout/sand mixture. Upper two-three feet shall be compacted cuttings.

E. CATHODIC
Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
See attached.

G. SPECIAL CONDITIONS

APPROVED Frank & Codd DATE 3-16-00

ATTACHMENT B

Boring Logs

PROJECT: CANTERBURY RESIDENTIAL DEVELOPMENT Hayward, California	Boring Log Explanation Sheet
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BORING LOCATION:		ELEVATION AND DATUM:	
DRILLING CONTRACTOR:		DATE STARTED:	DATE FINISHED:
DRILLING METHOD:		TOTAL DEPTH (ft.): --	MEASURING POINT:
DRILLING EQUIPMENT:		DEPTH TO WATER	FIRST COMPL.
SAMPLING METHOD:		LOGGED BY:	
HAMMER WEIGHT:	DROP:	RESPONSIBLE PROFESSIONAL:	REG. NO

DEPTH (feet)	SAMPLES				PID READING (ppm)	DESCRIPTION	REMARKS
	Sample No	Sample	Blows/ Foot			NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
Surface Elevation:							
1						1. Soil descriptions are in accordance with the USCS as set forth by ASTM D2488-90 "Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)."	
2						2. Soil color described according to Munsell Color Chart.	
3						3. Dashed lines separating soil strata represent inferred boundaries between sampled intervals that may be abrupt or gradual transitions. Solid lines represent approximate boundaries observed within sampled intervals.	
4						4. OVM = organic vapor meter, readings in parts per million.	
5						5. Odor, if noted, is subjective and not necessarily indicative of specific compounds or concentrations.	
6							
7							
8						Interval of recovered soil collected with continuous core sampler	
9						Interval of recovered soil core collected with split-spoon drive sampler	
10							
11						Interval of no recovery	
12							
13	GMX33B-10					Sample collected for chemical analysis and sample identification	
14							
15							

PROJECT: CANTERBURY RESIDENTIAL DEVELOPMENT Hayward, California		Log of Boring No. GMX-33B	
BORING LOCATION: Lot 33 backyard		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Precision Sampling Incorporated		DATE STARTED: 3/20/00	DATE FINISHED: 3/20/00
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 9.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: DA-2		DEPTH TO WATER	FIRST ND COMPL. ND
SAMPLING METHOD: Enviro-core sampling system [3'x 1 5/8"]		LOGGED BY: T. Gavigan	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: T. Gavigan	REG. NO. RG 6782

DEPTH (feet)	SAMPLES			PID READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
0					Surface Elevation: Not surveyed	
1	GMX33B-1 0			0	LEAN CLAY with SAND (CL): dark olive gray (10Y 3/2), moist, 85% fines, 15% fine to coarse sand, trace gravel, low plasticity, firm	OVM = Thermo Environmental Instruments, 580B PID calibrated with 100 ppm Isobutylene standard
2	GMX33B-1 5			0		
3				0		
4	GMX33B-4 0			0	LEAN CLAY (CL): dark olive gray (10Y 3/2), moist, 95% fines, 5% fine sand, low plasticity, firm	
5	GMX33B-4 5			0	mottled with olive brown (2.5Y 4/4)	
6				0		
7	GMX33B-7 0			0	LEAN CLAY with SAND (CL): olive brown (2.5Y 9/4), moist, 85% fines, 15% fine sand, low plasticity, soft	
8	GMX33B-7 5			0		
9					Bottom of boring at 9.0 feet	
10						
11						
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PROJECT: CANTERBURY RESIDENTIAL DEVELOPMENT Hayward, California		Log of Boring No. GMX-34B	
BORING LOCATION: Lot 34 backyard		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Precision Sampling Incorporated		DATE STARTED: 3/20/00	DATE FINISHED: 3/20/00
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 9.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: DA-2		DEPTH TO WATER	FIRST ND COMPL. ND
SAMPLING METHOD: Enviro-core sampling system [3'x 1 5/8"]		LOGGED BY: T. Gavigan	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: T. Gavigan	REG. NO. RG 6782

DEPTH (feet)	SAMPLES			PID READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
					Surface Elevation: Not surveyed	
1	GMX34B-1.0			0	LEAN CLAY with SAND (CL): very dark gray (5Y 3/1), moist, 85% fines, 15% fine to coarse sand, low to medium plasticity, firm	OVM = Thermo Environmental Instruments, 580B PID calibrated with 100 ppm Isobutylene standard
2	GMX34B-1.5			0	SILTY SAND (SM)	
3	GMX34B-4.0			0	LEAN CLAY (CL): very dark gray (5Y 3/1), moist, 95% fines, 5% fine sand, low to medium plasticity, firm	
4	GMX34B-4.5			0	mottled with olive brown (5Y 5/2)	
5	GMX34B-7.0			0	SANDY LEAN CLAY (CL)	
6	GMX34B-7.5			0	LEAN CLAY with SAND (CL): olive (5Y 4/3), moist, 85% fines, 15% fine sand, low to medium plasticity, soft	
7				0		
8				0		
9				0		
9.0					Bottom of boring at 9.0 feet	
10						
11						
12						
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14						
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PROJECT: CANTERBURY RESIDENTIAL DEVELOPMENT Hayward, California		Log of Boring No. GMX-35C	
BORING LOCATION: Lot 35 backyard		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Precision Sampling Incorporated		DATE STARTED: 3/20/00	DATE FINISHED: 3/20/00
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 9.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: DA-2		DEPTH TO WATER	FIRST ND COMPL. ND
SAMPLING METHOD: Enviro-core sampling system [3' x 1 5/8"]		LOGGED BY: T. Gavigan	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: T. Gavigan	REG. NO. RG 6782

DEPTH (feet)	SAMPLES			PID READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
0				0	Surface Elevation: Not surveyed	
1	GMX35C-1.0			0	LEAN CLAY with SAND (CL): very dark gray (5Y 3/1), moist, 85% fines, 15% fine to coarse sand, medium to low plasticity, firm	OVM = Thermo Environmental Instruments, 580B PID calibrated with 100 ppm isobutylene standard
2	GMX35C-1.5			0		
3		X		0		
4	GMX35C-4.0			0	LEAN CLAY (CL): very dark gray (5Y 3/1), moist, 95% fines, 5% fine sand, low to medium plasticity, firm	
5	GMX35C-4.5			0	light grayish brown (2.5Y 6/2)	
6		X		0		
7	GMX35C-7.0			0	LEAN CLAY with SAND (CL): olive brown (2.5Y 4/2), moist, 85% fines, 15% fine sand, low to medium plasticity, soft	
8	GMX35C-7.5			0	SANDY LEAN CLAY (CL)	
9		X		0		
9.0					Bottom of boring at 9.0 feet	
10						
11						
12						
13						
14						
15						

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PROJECT: CANTERBURY RESIDENTIAL DEVELOPMENT Hayward, California		Log of Boring No. GMX-36C	
BORING LOCATION: Lot 36 backyard		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Precision Sampling Incorporated		DATE STARTED: 3/20/00	DATE FINISHED: 3/20/00
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 9.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: MD-1		DEPTH TO WATER	FIRST ND COMPL. ND
SAMPLING METHOD: Enviro-core sampling system [3'x 1 5/8"]		LOGGED BY: C. Rome	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: T. Gavigan	REG. NO. RG 6782

DEPTH (feet)	SAMPLES		PID READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample Blows/ Foot			
				Surface Elevation: Not surveyed	
1	GMX36C-1.0		0	LEAN CLAY with SAND (CL): black (10YR 2/1), moist, 75% fines, 20% fine to coarse sand, 5% fine to coarse gravel, trace brick and metal fragments	OVM = Thermo Environmental Instruments, 580B PID calibrated with 100 ppm isobutylene standard
2	GMX36C-1.5		0	dark brown (10YR 3/3)	
3			0		
4	GMX36C-4.0		0	LEAN CLAY (CL): black (10Y 2/1), moist, 90% fines, 10% fine sand, low to medium plasticity, firm	
5	GMX36C-4.5		0		
6			0	LEAN CLAY with SAND (CL): light brownish gray (10YR 6/2), moist, 80% fines, 20% fine sand, low plasticity, firm	
7			0		
8	GMX36C-8.0		0	dark grayish brown (10YR 4/2), soft	
9	GMX36C-8.5		0		
9.0				Bottom of boring at 9.0 feet	Borehole destroyed using Type I/II neat cement grout from total depth to ground surface using a tremie pipe
10					
11					
12					
13					
14					
15					

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PROJECT: CANTERBURY RESIDENTIAL DEVELOPMENT
Hayward, California

Log of Boring No. GMX-37C

BORING LOCATION: Lot 37 backyard

ELEVATION AND DATUM:
Not surveyed; datum is ground surface

DRILLING CONTRACTOR: Precision Sampling Incorporated

DATE STARTED:
3/20/00

DATE FINISHED:
3/20/00

DRILLING METHOD: Direct push

TOTAL DEPTH (ft.):
9.0

MEASURING POINT:
Ground surface

DRILLING EQUIPMENT: MD-1

DEPTH TO WATER | FIRST | COMPL.
ND | ND | ND

SAMPLING METHOD: Enviro-core sampling system [3'x 1 5/8"]

LOGGED BY:
C. Rome

HAMMER WEIGHT: NA

DROP: NA

RESPONSIBLE PROFESSIONAL:
T. Gavigan

REG. NO.
RG 6782

DEPTH (feet)	SAMPLES		PID READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample Blows/ Foot			
				Surface Elevation: Not surveyed	
1	GMX37C-1.0		0	LEAN CLAY with SAND (CL): black (10YR 2/1), moist, 75% fines, 15% fine to coarse sand, 10% fine to coarse gravel, trace concrete, low plasticity, firm	OVM = Thermo Environmental Instruments, 580B PID calibrated with 100 ppm Isobutylene standard
2	GMX37C-1.5		0		
3			0		
4	GMX37C-4.5		0		
5	GMX37C-5.0		0	LEAN CLAY (CL): black (10YR 2/1), moist, 90% fines, 10% fine sand, low to medium plasticity, firm	
6			0		
7	GMX37C-8.0		0	LEAN CLAY with SAND (CL): dark gray (5Y 4/1), moist, 75% fines, 25% fine to coarse sand, low plasticity, firm	
8	GMX37C-8.5		0	SANDY LEAN CLAY (CL): dark gray (5Y 4/1), moist, 60% fines, 40% fine to medium sand, low plasticity, firm	
9			0	Bottom of boring at 9.0 feet	
10					Borehole destroyed using Type I/II neat cement grout from total depth to ground surface using a tremie pipe
11					
12					
13					
14					
15					



PROJECT: CANTERBURY RESIDENTIAL DEVELOPMENT Hayward, California		Log of Boring No. GMX-38C	
BORING LOCATION: Lot 38 backyard		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Precision Sampling Incorporated		DATE STARTED: 3/20/00	DATE FINISHED: 3/20/00
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 9.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: MD-1		DEPTH TO WATER	FIRST ND COMPL. ND
SAMPLING METHOD: Enviro-core sampling system [3'x 1 5/8"]		LOGGED BY: C. Rome	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: T. Gavigan	REG. NO. RG 6782

DEPTH (feet)	SAMPLES		PID READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
				Surface Elevation: Not surveyed	
1	GMX38C-1.0		0	LEAN CLAY with SAND (CL): black (10YR 2/1), moist, 75% fines, 15% fine to coarse sand, 10% fine to coarse gravel, low plasticity, firm	OVM = Thermo Environmental Instruments 580B PID calibrated with 100 ppm Isobutylene standard
2	GMX38C-1.5		0		
3			0		
4	GMX38C-4.5		0		
5	GMX38C-5.0		0	LEAN CLAY (CL): black (10YR 2/1), moist, 90% fines, 10% fine sand, low to medium plasticity, firm	
6			0	gray (10YR 5/1), 90% fines, 10% fine to coarse sand	
7			0		
8	GMX38C-8.0		0	LEAN CLAY with SAND (CL): dark grayish brown (10YR 4/2), moist, 75% fines, 25% fine sand, low plasticity, soft	
9	GMX38C-8.5		0		
10				Bottom of boring at 9.0 feet	
11					
12					
13					
14					
15					

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PROJECT: CANTERBURY RESIDENTIAL DEVELOPMENT Hayward, California		Log of Boring No. GMX-39B	
BORING LOCATION: Lot 37 backyard		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Precision Sampling Incorporated		DATE STARTED: 3/20/00	DATE FINISHED: 3/20/00
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 9.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: MD-1		DEPTH TO WATER	FIRST ND COMPL. ND
SAMPLING METHOD: Enviro-core sampling system [3'x 1 5/8"]		LOGGED BY: C. Rome	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: T. Gavigan	REG. NO. RG 6782

DEPTH (feet)	SAMPLES			PID READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
					Surface Elevation: Not surveyed	
1	GMX39B-1.0			0	LEAN CLAY (CL): black (10YR 2/1), moist, 75% fines, 15% fine to coarse sand, 10% fine to coarse gravel, trace concrete and brick fragments, low plasticity, hard	
	GMX39B-1.5			0		
2				0		
	GMX39B-4.5			0		
3						
4						
5	GMX39B-5.0			0	LEAN CLAY (CL): black (10YR 2/1), moist, 90% fines, 10% fine sand, low to medium plasticity, firm	OVM = Thermo Environmental Instruments 580B PID calibrated with 100 ppm Isobutylene standard
				0		
6				0		
	GMX39B-8.0			0		
7					LEAN CLAY with SAND (CL): dark grayish brown (10YR 4/2), moist, 80% fines, 20% fine sand, low to medium plasticity, soft	
8						
	GMX39B-8.5			0		
9						
10					Bottom of boring at 9.0 feet	Borehole destroyed using Type I/II neat cement grout from total depth to ground surface using a tremie pipe
11						
12						
13						
14						
15						



PROJECT: CANTERBURY RESIDENTIAL DEVELOPMENT Hayward, California		Log of Boring No. GMX-39C	
BORING LOCATION: Lot 39 backyard		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Precision Sampling Incorporated		DATE STARTED: 3/20/00	DATE FINISHED: 3/20/00
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 9.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: MD-1		DEPTH TO WATER	FIRST ND COMPL. ND
SAMPLING METHOD: Enviro-core sampling system [3' x 1 5/8"]		LOGGED BY: C. Rome	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: T. Gavigan	REG. NO. RG 6782

DEPTH (feet)	SAMPLES		PID READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample Blows/ Foot			
				Surface Elevation: Not surveyed	
1	GMX39C-1.0		0	LEAN CLAY with SAND (CL): black (10YR 2/1), moist, 75% fines, 15% fine to coarse sand, 10% fine to coarse gravel, trace concrete, low plasticity, very hard	OVM = Thermo Environmental Instruments, 580B PID calibrated with 100 ppm Isobutylene standard
2	GMX39C-1.5		0		
3			0		
4	GMX39C-4.5		0	LEAN CLAY (CL): black (10YR 2/1), moist, 90% fines, 10% fine sand, medium plasticity, firm	
5	GMX39C-5.0		0		
6			0		
7	GMX39C-8.0		0	LEAN CLAY with SAND (CL): light brownish gray (10YR 6/2), moist, 80% fines, 20% fine to coarse sand, low plasticity, firm	
8	GMX39C-8.5		0	dark grayish brown (10YR 4/2), 80% fines, 20% fine sand, soft	
9			0		
10				Bottom of boring at 9.0 feet	Borehole destroyed using Type I/II neat cement grout from total depth to ground surface using a tremie pipe
11					
12					
13					
14					
15					

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PROJECT: CANTERBURY RESIDENTIAL DEVELOPMENT Hayward, California		Log of Boring No. GMX-40A	
BORING LOCATION: Lot 40 front yard		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Precision Sampling Incorporated		DATE STARTED: 3/20/00	DATE FINISHED: 3/20/00
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 9.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: MD-1		DEPTH TO WATER	FIRST ND COMPL. ND
SAMPLING METHOD: Enviro-core sampling system [3' x 1 5/8"]		LOGGED BY: C. Rome	
HAMMER WEIGHT: NA DROP: NA		RESPONSIBLE PROFESSIONAL: T. Gavigan	REG. NO. RG 6782

DEPTH (feet)	SAMPLES		PID READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample Blows/ Foot			
				Surface Elevation: Not surveyed	
1	GMX40A-1.0		0	LEAN CLAY with SAND (CL): black (10YR 2/1), moist, 75% fines, 15% fine to coarse sand, 10% fine gravel, low plasticity, firm	OVM = Thermo Environmental Instruments 580B PID calibrated with 100 ppm Isobutylene standard
2	GMX40A-1.5		0	yellowish brown (10YR 5/4)	
			0	CLAYEY SAND (SC): gray (10YR 2/1), moist 60% fine to coarse sand, 40% low plasticity fines	
4	GMX40A-4.5		0	LEAN CLAY (CL): black (10YR 2/1), moist, 90% fines, 10% fine sand, low to medium plasticity, firm	
5	GMX40A-5.0		0		
6			0		
7			0	LEAN CLAY with SAND (CL): light olive brown (2.5Y 5/3), moist, 80% fines, 20% fine sand, low to medium plasticity, soft	
8	GMX40A-8.0		0		
9	GMX40A-8.5		0		
9.0			0	Bottom of boring at 9.0 feet	
10					
11					
12					
13					
14					
15					



PROJECT: CANTERBURY RESIDENTIAL DEVELOPMENT Hayward, California		Log of Boring No. GMX-40B	
BORING LOCATION: Lot 36 backyard		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Precision Sampling Incorporated		DATE STARTED: 3/20/00	DATE FINISHED: 3/20/00
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 9.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: MD-1		DEPTH TO WATER	FIRST ND COMPL. ND
SAMPLING METHOD: Enviro-core sampling system [3'x 1 5/8"]		LOGGED BY: C. Rome	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: T. Gavigan	REG. NO. RG 6782

DEPTH (feet)	SAMPLES		PID READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample Blows/ Foot			
				Surface Elevation: Not surveyed	
1	GMX40B-1.0		0	LEAN CLAY with SAND (CL): black (10YR 2/1), moist, 75% fines, 15% fine to coarse sand, 10% fine gravel, low plasticity, hard	
2	GMX40B-1.5		0		
3			0		
4	GMX40B-4.5		0		
5	GMX40B-5.0		0	LEAN CLAY (CL): very dark gray (10YR 3/1), moist, 90% fines, 10% fine sand, low plasticity, firm	OVM = Thermo Environmental Instruments 580B PID calibrated with 100 ppm Isobutylene standard
6			0		
7			0	dark grayish brown (10YR 4/2)	
8	GMX40B-8.0		0		
9	GMX40B-8.5		0		
10			0	Bottom of boring at 9.0 feet	Borehole destroyed using Type I/II neat cement grout from total depth to ground surface using a tremie pipe
11			0		
12			0		
13			0		
14			0		
15			0		



PROJECT: CANTERBURY RESIDENTIAL DEVELOPMENT Hayward, California		Log of Boring No. GMX-40C	
BORING LOCATION: Lot 40 backyard		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Precision Sampling Incorporated		DATE STARTED: 3/20/00	DATE FINISHED: 3/20/00
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 9.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: MD-1		DEPTH TO WATER	FIRST ND COMPL. ND
SAMPLING METHOD: Enviro-core sampling system [3'x 1 5/8"]		LOGGED BY: C. Rome	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: T. Gavigan	REG. NO. RG 6782

DEPTH (feet)	SAMPLES		PID READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample Blows/ Foot			
				Surface Elevation: Not surveyed	
1	GMX40C-1.0		0	LEAN CLAY with SAND (CL): black (10YR 2/1), moist, 75% fines, 15% fine to coarse sand, 10% fine to coarse gravel, low plasticity, hard	OVM = Thermo Environmental Instruments, 580B PID calibrated with 100 ppm isobutylene standard
2	GMX40C-1.5		0		
3			0		
4	GMX40C-4.5		0	LEAN CLAY (CL): black (10YR 2/1), moist, 90% fines, 10% fine sand, low to medium plasticity, firm	
5	GMX40C-5.0		0		
6			0		
7			0	LEAN CLAY with SAND (CL): dark gray (10YR 4/1), moist, 80% fines, 20% fine to coarse sand, low plasticity, firm	
8	GMX40C-8.5		0	grayish brown (10YR 5/2), 80% fines, 20% fine sand	
9	GMX40C-8.5		0		
10				Bottom of boring at 9.0 feet	Borehole destroyed using Type I/II neat cement grout from total depth to ground surface using a tremie pipe
11					
12					
13					
14					
15					

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ATTACHMENT C

Laboratory Analytical Results - Metals, Pesticides, and PCBs

CHROMALAB, INC.

Environmental Services (SDB)

Project Manager: Afsaneh Salimpour

Invoice#: 2000-03-0371

Invoice Date: March 29, 2000

INVOICE

Samples Received From	Report Results To
Geomatrix Consultants Contact: Ann Holbrow 2101 Webster Street, 12th Floor Oakland, CA 94612	Geomatrix Consultants Contact: Ann Holbrow 2101 Webster Street, 12th Floor Oakland, CA 94612
Bill To	GEOMATRIX
Geomatrix Consultants Attn: Attn: Accts. Payable 2101 Webster Street, 12th Floor Oakland, CA 94612	Received: March 21, 2000 09:46 AM
Project: 6262	

Qty	Matrix	Analysis	TAT	Unit Price	Total
12	Soil	CAM 17 metals	1 Day	\$150.00	\$1,800.00
12	Soil	Organochlorine Pesticides /PCBS	1 Day	\$150.00	\$1,800.00
1		24 hr rush services		\$3,600.00	\$3,600.00
					\$7,200.00

Terms and conditions:

Net30

Please Send Payment to: ChromaLab, Inc.
1220 Quarry Lane
Pleasanton, CA 94566-4756
Phone: (925) 484-1919 Fax: (925) 484-1096

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096
Federal ID# 68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

Date: March 23, 2000

Geomatrix Consultants

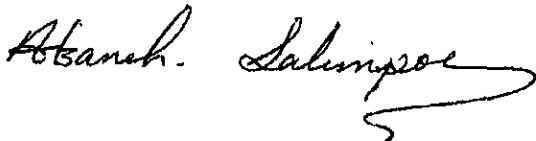
2101 Webster Street, 12th Floor
Oakland, CA 94612

Attn.: Ann Holbrow

Attached is our report for your samples received on Tuesday March 21, 2000
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after April 20, 2000
unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: asalimpour@chromalab.com

Sincerely,



Afsaneh Salimpour

Organochlorine Pesticides Analysis

Geomatrix Consultants	☒ 2101 Webster Street, 12th Floor Oakland, CA 94612
Attn: Ann Holbrow	Phone: (510) 663-4100 Fax: (510) 663-4141
Project #: 6262	Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
GMX38C-1.0	Soil	03/20/2000 09:40	7
GMX38C-4.5	Soil	03/20/2000 09:50	8
GMX38C-8.0	Soil	03/20/2000 09:55	9
GMX37C-1.0	Soil	03/20/2000 10:35	13
GMX37C-4.5	Soil	03/20/2000 10:45	14
GMX37C-8.0	Soil	03/20/2000 10:50	15
GMX36C-1.0	Soil	03/20/2000 11:55	19
GMX36C-4.5	Soil	03/20/2000 12:05	20
GMX36C-8.0	Soil	03/20/2000 12:15	21
GMX39C-1.0	Soil	03/20/2000 12:25	22
GMX39C-4.5	Soil	03/20/2000 12:35	23
GMX39C-8.0	Soil	03/20/2000 12:40	24

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: **Geomatrix Consultants**

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX38C-1.0	Lab Sample ID: 2000-03-0371-007
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 09:40	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/21/2000 18:30	
Dieldrin	ND	2.0	ug/Kg	1.00	03/21/2000 18:30	
Endrin aldehyde	ND	10	ug/Kg	1.00	03/21/2000 18:30	
Endrin	ND	2.0	ug/Kg	1.00	03/21/2000 18:30	
Heptachlor	ND	2.0	ug/Kg	1.00	03/21/2000 18:30	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/21/2000 18:30	
4,4'-DDT	ND	10	ug/Kg	1.00	03/21/2000 18:30	
4,4'-DDE	ND	2.0	ug/Kg	1.00	03/21/2000 18:30	
4,4'-DDD	ND	2.0	ug/Kg	1.00	03/21/2000 18:30	
Endosulfan I	ND	10	ug/Kg	1.00	03/21/2000 18:30	
Endosulfan II	ND	10	ug/Kg	1.00	03/21/2000 18:30	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 18:30	
beta-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 18:30	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/21/2000 18:30	
delta-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 18:30	
Endosulfan sulfate	ND	10	ug/Kg	1.00	03/21/2000 18:30	
4,4'-Methoxychlor	ND	10	ug/Kg	1.00	03/21/2000 18:30	
Toxaphene	ND	100	ug/Kg	1.00	03/21/2000 18:30	
alpha-Chlordane	ND	50	ug/Kg	1.00	03/21/2000 18:30	
gamma-Chlordane	ND	50	ug/Kg	1.00	03/21/2000 18:30	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	73.3	50-125	%	1.00	03/21/2000 18:30	
Decachlorobiphenyl	84.7	46-142	%	1.00	03/21/2000 18:30	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX38C-4.5	Lab Sample ID: 2000-03-0371-008
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 09:50	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/21/2000 19:03	
Dieldrin	ND	2.0	ug/Kg	1.00	03/21/2000 19:03	
Endrin aldehyde	ND	10	ug/Kg	1.00	03/21/2000 19:03	
Endrin	ND	2.0	ug/Kg	1.00	03/21/2000 19:03	
Heptachlor	ND	2.0	ug/Kg	1.00	03/21/2000 19:03	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/21/2000 19:03	
4,4'-DDT	ND	10	ug/Kg	1.00	03/21/2000 19:03	
4,4'-DDE	ND	2.0	ug/Kg	1.00	03/21/2000 19:03	
4,4'-DDD	ND	2.0	ug/Kg	1.00	03/21/2000 19:03	
Endosulfan I	ND	10	ug/Kg	1.00	03/21/2000 19:03	
Endosulfan II	ND	10	ug/Kg	1.00	03/21/2000 19:03	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 19:03	
beta-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 19:03	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/21/2000 19:03	
delta-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 19:03	
Endosulfan sulfate	ND	10	ug/Kg	1.00	03/21/2000 19:03	
4,4'-Methoxychlor	ND	10	ug/Kg	1.00	03/21/2000 19:03	
Toxaphene	ND	100	ug/Kg	1.00	03/21/2000 19:03	
alpha-Chlordane	ND	50	ug/Kg	1.00	03/21/2000 19:03	
gamma-Chlordane	ND	50	ug/Kg	1.00	03/21/2000 19:03	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	80.6	50-125	%	1.00	03/21/2000 19:03	
Decachlorobiphenyl	83.1	46-142	%	1.00	03/21/2000 19:03	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX38C-8.0	Lab Sample ID: 2000-03-0371-009
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 09:55	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/21/2000 19:36	
Dieldrin	ND	2.0	ug/Kg	1.00	03/21/2000 19:36	
Endrin aldehyde	ND	10	ug/Kg	1.00	03/21/2000 19:36	
Endrin	ND	2.0	ug/Kg	1.00	03/21/2000 19:36	
Heptachlor	ND	2.0	ug/Kg	1.00	03/21/2000 19:36	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/21/2000 19:36	
4,4'-DDT	ND	10	ug/Kg	1.00	03/21/2000 19:36	
4,4'-DDE	ND	2.0	ug/Kg	1.00	03/21/2000 19:36	
4,4'-DDD	ND	2.0	ug/Kg	1.00	03/21/2000 19:36	
Endosulfan I	ND	10	ug/Kg	1.00	03/21/2000 19:36	
Endosulfan II	ND	10	ug/Kg	1.00	03/21/2000 19:36	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 19:36	
beta-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 19:36	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/21/2000 19:36	
delta-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 19:36	
Endosulfan sulfate	ND	10	ug/Kg	1.00	03/21/2000 19:36	
4,4'-Methoxychlor	ND	10	ug/Kg	1.00	03/21/2000 19:36	
Toxaphene	ND	100	ug/Kg	1.00	03/21/2000 19:36	
alpha-Chlordane	ND	50	ug/Kg	1.00	03/21/2000 19:36	
gamma-Chlordane	ND	50	ug/Kg	1.00	03/21/2000 19:36	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	82.2	50-125	%	1.00	03/21/2000 19:36	
Decachlorobiphenyl	80.3	46-142	%	1.00	03/21/2000 19:36	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX37C-1.0	Lab Sample ID: 2000-03-0371-013
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 10:35	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/21/2000 20:09	
Dieldrin	ND	2.0	ug/Kg	1.00	03/21/2000 20:09	
Endrin aldehyde	11	10	ug/Kg	1.00	03/21/2000 20:09	
Endrin	ND	2.0	ug/Kg	1.00	03/21/2000 20:09	
Heptachlor	ND	2.0	ug/Kg	1.00	03/21/2000 20:09	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/21/2000 20:09	
4,4'-DDT	ND	10	ug/Kg	1.00	03/21/2000 20:09	
4,4'-DDE	4.4	2.0	ug/Kg	1.00	03/21/2000 20:09	
4,4'-DDD	ND	2.0	ug/Kg	1.00	03/21/2000 20:09	
Endosulfan I	ND	10	ug/Kg	1.00	03/21/2000 20:09	
Endosulfan II	ND	10	ug/Kg	1.00	03/21/2000 20:09	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 20:09	
beta-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 20:09	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/21/2000 20:09	
delta-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 20:09	
Endosulfan sulfate	ND	10	ug/Kg	1.00	03/21/2000 20:09	
4,4'-Methoxychlor	ND	10	ug/Kg	1.00	03/21/2000 20:09	
Toxaphene	ND	100	ug/Kg	1.00	03/21/2000 20:09	
alpha-Chlordane	ND	50	ug/Kg	1.00	03/21/2000 20:09	
gamma-Chlordane	ND	50	ug/Kg	1.00	03/21/2000 20:09	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	93.5	50-125	%	1.00	03/21/2000 20:09	
Decachlorobiphenyl	81.8	46-142	%	1.00	03/21/2000 20:09	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX37C-4.5	Lab Sample ID: 2000-03-0371-014
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 10:45	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/21/2000 20:42	
Dieldrin	2.2	2.0	ug/Kg	1.00	03/21/2000 20:42	
Endrin aldehyde	ND	10	ug/Kg	1.00	03/21/2000 20:42	
Endrin	ND	2.0	ug/Kg	1.00	03/21/2000 20:42	
Heptachlor	ND	2.0	ug/Kg	1.00	03/21/2000 20:42	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/21/2000 20:42	
4,4'-DDT	ND	10	ug/Kg	1.00	03/21/2000 20:42	
4,4'-DDE	2.2	2.0	ug/Kg	1.00	03/21/2000 20:42	
4,4'-DDD	ND	2.0	ug/Kg	1.00	03/21/2000 20:42	
Endosulfan I	ND	10	ug/Kg	1.00	03/21/2000 20:42	
Endosulfan II	ND	10	ug/Kg	1.00	03/21/2000 20:42	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 20:42	
beta-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 20:42	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/21/2000 20:42	
delta-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 20:42	
Endosulfan sulfate	ND	10	ug/Kg	1.00	03/21/2000 20:42	
4,4'-Methoxychlor	ND	10	ug/Kg	1.00	03/21/2000 20:42	
Toxaphene	ND	100	ug/Kg	1.00	03/21/2000 20:42	
alpha-Chlordane	ND	50	ug/Kg	1.00	03/21/2000 20:42	
gamma-Chlordane	ND	50	ug/Kg	1.00	03/21/2000 20:42	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	85.3	50-125	%	1.00	03/21/2000 20:42	
Decachlorobiphenyl	82.6	46-142	%	1.00	03/21/2000 20:42	

1220 Quarry Lane * Pleasanton, CA 94566-4756

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX37C-8.0	Lab Sample ID: 2000-03-0371-015
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 10:50	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/21/2000 21:15	
Dieldrin	ND	2.0	ug/Kg	1.00	03/21/2000 21:15	
Endrin aldehyde	ND	10	ug/Kg	1.00	03/21/2000 21:15	
Endrin	ND	2.0	ug/Kg	1.00	03/21/2000 21:15	
Heptachlor	ND	2.0	ug/Kg	1.00	03/21/2000 21:15	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/21/2000 21:15	
4,4'-DDT	ND	10	ug/Kg	1.00	03/21/2000 21:15	
4,4'-DDE	ND	2.0	ug/Kg	1.00	03/21/2000 21:15	
4,4'-DDD	ND	2.0	ug/Kg	1.00	03/21/2000 21:15	
Endosulfan I	ND	10	ug/Kg	1.00	03/21/2000 21:15	
Endosulfan II	ND	10	ug/Kg	1.00	03/21/2000 21:15	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 21:15	
beta-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 21:15	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/21/2000 21:15	
delta-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 21:15	
Endosulfan sulfate	ND	10	ug/Kg	1.00	03/21/2000 21:15	
4,4'-Methoxychlor	ND	10	ug/Kg	1.00	03/21/2000 21:15	
Toxaphene	ND	100	ug/Kg	1.00	03/21/2000 21:15	
alpha-Chlordane	ND	50	ug/Kg	1.00	03/21/2000 21:15	
gamma-Chlordane	ND	50	ug/Kg	1.00	03/21/2000 21:15	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	85.9	50-125	%	1.00	03/21/2000 21:15	
Decachlorobiphenyl	94.8	46-142	%	1.00	03/21/2000 21:15	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX36C-1.0	Lab Sample ID: 2000-03-0371-019
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 11:55	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13
Sample/Analysis Flag Irr (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	10	ug/Kg	5.00	03/21/2000 21:48	
Dieldrin	ND	10	ug/Kg	5.00	03/21/2000 21:48	
Endrin aldehyde	ND	50	ug/Kg	5.00	03/21/2000 21:48	
Endrin	ND	10	ug/Kg	5.00	03/21/2000 21:48	
Heptachlor	ND	10	ug/Kg	5.00	03/21/2000 21:48	
Heptachlor epoxide	ND	10	ug/Kg	5.00	03/21/2000 21:48	
4,4'-DDT	ND	50	ug/Kg	5.00	03/21/2000 21:48	
4,4'-DDE	ND	10	ug/Kg	5.00	03/21/2000 21:48	
4,4'-DDD	ND	10	ug/Kg	5.00	03/21/2000 21:48	
Endosulfan I	ND	50	ug/Kg	5.00	03/21/2000 21:48	
Endosulfan II	ND	50	ug/Kg	5.00	03/21/2000 21:48	
alpha-BHC	ND	10	ug/Kg	5.00	03/21/2000 21:48	
beta-BHC	ND	10	ug/Kg	5.00	03/21/2000 21:48	
gamma-BHC (Lindane)	ND	10	ug/Kg	5.00	03/21/2000 21:48	
delta-BHC	ND	10	ug/Kg	5.00	03/21/2000 21:48	
Endosulfan sulfate	ND	50	ug/Kg	5.00	03/21/2000 21:48	
4,4'-Methoxychlor	ND	50	ug/Kg	5.00	03/21/2000 21:48	
Toxaphene	ND	500	ug/Kg	5.00	03/21/2000 21:48	
alpha-Chlordane	ND	250	ug/Kg	5.00	03/21/2000 21:48	
gamma-Chlordane	ND	250	ug/Kg	5.00	03/21/2000 21:48	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	68.0	50-125	%	5.00	03/21/2000 21:48	
Decachlorobiphenyl	62.9	46-142	%	5.00	03/21/2000 21:48	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX36C-4.5	Lab Sample ID: 2000-03-0371-020
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 12:05	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/21/2000 22:21	
Dieldrin	ND	2.0	ug/Kg	1.00	03/21/2000 22:21	
Endrin aldehyde	ND	10	ug/Kg	1.00	03/21/2000 22:21	
Endrin	ND	2.0	ug/Kg	1.00	03/21/2000 22:21	
Heptachlor	ND	2.0	ug/Kg	1.00	03/21/2000 22:21	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/21/2000 22:21	
4,4'-DDT	ND	10	ug/Kg	1.00	03/21/2000 22:21	
4,4'-DDE	2.0	2.0	ug/Kg	1.00	03/21/2000 22:21	
4,4'-DDD	ND	2.0	ug/Kg	1.00	03/21/2000 22:21	
Endosulfan I	ND	10	ug/Kg	1.00	03/21/2000 22:21	
Endosulfan II	ND	10	ug/Kg	1.00	03/21/2000 22:21	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 22:21	
beta-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 22:21	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/21/2000 22:21	
delta-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 22:21	
Endosulfan sulfate	ND	10	ug/Kg	1.00	03/21/2000 22:21	
4,4'-Methoxychlor	ND	10	ug/Kg	1.00	03/21/2000 22:21	
Toxaphene	ND	100	ug/Kg	1.00	03/21/2000 22:21	
alpha-Chlordane	ND	50	ug/Kg	1.00	03/21/2000 22:21	
gamma-Chlordane	ND	50	ug/Kg	1.00	03/21/2000 22:21	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	88.3	50-125	%	1.00	03/21/2000 22:21	
Decachlorobiphenyl	77.6	46-142	%	1.00	03/21/2000 22:21	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: **Geomatrix Consultants**

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX36C-8.0	Lab Sample ID: 2000-03-0371-021
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 12:15	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/21/2000 22:54	
Dieldrin	ND	2.0	ug/Kg	1.00	03/21/2000 22:54	
Endrin aldehyde	ND	10	ug/Kg	1.00	03/21/2000 22:54	
Endrin	ND	2.0	ug/Kg	1.00	03/21/2000 22:54	
Heptachlor	ND	2.0	ug/Kg	1.00	03/21/2000 22:54	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/21/2000 22:54	
4,4'-DDT	ND	10	ug/Kg	1.00	03/21/2000 22:54	
4,4'-DDE	ND	2.0	ug/Kg	1.00	03/21/2000 22:54	
4,4'-DDD	ND	2.0	ug/Kg	1.00	03/21/2000 22:54	
Endosulfan I	ND	10	ug/Kg	1.00	03/21/2000 22:54	
Endosulfan II	ND	10	ug/Kg	1.00	03/21/2000 22:54	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 22:54	
beta-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 22:54	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/21/2000 22:54	
delta-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 22:54	
Endosulfan sulfate	ND	10	ug/Kg	1.00	03/21/2000 22:54	
4,4'-Methoxychlor	ND	10	ug/Kg	1.00	03/21/2000 22:54	
Toxaphene	ND	100	ug/Kg	1.00	03/21/2000 22:54	
alpha-Chlordane	ND	50	ug/Kg	1.00	03/21/2000 22:54	
gamma-Chlordane	ND	50	ug/Kg	1.00	03/21/2000 22:54	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	82.7	50-125	%	1.00	03/21/2000 22:54	
Decachlorobiphenyl	93.5	46-142	%	1.00	03/21/2000 22:54	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX39C-1.0	Lab Sample ID: 2000-03-0371-022
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 12:25	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/21/2000 23:27	
Dieldrin	ND	2.0	ug/Kg	1.00	03/21/2000 23:27	
Endrin aldehyde	ND	10	ug/Kg	1.00	03/21/2000 23:27	
Endrin	ND	2.0	ug/Kg	1.00	03/21/2000 23:27	
Heptachlor	ND	2.0	ug/Kg	1.00	03/21/2000 23:27	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/21/2000 23:27	
4,4'-DDT	ND	10	ug/Kg	1.00	03/21/2000 23:27	
4,4'-DDE	ND	2.0	ug/Kg	1.00	03/21/2000 23:27	
4,4'-DDD	ND	2.0	ug/Kg	1.00	03/21/2000 23:27	
Endosulfan I	ND	10	ug/Kg	1.00	03/21/2000 23:27	
Endosulfan II	ND	10	ug/Kg	1.00	03/21/2000 23:27	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 23:27	
beta-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 23:27	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/21/2000 23:27	
delta-BHC	ND	2.0	ug/Kg	1.00	03/21/2000 23:27	
Endosulfan sulfate	ND	10	ug/Kg	1.00	03/21/2000 23:27	
4,4'-Methoxychlor	ND	10	ug/Kg	1.00	03/21/2000 23:27	
Toxaphene	ND	100	ug/Kg	1.00	03/21/2000 23:27	
alpha-Chlordane	ND	50	ug/Kg	1.00	03/21/2000 23:27	
gamma-Chlordane	ND	50	ug/Kg	1.00	03/21/2000 23:27	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	84.2	50-125	%	1.00	03/21/2000 23:27	
Decachlorobiphenyl	83.1	46-142	%	1.00	03/21/2000 23:27	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: **Geomatrix Consultants**

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX39C-4.5	Lab Sample ID: 2000-03-0371-023
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 12:35	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/22/2000	
Dieldrin	ND	2.0	ug/Kg	1.00	03/22/2000	
Endrin aldehyde	ND	10	ug/Kg	1.00	03/22/2000	
Endrin	ND	2.0	ug/Kg	1.00	03/22/2000	
Heptachlor	ND	2.0	ug/Kg	1.00	03/22/2000	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/22/2000	
4,4'-DDT	ND	10	ug/Kg	1.00	03/22/2000	
4,4'-DDE	ND	2.0	ug/Kg	1.00	03/22/2000	
4,4'-DDD	ND	2.0	ug/Kg	1.00	03/22/2000	
Endosulfan I	ND	10	ug/Kg	1.00	03/22/2000	
Endosulfan II	ND	10	ug/Kg	1.00	03/22/2000	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/22/2000	
beta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/22/2000	
delta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000	
Endosulfan sulfate	ND	10	ug/Kg	1.00	03/22/2000	
4,4'-Methoxychlor	ND	10	ug/Kg	1.00	03/22/2000	
Toxaphene	ND	100	ug/Kg	1.00	03/22/2000	
alpha-Chlordane	ND	50	ug/Kg	1.00	03/22/2000	
gamma-Chlordane	ND	50	ug/Kg	1.00	03/22/2000	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	75.8	50-125	%	1.00	03/22/2000	
Decachlorobiphenyl	85.8	46-142	%	1.00	03/22/2000	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX39C-8.0	Lab Sample ID: 2000-03-0371-024
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 12:40	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/22/2000 03:19	
Dieldrin	ND	2.0	ug/Kg	1.00	03/22/2000 03:19	
Endrin aldehyde	ND	10	ug/Kg	1.00	03/22/2000 03:19	
Endrin	ND	2.0	ug/Kg	1.00	03/22/2000 03:19	
Heptachlor	ND	2.0	ug/Kg	1.00	03/22/2000 03:19	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/22/2000 03:19	
4,4'-DDT	ND	10	ug/Kg	1.00	03/22/2000 03:19	
4,4'-DDE	ND	2.0	ug/Kg	1.00	03/22/2000 03:19	
4,4'-DDD	ND	2.0	ug/Kg	1.00	03/22/2000 03:19	
Endosulfan I	ND	10	ug/Kg	1.00	03/22/2000 03:19	
Endosulfan II	ND	10	ug/Kg	1.00	03/22/2000 03:19	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 03:19	
beta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 03:19	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/22/2000 03:19	
delta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 03:19	
Endosulfan sulfate	ND	10	ug/Kg	1.00	03/22/2000 03:19	
4,4'-Methoxychlor	ND	10	ug/Kg	1.00	03/22/2000 03:19	
Toxaphene	ND	100	ug/Kg	1.00	03/22/2000 03:19	
alpha-Chlordane	ND	50	ug/Kg	1.00	03/22/2000 03:19	
gamma-Chlordane	ND	50	ug/Kg	1.00	03/22/2000 03:19	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	83.2	50-125	%	1.00	03/22/2000 03:19	
Decachlorobiphenyl	88.3	46-142	%	1.00	03/22/2000 03:19	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Batch QC Report Organochlorine Pesticides Analysis

Method Blank	Soil	QC Batch # 2000/03/21-01.13
MB: 2000/03/21-01.13-001		Date Extracted: 03/21/2000 11:45

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	03/21/2000 15:10	
Dieldrin	ND	2.0	ug/Kg	03/21/2000 15:10	
Endrin aldehyde	ND	10	ug/Kg	03/21/2000 15:10	
Endrin	ND	2.0	ug/Kg	03/21/2000 15:10	
Heptachlor	ND	2.0	ug/Kg	03/21/2000 15:10	
Heptachlor epoxide	ND	2.0	ug/Kg	03/21/2000 15:10	
4,4'-DDT	ND	10	ug/Kg	03/21/2000 15:10	
4,4'-DDE	ND	2.0	ug/Kg	03/21/2000 15:10	
4,4'-DDD	ND	2.0	ug/Kg	03/21/2000 15:10	
Endosulfan I	ND	10	ug/Kg	03/21/2000 15:10	
Endosulfan II	ND	10	ug/Kg	03/21/2000 15:10	
alpha-BHC	ND	2.0	ug/Kg	03/21/2000 15:10	
beta-BHC	ND	2.0	ug/Kg	03/21/2000 15:10	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	03/21/2000 15:10	
delta-BHC	ND	2.0	ug/Kg	03/21/2000 15:10	
Endosulfan sulfate	ND	10	ug/Kg	03/21/2000 15:10	
4,4'-Methoxychlor	ND	10	ug/Kg	03/21/2000 15:10	
Toxaphene	ND	100	ug/Kg	03/21/2000 15:10	
alpha-Chlordane	ND	50	ug/Kg	03/21/2000 15:10	
gamma-Chlordane	ND	50	ug/Kg	03/21/2000 15:10	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	76.2	50-125	%	03/21/2000 15:10	
Decachlorobiphenyl	93.8	46-142	%	03/21/2000 15:10	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8081

Attn: Ann Holbrow

Prep Method: 3550/8081

Batch QC Report

Organochlorine Pesticides Analysis

Laboratory Control Spike (LCS/LCSD)		Soil	QC Batch # 2000/03/21-01.13	
LCS:	2000/03/21-01.13-002	Extracted: 03/21/2000 11:45	Analyzed	03/21/2000 15:44
LCSD:	2000/03/21-01.13-003	Extracted: 03/21/2000 11:45	Analyzed	03/21/2000 16:17

Compound	Conc. [ug/Kg]		Exp. Conc. [ug/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Aldrin	12.3	14.4	16.7	16.7	73.7	86.2	15.6	37-136	25		
Dieldrin	12.1	14.9	16.7	16.7	72.5	89.2	20.7	58-135	35		
Endrin	11.1	14.9	16.7	16.7	66.5	89.2	29.2	58-134	35		
Heptachlor	11.9	14.2	16.7	16.7	71.3	85.0	17.5	40-136	20		
4,4'-DDT	12.6	15.6	16.7	16.7	75.4	93.4	21.3	55-132	35		
gamma-BHC (Lindane)	12.1	14.9	16.7	16.7	72.5	89.2	20.7	37-137	35		
Surrogate(s)											
2,4,5,6-Tetrachloro-m-xyI	33.2	41.7	50	50	66.4	83.4		50-125			
Decachlorobiphenyl	40.5	47.9	50	50	81.0	95.8		46-142			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Batch QC Report

Organochlorine Pesticides Analysis

Matrix Spike (MS / MSD)

Soil

QC Batch # 2000/03/21-01.13

Sample ID: GMX36C-4.5

Lab Sample ID: 2000-03-0371-020

MS: 2000/03/21-01.13-004 Extracted: 03/21/2000 11:45 Analyzed: 03/22/2000 16:24 Dilution: 1.0

MSD: 2000/03/21-01.13-005 Extracted: 03/21/2000 11:45 Analyzed: 03/22/2000 16:58 Dilution: 1.0

Compound	Conc. [ug/Kg]			Exp. Conc. [ug/Kg]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Aldrin	15.7	16.1	ND	16.5	16.6	95.2	97.0	1.9	37-136	25		
Dieldrin	15.4	16.0	ND	16.5	16.6	93.3	96.4	3.3	58-135	35		
Endrin	15.2	15.5	ND	16.5	16.6	92.1	93.4	1.4	58-134	35		
Heptachlor	15.8	16.3	ND	16.5	16.6	95.8	98.2	2.5	40-136	20		
4,4'-DDT	14.7	14.3	ND	16.5	16.6	89.1	86.1	3.4	55-132	35		
gamma-BHC (Lindane)	15.7	16.1	ND	16.5	16.6	95.2	97.0	1.9	37-137	35		
Surrogate(s)												
2,4,5,6-Tetrachloro-m-xy	40.0	41.0		50	50	80.0	82.0		50-125			
Decachlorobiphenyl	38.8	39.4		50	50	77.6	78.8		46-142			

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To: Geomatrix Consultants
Attn: Ann Holbrow

Test Method: 8081
Prep Method: 3550/8081

Legend & Notes

Organochlorine Pesticides Analysis

Analysis Flags

Im

Reporting limits raised due to high level of non-target analyte materials.

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

PCBs - EPA8082

Geomatrix Consultants

✉ 2101 Webster Street, 12th Floor
Oakland, CA 94612

Attn: Ann Holbrow

Phone: (510) 663-4100 Fax: (510) 663-4141

Project #: 6262

Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
GMX38C-1.0	Soil	03/20/2000 09:40	7
GMX38C-4.5	Soil	03/20/2000 09:50	8
GMX38C-8.0	Soil	03/20/2000 09:55	9
GMX37C-1.0	Soil	03/20/2000 10:35	13
GMX37C-4.5	Soil	03/20/2000 10:45	14
GMX37C-8.0	Soil	03/20/2000 10:50	15
GMX36C-1.0	Soil	03/20/2000 11:55	19
GMX36C-4.5	Soil	03/20/2000 12:05	20
GMX36C-8.0	Soil	03/20/2000 12:15	21
GMX39C-1.0	Soil	03/20/2000 12:25	22
GMX39C-4.5	Soil	03/20/2000 12:35	23
GMX39C-8.0	Soil	03/20/2000 12:40	24

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX38C-1.0	Lab Sample ID: 2000-03-0371-007
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 09:40	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/21/2000 20:34	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/21/2000 20:34	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/21/2000 20:34	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/21/2000 20:34	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/21/2000 20:34	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/21/2000 20:34	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/21/2000 20:34	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	72.2	50-125	%	1.00	03/21/2000 20:34	
Decachlorobiphenyl	76.5	46-142	%	1.00	03/21/2000 20:34	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: **Geomatrix Consultants**
Attn.: Ann Holbrow

Test Method: 8082
Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX38C-4.5	Lab Sample ID: 2000-03-0371-008
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 09:50	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/21/2000 21:05	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/21/2000 21:05	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/21/2000 21:05	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/21/2000 21:05	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/21/2000 21:05	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/21/2000 21:05	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/21/2000 21:05	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	76.5	50-125	%	1.00	03/21/2000 21:05	
Decachlorobiphenyl	84.1	46-142	%	1.00	03/21/2000 21:05	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX38C-8.0	Lab Sample ID: 2000-03-0371-009
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 09:55	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/21/2000 21:37	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/21/2000 21:37	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/21/2000 21:37	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/21/2000 21:37	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/21/2000 21:37	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/21/2000 21:37	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/21/2000 21:37	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	72.0	50-125	%	1.00	03/21/2000 21:37	
Decachlorobiphenyl	77.9	46-142	%	1.00	03/21/2000 21:37	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: **Geomatrix Consultants**

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX37C-1.0	Lab Sample ID: 2000-03-0371-013
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 10:35	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/21/2000 17:05	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/21/2000 17:05	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/21/2000 17:05	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/21/2000 17:05	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/21/2000 17:05	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/21/2000 17:05	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/21/2000 17:05	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	76.3	50-125	%	1.00	03/21/2000 17:05	
Decachlorobiphenyl	28.4	46-142	%	1.00	03/21/2000 17:05	s

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX37C-4.5	Lab Sample ID: 2000-03-0371-014
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 10:45	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/21/2000 22:08	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/21/2000 22:08	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/21/2000 22:08	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/21/2000 22:08	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/21/2000 22:08	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/21/2000 22:08	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/21/2000 22:08	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	78.2	50-125	%	1.00	03/21/2000 22:08	
Decachlorobiphenyl	88.3	46-142	%	1.00	03/21/2000 22:08	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX37C-8.0	Lab Sample ID: 2000-03-0371-015
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 10:50	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/21/2000 17:25	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/21/2000 17:25	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/21/2000 17:25	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/21/2000 17:25	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/21/2000 17:25	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/21/2000 17:25	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/21/2000 17:25	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	67.2	50-125	%	1.00	03/21/2000 17:25	
Decachlorobiphenyl	87.3	46-142	%	1.00	03/21/2000 17:25	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX36C-1.0	Lab Sample ID: 2000-03-0371-019
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 11:55	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/21/2000 19:01	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/21/2000 19:01	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/21/2000 19:01	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/21/2000 19:01	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/21/2000 19:01	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/21/2000 19:01	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/21/2000 19:01	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	52.1	50-125	%	1.00	03/21/2000 19:01	
Decachlorobiphenyl	11.4	46-142	%	1.00	03/21/2000 19:01	s

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: **Geomatrix Consultants**

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX36C-4.5	Lab Sample ID: 2000-03-0371-020
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 12:05	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/21/2000 17:57	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/21/2000 17:57	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/21/2000 17:57	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/21/2000 17:57	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/21/2000 17:57	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/21/2000 17:57	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/21/2000 17:57	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	70.9	50-125	%	1.00	03/21/2000 17:57	
Decachlorobiphenyl	102.4	46-142	%	1.00	03/21/2000 17:57	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: **Geomatrix Consultants**

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX36C-8.0	Lab Sample ID: 2000-03-0371-021
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 12:15	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/21/2000 18:28	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/21/2000 18:28	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/21/2000 18:28	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/21/2000 18:28	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/21/2000 18:28	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/21/2000 18:28	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/21/2000 18:28	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	67.3	50-125	%	1.00	03/21/2000 18:28	
Decachlorobiphenyl	76.0	46-142	%	1.00	03/21/2000 18:28	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: **Geomatrix Consultants**

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX39C-1.0	Lab Sample ID: 2000-03-0371-022
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 12:25	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/21/2000 19:00	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/21/2000 19:00	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/21/2000 19:00	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/21/2000 19:00	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/21/2000 19:00	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/21/2000 19:00	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/21/2000 19:00	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	68.4	50-125	%	1.00	03/21/2000 19:00	
Decachlorobiphenyl	75.0	46-142	%	1.00	03/21/2000 19:00	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: **Geomatrix Consultants**

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX39C-4.5	Lab Sample ID: 2000-03-0371-023
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 12:35	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/21/2000 19:31	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/21/2000 19:31	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/21/2000 19:31	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/21/2000 19:31	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/21/2000 19:31	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/21/2000 19:31	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/21/2000 19:31	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	63.5	50-125	%	1.00	03/21/2000 19:31	
Decachlorobiphenyl	75.4	46-142	%	1.00	03/21/2000 19:31	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX39C-8.0	Lab Sample ID: 2000-03-0371-024
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 12:40	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/21/2000 20:03	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/21/2000 20:03	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/21/2000 20:03	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/21/2000 20:03	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/21/2000 20:03	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/21/2000 20:03	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/21/2000 20:03	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	68.8	50-125	%	1.00	03/21/2000 20:03	
Decachlorobiphenyl	72.8	46-142	%	1.00	03/21/2000 20:03	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

Batch QC Report

PCBs - EPA8082

Method Blank	Soil	QC Batch # 2000/03/21-02.14
MB: 2000/03/21-02.14-001		Date Extracted: 03/21/2000 11:58

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Aroclor 1016	ND	0.05	mg/Kg	03/21/2000 16:54	
Aroclor 1221	ND	0.05	mg/Kg	03/21/2000 16:54	
Aroclor 1232	ND	0.05	mg/Kg	03/21/2000 16:54	
Aroclor 1242	ND	0.05	mg/Kg	03/21/2000 16:54	
Aroclor 1248	ND	0.05	mg/Kg	03/21/2000 16:54	
Aroclor 1254	ND	0.05	mg/Kg	03/21/2000 16:54	
Aroclor 1260	ND	0.05	mg/Kg	03/21/2000 16:54	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	62.4	50-125	%	03/21/2000 16:54	
Decachlorobiphenyl	73.0	46-142	%	03/21/2000 16:54	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8082

Attn: Ann Holbrow

Prep Method: 3550/8082

Batch QC Report

PCBs - EPA8082

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2000/03/21-02.14
LCS: 2000/03/21-02.14-002	Extracted: 03/21/2000 11:58	Analyzed 03/22/2000 05:57
LCSD: 2000/03/21-02.14-003	Extracted: 03/21/2000 11:58	Analyzed 03/22/2000 06:31

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Aroclor 1016	0.0530	0.0518	0.0667	0.0667	79.5	77.7	2.3	65-135	30		
Aroclor 1260	0.0527	0.0550	0.0667	0.0667	79.0	82.5	4.3	65-135	30		
Surrogate(s)											
2,4,5,6-Tetrachloro-m-xyI	32.1	30.5	50	50	64.2	61.0		50-125			
Decachlorobiphenyl	36.1	38.6	50	50	72.2	77.2		46-142			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

Batch QC Report

PCBs - EPA8082

Matrix Spike (MS / MSD)	Soil	QC Batch # 2000/03/21-02.14
Sample ID: GMX36C-4.5		Lab Sample ID: 2000-03-0371-020
MS: 2000/03/21-02.14-004	Extracted: 03/21/2000 11:58	Analyzed: 03/22/2000 03:39 Dilution: 1.0
MSD: 2000/03/21-02.14-005	Extracted: 03/21/2000 11:58	Analyzed: 03/22/2000 04:14 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp. Conc. [mg/Kg]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Aroclor 1016	0.0514	0.0539	ND	0.0665	0.0661	77.3	81.5	5.3	65-135	30		
Aroclor 1260	0.0553	0.0584	ND	0.0665	0.0661	83.2	88.4	6.1	65-135	30		
Surrogate(s)												
2,4,5,6-Tetrachloro-m-xy	35.9	36.8		50	50	71.8	73.6		50-125			
Decachlorobiphenyl	38.2	41.4		50	50	76.4	82.8		46-142			

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To: **Geomatrix Consultants**
Attn: Ann Holbrow

Test Method: 8082
Prep Method: 3550/8082

Legend & Notes

PCBs - EPA8082

Analyte Flags

s

One surrogate recovery out of control, but second surrogate within QC limits confirms test performance.

CAM 17 Metals

Geomatrix Consultants

✉ 2101 Webster Street, 12th Floor
Oakland, CA 94612

Attn: Ann Holbrow

Phone: (510) 663-4100 Fax: (510) 663-4141

Project #: 6262

Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
GMX38C-1.0	Soil	03/20/2000 09:40	7
GMX38C-4.5	Soil	03/20/2000 09:50	8
GMX38C-8.0	Soil	03/20/2000 09:55	9
GMX37C-1.0	Soil	03/20/2000 10:35	13
GMX37C-4.5	Soil	03/20/2000 10:45	14
GMX37C-8.0	Soil	03/20/2000 10:50	15
GMX36C-1.0	Soil	03/20/2000 11:55	19
GMX36C-4.5	Soil	03/20/2000 12:05	20
GMX36C-8.0	Soil	03/20/2000 12:15	21
GMX39C-1.0	Soil	03/20/2000 12:25	22
GMX39C-4.5	Soil	03/20/2000 12:35	23
GMX39C-8.0	Soil	03/20/2000 12:40	24

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: **Geomatrix Consultants**

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX38C-1.0	Lab Sample ID: 2000-03-0371-007
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 09:40	Extracted: 03/21/2000 15:32
Matrix: Soil	QC-Batch: 2000/03/21-02.15
Sample/Analysis Flag . (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/21/2000 17:33	
Arsenic	2.8	1.0	mg/Kg	1.00	03/21/2000 17:33	
Barium	130	1.0	mg/Kg	1.00	03/21/2000 17:33	
Beryllium	ND	0.50	mg/Kg	1.00	03/21/2000 17:33	
Cadmium	ND	0.50	mg/Kg	1.00	03/21/2000 17:33	
Chromium	21	1.0	mg/Kg	1.00	03/21/2000 17:33	
Cobalt	6.2	1.0	mg/Kg	1.00	03/21/2000 17:33	
Copper	18	1.0	mg/Kg	1.00	03/21/2000 17:33	
Lead	12	1.0	mg/Kg	1.00	03/21/2000 17:33	
Molybdenum	ND	1.0	mg/Kg	1.00	03/21/2000 17:33	
Nickel	23	1.0	mg/Kg	1.00	03/21/2000 17:33	
Selenium	ND	2.0	mg/Kg	1.00	03/21/2000 17:33	
Silver	ND	1.0	mg/Kg	1.00	03/21/2000 17:33	
Thallium	ND	1.0	mg/Kg	1.00	03/21/2000 17:33	
Vanadium	25	1.0	mg/Kg	1.00	03/21/2000 17:33	
Zinc	33	1.0	mg/Kg	1.00	03/21/2000 17:33	
Mercury	0.052	0.050	mg/Kg	1.00	03/22/2000 10:59	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX38C-4.5	Lab Sample ID: 2000-03-0371-008
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 09:50	Extracted: 03/21/2000 15:32
Matrix: Soil	QC-Batch: 2000/03/21-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/21/2000 17:36	
Arsenic	ND	1.0	mg/Kg	1.00	03/21/2000 17:36	
Barium	100	1.0	mg/Kg	1.00	03/21/2000 17:36	
Beryllium	ND	0.50	mg/Kg	1.00	03/21/2000 17:36	
Cadmium	ND	0.50	mg/Kg	1.00	03/21/2000 17:36	
Chromium	20	1.0	mg/Kg	1.00	03/21/2000 17:36	
Cobalt	7.3	1.0	mg/Kg	1.00	03/21/2000 17:36	
Copper	11	1.0	mg/Kg	1.00	03/21/2000 17:36	
Lead	4.8	1.0	mg/Kg	1.00	03/21/2000 17:36	
Molybdenum	ND	1.0	mg/Kg	1.00	03/21/2000 17:36	
Nickel	21	1.0	mg/Kg	1.00	03/21/2000 17:36	
Selenium	ND	2.0	mg/Kg	1.00	03/21/2000 17:36	
Silver	ND	1.0	mg/Kg	1.00	03/21/2000 17:36	
Thallium	ND	1.0	mg/Kg	1.00	03/21/2000 17:36	
Vanadium	16	1.0	mg/Kg	1.00	03/21/2000 17:36	
Zinc	16	1.0	mg/Kg	1.00	03/21/2000 17:36	
Mercury	ND	0.050	mg/Kg	1.00	03/22/2000 11:00	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: **Geomatrix Consultants**

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX38C-8.0	Lab Sample ID: 2000-03-0371-009
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 09:55	Extracted: 03/21/2000 15:32
Matrix: Soil	QC-Batch: 2000/03/21-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/21/2000 17:56	
Arsenic	1.0	1.0	mg/Kg	1.00	03/21/2000 17:56	
Barium	73	1.0	mg/Kg	1.00	03/21/2000 17:56	
Beryllium	ND	0.50	mg/Kg	1.00	03/21/2000 17:56	
Cadmium	ND	0.50	mg/Kg	1.00	03/21/2000 17:56	
Chromium	21	1.0	mg/Kg	1.00	03/21/2000 17:56	
Cobalt	4.1	1.0	mg/Kg	1.00	03/21/2000 17:56	
Copper	9.4	1.0	mg/Kg	1.00	03/21/2000 17:56	
Lead	4.2	1.0	mg/Kg	1.00	03/21/2000 17:56	
Molybdenum	ND	1.0	mg/Kg	1.00	03/21/2000 17:56	
Nickel	28	1.0	mg/Kg	1.00	03/21/2000 17:56	
Selenium	ND	2.0	mg/Kg	1.00	03/21/2000 17:56	
Silver	ND	1.0	mg/Kg	1.00	03/21/2000 17:56	
Thallium	ND	1.0	mg/Kg	1.00	03/21/2000 17:56	
Vanadium	17	1.0	mg/Kg	1.00	03/21/2000 17:56	
Zinc	23	1.0	mg/Kg	1.00	03/21/2000 17:56	
Mercury	ND	0.050	mg/Kg	1.00	03/22/2000 11:01	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX37C-1.0	Lab Sample ID: 2000-03-0371-013
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 10:35	Extracted: 03/21/2000 15:32
Matrix: Soil	QC-Batch: 2000/03/21-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/21/2000 18:00	
Arsenic	3.9	1.0	mg/Kg	1.00	03/21/2000 18:00	
Barium	100	1.0	mg/Kg	1.00	03/21/2000 18:00	
Beryllium	ND	0.50	mg/Kg	1.00	03/21/2000 18:00	
Cadmium	0.55	0.50	mg/Kg	1.00	03/21/2000 18:00	
Chromium	29	1.0	mg/Kg	1.00	03/21/2000 18:00	
Cobalt	9.6	1.0	mg/Kg	1.00	03/21/2000 18:00	
Copper	34	1.0	mg/Kg	1.00	03/21/2000 18:00	
Lead	31	1.0	mg/Kg	1.00	03/21/2000 18:00	
Molybdenum	ND	1.0	mg/Kg	1.00	03/21/2000 18:00	
Nickel	34	1.0	mg/Kg	1.00	03/21/2000 18:00	
Selenium	ND	2.0	mg/Kg	1.00	03/21/2000 18:00	
Silver	ND	1.0	mg/Kg	1.00	03/21/2000 18:00	
Thallium	ND	1.0	mg/Kg	1.00	03/21/2000 18:00	
Vanadium	42	1.0	mg/Kg	1.00	03/21/2000 18:00	
Zinc	87	1.0	mg/Kg	1.00	03/21/2000 18:00	
Mercury	0.21	0.050	mg/Kg	1.00	03/22/2000 11:03	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: **Geomatrix Consultants**

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX37C-4.5	Lab Sample ID: 2000-03-0371-014
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 10:45	Extracted: 03/21/2000 15:32
Matrix: Soil	QC-Batch: 2000/03/21-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/21/2000 18:03	
Arsenic	4.7	1.0	mg/Kg	1.00	03/21/2000 18:03	
Barium	150	1.0	mg/Kg	1.00	03/21/2000 18:03	
Beryllium	ND	0.50	mg/Kg	1.00	03/21/2000 18:03	
Cadmium	ND	0.50	mg/Kg	1.00	03/21/2000 18:03	
Chromium	26	1.0	mg/Kg	1.00	03/21/2000 18:03	
Cobalt	8.6	1.0	mg/Kg	1.00	03/21/2000 18:03	
Copper	48	1.0	mg/Kg	1.00	03/21/2000 18:03	
Lead	17	1.0	mg/Kg	1.00	03/21/2000 18:03	
Molybdenum	ND	1.0	mg/Kg	1.00	03/21/2000 18:03	
Nickel	30	1.0	mg/Kg	1.00	03/21/2000 18:03	
Selenium	ND	2.0	mg/Kg	1.00	03/21/2000 18:03	
Silver	ND	1.0	mg/Kg	1.00	03/21/2000 18:03	
Thallium	ND	1.0	mg/Kg	1.00	03/21/2000 18:03	
Vanadium	37	1.0	mg/Kg	1.00	03/21/2000 18:03	
Zinc	54	1.0	mg/Kg	1.00	03/21/2000 18:03	
Mercury	0.066	0.050	mg/Kg	1.00	03/22/2000 11:04	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX37C-8.0	Lab Sample ID: 2000-03-0371-015
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 10:50	Extracted: 03/21/2000 15:32
Matrix: Soil	QC-Batch: 2000/03/21-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/21/2000 18:06	
Arsenic	5.0	1.0	mg/Kg	1.00	03/21/2000 18:06	
Barium	150	1.0	mg/Kg	1.00	03/21/2000 18:06	
Beryllium	ND	0.50	mg/Kg	1.00	03/21/2000 18:06	
Cadmium	ND	0.50	mg/Kg	1.00	03/21/2000 18:06	
Chromium	26	1.0	mg/Kg	1.00	03/21/2000 18:06	
Cobalt	8.7	1.0	mg/Kg	1.00	03/21/2000 18:06	
Copper	47	1.0	mg/Kg	1.00	03/21/2000 18:06	
Lead	17	1.0	mg/Kg	1.00	03/21/2000 18:06	
Molybdenum	ND	1.0	mg/Kg	1.00	03/21/2000 18:06	
Nickel	30	1.0	mg/Kg	1.00	03/21/2000 18:06	
Selenium	ND	2.0	mg/Kg	1.00	03/21/2000 18:06	
Silver	ND	1.0	mg/Kg	1.00	03/21/2000 18:06	
Thallium	ND	1.0	mg/Kg	1.00	03/21/2000 18:06	
Vanadium	37	1.0	mg/Kg	1.00	03/21/2000 18:06	
Zinc	54	1.0	mg/Kg	1.00	03/21/2000 18:06	
Mercury	ND	0.050	mg/Kg	1.00	03/22/2000 11:05	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX36C-1.0	Lab Sample ID: 2000-03-0371-019
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 11:55	Extracted: 03/21/2000 15:32
Matrix: Soil	QC-Batch: 2000/03/21-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/21/2000 18:10	
Arsenic	3.4	1.0	mg/Kg	1.00	03/21/2000 18:10	
Barium	130	1.0	mg/Kg	1.00	03/21/2000 18:10	
Beryllium	ND	0.50	mg/Kg	1.00	03/21/2000 18:10	
Cadmium	ND	0.50	mg/Kg	1.00	03/21/2000 18:10	
Chromium	25	1.0	mg/Kg	1.00	03/21/2000 18:10	
Cobalt	7.5	1.0	mg/Kg	1.00	03/21/2000 18:10	
Copper	38	1.0	mg/Kg	1.00	03/21/2000 18:10	
Lead	18	1.0	mg/Kg	1.00	03/21/2000 18:10	
Molybdenum	ND	1.0	mg/Kg	1.00	03/21/2000 18:10	
Nickel	28	1.0	mg/Kg	1.00	03/21/2000 18:10	
Selenium	ND	2.0	mg/Kg	1.00	03/21/2000 18:10	
Silver	ND	1.0	mg/Kg	1.00	03/21/2000 18:10	
Thallium	ND	1.0	mg/Kg	1.00	03/21/2000 18:10	
Vanadium	28	1.0	mg/Kg	1.00	03/21/2000 18:10	
Zinc	76	1.0	mg/Kg	1.00	03/21/2000 18:10	
Mercury	0.062	0.050	mg/Kg	1.00	03/22/2000 11:06	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX36C-4.5	Lab Sample ID: 2000-03-0371-020
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 12:05	Extracted: 03/21/2000 15:32
Matrix: Soil	QC-Batch: 2000/03/21-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/21/2000 18:13	
Arsenic	1.4	1.0	mg/Kg	1.00	03/21/2000 18:13	
Barium	130	1.0	mg/Kg	1.00	03/21/2000 18:13	
Beryllium	ND	0.50	mg/Kg	1.00	03/21/2000 18:13	
Cadmium	ND	0.50	mg/Kg	1.00	03/21/2000 18:13	
Chromium	22	1.0	mg/Kg	1.00	03/21/2000 18:13	
Cobalt	8.3	1.0	mg/Kg	1.00	03/21/2000 18:13	
Copper	15	1.0	mg/Kg	1.00	03/21/2000 18:13	
Lead	22	1.0	mg/Kg	1.00	03/21/2000 18:13	
Molybdenum	ND	1.0	mg/Kg	1.00	03/21/2000 18:13	
Nickel	23	1.0	mg/Kg	1.00	03/21/2000 18:13	
Selenium	ND	2.0	mg/Kg	1.00	03/21/2000 18:13	
Silver	ND	1.0	mg/Kg	1.00	03/21/2000 18:13	
Thallium	ND	1.0	mg/Kg	1.00	03/21/2000 18:13	
Vanadium	17	1.0	mg/Kg	1.00	03/21/2000 18:13	
Zinc	44	1.0	mg/Kg	1.00	03/21/2000 18:13	
Mercury	0.097	0.050	mg/Kg	1.00	03/22/2000 11:10	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: **Geomatrix Consultants**

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX36C-8.0	Lab Sample ID: 2000-03-0371-021
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 12:15	Extracted: 03/21/2000 15:32
Matrix: Soil	QC-Batch: 2000/03/21-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/21/2000 18:23	
Arsenic	1.2	1.0	mg/Kg	1.00	03/21/2000 18:23	
Barium	110	1.0	mg/Kg	1.00	03/21/2000 18:23	
Beryllium	ND	0.50	mg/Kg	1.00	03/21/2000 18:23	
Cadmium	0.52	0.50	mg/Kg	1.00	03/21/2000 18:23	
Chromium	28	1.0	mg/Kg	1.00	03/21/2000 18:23	
Cobalt	6.6	1.0	mg/Kg	1.00	03/21/2000 18:23	
Copper	15	1.0	mg/Kg	1.00	03/21/2000 18:23	
Lead	5.0	1.0	mg/Kg	1.00	03/21/2000 18:23	
Molybdenum	ND	1.0	mg/Kg	1.00	03/21/2000 18:23	
Nickel	36	1.0	mg/Kg	1.00	03/21/2000 18:23	
Selenium	ND	2.0	mg/Kg	1.00	03/21/2000 18:23	
Silver	ND	1.0	mg/Kg	1.00	03/21/2000 18:23	
Thallium	ND	1.0	mg/Kg	1.00	03/21/2000 18:23	
Vanadium	21	1.0	mg/Kg	1.00	03/21/2000 18:23	
Zinc	34	1.0	mg/Kg	1.00	03/21/2000 18:23	
Mercury	ND	0.050	mg/Kg	1.00	03/22/2000 11:13	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX39C-1.0	Lab Sample ID: 2000-03-0371-022
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 12:25	Extracted: 03/21/2000 15:32
Matrix: Soil	QC-Batch: 2000/03/21-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/21/2000 18:27	
Arsenic	ND	1.0	mg/Kg	1.00	03/21/2000 18:27	
Barium	19	1.0	mg/Kg	1.00	03/21/2000 18:27	
Beryllium	ND	0.50	mg/Kg	1.00	03/21/2000 18:27	
Cadmium	ND	0.50	mg/Kg	1.00	03/21/2000 18:27	
Chromium	2.4	1.0	mg/Kg	1.00	03/21/2000 18:27	
Cobalt	ND	1.0	mg/Kg	1.00	03/21/2000 18:27	
Copper	3.9	1.0	mg/Kg	1.00	03/21/2000 18:27	
Lead	9.5	1.0	mg/Kg	1.00	03/21/2000 18:27	
Molybdenum	ND	1.0	mg/Kg	1.00	03/21/2000 18:27	
Nickel	ND	1.0	mg/Kg	1.00	03/21/2000 18:27	
Selenium	ND	2.0	mg/Kg	1.00	03/21/2000 18:27	
Silver	ND	1.0	mg/Kg	1.00	03/21/2000 18:27	
Thallium	ND	1.0	mg/Kg	1.00	03/21/2000 18:27	
Vanadium	1.5	1.0	mg/Kg	1.00	03/21/2000 18:27	
Zinc	66	1.0	mg/Kg	1.00	03/21/2000 18:27	
Mercury	ND	0.050	mg/Kg	1.00	03/22/2000 11:15	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: **Geomatrix Consultants**

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX39C-4.5	Lab Sample ID: 2000-03-0371-023
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 12:35	Extracted: 03/21/2000 15:32
Matrix: Soil	QC-Batch: 2000/03/21-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/21/2000 18:42	
Arsenic	1.2	1.0	mg/Kg	1.00	03/21/2000 18:42	
Barium	120	1.0	mg/Kg	1.00	03/21/2000 18:42	
Beryllium	ND	0.50	mg/Kg	1.00	03/21/2000 18:42	
Cadmium	ND	0.50	mg/Kg	1.00	03/21/2000 18:42	
Chromium	19	1.0	mg/Kg	1.00	03/21/2000 18:42	
Cobalt	5.4	1.0	mg/Kg	1.00	03/21/2000 18:42	
Copper	14	1.0	mg/Kg	1.00	03/21/2000 18:42	
Lead	8.8	1.0	mg/Kg	1.00	03/21/2000 18:42	
Molybdenum	ND	1.0	mg/Kg	1.00	03/21/2000 18:42	
Nickel	19	1.0	mg/Kg	1.00	03/21/2000 18:42	
Selenium	ND	2.0	mg/Kg	1.00	03/21/2000 18:42	
Silver	ND	1.0	mg/Kg	1.00	03/21/2000 18:42	
Thallium	ND	1.0	mg/Kg	1.00	03/21/2000 18:42	
Vanadium	16	1.0	mg/Kg	1.00	03/21/2000 18:42	
Zinc	22	1.0	mg/Kg	1.00	03/21/2000 18:42	
Mercury	ND	0.050	mg/Kg	1.00	03/22/2000 11:16	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX39C-8.0	Lab Sample ID: 2000-03-0371-024
Project: 6262	Received: 03/21/2000 09:46
Sampled: 03/20/2000 12:40	Extracted: 03/21/2000 15:32
Matrix: Soil	QC-Batch: 2000/03/21-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/21/2000 18:46	
Arsenic	1.9	1.0	mg/Kg	1.00	03/21/2000 18:46	
Barium	90	1.0	mg/Kg	1.00	03/21/2000 18:46	
Beryllium	ND	0.50	mg/Kg	1.00	03/21/2000 18:46	
Cadmium	ND	0.50	mg/Kg	1.00	03/21/2000 18:46	
Chromium	26	1.0	mg/Kg	1.00	03/21/2000 18:46	
Cobalt	5.0	1.0	mg/Kg	1.00	03/21/2000 18:46	
Copper	12	1.0	mg/Kg	1.00	03/21/2000 18:46	
Lead	4.5	1.0	mg/Kg	1.00	03/21/2000 18:46	
Molybdenum	ND	1.0	mg/Kg	1.00	03/21/2000 18:46	
Nickel	32	1.0	mg/Kg	1.00	03/21/2000 18:46	
Selenium	ND	2.0	mg/Kg	1.00	03/21/2000 18:46	
Silver	ND	1.0	mg/Kg	1.00	03/21/2000 18:46	
Thallium	ND	1.0	mg/Kg	1.00	03/21/2000 18:46	
Vanadium	19	1.0	mg/Kg	1.00	03/21/2000 18:46	
Zinc	29	1.0	mg/Kg	1.00	03/21/2000 18:46	
Mercury	ND	0.050	mg/Kg	1.00	03/22/2000 11:17	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 7471A

Attn.: Ann Holbrow

6010B

Prep Method: 3050B

7471A

Batch QC Report CAM 17 Metals

Method Blank	Soil	QC Batch # 2000/03/21-02.15
MB: 2000/03/21-02.15-013		Date Extracted: 03/21/2000 15:32

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	03/21/2000 17:23	
Arsenic	ND	1.0	mg/Kg	03/21/2000 17:23	
Barium	ND	1.0	mg/Kg	03/21/2000 17:23	
Beryllium	ND	0.50	mg/Kg	03/21/2000 17:23	
Cadmium	ND	0.50	mg/Kg	03/21/2000 17:23	
Chromium	ND	1.0	mg/Kg	03/21/2000 17:23	
Cobalt	ND	1.0	mg/Kg	03/21/2000 17:23	
Copper	ND	1.0	mg/Kg	03/21/2000 17:23	
Lead	ND	1.0	mg/Kg	03/21/2000 17:23	
Molybdenum	ND	1.0	mg/Kg	03/21/2000 17:23	
Nickel	ND	1.0	mg/Kg	03/21/2000 17:23	
Selenium	ND	2.0	mg/Kg	03/21/2000 17:23	
Silver	ND	1.0	mg/Kg	03/21/2000 17:23	
Thallium	ND	1.0	mg/Kg	03/21/2000 17:23	
Vanadium	ND	1.0	mg/Kg	03/21/2000 17:23	
Zinc	ND	1.0	mg/Kg	03/21/2000 17:23	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

Batch QC Report
CAM 17 Metals

Method Blank	Soil	QC Batch # 2000/03/21-02.16
MB: 2000/03/21-02.16-011		Date Extracted: 03/21/2000 15:37

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	03/22/2000 10:55	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2000/03/21-02.15	
LCS:	2000/03/21-02.15-014	Extracted:	03/21/2000 15:32	Analyzed	03/21/2000 17:27
LCSD:	2000/03/21-02.15-015	Extracted:	03/21/2000 15:32	Analyzed	03/21/2000 17:30

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Antimony	93.9	93.9	100.0	100.0	93.9	93.9	0.0	80-120	20		
Arsenic	91.6	91.4	100.0	100.0	91.6	91.4	0.2	80-120	20		
Barium	91.9	91.8	100.0	100.0	91.9	91.8	0.1	80-120	20		
Beryllium	93.2	92.7	100.0	100.0	93.2	92.7	0.5	80-120	20		
Cadmium	92.4	92.4	100.0	100.0	92.4	92.4	0.0	80-120	20		
Chromium	95.8	95.7	100.0	100.0	95.8	95.7	0.1	80-120	20		
Cobalt	92.8	92.9	100.0	100.0	92.8	92.9	0.1	80-120	20		
Copper	93.5	93.5	100.0	100.0	93.5	93.5	0.0	80-120	20		
Lead	92.1	92.1	100.0	100.0	92.1	92.1	0.0	80-120	20		
Molybdenum	94.9	95.1	100.0	100.0	94.9	95.1	0.2	80-120	20		
Nickel	92.2	92.1	100.0	100.0	92.2	92.1	0.1	80-120	20		
Selenium	92.6	93.3	100.0	100.0	92.6	93.3	0.8	80-120	20		
Silver	92.2	92.2	100.0	100.0	92.2	92.2	0.0	80-120	20		
Thallium	92.3	92.4	100.0	100.0	92.3	92.4	0.1	80-120	20		
Vanadium	94.3	94.3	100.0	100.0	94.3	94.3	0.0	80-120	20		
Zinc	91.2	91.2	100.0	100.0	91.2	91.2	0.0	80-120	20		

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2000/03/21-02.16	
LCS:	2000/03/21-02.16-012	Extracted:	03/21/2000 15:37	Analyzed	03/22/2000 10:56
LCSD:	2000/03/21-02.16-013	Extracted:	03/21/2000 15:37	Analyzed	03/22/2000 10:58

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Mercury	0.520	0.505	0.500	0.500	104.0	101.0	2.9	85-115	20		

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Printed on: 03/23/2000 12:05

Page 17 of 24

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Matrix Spike (MS / MSD)

Soil

QC Batch # 2000/03/21-02.15

Sample ID: GMX36C-4.5

Lab Sample ID: 2000-03-0371-020

MS: 2000/03/21-02.15-026 Extracted: 03/21/2000 15:32 Analyzed: 03/21/2000 18:16 Dilution: 1.0

MSD: 2000/03/21-02.15-027 Extracted: 03/21/2000 15:32 Analyzed: 03/21/2000 18:20 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp.Conc. [mg/Kg]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Antimony	45.2	47.7	ND	100.0	100.0	45.2	47.7	5.4	75-125	20	mso	mso
Arsenic	83.3	84.5	1.43	100.0	100.0	81.9	83.1	1.5	75-125	20		
Barium	205	212	134	100.0	100.0	71.0	78.0	9.4	75-125	20	mso	
Beryllium	84.8	86.0	ND	100.0	100.0	84.8	86.0	1.4	75-125	20		
Cadmium	82.3	82.4	ND	100.0	100.0	82.3	82.4	0.1	75-125	20		
Chromium	110	111	21.8	100.0	100.0	88.2	89.2	1.1	75-125	20		
Cobalt	90.8	91.8	8.31	100.0	100.0	82.5	83.5	1.2	75-125	20		
Copper	102	103	14.7	100.0	100.0	87.3	88.3	1.1	75-125	20		
Lead	100	104	22.3	100.0	100.0	77.7	81.7	5.0	75-125	20		
Molybdenum	78.7	79.7	ND	100.0	100.0	78.7	79.7	1.3	75-125	20		
Nickel	105	106	22.6	100.0	100.0	82.4	83.4	1.2	75-125	20		
Selenium	82.9	83.0	ND	100.0	100.0	82.9	83.0	0.1	75-125	20		
Silver	86.4	86.4	ND	100.0	100.0	86.4	86.4	0.0	75-125	20		
Thallium	77.3	78.0	ND	100.0	100.0	77.3	78.0	0.9	75-125	20		
Vanadium	102	103	16.8	100.0	100.0	85.2	86.2	1.2	75-125	20		
Zinc	124	125	44.0	100.0	100.0	80.0	81.0	1.2	75-125	20		

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Matrix Spike (MS / MSD)

Soil

QC Batch # 2000/03/21-02.15

Sample ID: GMX33B-1.0

Lab Sample ID: 2000-03-0373-004

MS: 2000/03/21-02.15-038 Extracted: 03/21/2000 15:32 Analyzed: 03/21/2000 19:02 Dilution: 1.0

MSD: 2000/03/21-02.15-039 Extracted: 03/21/2000 15:32 Analyzed: 03/21/2000 19:06 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Antimony	48.8	51.3	ND	100.0	100.0	48.8	51.3	5.0	75-125	20	mso	mso
Arsenic	83.5	84.8	5.15	100.0	100.0	78.3	79.6	1.6	75-125	20		
Barium	253	234	318	100.0	100.0	-65.0	-84.0	-25.5	75-125	20	mso	mso
Beryllium	80.4	80.8	ND	100.0	100.0	80.4	80.8	0.5	75-125	20		
Cadmium	76.0	76.8	ND	100.0	100.0	76.0	76.8	1.0	75-125	20		
Chromium	118	117	32.3	100.0	100.0	85.7	84.7	1.2	75-125	20		
Cobalt	88.9	89.6	10.2	100.0	100.0	78.7	79.4	0.9	75-125	20		
Copper	133	133	41.5	100.0	100.0	91.5	91.5	0.0	75-125	20		
Lead	90.3	91.7	13.8	100.0	100.0	76.5	77.9	1.8	75-125	20		
Molybdenum	76.3	77.3	ND	100.0	100.0	76.3	77.3	1.3	75-125	20		
Nickel	112	113	31.4	100.0	100.0	80.6	81.6	1.2	75-125	20		
Selenium	77.2	78.2	ND	100.0	100.0	77.2	78.2	1.3	75-125	20		
Silver	82.4	83.1	ND	100.0	100.0	82.4	83.1	0.8	75-125	20		
Thallium	69.9	69.6	ND	100.0	100.0	69.9	69.6	0.4	75-125	20	mso	mso
Vanadium	136	140	48.6	100.0	100.0	87.4	91.4	4.5	75-125	20		
Zinc	134	135	97.8	100.0	100.0	36.2	37.2	2.7	75-125	20	mso	mso

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Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: **Geomatrix Consultants**

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Matrix Spike (MS / MSD)

Soil

QC Batch # 2000/03/21-02.15

Sample ID: **GMX33B-7.0**

Lab Sample ID: 2000-03-0373-006

MS: 2000/03/21-02.15-044 Extracted: 03/21/2000 15:32 Analyzed: 03/21/2000 19:38 Dilution: 1.0

MSD: 2000/03/21-02.15-045 Extracted: 03/21/2000 15:32 Analyzed: 03/21/2000 19:42 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp.Conc. [mg/Kg]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Antimony	66.1	70.2	ND	100.0	100.0	66.1	70.2	6.0	75-125	20	mso	mso
Arsenic	90.8	96.6	1.12	100.0	100.0	89.7	95.5	6.3	75-125	20		
Barium	198	216	107	100.0	100.0	91.0	109.0	18.0	75-125	20		
Beryllium	90.8	94.9	ND	100.0	100.0	90.8	94.9	4.4	75-125	20		
Cadmium	85.5	91.2	ND	100.0	100.0	85.5	91.2	6.5	75-125	20		
Chromium	122	129	29.2	100.0	100.0	92.8	99.8	7.3	75-125	20		
Cobalt	93.9	98.3	6.96	100.0	100.0	86.9	91.3	4.9	75-125	20		
Copper	106	110	12.3	100.0	100.0	93.7	97.7	4.2	75-125	20		
Lead	88.7	95.2	4.72	100.0	100.0	84.0	90.5	7.4	75-125	20		
Molybdenum	87.8	88.8	ND	100.0	100.0	87.8	88.8	1.1	75-125	20		
Nickel	116	125	31.6	100.0	100.0	84.4	93.4	10.1	75-125	20		
Selenium	88.8	91.8	ND	100.0	100.0	88.8	91.8	3.3	75-125	20		
Silver	92.3	93.2	ND	100.0	100.0	92.3	93.2	1.0	75-125	20		
Thallium	80.3	80.3	ND	100.0	100.0	80.3	80.3	0.0	75-125	20		
Vanadium	112	114	21.2	100.0	100.0	90.8	92.8	2.2	75-125	20		
Zinc	113	128	29.6	100.0	100.0	83.4	98.4	16.5	75-125	20		

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Matrix Spike (MS / MSD)

Soil

QC Batch # 2000/03/21-02.16

Sample ID: GMX36C-4.5

Lab Sample ID: 2000-03-0371-020

MS: 2000/03/21-02.16-024 Extracted: 03/21/2000 15:37 Analyzed: 03/22/2000 11:11 Dilution: 1.0

MSD: 2000/03/21-02.16-025 Extracted: 03/21/2000 15:37 Analyzed: 03/22/2000 11:12 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp. Conc. [mg/Kg]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Mercury	0.561	0.570	0.0969	0.500	0.500	92.8	94.6	1.9	85-115	20		

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Matrix Spike (MS / MSD)	Soil	QC Batch # 2000/03/21-02.16
Sample ID: GMX33B-1.0		Lab Sample ID: 2000-03-0373-004
MS: 2000/03/21-02.16-036	Extracted: 03/21/2000 15:37	Analyzed: 03/22/2000 11:26 Dilution: 1.0
MSD: 2000/03/21-02.16-037	Extracted: 03/21/2000 15:37	Analyzed: 03/22/2000 11:27 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp. Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Mercury	0.571	0.569	0.114	0.500	0.500	91.4	91.0	0.4	85-115	20		

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Matrix Spike (MS / MSD)

Soil

QC Batch # 2000/03/21-02.16

Sample ID: GMX33B-7.0

Lab Sample ID: 2000-03-0373-006

MS: 2000/03/21-02.16-040 Extracted: 03/21/2000 15:37 Analyzed: 03/22/2000 11:31 Dilution: 1.0

MSD: 2000/03/21-02.16-041 Extracted: 03/21/2000 15:37 Analyzed: 03/22/2000 11:32 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp.Conc. [mg/Kg]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	RPD [%]	Recovery	RPD	MS	MSD
Mercury	0.466	0.456	ND	0.500	0.500	93.2	91.2	2.2	85-115	20		

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0371

To: **Geomatrix Consultants**

Test Method: 6010B
7471A

Attn: Ann Holbrow

Prep Method: 3050B
7471A

Legend & Notes

CAM 17 Metals

QC Compound Flags

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096



FAX

 from **Geomatrix Consultants, Inc.**

 2101 Webster Street, 12th Floor, Oakland, CA 94612
 www.geomatrix.com

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Date: March 21, 2000

 Number of pages including cover sheet: 1

To: Ms. Afsaneh Salimpour

Chromalab

From: Tom Gavigan

Geomatrix Consultants
Fax Phone: 925-484-1096Fax Phone: 510-663-4141Phone: 925-484-1919Phone: 510-663-4100

cc: _____

Direct dial: 510-663-4192Email: Tgavigan@Geomatrix.comProject No.: 6262.000.0Project Name: Canterbury Residential Development
REMARKS:
 Hard copy to follow
 Urgent
 For your review
 Reply ASAP
 Please comment

Afsaneh:

Geomatrix submitted 72 soil samples in three coolers under seven Geomatrix chain of custody forms (0989, 0975, 0985, 003794, 003800, 003792, 003795). 24 soil samples were selected for analysis; the remaining soil samples were placed on hold pending results of the 24 samples. Please note the following clarifications / modifications to the analytical program:

- MS/MSDs: Please use samples GMX33B-1.0, GMX33B-4.0, GMX33B-7.0 (all on Geomatrix COC 0989) for MS/MSD analysis. Please **exclude** sample GMX36C-4.5 from MS/MSD analysis. Please do not perform MS/MSD analysis for any sample that is on hold.
- Holds: Please note that samples GMX34C-1.0, GMX34C-4.0, and GMX34C-7.0 (all on Geomatrix COC 0989) are on hold (the "checked" boxes on the COC are off by one column).

Please call me if you have any questions.

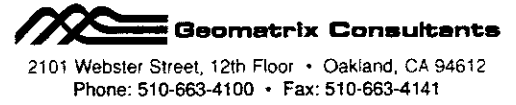
Thank you,

2000-03-0371

51095

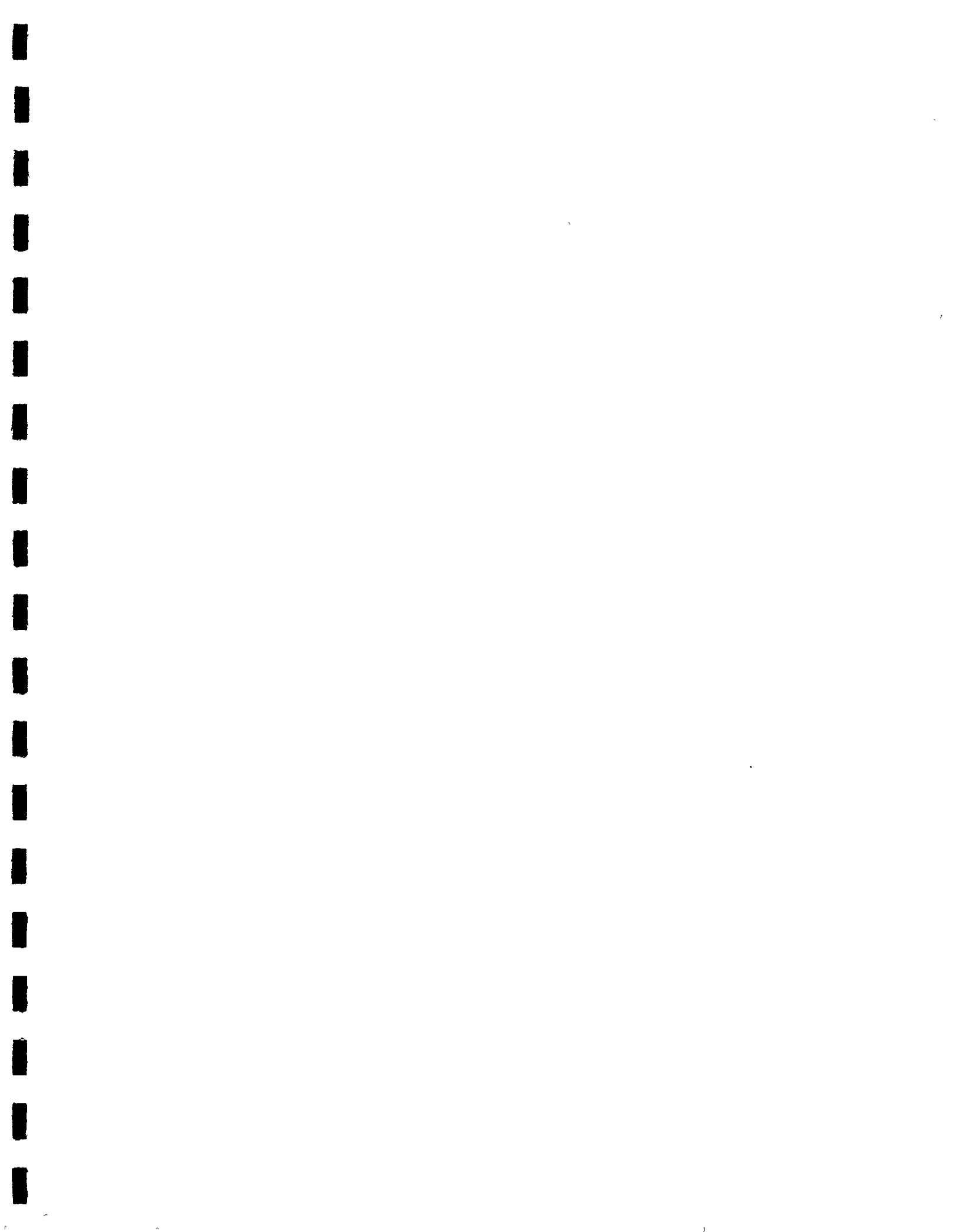
Chain-of-Custody Record			003792										Date: 03/20/00			Page 1 of 2							
Project No.: 6262			ANALYSES										REMARKS										
Samplers (Signature): <i>James M. Carolan</i>			EPA Method 8021 (Full Scan)	EPA Method 8021 (Hal. VOCs only)	EPA Method 8021 (BETX only)	EPA Method 8260	EPA Method 8270 (Full Scan)	EPA Method 8270 SIM (PAHS only)	Method 8015M (Gasoline)	Method 8015M (Diesel)	Method 8015M (Motor Oil)	Silica Gel Cleanup	Title 22 Metals (Lead/Zinc/Cadmium)	PCBs (209)	PCBs (209)	HOLD	MS/MSD	Soil (S), Water (W) Vapor (V), or Other (O)	Filtered	Preserved	Cooled	No. of Containers	Additional Comments
Date	Time	Sample Number																					
03/20/00	0920	GMX33A-1.0													X	X	S			X	1	1 2" x 6" ss liner	
	0930	GMX33A-3.5													X		S			X	1	1 1 1/8" x 6" ss liner	
	0940	GMX33A-5.0													X		S			X	1	1 1 5/8" x 6" ss liner	
	0900	GMX33B-1.0													X		S			X	1	1 2" x 6" ss liner	
	0910	GMX33B-4.5													X		S			X	1	1 1 5/8" x 6" ss liner	
	0925	GMX33B-8.0													X	X	S			X	1	1 1 5/8" x 6" ss liner	
	0940	GMX33C-1.0										X	X				S			X	1	1 2" x 6" ss liner	
	0950	GMX33C-4.5										X	X				S			X	1	1 5/8" x 6" ss liner	
	0955	GMX33C-8.0										X	X				S			X	1	1 1 5/8" x 6" ss liner	
	1000	GMX37B-1.0													X	X	S			X	1	1 2" x 6" ss liner	
	1015	GMX37B-4.5													X		S			X	1	1 1 5/8" x 6" ss liner	
	1020	GMX37B-8.0													X		S			X	1	1 1 5/8" x 6" ss liner	
	1035	GMX37C-1.0										X	X				S			X	1	1 2" x 6" ss liner	
	1045	GMX37C-4.5										X	X				S			X	1	1 1 5/8" x 6" ss liner	
	1050	GMX37C-8.0										X	X				S			X	1	1 1 5/8" x 6" ss liner	
Laboratory: Chromalab			Turnaround Time: 24 hours			Results to: Ann Holbrow			Total No. of Containers: 15			S.I.											
Relinquished by (Signature): <i>James M. Carolan</i>		Date: 3/20/00	Relinquished by (Signature):		Date:	Relinquished by (Signature):		Date:	Method of Shipment: Lab courier														
Printed Name: Jim Carolan		Time: 1700	Printed Name:		Time:	Printed Name:		Time:	Laboratory Comments and Log No.:														
Company: Geomatrix			Company:			Company:																	
Received by:		Date:	Received by:		Date:	Received by: <i>[Signature]</i>		Date: 03/21															
Printed Name:		Time:	Printed Name:		Time:	Printed Name: CRISTINA		Time: 09:30															
Company:			Company:			Company:																	

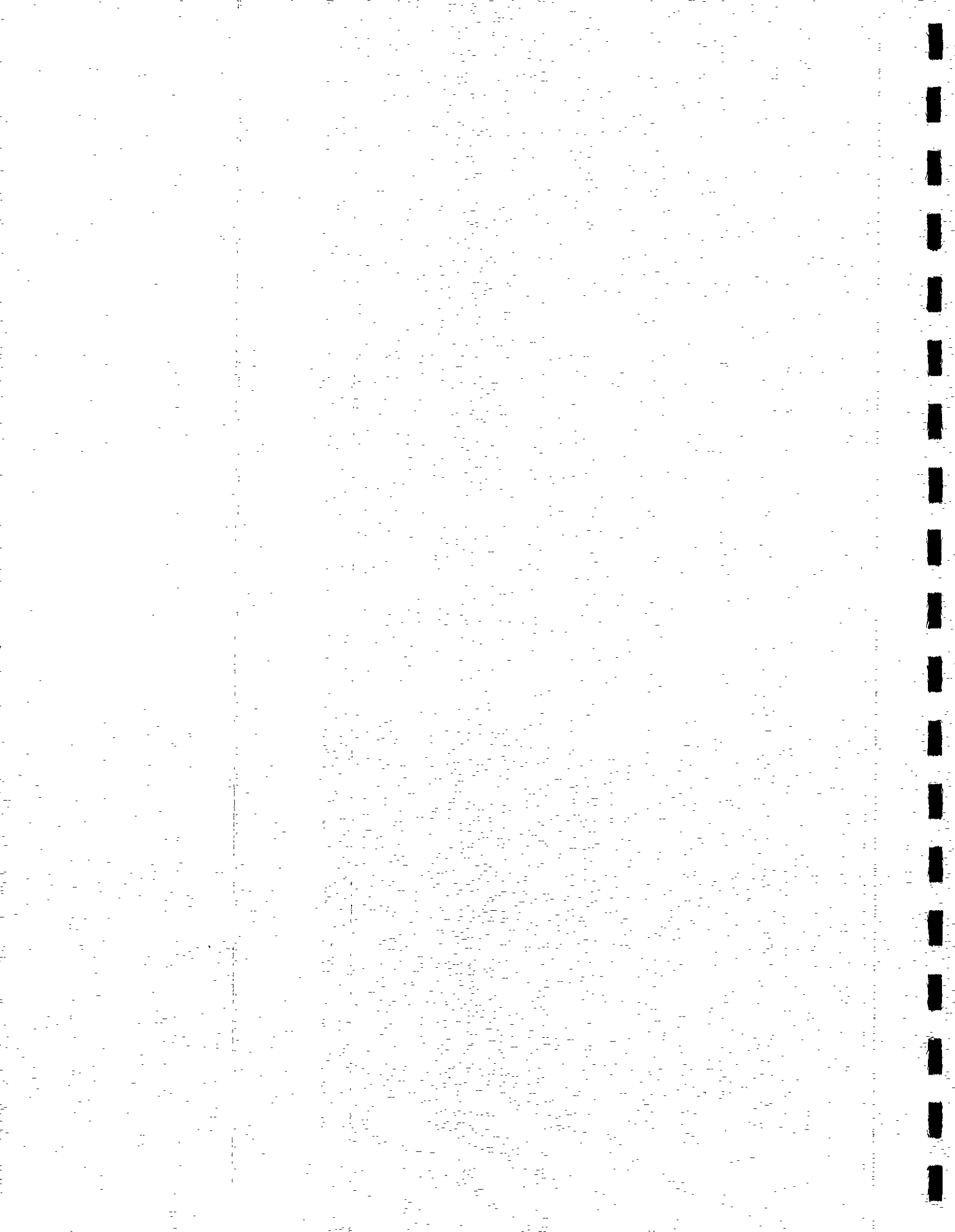
RUSH



2000-05-0377 3/20/00

Chain-of-Custody Record			003795												Date: 03/20/00			Page 2 of 2				
Project No.: 6262			ANALYSES												REMARKS							
Samplers (Signature): <i>James M. Carolan</i>			EPA Method 8021 (Full Scan)	EPA Method 8021 (Hal. VOCs only)	EPA Method 8021 (BETX only)	EPA Method 8260	EPA Method 8270 (Full Scan)	EPA Method 8270 SIM (PAHs only)	Method 8015M (Gasoline)	Method 8015M (Diesel)	Method 8015M (Motor Oil)	Silica Gel Cleanup	Title 22 Metals (As, Cd, Cr, Cu, Pb, Se, Zn)	PCBs / PCBs (2851 / 2852)	HOLD	MS/MSD	Soil (S), Water (W) Vapor (V), or Other (O)	Filtered	Preserved	Cooled	No. of Containers	Additional Comments
Date	Time	Sample Number																				
3/20/00	1100	GMX36B-1.0													X		S			X	1	1 2" x 6" ss liner
	1110	GMX36B-4.5													X		S			X	1	1 1 5/8" x 6" ss liner
	1120	GMX36B-8.0													X		S			X	1	1 1 5/8" x 6" ss liner
	1155	GMX36C-1.0										X	X				S			X	1	1 2" x 6" ss liner
	1205	GMX36C-4.5										X	X		X		S			X	1	1 1 5/8" x 6" ss liner
	1215	GMX36C-8.0										X	X				S			X	1	1 1 5/8" x 6" ss liner
	1225	GMX39C-1.0										X	X				S			X	1	1 2" x 6" ss liner
	1235	GMX39C-4.5										X	X				S			X	1	1 1 5/8" x 6" ss liner
	1240	GMX39C-8.0										X	X				S			X	1	1 1 5/8" x 6" ss liner
<i>James M. Carolan 3/20/00</i>																						
Laboratory: Chromalab			Turnaround Time: 24 hours			Results to: Ann Holbrow			Total No. of Containers: 9													
Relinquished by (Signature): <i>James M. Carolan</i>		Date: 3/20/00	Relinquished by (Signature):		Date:	Relinquished by (Signature):		Date:	Method of Shipment: Lab courier													
Printed Name: Jim Carolan		Time: 1700	Printed Name:		Time:	Printed Name:		Time:	Laboratory Comments and Log No.:													
Company: Geomatrix			Company:			Company:																
Received by:		Date:	Received by:		Date:	Received by:		Date:														
Printed Name:		Time:	Printed Name:		Time:	Printed Name:		Time:														
Company:			Company:			Company:																





CHROMALAB, INC.

Environmental Services (SDB)

Project Manager: Afsaneh Salimpour

Invoice#: 2000-03-0372

Invoice Date: March 29, 2000

INVOICE

Samples Received From		Report Results To			
Geomatrix Consultants Contact: Ann Holbrow 2101 Webster Street, 12th Floor Oakland, CA 94612		Geomatrix Consultants Contact: Ann Holbrow 2101 Webster Street, 12th Floor Oakland, CA 94612			
Bill To		GEOMATRIX			
Geomatrix Consultants Attn: Attn: Accts. Payable 2101 Webster Street, 12th Floor Oakland, CA 94612		Received:	March 21, 2000 10:30 AM		
Project: 6262					
Qty	Matrix	Analysis	TAT	Unit Price	Total
3	Soil	CAM 17 metals	1 Day	\$150.00	\$450.00
3	Soil	Organochlorine Pesticides/PCBs	1 Day	\$150.00	\$450.00
1		24 hr rush services		\$900.00	\$900.00
					\$1,800.00

Terms and conditions:

Net30

Please Send Payment to: ChromaLab, Inc.
1220 Quarry Lane
Pleasanton, CA 94566-4756
Phone: (925) 484-1919 Fax: (925) 484-1096

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096
Federal ID# 68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

Date: March 23, 2000

Geomatrix Consultants

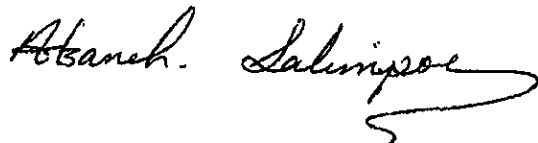
2101 Webster Street, 12th Floor
Oakland, CA 94612

Attn.: Ann Holbrow

Attached is our report for your samples received on Tuesday March 21, 2000
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after April 20, 2000
unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: asalimpour@chromalab.com

Sincerely,



Afsaneh Salimpour

CAM 17 Metals

Geomatrix Consultants

✉ 2101 Webster Street, 12th Floor
Oakland, CA 94612

Attn: Ann Holbrow

Phone: (510) 663-4100 Fax: (510) 663-4141

Project #: 6262

Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
GMX40C-1.0	Soil	03/20/2000 13:25	4
GMX40C-4.5	Soil	03/20/2000 13:31	5
GMX40C-3.0	Soil	03/20/2000 13:40	6

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

To: **Geomatrix Consultants**

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX40C-1.0	Lab Sample ID: 2000-03-0372-004
Project: 6262	Received: 03/21/2000 10:30
Sampled: 03/20/2000 13:25	Extracted: 03/21/2000 15:32
Matrix: Soil	QC-Batch: 2000/03/21-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/21/2000 18:49	
Arsenic	2.6	1.0	mg/Kg	1.00	03/21/2000 18:49	
Barium	120	1.0	mg/Kg	1.00	03/21/2000 18:49	
Beryllium	ND	0.50	mg/Kg	1.00	03/21/2000 18:49	
Cadmium	ND	0.50	mg/Kg	1.00	03/21/2000 18:49	
Chromium	22	1.0	mg/Kg	1.00	03/21/2000 18:49	
Cobalt	8.1	1.0	mg/Kg	1.00	03/21/2000 18:49	
Copper	33	1.0	mg/Kg	1.00	03/21/2000 18:49	
Lead	16	1.0	mg/Kg	1.00	03/21/2000 18:49	
Molybdenum	ND	1.0	mg/Kg	1.00	03/21/2000 18:49	
Nickel	25	1.0	mg/Kg	1.00	03/21/2000 18:49	
Selenium	ND	2.0	mg/Kg	1.00	03/21/2000 18:49	
Silver	ND	1.0	mg/Kg	1.00	03/21/2000 18:49	
Thallium	ND	1.0	mg/Kg	1.00	03/21/2000 18:49	
Vanadium	37	1.0	mg/Kg	1.00	03/21/2000 18:49	
Zinc	47	1.0	mg/Kg	1.00	03/21/2000 18:49	
Mercury	0.39	0.050	mg/Kg	1.00	03/22/2000 11:18	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX40C-4.5	Lab Sample ID: 2000-03-0372-005
Project: 6262	Received: 03/21/2000 10:30
Sampled: 03/20/2000 13:31	Extracted: 03/21/2000 15:32
Matrix: Soil	QC-Batch: 2000/03/21-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/21/2000 18:52	
Arsenic	1.5	1.0	mg/Kg	1.00	03/21/2000 18:52	
Barium	160	1.0	mg/Kg	1.00	03/21/2000 18:52	
Beryllium	ND	0.50	mg/Kg	1.00	03/21/2000 18:52	
Cadmium	ND	0.50	mg/Kg	1.00	03/21/2000 18:52	
Chromium	24	1.0	mg/Kg	1.00	03/21/2000 18:52	
Cobalt	7.9	1.0	mg/Kg	1.00	03/21/2000 18:52	
Copper	13	1.0	mg/Kg	1.00	03/21/2000 18:52	
Lead	5.4	1.0	mg/Kg	1.00	03/21/2000 18:52	
Molybdenum	ND	1.0	mg/Kg	1.00	03/21/2000 18:52	
Nickel	29	1.0	mg/Kg	1.00	03/21/2000 18:52	
Selenium	ND	2.0	mg/Kg	1.00	03/21/2000 18:52	
Silver	ND	1.0	mg/Kg	1.00	03/21/2000 18:52	
Thallium	ND	1.0	mg/Kg	1.00	03/21/2000 18:52	
Vanadium	20	1.0	mg/Kg	1.00	03/21/2000 18:52	
Zinc	21	1.0	mg/Kg	1.00	03/21/2000 18:52	
Mercury	ND	0.050	mg/Kg	1.00	03/22/2000 11:20	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

To: **Geomatrix Consultants**

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX40C-3.0	Lab Sample ID: 2000-03-0372-006
Project: 6262	Received: 03/21/2000 10:30
Sampled: 03/20/2000 13:40	Extracted: 03/21/2000 15:32
Matrix: Soil	QC-Batch: 2000/03/21-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/21/2000 18:55	
Arsenic	1.7	1.0	mg/Kg	1.00	03/21/2000 18:55	
Barium	130	1.0	mg/Kg	1.00	03/21/2000 18:55	
Beryllium	ND	0.50	mg/Kg	1.00	03/21/2000 18:55	
Cadmium	ND	0.50	mg/Kg	1.00	03/21/2000 18:55	
Chromium	27	1.0	mg/Kg	1.00	03/21/2000 18:55	
Cobalt	6.3	1.0	mg/Kg	1.00	03/21/2000 18:55	
Copper	13	1.0	mg/Kg	1.00	03/21/2000 18:55	
Lead	4.6	1.0	mg/Kg	1.00	03/21/2000 18:55	
Molybdenum	ND	1.0	mg/Kg	1.00	03/21/2000 18:55	
Nickel	32	1.0	mg/Kg	1.00	03/21/2000 18:55	
Selenium	ND	2.0	mg/Kg	1.00	03/21/2000 18:55	
Silver	ND	1.0	mg/Kg	1.00	03/21/2000 18:55	
Thallium	ND	1.0	mg/Kg	1.00	03/21/2000 18:55	
Vanadium	23	1.0	mg/Kg	1.00	03/21/2000 18:55	
Zinc	29	1.0	mg/Kg	1.00	03/21/2000 18:55	
Mercury	ND	0.050	mg/Kg	1.00	03/22/2000 11:21	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

To: Geomatrix Consultants

Test Method: 7471A

Attn.: Ann Holbrow

6010B

Prep Method: 3050B

7471A

Batch QC Report CAM 17 Metals

Method Blank	Soil	QC Batch # 2000/03/21-02.15
MB: 2000/03/21-02.15-013		Date Extracted: 03/21/2000 15:32

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	03/21/2000 17:23	
Arsenic	ND	1.0	mg/Kg	03/21/2000 17:23	
Barium	ND	1.0	mg/Kg	03/21/2000 17:23	
Beryllium	ND	0.50	mg/Kg	03/21/2000 17:23	
Cadmium	ND	0.50	mg/Kg	03/21/2000 17:23	
Chromium	ND	1.0	mg/Kg	03/21/2000 17:23	
Cobalt	ND	1.0	mg/Kg	03/21/2000 17:23	
Copper	ND	1.0	mg/Kg	03/21/2000 17:23	
Lead	ND	1.0	mg/Kg	03/21/2000 17:23	
Molybdenum	ND	1.0	mg/Kg	03/21/2000 17:23	
Nickel	ND	1.0	mg/Kg	03/21/2000 17:23	
Selenium	ND	2.0	mg/Kg	03/21/2000 17:23	
Silver	ND	1.0	mg/Kg	03/21/2000 17:23	
Thallium	ND	1.0	mg/Kg	03/21/2000 17:23	
Vanadium	ND	1.0	mg/Kg	03/21/2000 17:23	
Zinc	ND	1.0	mg/Kg	03/21/2000 17:23	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

Batch QC Report CAM 17 Metals

Method Blank	Soil	QC Batch # 2000/03/21-02.16
MB: 2000/03/21-02.16-011		Date Extracted: 03/21/2000 15:37

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	03/22/2000 10:55	

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Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn: Ann Holbrow

Prep Method: 3050B
7471A

Batch QC Report

CAM 17 Metals

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2000/03/21-02.15	
LCS:	2000/03/21-02.15-014	Extracted:	03/21/2000 15:32	Analyzed	03/21/2000 17:27
LCSD:	2000/03/21-02.15-015	Extracted:	03/21/2000 15:32	Analyzed	03/21/2000 17:30

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%]			RPD		Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD	Recovery	RPD	LCS	LCSD		
Antimony	93.9	93.9	100.0	100.0	93.9	93.9	0.0	80-120	20				
Arsenic	91.6	91.4	100.0	100.0	91.6	91.4	0.2	80-120	20				
Barium	91.9	91.8	100.0	100.0	91.9	91.8	0.1	80-120	20				
Beryllium	93.2	92.7	100.0	100.0	93.2	92.7	0.5	80-120	20				
Cadmium	92.4	92.4	100.0	100.0	92.4	92.4	0.0	80-120	20				
Chromium	95.8	95.7	100.0	100.0	95.8	95.7	0.1	80-120	20				
Cobalt	92.8	92.9	100.0	100.0	92.8	92.9	0.1	80-120	20				
Copper	93.5	93.5	100.0	100.0	93.5	93.5	0.0	80-120	20				
Lead	92.1	92.1	100.0	100.0	92.1	92.1	0.0	80-120	20				
Molybdenum	94.9	95.1	100.0	100.0	94.9	95.1	0.2	80-120	20				
Nickel	92.2	92.1	100.0	100.0	92.2	92.1	0.1	80-120	20				
Selenium	92.6	93.3	100.0	100.0	92.6	93.3	0.8	80-120	20				
Silver	92.2	92.2	100.0	100.0	92.2	92.2	0.0	80-120	20				
Thallium	92.3	92.4	100.0	100.0	92.3	92.4	0.1	80-120	20				
Vanadium	94.3	94.3	100.0	100.0	94.3	94.3	0.0	80-120	20				
Zinc	91.2	91.2	100.0	100.0	91.2	91.2	0.0	80-120	20				

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

Printed on: 03/22/2000 14:57

Page 7 of 8

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

To: **Geomatrix Consultants**

Test Method: 7471A
6010B

Attn: Ann Holbrow

Prep Method: 3050B
7471A

Batch QC Report

CAM 17 Metals

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2000/03/21-02.16	
LCS:	2000/03/21-02.16-012	Extracted:	03/21/2000 15:37	Analyzed	03/22/2000 10:56
LCSD:	2000/03/21-02.16-013	Extracted:	03/21/2000 15:37	Analyzed	03/22/2000 10:58

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Mercury	0.520	0.505	0.500	0.500	104.0	101.0	2.9	85-115	20		

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

PCBs - EPA8082

Geomatrix Consultants

✉ 2101 Webster Street, 12th Floor
Oakland, CA 94612

Attn: Ann Holbrow

Phone: (510) 663-4100 Fax: (510) 663-4141

Project #: 6262

Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
GMX40C-1.0	Soil	03/20/2000 13:25	4
GMX40C-4.5	Soil	03/20/2000 13:31	5
GMX40C-3.0	Soil	03/20/2000 13:40	6

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

To: Geomatrix Consultants

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX40C-1.0	Lab Sample ID: 2000-03-0372-004
Project: 6262	Received: 03/21/2000 10:30
Sampled: 03/20/2000 13:25	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/22/2000 11:10	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/22/2000 11:10	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/22/2000 11:10	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/22/2000 11:10	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/22/2000 11:10	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/22/2000 11:10	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/22/2000 11:10	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	53.4	50-125	%	1.00	03/22/2000 11:10	
Decachlorobiphenyl	20.4	46-142	%	1.00	03/22/2000 11:10	s

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

To: Geomatrix Consultants

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX40C-4.5	Lab Sample ID: 2000-03-0372-005
Project: 6262	Received: 03/21/2000 10:30
Sampled: 03/20/2000 13:31	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/21/2000 17:52	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/21/2000 17:52	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/21/2000 17:52	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/21/2000 17:52	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/21/2000 17:52	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/21/2000 17:52	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/21/2000 17:52	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	79.6	50-125	%	1.00	03/21/2000 17:52	
Decachlorobiphenyl	70.5	46-142	%	1.00	03/21/2000 17:52	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

To: Geomatrix Consultants

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX40C-3.0	Lab Sample ID: 2000-03-0372-006
Project: 6262	Received: 03/21/2000 10:30
Sampled: 03/20/2000 13:40	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/21/2000 18:27	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/21/2000 18:27	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/21/2000 18:27	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/21/2000 18:27	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/21/2000 18:27	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/21/2000 18:27	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/21/2000 18:27	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	63.8	50-125	%	1.00	03/21/2000 18:27	
Decachlorobiphenyl	64.8	46-142	%	1.00	03/21/2000 18:27	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

To: Geomatrix Consultants
Attn.: Ann Holbrow

Test Method: 8082
Prep Method: 3550/8082

Batch QC Report PCBs - EPA8082

Method Blank	Soil	QC Batch # 2000/03/21-02.14
MB: 2000/03/21-02.14-001		Date Extracted: 03/21/2000 11:58

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Aroclor 1016	ND	0.05	mg/Kg	03/21/2000 16:54	
Aroclor 1221	ND	0.05	mg/Kg	03/21/2000 16:54	
Aroclor 1232	ND	0.05	mg/Kg	03/21/2000 16:54	
Aroclor 1242	ND	0.05	mg/Kg	03/21/2000 16:54	
Aroclor 1248	ND	0.05	mg/Kg	03/21/2000 16:54	
Aroclor 1254	ND	0.05	mg/Kg	03/21/2000 16:54	
Aroclor 1260	ND	0.05	mg/Kg	03/21/2000 16:54	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	62.4	50-125	%	03/21/2000 16:54	
Decachlorobiphenyl	73.0	46-142	%	03/21/2000 16:54	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

Printed on: 03/22/2000 16:11

Page 5 of 7

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

To: Geomatrix Consultants

Test Method: 8082

Attn: Ann Holbrow

Prep Method: 3550/8082

Batch QC Report

PCBs - EPA8082

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2000/03/21-02.14	
LCS:	2000/03/21-02.14-002	Extracted:	03/21/2000 11:58	Analyzed	03/22/2000 05:57
LCSD:	2000/03/21-02.14-003	Extracted:	03/21/2000 11:58	Analyzed	03/22/2000 06:31

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%]			Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD [%]	Recovery	RPD	LCS	LCSD
Aroclor 1016	0.0530	0.0518	0.0667	0.0667	79.5	77.7	2.3	65-135	30		
Aroclor 1260	0.0527	0.0550	0.0667	0.0667	79.0	82.5	4.3	65-135	30		
Surrogate(s)											
2,4,5,6-Tetrachloro-m-xyl	32.1	30.5	50	50	64.2	61.0		50-125			
Decachlorobiphenyl	36.1	38.6	50	50	72.2	77.2		46-142			

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

To: **Geomatrix Consultants**
Attn: Ann Holbrow

Test Method: 8082
Prep Method: 3550/8082

Legend & Notes

PCBs - EPA8082

Analyte Flags

s

One surrogate recovery out of control, but second surrogate within QC limits confirms test performance.

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

Organochlorine Pesticides Analysis

Geomatrix Consultants

✉ 2101 Webster Street, 12th Floor
Oakland, CA 94612

Attn: Ann Holbrow

Phone: (510) 663-4100 Fax: (510) 663-4141

Project #: 6262

Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
GMX40C-1.0	Soil	03/20/2000 13:25	4
GMX40C-4.5	Soil	03/20/2000 13:31	5
GMX40C-3.0	Soil	03/20/2000 13:40	6

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX40C-1.0	Lab Sample ID: 2000-03-0372-004
Project: 6262	Received: 03/21/2000 10:30
Sampled: 03/20/2000 13:25	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13
Sample/Analysis Flag In (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	10	ug/Kg	5.00	03/22/2000 03:52	
Dieldrin	ND	10	ug/Kg	5.00	03/22/2000 03:52	
Endrin aldehyde	ND	50	ug/Kg	5.00	03/22/2000 03:52	
Endrin	ND	10	ug/Kg	5.00	03/22/2000 03:52	
Heptachlor	ND	10	ug/Kg	5.00	03/22/2000 03:52	
Heptachlor epoxide	ND	10	ug/Kg	5.00	03/22/2000 03:52	
4,4'-DDT	ND	50	ug/Kg	5.00	03/22/2000 03:52	
4,4'-DDE	ND	10	ug/Kg	5.00	03/22/2000 03:52	
4,4'-DDD	ND	10	ug/Kg	5.00	03/22/2000 03:52	
Endosulfan I	ND	50	ug/Kg	5.00	03/22/2000 03:52	
Endosulfan II	ND	50	ug/Kg	5.00	03/22/2000 03:52	
alpha-BHC	ND	10	ug/Kg	5.00	03/22/2000 03:52	
beta-BHC	ND	10	ug/Kg	5.00	03/22/2000 03:52	
gamma-BHC (Lindane)	ND	10	ug/Kg	5.00	03/22/2000 03:52	
delta-BHC	ND	10	ug/Kg	5.00	03/22/2000 03:52	
Endosulfan sulfate	ND	50	ug/Kg	5.00	03/22/2000 03:52	
4,4'-Methoxychlor	ND	50	ug/Kg	5.00	03/22/2000 03:52	
Toxaphene	ND	500	ug/Kg	5.00	03/22/2000 03:52	
alpha-Chlordane	ND	250	ug/Kg	5.00	03/22/2000 03:52	
gamma-Chlordane	ND	250	ug/Kg	5.00	03/22/2000 03:52	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	84.7	50-125	%	5.00	03/22/2000 03:52	
Decachlorobiphenyl	63.8	46-142	%	5.00	03/22/2000 03:52	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

To: **Geomatrix Consultants**

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX40C-4.5	Lab Sample ID: 2000-03-0372-005
Project: 6262	Received: 03/21/2000 10:30
Sampled: 03/20/2000 13:31	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/22/2000 04:25	
Dieldrin	ND	2.0	ug/Kg	1.00	03/22/2000 04:25	
Endrin aldehyde	ND	10	ug/Kg	1.00	03/22/2000 04:25	
Endrin	ND	2.0	ug/Kg	1.00	03/22/2000 04:25	
Heptachlor	ND	2.0	ug/Kg	1.00	03/22/2000 04:25	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/22/2000 04:25	
4,4'-DDT	ND	10	ug/Kg	1.00	03/22/2000 04:25	
4,4'-DDE	ND	2.0	ug/Kg	1.00	03/22/2000 04:25	
4,4'-DDD	ND	2.0	ug/Kg	1.00	03/22/2000 04:25	
Endosulfan I	ND	10	ug/Kg	1.00	03/22/2000 04:25	
Endosulfan II	ND	10	ug/Kg	1.00	03/22/2000 04:25	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 04:25	
beta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 04:25	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/22/2000 04:25	
delta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 04:25	
Endosulfan sulfate	ND	10	ug/Kg	1.00	03/22/2000 04:25	
4,4'-Methoxychlor	ND	10	ug/Kg	1.00	03/22/2000 04:25	
Toxaphene	ND	100	ug/Kg	1.00	03/22/2000 04:25	
alpha-Chlordane	ND	50	ug/Kg	1.00	03/22/2000 04:25	
gamma-Chlordane	ND	50	ug/Kg	1.00	03/22/2000 04:25	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	89.1	50-125	%	1.00	03/22/2000 04:25	
Decachlorobiphenyl	88.4	46-142	%	1.00	03/22/2000 04:25	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX40C-3.0	Lab Sample ID: 2000-03-0372-006
Project: 6262	Received: 03/21/2000 10:30
Sampled: 03/20/2000 13:40	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/22/2000 04:58	
Dieldrin	ND	2.0	ug/Kg	1.00	03/22/2000 04:58	
Endrin aldehyde	ND	10	ug/Kg	1.00	03/22/2000 04:58	
Endrin	ND	2.0	ug/Kg	1.00	03/22/2000 04:58	
Heptachlor	ND	2.0	ug/Kg	1.00	03/22/2000 04:58	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/22/2000 04:58	
4,4'-DDT	ND	10	ug/Kg	1.00	03/22/2000 04:58	
4,4'-DDE	ND	2.0	ug/Kg	1.00	03/22/2000 04:58	
4,4'-DDD	ND	2.0	ug/Kg	1.00	03/22/2000 04:58	
Endosulfan I	ND	10	ug/Kg	1.00	03/22/2000 04:58	
Endosulfan II	ND	10	ug/Kg	1.00	03/22/2000 04:58	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 04:58	
beta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 04:58	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/22/2000 04:58	
delta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 04:58	
Endosulfan sulfate	ND	10	ug/Kg	1.00	03/22/2000 04:58	
4,4'-Methoxychlor	ND	10	ug/Kg	1.00	03/22/2000 04:58	
Toxaphene	ND	100	ug/Kg	1.00	03/22/2000 04:58	
alpha-Chlordane	ND	50	ug/Kg	1.00	03/22/2000 04:58	
gamma-Chlordane	ND	50	ug/Kg	1.00	03/22/2000 04:58	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	72.7	50-125	%	1.00	03/22/2000 04:58	
Decachlorobiphenyl	75.0	46-142	%	1.00	03/22/2000 04:58	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Batch QC Report Organochlorine Pesticides Analysis

Method Blank	Soil	QC Batch # 2000/03/21-01.13
MB: 2000/03/21-01.13-001		Date Extracted: 03/21/2000 11:45

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	03/21/2000 15:10	
Dieldrin	ND	2.0	ug/Kg	03/21/2000 15:10	
Endrin aldehyde	ND	10	ug/Kg	03/21/2000 15:10	
Endrin	ND	2.0	ug/Kg	03/21/2000 15:10	
Heptachlor	ND	2.0	ug/Kg	03/21/2000 15:10	
Heptachlor epoxide	ND	2.0	ug/Kg	03/21/2000 15:10	
4,4'-DDT	ND	10	ug/Kg	03/21/2000 15:10	
4,4'-DDE	ND	2.0	ug/Kg	03/21/2000 15:10	
4,4'-DDD	ND	2.0	ug/Kg	03/21/2000 15:10	
Endosulfan I	ND	10	ug/Kg	03/21/2000 15:10	
Endosulfan II	ND	10	ug/Kg	03/21/2000 15:10	
alpha-BHC	ND	2.0	ug/Kg	03/21/2000 15:10	
beta-BHC	ND	2.0	ug/Kg	03/21/2000 15:10	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	03/21/2000 15:10	
delta-BHC	ND	2.0	ug/Kg	03/21/2000 15:10	
Endosulfan sulfate	ND	10	ug/Kg	03/21/2000 15:10	
4,4'-Methoxychlor	ND	10	ug/Kg	03/21/2000 15:10	
Toxaphene	ND	100	ug/Kg	03/21/2000 15:10	
alpha-Chlordane	ND	50	ug/Kg	03/21/2000 15:10	
gamma-Chlordane	ND	50	ug/Kg	03/21/2000 15:10	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	76.2	50-125	%	03/21/2000 15:10	
Decachlorobiphenyl	93.8	46-142	%	03/21/2000 15:10	

1220 Quarry Lane * Pleasanton, CA 94566-4756

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0372

To: Geomatrix Consultants

Test Method: 8081

Attn: Ann Holbrow

Prep Method: 3550/8081

Batch QC Report

Organochlorine Pesticides Analysis

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2000/03/21-01.13	
LCS:	2000/03/21-01.13-002	Extracted:	03/21/2000 11:45	Analyzed	03/21/2000 15:44
LCSD:	2000/03/21-01.13-003	Extracted:	03/21/2000 11:45	Analyzed	03/21/2000 16:17

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery [%]			RPD		Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD	Recovery	RPD	LCS	LCSD		
Aldrin	12.3	14.4	16.7	16.7	73.7	86.2	15.6	37-136	25				
Dieldrin	12.1	14.9	16.7	16.7	72.5	89.2	20.7	58-135	35				
Endrin	11.1	14.9	16.7	16.7	66.5	89.2	29.2	58-134	35				
Heptachlor	11.9	14.2	16.7	16.7	71.3	85.0	17.5	40-136	20				
4,4'-DDT	12.6	15.6	16.7	16.7	75.4	93.4	21.3	55-132	35				
gamma-BHC (Lindane)	12.1	14.9	16.7	16.7	72.5	89.2	20.7	37-137	35				
Surrogate(s)													
2,4,5,6-Tetrachloro-m-xyl	33.2	41.7	50	50	66.4	83.4		50-125					
Decachlorobiphenyl	40.5	47.9	50	50	81.0	95.8		46-142					

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

To: **Geomatrix Consultants**

Attn: Ann Holbrow

Test Method: 8081

Prep Method: 3550/8081

Legend & Notes

Organochlorine Pesticides Analysis

Analysis Flags

Im

Reporting limits raised due to high level of non-target analyte materials.

Chain-of-Custody Record			003794										Date: 3/20/00			Page 1 of 2						
Project No.: 6262			ANALYSES										REMARKS									
Samplers (Signature): <i>Jane M Carola</i>			EPA Method 8021 (Full Scan)	EPA Method 8021 (Hal. VOCs only)	EPA Method 8021 (BETX only)	EPA Method 8260	EPA Method 8270 (Full Scan)	EPA Method 8270 SIM (PAHS only)	Method 8015M (Gasoline)	Method 8015M (Diesel)	Method 8015M (Motor Oil)	Silica Gel Cleanup	PAHs (3270 SIM)	TLC 22 Metals (600/700 Seals)	Residuals / PCBs (4051/5052)	HOLD	Soil (S), Water (W) Vapor (V), or Other (O)	Filtered	Preserved	Cooled	No. of Containers	Additional Comments
Date	Time	Sample Number																				Please Ex results to Ann Hollaway at (510) 663-4141 as seen as available
3/20/00	800	GmX39B-1.0															S			X	1	1 2"x6" ss liner
	1305	GmX39B-4.5															S			X	1	1 1 5/8"x6" ss liner
	1315	GmX39B-8.0															S			X	1	1 1 5/8"x6" ss liner
	1325	GmX40C-1.0										X	X				S			X	1	1 2"x6" ss liner
	1331	GmX40C-4.5										X	X				S			X	1	1 1 5/8"x6" ss liner
	1340	GmX40C-8.0										X	X				S			X	1	1 1 5/8"x6" ss liner
	1355	GmX40B-1.0													X		S			X	1	1 2"x6" ss liner
	1402	GmX40B-4.5													X		S			X	1	1 1 5/8"x6" ss liner
	1409	GmX40B-8.0													X		S			X	1	1 1 5/8"x6" ss liner
	1430	GmX40A-1.0													X		S			X	1	1 2"x6" ss liner
	1434	GmX40A-4.5													X		S			X	1	1 1 5/8"x6" ss liner
	1437	GmX40A-8.0													X		S			X	1	1 1 5/8"x6" ss liner
	1445	GmX39A-1.0													X		S			X	1	1 2"x6" ss liner
	1450	GmX39A-4.5													X		S			X	1	1 1 5/8"x6" ss liner
	1500	GmX39A-8.0													X		S			X	1	1 1 5/8"x6" ss liner
Laboratory: Chromalab			Turnaround Time: 24 hours			Results to: Ann Hollaway			Total No. of Containers: 15													
Relinquished by (Signature): <i>Jane M Carola</i>		Date: 3/20/00	Relinquished by (Signature):		Date:	Relinquished by (Signature):		Date:	Method of Shipment:													
Printed Name: Jim Carola		Time: 1700	Printed Name:		Time:	Printed Name:		Time:	Laboratory Comments and Log No.:													
Company: Geomatrix			Company:			Company:																
Received by:		Date:	Received by:		Date:	Received by:		Date:														
Printed Name:		Time:	Printed Name:		Time:	Printed Name:		Time:														
Company:			Company:			Company:																



2000-03-0372

51097

Chain-of-Custody Record

003800

Date: 03/20/00

Page 2 of 2

Project No.: 6262

ANALYSES

REMARKS

Samplers (Signature): James M Carolan

Date, Time, Sample Number

EPA Method 8021 (Full Scan), EPA Method 8021 (Hal. VOCs only), EPA Method 8021 (BTEX only), EPA Method 8260, EPA Method 8270 (Full Scan), EPA Method 8270 SIM (PAHS only), Method 8015M (Gasoline), Method 8015M (Diesel), Method 8015M (Motor Oil), Silica Gel Cleanup, PAHs (8270 SIM), TPH & 22 Metals (8000/7000 Scans), Pesticides/PCBs (4061/4062), ITO-D

Soil (S), Water (W) Vapor (V), or Other (O), Filtered, Preserved, Cooled, No. of Containers

Additional Comments: Please fax results to Ann Holbrow at (510)663-4141 as soon as available

3/20/00 1510 GmX37A-1.0, 3/20/00 1515 GmX37A-4.5, 3/20/00 1540 GmX37A-9.5

Analysis results grid with 'X' marks in PAHs, TPH & 22 Metals, and ITO-D columns.

Soil (S), Water (W) Vapor (V), or Other (O) results: S, S, S

1 2" x 6" ss liner, 1 1 1/8" x 6" ss liner, 1 1 5/8" x 6" ss liner

James M Carolan 3/20/00

RUSH

Laboratory: Chromalab

Turnaround Time: 24 hours

Results to: Ann Holbrow

Total No. of Containers: 3

Relinquished by (Signature): James M Carolan, Printed Name: Jim Carolan, Company: Geomatrix

Date: 3/20/00, Relinquished by (Signature):, Printed Name:, Company:

Date:, Relinquished by (Signature):, Printed Name:, Company:

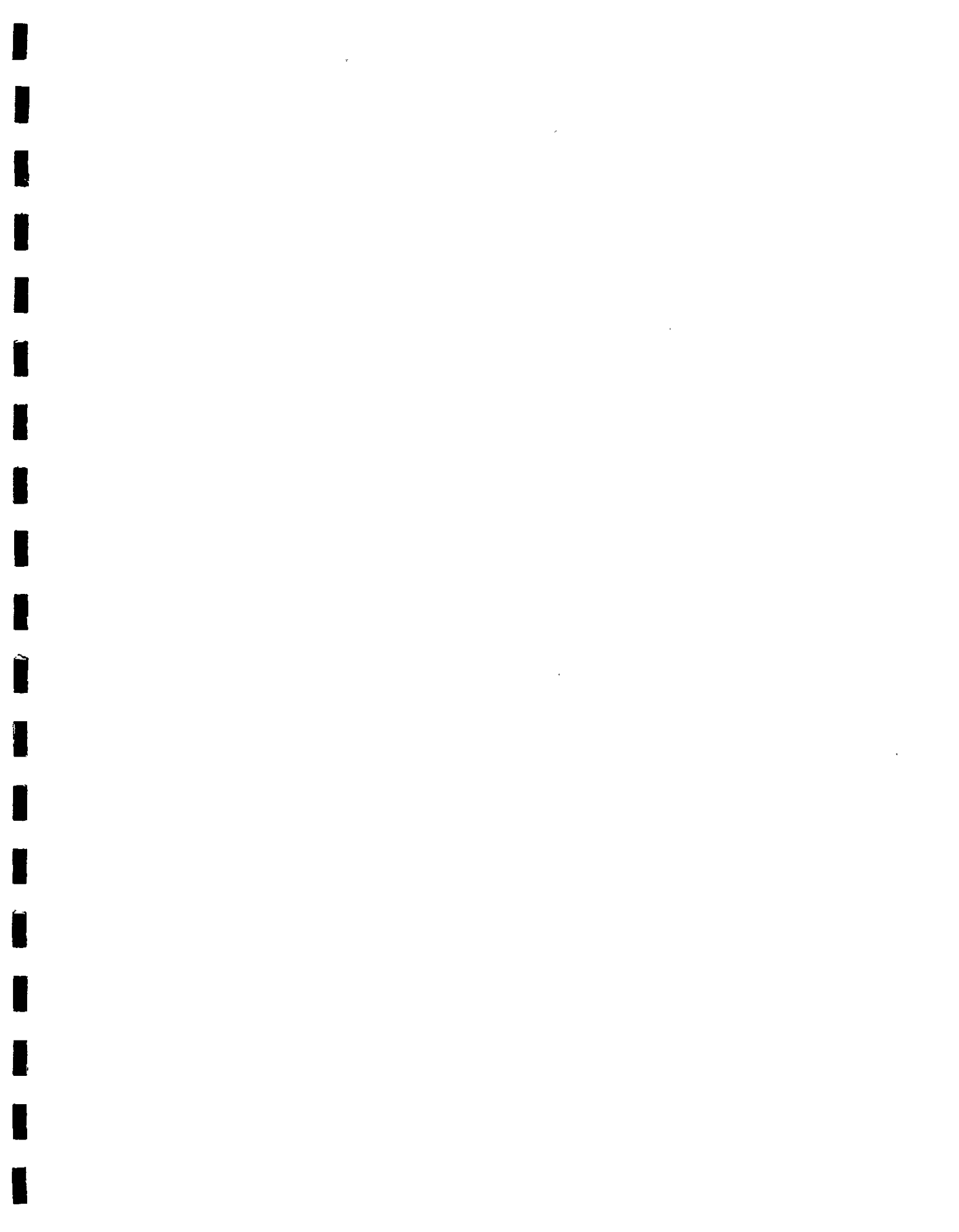
Date:, Method of Shipment: Lab courier, Laboratory Comments and Log No.:

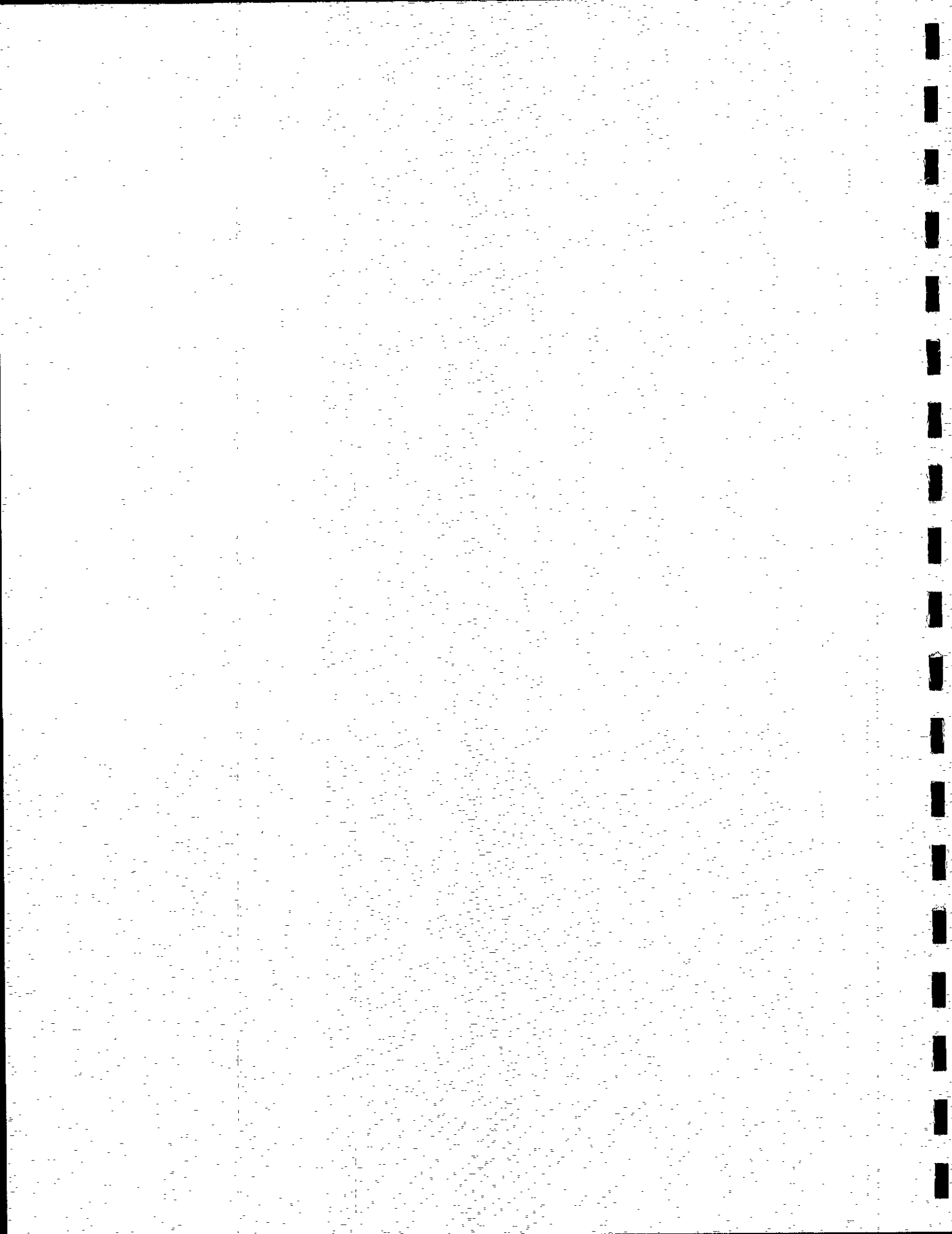
Received by:, Printed Name:, Company:

Date:, Received by:, Printed Name:, Company:

Date: 03/20, Received by: [Signature], Printed Name: CRISTINA, Company: [Signature]

Date: 03/21, Time: 09:20, Geomatrix Consultants, 2101 Webster Street, 12th Floor • Oakland, CA 94612, Phone: 510-663-4100 • Fax: 510-663-4141





CHROMALAB, INC.

Environmental Services (SDB)

Project Manager: Afsaneh Salimpour

Invoice#: 2000-03-0373

Invoice Date: March 29, 2000

INVOICE

Samples Received From		Report Results To			
Geomatrix Consultants Contact: Ann Holbrow 2101 Webster Street, 12th Floor Oakland, CA 94612		Geomatrix Consultants Contact: Ann Holbrow 2101 Webster Street, 12th Floor Oakland, CA 94612			
Bill To		GEOMATRIX			
Geomatrix Consultants Attn: Attn: Accts. Payable 2101 Webster Street, 12th Floor Oakland, CA 94612		Received:	March 21, 2000 10:49 AM		
Project: 6262					
Qty	Matrix	Analysis	TAT	Unit Price	Total
9	Soil	CAM 17 metals	1 Day	\$150.00	\$1,350.00
9	Soil	Organochlorine Pesticides /PCBs	1 Day	\$150.00	\$1,350.00
1		24 hr rush services		\$2,700.00	\$2,700.00
					\$5,400.00

Terms and conditions:

Net30

Please Send Payment to: ChromaLab, Inc.
1220 Quarry Lane
Pleasanton, CA 94566-4756
Phone: (925) 484-1919 Fax: (925) 484-1096

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096
Federal ID# 68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

Date: March 23, 2000

Geomatrix Consultants

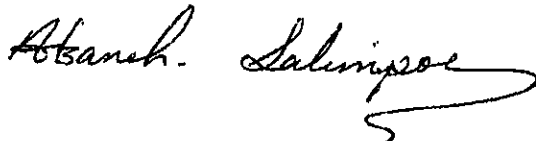
2101 Webster Street, 12th Floor
Oakland, CA 94612

Attn.: Ann Holbrow

Attached is our report for your samples received on Tuesday March 21, 2000
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after April 20, 2000
unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: asalimpour@chromalab.com

Sincerely,



Afsaneh Salimpour

PCBs - EPA8082

Geomatrix Consultants

✉ 2101 Webster Street, 12th Floor
Oakland, CA 94612

Attn: Ann Holbrow

Phone: (510) 663-4100 Fax: (510) 663-4141

Project #: 6262

Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
GMX33B-1.0	Soil	03/20/2000 08:56	4
GMX33B-4.0	Soil	03/20/2000 08:59	5
GMX33B-7.0	Soil	03/20/2000 09:03	6
GMX34B-1.0	Soil	03/20/2000 09:45	7
GMX34B-4.0	Soil	03/20/2000 09:52	8
GMX34B-7.0	Soil	03/20/2000 09:56	9
GMX35C-1.0	Soil	03/20/2000 09:56	13
GMX35C-4.0	Soil	03/20/2000 09:56	14
GMX35C-7.0	Soil	03/20/2000 09:56	15

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: **Geomatrix Consultants**

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX33B-1.0	Lab Sample ID: 2000-03-0373-004
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 08:56	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/22/2000 10:36	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/22/2000 10:36	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/22/2000 10:36	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/22/2000 10:36	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/22/2000 10:36	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/22/2000 10:36	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/22/2000 10:36	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	65.6	50-125	%	1.00	03/22/2000 10:36	
Decachlorobiphenyl	20.2	46-142	%	1.00	03/22/2000 10:36	s

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: **Geomatrix Consultants**

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX33B-4.0	Lab Sample ID: 2000-03-0373-005
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 08:59	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/21/2000 21:19	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/21/2000 21:19	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/21/2000 21:19	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/21/2000 21:19	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/21/2000 21:19	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/21/2000 21:19	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/21/2000 21:19	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	69.2	50-125	%	1.00	03/21/2000 21:19	
Decachlorobiphenyl	79.0	46-142	%	1.00	03/21/2000 21:19	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: **Geomatrix Consultants**

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX33B-7.0	Lab Sample ID: 2000-03-0373-006
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:03	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/21/2000 20:45	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/21/2000 20:45	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/21/2000 20:45	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/21/2000 20:45	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/21/2000 20:45	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/21/2000 20:45	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/21/2000 20:45	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	66.6	50-125	%	1.00	03/21/2000 20:45	
Decachlorobiphenyl	80.7	46-142	%	1.00	03/21/2000 20:45	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX34B-1.0	Lab Sample ID: 2000-03-0373-007
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:45	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/22/2000 11:06	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/22/2000 11:06	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/22/2000 11:06	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/22/2000 11:06	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/22/2000 11:06	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/22/2000 11:06	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/22/2000 11:06	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	50.1	50-125	%	1.00	03/22/2000 11:06	
Decachlorobiphenyl	63.1	46-142	%	1.00	03/22/2000 11:06	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: **Geomatrix Consultants**

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX34B-4.0	Lab Sample ID: 2000-03-0373-008
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:52	Extracted: 03/21/2000 11:58
Matrix: Soil	QC-Batch: 2000/03/21-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/22/2000 01:21	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/22/2000 01:21	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/22/2000 01:21	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/22/2000 01:21	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/22/2000 01:21	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/22/2000 01:21	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/22/2000 01:21	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	78.2	50-125	%	1.00	03/22/2000 01:21	
Decachlorobiphenyl	80.5	46-142	%	1.00	03/22/2000 01:21	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX34B-7.0	Lab Sample ID: 2000-03-0373-009
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:56	Extracted: 03/21/2000 12:03
Matrix: Soil	QC-Batch: 2000/03/21-03.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/21/2000 21:54	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/21/2000 21:54	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/21/2000 21:54	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/21/2000 21:54	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/21/2000 21:54	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/21/2000 21:54	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/21/2000 21:54	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	76.1	50-125	%	1.00	03/21/2000 21:54	
Decachlorobiphenyl	81.7	46-142	%	1.00	03/21/2000 21:54	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: **Geomatrix Consultants**

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX35C-1.0	Lab Sample ID: 2000-03-0373-013
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:56	Extracted: 03/21/2000 12:03
Matrix: Soil	QC-Batch: 2000/03/21-03.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/22/2000 11:38	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/22/2000 11:38	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/22/2000 11:38	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/22/2000 11:38	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/22/2000 11:38	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/22/2000 11:38	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/22/2000 11:38	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	51.2	50-125	%	1.00	03/22/2000 11:38	
Decachlorobiphenyl	65.2	46-142	%	1.00	03/22/2000 11:38	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX35C-4.0	Lab Sample ID: 2000-03-0373-014
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:56	Extracted: 03/21/2000 12:03
Matrix: Soil	QC-Batch: 2000/03/21-03.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/22/2000 03:05	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/22/2000 03:05	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/22/2000 03:05	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/22/2000 03:05	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/22/2000 03:05	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/22/2000 03:05	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/22/2000 03:05	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	71.8	50-125	%	1.00	03/22/2000 03:05	
Decachlorobiphenyl	70.8	46-142	%	1.00	03/22/2000 03:05	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: **Geomatrix Consultants**

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

PCBs - EPA8082

Sample ID: GMX35C-7.0	Lab Sample ID: 2000-03-0373-015
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:56	Extracted: 03/21/2000 12:03
Matrix: Soil	QC-Batch: 2000/03/21-03.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/21/2000 22:28	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/21/2000 22:28	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/21/2000 22:28	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/21/2000 22:28	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/21/2000 22:28	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/21/2000 22:28	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/21/2000 22:28	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	65.2	50-125	%	1.00	03/21/2000 22:28	
Decachlorobiphenyl	62.3	46-142	%	1.00	03/21/2000 22:28	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: **Geomatrix Consultants**

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

Batch QC Report

PCBs - EPA8082

Method Blank	Soil	QC Batch # 2000/03/21-02.14
MB: 2000/03/21-02.14-001		Date Extracted: 03/21/2000 11:58

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Aroclor 1016	ND	0.05	mg/Kg	03/21/2000 16:54	
Aroclor 1221	ND	0.05	mg/Kg	03/21/2000 16:54	
Aroclor 1232	ND	0.05	mg/Kg	03/21/2000 16:54	
Aroclor 1242	ND	0.05	mg/Kg	03/21/2000 16:54	
Aroclor 1248	ND	0.05	mg/Kg	03/21/2000 16:54	
Aroclor 1254	ND	0.05	mg/Kg	03/21/2000 16:54	
Aroclor 1260	ND	0.05	mg/Kg	03/21/2000 16:54	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	62.4	50-125	%	03/21/2000 16:54	
Decachlorobiphenyl	73.0	46-142	%	03/21/2000 16:54	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: **Geomatrix Consultants**
Attn.: Ann Holbrow

Test Method: 8082
Prep Method: 3550/8082

Batch QC Report PCBs - EPA8082

Method Blank	Soil	QC Batch # 2000/03/21-03.14
MB: 2000/03/21-03.14-001		Date Extracted: 03/21/2000 12:03

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Aroclor 1016	ND	0.05	mg/Kg	03/21/2000 23:03	
Aroclor 1221	ND	0.05	mg/Kg	03/21/2000 23:03	
Aroclor 1232	ND	0.05	mg/Kg	03/21/2000 23:03	
Aroclor 1242	ND	0.05	mg/Kg	03/21/2000 23:03	
Aroclor 1248	ND	0.05	mg/Kg	03/21/2000 23:03	
Aroclor 1254	ND	0.05	mg/Kg	03/21/2000 23:03	
Aroclor 1260	ND	0.05	mg/Kg	03/21/2000 23:03	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	68.8	50-125	%	03/21/2000 23:03	
Decachlorobiphenyl	71.0	46-142	%	03/21/2000 23:03	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 8082

Attn: Ann Holbrow

Prep Method: 3550/8082

Batch QC Report

PCBs - EPA8082

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2000/03/21-03.14	
LCS:	2000/03/21-03.14-002	Extracted:	03/21/2000 12:03	Analyzed	03/21/2000 23:37
LCSD:	2000/03/21-03.14-003	Extracted:	03/21/2000 12:03	Analyzed	03/22/2000 00:12

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Aroclor 1016	0.0509	0.0522	0.0667	0.0667	76.3	78.3	2.6	65-135	30		
Aroclor 1260	0.0546	0.0555	0.0667	0.0667	81.9	83.2	1.6	65-135	30		
Surrogate(s)											
2,4,5,6-Tetrachloro-m-xyI	33.9	34.7	50	50	67.8	69.4		50-125			
Decachlorobiphenyl	36.9	39.7	50	50	73.8	79.4		46-142			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 8082

Attn: Ann Holbrow

Prep Method: 3550/8082

Batch QC Report

PCBs - EPA8082

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2000/03/21-02.14	
LCS:	2000/03/21-02.14-002	Extracted:	03/21/2000 11:58	Analyzed	03/22/2000 05:57
LCSD:	2000/03/21-02.14-003	Extracted:	03/21/2000 11:58	Analyzed	03/22/2000 06:31

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Aroclor 1016	0.0530	0.0518	0.0667	0.0667	79.5	77.7	2.3	65-135	30		
Aroclor 1260	0.0527	0.0550	0.0667	0.0667	79.0	82.5	4.3	65-135	30		
Surrogate(s)											
2,4,5,6-Tetrachloro-m-xyI	32.1	30.5	50	50	64.2	61.0		50-125			
Decachlorobiphenyl	36.1	38.6	50	50	72.2	77.2		46-142			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

Batch QC Report

PCBs - EPA8082

Matrix Spike (MS / MSD)	Soil	QC Batch # 2000/03/21-02.14
Sample ID: GMX36C-4.5		Lab Sample ID: 2000-03-0371-020
MS: 2000/03/21-02.14-004	Extracted: 03/21/2000 11:58	Analyzed: 03/22/2000 03:39 Dilution: 1.0
MSD: 2000/03/21-02.14-005	Extracted: 03/21/2000 11:58	Analyzed: 03/22/2000 04:14 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp.Conc. [mg/Kg]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Aroclor 1016	0.0514	0.0539	ND	0.0665	0.0661	77.3	81.5	5.3	65-135	30		
Aroclor 1260	0.0553	0.0584	ND	0.0665	0.0661	83.2	88.4	6.1	65-135	30		
Surrogate(s)												
2,4,5,6-Tetrachloro-m-xy	35.9	36.8		50	50	71.8	73.6		50-125			
Decachlorobiphenyl	38.2	41.4		50	50	76.4	82.8		46-142			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Attn.: Ann Holbrow

Test Method: 8082

Prep Method: 3550/8082

Batch QC Report

PCBs - EPA8082

Matrix Spike (MS / MSD)

Soil

QC Batch # 2000/03/21-02.14

Sample ID: GMX33B-7.0

Lab Sample ID: 2000-03-0373-006

MS: 2000/03/21-02.14-006 Extracted: 03/21/2000 11:58 Analyzed: 03/22/2000 04:48 Dilution: 1.0

MSD: 2000/03/21-02.14-007 Extracted: 03/21/2000 11:58 Analyzed: 03/22/2000 05:23 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp. Conc. [mg/Kg]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Aroclor 1016	0.0485	0.0561	ND	0.0659	0.0658	73.6	85.3	14.7	65-135	30		
Aroclor 1260	0.0523	0.0592	ND	0.0659	0.0658	79.4	90.0	12.5	65-135	30		
Surrogate(s)												
2,4,5,6-Tetrachloro-m-xy	31.9	37.6		50	50	63.8	75.2		50-125			
Decachlorobiphenyl	33.4	36.8		50	50	66.8	73.6		46-142			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 8082

Attn.: Ann Holbrow

Prep Method: 3550/8082

Batch QC Report

PCBs - EPA8082

Matrix Spike (MS / MSD)	Soil	QC Batch # 2000/03/21-03.14
Sample ID: GMX33B-1.0		Lab Sample ID: 2000-03-0373-004
MS: 2000/03/21-03.14-004	Extracted: 03/21/2000 12:03	Analyzed: 03/22/2000 11:54 Dilution: 1.0
MSD: 2000/03/21-03.14-005	Extracted: 03/21/2000 12:03	Analyzed: 03/22/2000 12:29 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp. Conc. [mg/Kg]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Aroclor 1016	0.0232	0.0204	ND	0.0659	0.0664	35.2	30.7	13.7	65-135	30	mso	mso
Aroclor 1260	0.0189	0.0173	ND	0.0659	0.0664	28.7	26.1	9.5	65-135	30	mso	mso
Surrogate(s)												
2,4,5,6-Tetrachloro-m-xy	19.2	16.1		50	50	38.4	32.2		50-125		sl	sl
Decachlorobiphenyl	15.0	13.4		50	50	30.0	26.8		46-142		sl	sl

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To: Geomatrix Consultants

Attn: Ann Holbrow

Test Method: 8082

Prep Method: 3550/8082

Legend & Notes

PCBs - EPA8082

QC Compound Flags

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

sl

Surrogate recoveries were lower than QC limit due to matrix interference, confirmed by reanalysis.

Analyte Flags

s

One surrogate recovery out of control, but second surrogate within QC limits confirms test performance.

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

Organochlorine Pesticides Analysis

Geomatrix Consultants

✉ 2101 Webster Street, 12th Floor
Oakland, CA 94612

Attn: Ann Holbrow

Phone: (510) 663-4100 Fax: (510) 663-4141

Project #: 6262

Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
GMX33B-1.0	Soil	03/20/2000 08:56	4
GMX33B-4.0	Soil	03/20/2000 08:59	5
GMX33B-7.0	Soil	03/20/2000 09:03	6
GMX34B-1.0	Soil	03/20/2000 09:45	7
GMX34B-4.0	Soil	03/20/2000 09:52	8
GMX34B-7.0	Soil	03/20/2000 09:56	9
GMX35C-1.0	Soil	03/20/2000 09:56	13
GMX35C-4.0	Soil	03/20/2000 09:56	14
GMX35C-7.0	Soil	03/20/2000 09:56	15

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: **Geomatrix Consultants**

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX33B-1.0	Lab Sample ID: 2000-03-0373-004
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 08:56	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13
Sample/Analysis Flag Im (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	10	ug/Kg	5.00	03/22/2000 05:31	
Dieldrin	ND	10	ug/Kg	5.00	03/22/2000 05:31	
Endrin aldehyde	ND	50	ug/Kg	5.00	03/22/2000 05:31	
Endrin	ND	10	ug/Kg	5.00	03/22/2000 05:31	
Heptachlor	ND	10	ug/Kg	5.00	03/22/2000 05:31	
Heptachlor epoxide	ND	10	ug/Kg	5.00	03/22/2000 05:31	
4,4'-DDT	ND	50	ug/Kg	5.00	03/22/2000 05:31	
4,4'-DDE	ND	10	ug/Kg	5.00	03/22/2000 05:31	
4,4'-DDD	ND	10	ug/Kg	5.00	03/22/2000 05:31	
Endosulfan I	ND	50	ug/Kg	5.00	03/22/2000 05:31	
Endosulfan II	ND	50	ug/Kg	5.00	03/22/2000 05:31	
alpha-BHC	ND	10	ug/Kg	5.00	03/22/2000 05:31	
beta-BHC	ND	10	ug/Kg	5.00	03/22/2000 05:31	
gamma-BHC (Lindane)	ND	10	ug/Kg	5.00	03/22/2000 05:31	
delta-BHC	ND	10	ug/Kg	5.00	03/22/2000 05:31	
Endosulfan sulfate	ND	50	ug/Kg	5.00	03/22/2000 05:31	
4,4'-Methoxychlor	ND	50	ug/Kg	5.00	03/22/2000 05:31	
Toxaphene	ND	500	ug/Kg	5.00	03/22/2000 05:31	
alpha-Chlordane	ND	250	ug/Kg	5.00	03/22/2000 05:31	
gamma-Chlordane	ND	250	ug/Kg	5.00	03/22/2000 05:31	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	94.9	50-125	%	5.00	03/22/2000 05:31	
Decachlorobiphenyl	89.8	46-142	%	5.00	03/22/2000 05:31	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX33B-4.0	Lab Sample ID: 2000-03-0373-005
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 08:59	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/22/2000 06:04	
Dieldrin	ND	2.0	ug/Kg	1.00	03/22/2000 06:04	
Endrin aldehyde	ND	10	ug/Kg	1.00	03/22/2000 06:04	
Endrin	ND	2.0	ug/Kg	1.00	03/22/2000 06:04	
Heptachlor	ND	2.0	ug/Kg	1.00	03/22/2000 06:04	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/22/2000 06:04	
4,4'-DDT	ND	10	ug/Kg	1.00	03/22/2000 06:04	
4,4'-DDE	ND	2.0	ug/Kg	1.00	03/22/2000 06:04	
4,4'-DDD	ND	2.0	ug/Kg	1.00	03/22/2000 06:04	
Endosulfan I	ND	10	ug/Kg	1.00	03/22/2000 06:04	
Endosulfan II	ND	10	ug/Kg	1.00	03/22/2000 06:04	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 06:04	
beta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 06:04	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/22/2000 06:04	
delta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 06:04	
Endosulfan sulfate	ND	10	ug/Kg	1.00	03/22/2000 06:04	
4,4'-Methoxychlor	ND	10	ug/Kg	1.00	03/22/2000 06:04	
Toxaphene	ND	100	ug/Kg	1.00	03/22/2000 06:04	
alpha-Chlordane	ND	50	ug/Kg	1.00	03/22/2000 06:04	
gamma-Chlordane	ND	50	ug/Kg	1.00	03/22/2000 06:04	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	81.7	50-125	%	1.00	03/22/2000 06:04	
Decachlorobiphenyl	82.1	46-142	%	1.00	03/22/2000 06:04	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX33B-7.0	Lab Sample ID: 2000-03-0373-006
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:03	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/22/2000 06:37	
Dieldrin	ND	2.0	ug/Kg	1.00	03/22/2000 06:37	
Endrin aldehyde	ND	10	ug/Kg	1.00	03/22/2000 06:37	
Endrin	ND	2.0	ug/Kg	1.00	03/22/2000 06:37	
Heptachlor	ND	2.0	ug/Kg	1.00	03/22/2000 06:37	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/22/2000 06:37	
4,4'-DDT	ND	10	ug/Kg	1.00	03/22/2000 06:37	
4,4'-DDE	ND	2.0	ug/Kg	1.00	03/22/2000 06:37	
4,4'-DDD	ND	2.0	ug/Kg	1.00	03/22/2000 06:37	
Endosulfan I	ND	10	ug/Kg	1.00	03/22/2000 06:37	
Endosulfan II	ND	10	ug/Kg	1.00	03/22/2000 06:37	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 06:37	
beta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 06:37	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/22/2000 06:37	
delta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 06:37	
Endosulfan sulfate	ND	10	ug/Kg	1.00	03/22/2000 06:37	
4,4'-Methoxychlor	ND	10	ug/Kg	1.00	03/22/2000 06:37	
Toxaphene	ND	100	ug/Kg	1.00	03/22/2000 06:37	
alpha-Chlordane	ND	50	ug/Kg	1.00	03/22/2000 06:37	
gamma-Chlordane	ND	50	ug/Kg	1.00	03/22/2000 06:37	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	77.2	50-125	%	1.00	03/22/2000 06:37	
Decachlorobiphenyl	94.9	46-142	%	1.00	03/22/2000 06:37	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX34B-1.0	Lab Sample ID: 2000-03-0373-007
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:45	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13
Sample/Analysis Flag Irm (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	10	ug/Kg	5.00	03/22/2000 09:22	
Dieldrin	16	10	ug/Kg	5.00	03/22/2000 09:22	
Endrin aldehyde	ND	50	ug/Kg	5.00	03/22/2000 09:22	
Endrin	ND	10	ug/Kg	5.00	03/22/2000 09:22	
Heptachlor	ND	10	ug/Kg	5.00	03/22/2000 09:22	
Heptachlor epoxide	ND	10	ug/Kg	5.00	03/22/2000 09:22	
4,4'-DDT	ND	50	ug/Kg	5.00	03/22/2000 09:22	
4,4'-DDE	ND	10	ug/Kg	5.00	03/22/2000 09:22	
4,4'-DDD	ND	10	ug/Kg	5.00	03/22/2000 09:22	
Endosulfan I	ND	50	ug/Kg	5.00	03/22/2000 09:22	
Endosulfan II	ND	50	ug/Kg	5.00	03/22/2000 09:22	
alpha-BHC	ND	10	ug/Kg	5.00	03/22/2000 09:22	
beta-BHC	ND	10	ug/Kg	5.00	03/22/2000 09:22	
gamma-BHC (Lindane)	ND	10	ug/Kg	5.00	03/22/2000 09:22	
delta-BHC	ND	10	ug/Kg	5.00	03/22/2000 09:22	
Endosulfan sulfate	ND	50	ug/Kg	5.00	03/22/2000 09:22	
4,4'-Methoxychlor	ND	50	ug/Kg	5.00	03/22/2000 09:22	
Toxaphene	ND	500	ug/Kg	5.00	03/22/2000 09:22	
alpha-Chlordane	ND	250	ug/Kg	5.00	03/22/2000 09:22	
gamma-Chlordane	ND	250	ug/Kg	5.00	03/22/2000 09:22	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	63.5	50-125	%	5.00	03/22/2000 09:22	
Decachlorobiphenyl	52.8	46-142	%	5.00	03/22/2000 09:22	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX34B-4.0	Lab Sample ID: 2000-03-0373-008
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:52	Extracted: 03/21/2000 11:45
Matrix: Soil	QC-Batch: 2000/03/21-01.13

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/22/2000 09:55	
Dieldrin	ND	2.0	ug/Kg	1.00	03/22/2000 09:55	
Endrin aldehyde	ND	10	ug/Kg	1.00	03/22/2000 09:55	
Endrin	ND	2.0	ug/Kg	1.00	03/22/2000 09:55	
Heptachlor	ND	2.0	ug/Kg	1.00	03/22/2000 09:55	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/22/2000 09:55	
4,4'-DDT	ND	10	ug/Kg	1.00	03/22/2000 09:55	
4,4'-DDE	ND	2.0	ug/Kg	1.00	03/22/2000 09:55	
4,4'-DDD	ND	2.0	ug/Kg	1.00	03/22/2000 09:55	
Endosulfan I	ND	10	ug/Kg	1.00	03/22/2000 09:55	
Endosulfan II	ND	10	ug/Kg	1.00	03/22/2000 09:55	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 09:55	
beta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 09:55	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/22/2000 09:55	
delta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 09:55	
Endosulfan sulfate	ND	10	ug/Kg	1.00	03/22/2000 09:55	
4,4'-Methoxychlor	ND	10	ug/Kg	1.00	03/22/2000 09:55	
Toxaphene	ND	100	ug/Kg	1.00	03/22/2000 09:55	
alpha-Chlordane	ND	50	ug/Kg	1.00	03/22/2000 09:55	
gamma-Chlordane	ND	50	ug/Kg	1.00	03/22/2000 09:55	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	90.9	50-125	%	1.00	03/22/2000 09:55	
Decachlorobiphenyl	86.7	46-142	%	1.00	03/22/2000 09:55	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX34B-7.0	Lab Sample ID: 2000-03-0373-009
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:56	Extracted: 03/21/2000 11:52
Matrix: Soil	QC-Batch: 2000/03/21-02.13

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/22/2000 12:40	
Dieldrin	ND	2.0	ug/Kg	1.00	03/22/2000 12:40	
Endrin aldehyde	ND	10	ug/Kg	1.00	03/22/2000 12:40	
Endrin	ND	2.0	ug/Kg	1.00	03/22/2000 12:40	
Heptachlor	ND	2.0	ug/Kg	1.00	03/22/2000 12:40	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/22/2000 12:40	
4,4'-DDT	ND	10	ug/Kg	1.00	03/22/2000 12:40	
4,4'-DDE	ND	2.0	ug/Kg	1.00	03/22/2000 12:40	
4,4'-DDD	ND	2.0	ug/Kg	1.00	03/22/2000 12:40	
Endosulfan I	ND	10	ug/Kg	1.00	03/22/2000 12:40	
Endosulfan II	ND	10	ug/Kg	1.00	03/22/2000 12:40	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 12:40	
beta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 12:40	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/22/2000 12:40	
delta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 12:40	
Endosulfan sulfate	ND	10	ug/Kg	1.00	03/22/2000 12:40	
4,4'-Methoxychlor	ND	10	ug/Kg	1.00	03/22/2000 12:40	
Toxaphene	ND	100	ug/Kg	1.00	03/22/2000 12:40	
alpha-Chlordane	ND	50	ug/Kg	1.00	03/22/2000 12:40	
gamma-Chlordane	ND	50	ug/Kg	1.00	03/22/2000 12:40	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	91.9	50-125	%	1.00	03/22/2000 12:40	
Decachlorobiphenyl	93.3	46-142	%	1.00	03/22/2000 12:40	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX35C-1.0	Lab Sample ID: 2000-03-0373-013
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:56	Extracted: 03/21/2000 11:52
Matrix: Soil	QC-Batch: 2000/03/21-02.13
Sample/Analysis Flag In (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	10	ug/Kg	5.00	03/22/2000 13:13	
Dieldrin	ND	10	ug/Kg	5.00	03/22/2000 13:13	
Endrin aldehyde	ND	50	ug/Kg	5.00	03/22/2000 13:13	
Endrin	ND	10	ug/Kg	5.00	03/22/2000 13:13	
Heptachlor	ND	10	ug/Kg	5.00	03/22/2000 13:13	
Heptachlor epoxide	ND	10	ug/Kg	5.00	03/22/2000 13:13	
4,4'-DDT	ND	50	ug/Kg	5.00	03/22/2000 13:13	
4,4'-DDE	ND	10	ug/Kg	5.00	03/22/2000 13:13	
4,4'-DDD	ND	10	ug/Kg	5.00	03/22/2000 13:13	
Endosulfan I	ND	50	ug/Kg	5.00	03/22/2000 13:13	
Endosulfan II	ND	50	ug/Kg	5.00	03/22/2000 13:13	
alpha-BHC	ND	10	ug/Kg	5.00	03/22/2000 13:13	
beta-BHC	ND	10	ug/Kg	5.00	03/22/2000 13:13	
gamma-BHC (Lindane)	ND	10	ug/Kg	5.00	03/22/2000 13:13	
delta-BHC	ND	10	ug/Kg	5.00	03/22/2000 13:13	
Endosulfan sulfate	ND	50	ug/Kg	5.00	03/22/2000 13:13	
4,4'-Methoxychlor	ND	50	ug/Kg	5.00	03/22/2000 13:13	
Toxaphene	ND	500	ug/Kg	5.00	03/22/2000 13:13	
alpha-Chlordane	ND	250	ug/Kg	5.00	03/22/2000 13:13	
gamma-Chlordane	ND	250	ug/Kg	5.00	03/22/2000 13:13	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	64.9	50-125	%	5.00	03/22/2000 13:13	
Decachlorobiphenyl	79.5	46-142	%	5.00	03/22/2000 13:13	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: **Geomatrix Consultants**

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX35C-4.0	Lab Sample ID: 2000-03-0373-014
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:56	Extracted: 03/21/2000 11:52
Matrix: Soil	QC-Batch: 2000/03/21-02.13

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/22/2000 13:46	
Dieldrin	ND	2.0	ug/Kg	1.00	03/22/2000 13:46	
Endrin aldehyde	ND	10	ug/Kg	1.00	03/22/2000 13:46	
Endrin	ND	2.0	ug/Kg	1.00	03/22/2000 13:46	
Heptachlor	ND	2.0	ug/Kg	1.00	03/22/2000 13:46	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/22/2000 13:46	
4,4'-DDT	ND	10	ug/Kg	1.00	03/22/2000 13:46	
4,4'-DDE	ND	2.0	ug/Kg	1.00	03/22/2000 13:46	
4,4'-DDD	ND	2.0	ug/Kg	1.00	03/22/2000 13:46	
Endosulfan I	ND	10	ug/Kg	1.00	03/22/2000 13:46	
Endosulfan II	ND	10	ug/Kg	1.00	03/22/2000 13:46	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 13:46	
beta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 13:46	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/22/2000 13:46	
delta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 13:46	
Endosulfan sulfate	ND	10	ug/Kg	1.00	03/22/2000 13:46	
4,4'-Methoxychlor	ND	10	ug/Kg	1.00	03/22/2000 13:46	
Toxaphene	ND	100	ug/Kg	1.00	03/22/2000 13:46	
alpha-Chlordane	ND	50	ug/Kg	1.00	03/22/2000 13:46	
gamma-Chlordane	ND	50	ug/Kg	1.00	03/22/2000 13:46	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	81.9	50-125	%	1.00	03/22/2000 13:46	
Decachlorobiphenyl	86.5	46-142	%	1.00	03/22/2000 13:46	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: **Geomatrix Consultants**
Attn.: Ann Holbrow

Test Method: 8081
Prep Method: 3550/8081

Organochlorine Pesticides Analysis

Sample ID: GMX35C-7.0	Lab Sample ID: 2000-03-0373-015
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:56	Extracted: 03/21/2000 11:52
Matrix: Soil	QC-Batch: 2000/03/21-02.13

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/22/2000 14:19	
Dieldrin	ND	2.0	ug/Kg	1.00	03/22/2000 14:19	
Endrin aldehyde	ND	10	ug/Kg	1.00	03/22/2000 14:19	
Endrin	ND	2.0	ug/Kg	1.00	03/22/2000 14:19	
Heptachlor	ND	2.0	ug/Kg	1.00	03/22/2000 14:19	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/22/2000 14:19	
4,4'-DDT	ND	10	ug/Kg	1.00	03/22/2000 14:19	
4,4'-DDE	ND	2.0	ug/Kg	1.00	03/22/2000 14:19	
4,4'-DDD	ND	2.0	ug/Kg	1.00	03/22/2000 14:19	
Endosulfan I	ND	10	ug/Kg	1.00	03/22/2000 14:19	
Endosulfan II	ND	10	ug/Kg	1.00	03/22/2000 14:19	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 14:19	
beta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 14:19	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/22/2000 14:19	
delta-BHC	ND	2.0	ug/Kg	1.00	03/22/2000 14:19	
Endosulfan sulfate	ND	10	ug/Kg	1.00	03/22/2000 14:19	
4,4'-Methoxychlor	ND	10	ug/Kg	1.00	03/22/2000 14:19	
Toxaphene	ND	100	ug/Kg	1.00	03/22/2000 14:19	
alpha-Chlordane	ND	50	ug/Kg	1.00	03/22/2000 14:19	
gamma-Chlordane	ND	50	ug/Kg	1.00	03/22/2000 14:19	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	73.7	50-125	%	1.00	03/22/2000 14:19	
Decachlorobiphenyl	87.7	46-142	%	1.00	03/22/2000 14:19	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Batch QC Report Organochlorine Pesticides Analysis

Method Blank	Soil	QC Batch # 2000/03/21-01.13
MB: 2000/03/21-01.13-001		Date Extracted: 03/21/2000 11:45

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	03/21/2000 15:10	
Dieldrin	ND	2.0	ug/Kg	03/21/2000 15:10	
Endrin aldehyde	ND	10	ug/Kg	03/21/2000 15:10	
Endrin	ND	2.0	ug/Kg	03/21/2000 15:10	
Heptachlor	ND	2.0	ug/Kg	03/21/2000 15:10	
Heptachlor epoxide	ND	2.0	ug/Kg	03/21/2000 15:10	
4,4'-DDT	ND	10	ug/Kg	03/21/2000 15:10	
4,4'-DDE	ND	2.0	ug/Kg	03/21/2000 15:10	
4,4'-DDD	ND	2.0	ug/Kg	03/21/2000 15:10	
Endosulfan I	ND	10	ug/Kg	03/21/2000 15:10	
Endosulfan II	ND	10	ug/Kg	03/21/2000 15:10	
alpha-BHC	ND	2.0	ug/Kg	03/21/2000 15:10	
beta-BHC	ND	2.0	ug/Kg	03/21/2000 15:10	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	03/21/2000 15:10	
delta-BHC	ND	2.0	ug/Kg	03/21/2000 15:10	
Endosulfan sulfate	ND	10	ug/Kg	03/21/2000 15:10	
4,4'-Methoxychlor	ND	10	ug/Kg	03/21/2000 15:10	
Toxaphene	ND	100	ug/Kg	03/21/2000 15:10	
alpha-Chlordane	ND	50	ug/Kg	03/21/2000 15:10	
gamma-Chlordane	ND	50	ug/Kg	03/21/2000 15:10	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	76.2	50-125	%	03/21/2000 15:10	
Decachlorobiphenyl	93.8	46-142	%	03/21/2000 15:10	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants
Attn.: Ann Holbrow

Test Method: 8081
Prep Method: 3550/8081

Batch QC Report Organochlorine Pesticides Analysis

Method Blank	Soil	QC Batch # 2000/03/21-02.13
MB: 2000/03/21-02.13-001		Date Extracted: 03/21/2000 11:52

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	03/22/2000 12:26	
Dieldrin	ND	2.0	ug/Kg	03/22/2000 12:26	
Endrin aldehyde	ND	10	ug/Kg	03/22/2000 12:26	
Endrin	ND	2.0	ug/Kg	03/22/2000 12:26	
Heptachlor	ND	2.0	ug/Kg	03/22/2000 12:26	
Heptachlor epoxide	ND	2.0	ug/Kg	03/22/2000 12:26	
4,4'-DDT	ND	10	ug/Kg	03/22/2000 12:26	
4,4'-DDE	ND	2.0	ug/Kg	03/22/2000 12:26	
4,4'-DDD	ND	2.0	ug/Kg	03/22/2000 12:26	
Endosulfan I	ND	10	ug/Kg	03/22/2000 12:26	
Endosulfan II	ND	10	ug/Kg	03/22/2000 12:26	
alpha-BHC	ND	2.0	ug/Kg	03/22/2000 12:26	
beta-BHC	ND	2.0	ug/Kg	03/22/2000 12:26	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	03/22/2000 12:26	
delta-BHC	ND	2.0	ug/Kg	03/22/2000 12:26	
Endosulfan sulfate	ND	10	ug/Kg	03/22/2000 12:26	
4,4'-Methoxychlor	ND	10	ug/Kg	03/22/2000 12:26	
Toxaphene	ND	100	ug/Kg	03/22/2000 12:26	
alpha-Chlordane	ND	50	ug/Kg	03/22/2000 12:26	
gamma-Chlordane	ND	50	ug/Kg	03/22/2000 12:26	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	75.2	50-125	%	03/22/2000 12:26	
Decachlorobiphenyl	68.2	46-142	%	03/22/2000 12:26	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 8081

Attn: Ann Holbrow

Prep Method: 3550/8081

Batch QC Report

Organochlorine Pesticides Analysis

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2000/03/21-01.13
LCS: 2000/03/21-01.13-002	Extracted: 03/21/2000 11:45	Analyzed 03/21/2000 15:44
LCSD: 2000/03/21-01.13-003	Extracted: 03/21/2000 11:45	Analyzed 03/21/2000 16:17

Compound	Conc. [ug/Kg]		Exp. Conc. [ug/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Aldrin	12.3	14.4	16.7	16.7	73.7	86.2	15.6	37-136	25		
Dieldrin	12.1	14.9	16.7	16.7	72.5	89.2	20.7	58-135	35		
Endrin	11.1	14.9	16.7	16.7	66.5	89.2	29.2	58-134	35		
Heptachlor	11.9	14.2	16.7	16.7	71.3	85.0	17.5	40-136	20		
4,4'-DDT	12.6	15.6	16.7	16.7	75.4	93.4	21.3	55-132	35		
gamma-BHC (Lindane)	12.1	14.9	16.7	16.7	72.5	89.2	20.7	37-137	35		
Surrogate(s)											
2,4,5,6-Tetrachloro-m-xyI	33.2	41.7	50	50	66.4	83.4		50-125			
Decachlorobiphenyl	40.5	47.9	50	50	81.0	95.8		46-142			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: **Geomatrix Consultants**

Test Method: 8081

Attn: Ann Holbrow

Prep Method: 3550/8081

Batch QC Report

Organochlorine Pesticides Analysis

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2000/03/21-02.13	
LCS:	2000/03/21-02.13-002	Extracted:	03/21/2000 11:52	Analyzed	03/22/2000 13:00
LCSD:	2000/03/21-02.13-003	Extracted:	03/21/2000 11:52	Analyzed	03/22/2000 13:34

Compound	Conc. [ug/Kg]		Exp. Conc. [ug/Kg]		Recovery [%]			RPD		Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD	Recovery	RPD	LCS	LCSD		
Aldrin	15.9	15.8	16.7	16.7	95.2	94.6	0.6	37-136	25				
Dieldrin	16.2	16.2	16.7	16.7	97.0	97.0	0.0	58-135	35				
Endrin	15.7	15.7	16.7	16.7	94.0	94.0	0.0	58-134	35				
Heptachlor	15.9	15.9	16.7	16.7	95.2	95.2	0.0	40-136	20				
4,4'-DDT	15.4	15.4	16.7	16.7	92.2	92.2	0.0	55-132	35				
gamma-BHC (Lindane)	15.4	15.4	16.7	16.7	92.2	92.2	0.0	37-137	35				
Surrogate(s)													
2,4,5,6-Tetrachloro-m-xyl	38.3	38.3	50	50	76.6	76.6		50-125					
Decachlorobiphenyl	39.3	39.3	50	50	78.6	78.6		46-142					

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Batch QC Report

Organochlorine Pesticides Analysis

Matrix Spike (MS / MSD)

Soil

QC Batch # 2000/03/21-02.13

Sample ID: GMX33B-1.0

Lab Sample ID: 2000-03-0373-004

MS: 2000/03/21-02.13-004 Extracted: 03/21/2000 11:52 Analyzed: 03/22/2000 14:08 Dilution: 5.0

MSD: 2000/03/21-02.13-005 Extracted: 03/21/2000 11:52 Analyzed: 03/22/2000 14:42 Dilution: 5.0

Compound	Conc. [ug/Kg]			Exp.Conc. [ug/Kg]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Aldrin	11.1	12.6	ND	16.5	16.6	67.3	75.9	12.0	37-136	25		
Dieldrin	16.2	18.3	ND	16.5	16.6	98.2	110.2	11.5	58-135	35		
Endrin	10.2	11.7	ND	16.5	16.6	61.8	70.5	13.2	58-134	35		
Heptachlor	10.6	12.1	ND	16.5	16.6	64.2	72.9	12.7	40-136	20		
4,4'-DDT	9.60	11.2	ND	16.5	16.6	58.2	67.5	14.8	55-132	35		
gamma-BHC (Lindane)	9.77	12.1	ND	16.5	16.6	59.2	72.9	20.7	37-137	35		
Surrogate(s)												
2,4,5,6-Tetrachloro-m-xy	29.4	32.4		50	50	58.8	64.8		50-125			
Decachlorobiphenyl	30.9	47.5		50	50	61.8	95.0		46-142			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Batch QC Report

Organochlorine Pesticides Analysis

Matrix Spike (MS / MSD)

Soil

QC Batch # 2000/03/21-02.13

Sample ID: GMX33B-7.0

Lab Sample ID: 2000-03-0373-006

MS: 2000/03/21-02.13-006 Extracted: 03/21/2000 11:52 Analyzed: 03/22/2000 15:16 Dilution: 1.0

MSD: 2000/03/21-02.13-007 Extracted: 03/21/2000 11:52 Analyzed: 03/22/2000 15:50 Dilution: 1.0

Compound	Conc. [ug/Kg]			Exp. Conc. [ug/Kg]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Aldrin	14.1	15.1	ND	16.5	16.6	85.5	91.0	6.2	37-136	25		
Dieldrin	14.1	14.9	ND	16.5	16.6	85.5	89.8	4.9	58-135	35		
Endrin	13.7	14.7	ND	16.5	16.6	83.0	88.6	6.5	58-134	35		
Heptachlor	14.5	15.5	ND	16.5	16.6	87.9	93.4	6.1	40-136	20		
4,4'-DDT	13.1	14.2	ND	16.5	16.6	79.4	85.5	7.4	55-132	35		
gamma-BHC (Lindane)	14.3	15.4	ND	16.5	16.6	86.7	92.8	6.8	37-137	35		
Surrogate(s)												
2,4,5,6-Tetrachloro-m-xy	37.1	39.0		50	50	74.2	78.0		50-125			
Decachlorobiphenyl	38.1	37.5		50	50	76.2	75.0		46-142			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 8081

Attn.: Ann Holbrow

Prep Method: 3550/8081

Batch QC Report

Organochlorine Pesticides Analysis

Matrix Spike (MS / MSD)

Soil

QC Batch # 2000/03/21-01.13

Sample ID: GMX36C-4.5

Lab Sample ID: 2000-03-0371-020

MS: 2000/03/21-01.13-004 Extracted: 03/21/2000 11:45 Analyzed: 03/22/2000 16:24 Dilution: 1.0

MSD: 2000/03/21-01.13-005 Extracted: 03/21/2000 11:45 Analyzed: 03/22/2000 16:58 Dilution: 1.0

Compound	Conc. [ug/Kg]			Exp. Conc. [ug/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Aldrin	15.7	16.1	ND	16.5	16.6	95.2	97.0	1.9	37-136	25		
Dieldrin	15.4	16.0	ND	16.5	16.6	93.3	96.4	3.3	58-135	35		
Endrin	15.2	15.5	ND	16.5	16.6	92.1	93.4	1.4	58-134	35		
Heptachlor	15.8	16.3	ND	16.5	16.6	95.8	98.2	2.5	40-136	20		
4,4'-DDT	14.7	14.3	ND	16.5	16.6	89.1	86.1	3.4	55-132	35		
gamma-BHC (Lindane)	15.7	16.1	ND	16.5	16.6	95.2	97.0	1.9	37-137	35		
Surrogate(s)												
2,4,5,6-Tetrachloro-m-xy	40.0	41.0		50	50	80.0	82.0		50-125			
Decachlorobiphenyl	38.8	39.4		50	50	77.6	78.8		46-142			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX33B-7.0	Lab Sample ID: 2000-03-0373-006
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:03	Extracted: 03/21/2000 15:32
Matrix: Soil	QC-Batch: 2000/03/21-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/21/2000 19:12	
Arsenic	1.1	1.0	mg/Kg	1.00	03/21/2000 19:12	
Barium	110	1.0	mg/Kg	1.00	03/21/2000 19:12	
Beryllium	ND	0.50	mg/Kg	1.00	03/21/2000 19:12	
Cadmium	ND	0.50	mg/Kg	1.00	03/21/2000 19:12	
Chromium	29	1.0	mg/Kg	1.00	03/21/2000 19:12	
Cobalt	7.0	1.0	mg/Kg	1.00	03/21/2000 19:12	
Copper	12	1.0	mg/Kg	1.00	03/21/2000 19:12	
Lead	4.7	1.0	mg/Kg	1.00	03/21/2000 19:12	
Molybdenum	ND	1.0	mg/Kg	1.00	03/21/2000 19:12	
Nickel	32	1.0	mg/Kg	1.00	03/21/2000 19:12	
Selenium	ND	2.0	mg/Kg	1.00	03/21/2000 19:12	
Silver	ND	1.0	mg/Kg	1.00	03/21/2000 19:12	
Thallium	ND	1.0	mg/Kg	1.00	03/21/2000 19:12	
Vanadium	21	1.0	mg/Kg	1.00	03/21/2000 19:12	
Zinc	30	1.0	mg/Kg	1.00	03/21/2000 19:12	
Mercury	ND	0.050	mg/Kg	1.00	03/22/2000 11:29	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX34B-1.0	Lab Sample ID: 2000-03-0373-007
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:45	Extracted: 03/21/2000 15:32
Matrix: Soil	QC-Batch: 2000/03/21-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/21/2000 19:45	
Arsenic	7.2	1.0	mg/Kg	1.00	03/21/2000 19:45	
Barium	150	1.0	mg/Kg	1.00	03/21/2000 19:45	
Beryllium	ND	0.50	mg/Kg	1.00	03/21/2000 19:45	
Cadmium	ND	0.50	mg/Kg	1.00	03/21/2000 19:45	
Chromium	32	1.0	mg/Kg	1.00	03/21/2000 19:45	
Cobalt	11	1.0	mg/Kg	1.00	03/21/2000 19:45	
Copper	47	1.0	mg/Kg	1.00	03/21/2000 19:45	
Lead	21	1.0	mg/Kg	1.00	03/21/2000 19:45	
Molybdenum	ND	1.0	mg/Kg	1.00	03/21/2000 19:45	
Nickel	32	1.0	mg/Kg	1.00	03/21/2000 19:45	
Selenium	ND	2.0	mg/Kg	1.00	03/21/2000 19:45	
Silver	ND	1.0	mg/Kg	1.00	03/21/2000 19:45	
Thallium	ND	1.0	mg/Kg	1.00	03/21/2000 19:45	
Vanadium	57	1.0	mg/Kg	1.00	03/21/2000 19:45	
Zinc	65	1.0	mg/Kg	1.00	03/21/2000 19:45	
Mercury	0.35	0.050	mg/Kg	1.00	03/22/2000 11:33	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX34B-4.0	Lab Sample ID: 2000-03-0373-008
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:52	Extracted: 03/21/2000 15:32
Matrix: Soil	QC-Batch: 2000/03/21-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/21/2000 19:49	
Arsenic	4.7	1.0	mg/Kg	1.00	03/21/2000 19:49	
Barium	200	1.0	mg/Kg	1.00	03/21/2000 19:49	
Beryllium	ND	0.50	mg/Kg	1.00	03/21/2000 19:49	
Cadmium	ND	0.50	mg/Kg	1.00	03/21/2000 19:49	
Chromium	27	1.0	mg/Kg	1.00	03/21/2000 19:49	
Cobalt	6.9	1.0	mg/Kg	1.00	03/21/2000 19:49	
Copper	14	1.0	mg/Kg	1.00	03/21/2000 19:49	
Lead	5.1	1.0	mg/Kg	1.00	03/21/2000 19:49	
Molybdenum	ND	1.0	mg/Kg	1.00	03/21/2000 19:49	
Nickel	30	1.0	mg/Kg	1.00	03/21/2000 19:49	
Selenium	ND	2.0	mg/Kg	1.00	03/21/2000 19:49	
Silver	ND	1.0	mg/Kg	1.00	03/21/2000 19:49	
Thallium	ND	1.0	mg/Kg	1.00	03/21/2000 19:49	
Vanadium	33	1.0	mg/Kg	1.00	03/21/2000 19:49	
Zinc	25	1.0	mg/Kg	1.00	03/21/2000 19:49	
Mercury	ND	0.050	mg/Kg	1.00	03/22/2000 11:34	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX34B-7.0	Lab Sample ID: 2000-03-0373-009
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:56	Extracted: 03/22/2000 08:20
Matrix: Soil	QC-Batch: 2000/03/22-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/22/2000 17:30	
Arsenic	1.4	1.0	mg/Kg	1.00	03/22/2000 17:30	
Barium	120	1.0	mg/Kg	1.00	03/22/2000 17:30	
Beryllium	ND	0.50	mg/Kg	1.00	03/22/2000 17:30	
Cadmium	ND	0.50	mg/Kg	1.00	03/22/2000 17:30	
Chromium	27	1.0	mg/Kg	1.00	03/22/2000 17:30	
Cobalt	7.0	1.0	mg/Kg	1.00	03/22/2000 17:30	
Copper	13	1.0	mg/Kg	1.00	03/22/2000 17:30	
Lead	5.1	1.0	mg/Kg	1.00	03/22/2000 17:30	
Molybdenum	ND	1.0	mg/Kg	1.00	03/22/2000 17:30	
Nickel	36	1.0	mg/Kg	1.00	03/22/2000 17:30	
Selenium	ND	2.0	mg/Kg	1.00	03/22/2000 17:30	
Silver	ND	1.0	mg/Kg	1.00	03/22/2000 17:30	
Thallium	ND	1.0	mg/Kg	1.00	03/22/2000 17:30	
Vanadium	20	1.0	mg/Kg	1.00	03/22/2000 17:30	
Zinc	32	1.0	mg/Kg	1.00	03/22/2000 17:30	
Mercury	ND	0.050	mg/Kg	1.00	03/22/2000 11:41	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: **Geomatrix Consultants**

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX35C-1.0	Lab Sample ID: 2000-03-0373-013
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:56	Extracted: 03/22/2000 08:20
Matrix: Soil	QC-Batch: 2000/03/22-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/22/2000 17:42	
Arsenic	3.8	1.0	mg/Kg	1.00	03/22/2000 17:42	
Barium	180	1.0	mg/Kg	1.00	03/22/2000 17:42	
Beryllium	ND	0.50	mg/Kg	1.00	03/22/2000 17:42	
Cadmium	ND	0.50	mg/Kg	1.00	03/22/2000 17:42	
Chromium	29	1.0	mg/Kg	1.00	03/22/2000 17:42	
Cobalt	9.1	1.0	mg/Kg	1.00	03/22/2000 17:42	
Copper	35	1.0	mg/Kg	1.00	03/22/2000 17:42	
Lead	14	1.0	mg/Kg	1.00	03/22/2000 17:42	
Molybdenum	ND	1.0	mg/Kg	1.00	03/22/2000 17:42	
Nickel	32	1.0	mg/Kg	1.00	03/22/2000 17:42	
Selenium	ND	2.0	mg/Kg	1.00	03/22/2000 17:42	
Silver	ND	1.0	mg/Kg	1.00	03/22/2000 17:42	
Thallium	ND	1.0	mg/Kg	1.00	03/22/2000 17:42	
Vanadium	39	1.0	mg/Kg	1.00	03/22/2000 17:42	
Zinc	56	1.0	mg/Kg	1.00	03/22/2000 17:42	
Mercury	0.074	0.050	mg/Kg	1.00	03/22/2000 11:45	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX35C-4.0	Lab Sample ID: 2000-03-0373-014
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:56	Extracted: 03/22/2000 08:20
Matrix: Soil	QC-Batch: 2000/03/22-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/22/2000 17:45	
Arsenic	ND	1.0	mg/Kg	1.00	03/22/2000 17:45	
Barium	120	1.0	mg/Kg	1.00	03/22/2000 17:45	
Beryllium	ND	0.50	mg/Kg	1.00	03/22/2000 17:45	
Cadmium	ND	0.50	mg/Kg	1.00	03/22/2000 17:45	
Chromium	22	1.0	mg/Kg	1.00	03/22/2000 17:45	
Cobalt	6.0	1.0	mg/Kg	1.00	03/22/2000 17:45	
Copper	13	1.0	mg/Kg	1.00	03/22/2000 17:45	
Lead	5.8	1.0	mg/Kg	1.00	03/22/2000 17:45	
Molybdenum	ND	1.0	mg/Kg	1.00	03/22/2000 17:45	
Nickel	24	1.0	mg/Kg	1.00	03/22/2000 17:45	
Selenium	ND	2.0	mg/Kg	1.00	03/22/2000 17:45	
Silver	ND	1.0	mg/Kg	1.00	03/22/2000 17:45	
Thallium	ND	1.0	mg/Kg	1.00	03/22/2000 17:45	
Vanadium	16	1.0	mg/Kg	1.00	03/22/2000 17:45	
Zinc	22	1.0	mg/Kg	1.00	03/22/2000 17:45	
Mercury	ND	0.050	mg/Kg	1.00	03/22/2000 11:46	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: **Geomatrix Consultants**

Test Method: 7471A
6010B

Attn.: *Ann Holbrow*

Prep Method: 3050B
7471A

CAM 17 Metals

Sample ID: GMX35C-7.0	Lab Sample ID: 2000-03-0373-015
Project: 6262	Received: 03/21/2000 10:49
Sampled: 03/20/2000 09:56	Extracted: 03/22/2000 08:20
Matrix: Soil	QC-Batch: 2000/03/22-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/22/2000 17:48	
Arsenic	2.6	1.0	mg/Kg	1.00	03/22/2000 17:48	
Barium	110	1.0	mg/Kg	1.00	03/22/2000 17:48	
Beryllium	ND	0.50	mg/Kg	1.00	03/22/2000 17:48	
Cadmium	ND	0.50	mg/Kg	1.00	03/22/2000 17:48	
Chromium	29	1.0	mg/Kg	1.00	03/22/2000 17:48	
Cobalt	8.2	1.0	mg/Kg	1.00	03/22/2000 17:48	
Copper	12	1.0	mg/Kg	1.00	03/22/2000 17:48	
Lead	5.1	1.0	mg/Kg	1.00	03/22/2000 17:48	
Molybdenum	ND	1.0	mg/Kg	1.00	03/22/2000 17:48	
Nickel	51	1.0	mg/Kg	1.00	03/22/2000 17:48	
Selenium	ND	2.0	mg/Kg	1.00	03/22/2000 17:48	
Silver	ND	1.0	mg/Kg	1.00	03/22/2000 17:48	
Thallium	ND	1.0	mg/Kg	1.00	03/22/2000 17:48	
Vanadium	24	1.0	mg/Kg	1.00	03/22/2000 17:48	
Zinc	29	1.0	mg/Kg	1.00	03/22/2000 17:48	
Mercury	ND	0.050	mg/Kg	1.00	03/22/2000 11:48	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 7471A

Attn.: Ann Holbrow

6010B

Prep Method: 3050B

7471A

Batch QC Report CAM 17 Metals

Method Blank	Soil	QC Batch # 2000/03/21-02.15
MB: 2000/03/21-02.15-013		Date Extracted: 03/21/2000 15:32

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	03/21/2000 17:23	
Arsenic	ND	1.0	mg/Kg	03/21/2000 17:23	
Barium	ND	1.0	mg/Kg	03/21/2000 17:23	
Beryllium	ND	0.50	mg/Kg	03/21/2000 17:23	
Cadmium	ND	0.50	mg/Kg	03/21/2000 17:23	
Chromium	ND	1.0	mg/Kg	03/21/2000 17:23	
Cobalt	ND	1.0	mg/Kg	03/21/2000 17:23	
Copper	ND	1.0	mg/Kg	03/21/2000 17:23	
Lead	ND	1.0	mg/Kg	03/21/2000 17:23	
Molybdenum	ND	1.0	mg/Kg	03/21/2000 17:23	
Nickel	ND	1.0	mg/Kg	03/21/2000 17:23	
Selenium	ND	2.0	mg/Kg	03/21/2000 17:23	
Silver	ND	1.0	mg/Kg	03/21/2000 17:23	
Thallium	ND	1.0	mg/Kg	03/21/2000 17:23	
Vanadium	ND	1.0	mg/Kg	03/21/2000 17:23	
Zinc	ND	1.0	mg/Kg	03/21/2000 17:23	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: **Geomatrix Consultants**

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 3050B
7471A

Batch QC Report
CAM 17 Metals

Method Blank	Soil	QC Batch # 2000/03/21-02.16
MB: 2000/03/21-02.16-011		Date Extracted: 03/21/2000 15:37

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	03/22/2000 10:55	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: **Geomatrix Consultants**

Test Method: 7471A

Attn.: Ann Holbrow

6010B

Prep Method: 3050B

7471A

Batch QC Report
CAM 17 Metals

Method Blank	Soil	QC Batch # 2000/03/22-02.16
MB: 2000/03/22-02.16-044		Date Extracted: 03/22/2000 08:23

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	03/22/2000 11:35	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 7471A

Attn.: Ann Holbrow

6010B

Prep Method: 3050B

7471A

Batch QC Report CAM 17 Metals

Method Blank	Soil	QC Batch # 2000/03/22-03.15
MB: 2000/03/22-03.15-090		Date Extracted: 03/22/2000 08:20

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	03/22/2000 17:12	
Arsenic	ND	1.0	mg/Kg	03/22/2000 17:12	
Barium	ND	1.0	mg/Kg	03/22/2000 17:12	
Beryllium	ND	0.50	mg/Kg	03/22/2000 17:12	
Cadmium	ND	0.50	mg/Kg	03/22/2000 17:12	
Chromium	ND	1.0	mg/Kg	03/22/2000 17:12	
Cobalt	ND	1.0	mg/Kg	03/22/2000 17:12	
Copper	ND	1.0	mg/Kg	03/22/2000 17:12	
Lead	ND	1.0	mg/Kg	03/22/2000 17:12	
Molybdenum	ND	1.0	mg/Kg	03/22/2000 17:12	
Nickel	ND	1.0	mg/Kg	03/22/2000 17:12	
Selenium	ND	2.0	mg/Kg	03/22/2000 17:12	
Silver	ND	1.0	mg/Kg	03/22/2000 17:12	
Thallium	ND	1.0	mg/Kg	03/22/2000 17:12	
Vanadium	ND	1.0	mg/Kg	03/22/2000 17:12	
Zinc	ND	1.0	mg/Kg	03/22/2000 17:12	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2000/03/21-02.15	
LCS:	2000/03/21-02.15-014	Extracted:	03/21/2000 15:32	Analyzed	03/21/2000 17:27
LCSD:	2000/03/21-02.15-015	Extracted:	03/21/2000 15:32	Analyzed	03/21/2000 17:30

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%]			RPD		Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD [%]	Recovery	RPD	LCS	LCSD	LCS	LCSD
Antimony	93.9	93.9	100.0	100.0	93.9	93.9	0.0	80-120	20				
Arsenic	91.6	91.4	100.0	100.0	91.6	91.4	0.2	80-120	20				
Barium	91.9	91.8	100.0	100.0	91.9	91.8	0.1	80-120	20				
Beryllium	93.2	92.7	100.0	100.0	93.2	92.7	0.5	80-120	20				
Cadmium	92.4	92.4	100.0	100.0	92.4	92.4	0.0	80-120	20				
Chromium	95.8	95.7	100.0	100.0	95.8	95.7	0.1	80-120	20				
Cobalt	92.8	92.9	100.0	100.0	92.8	92.9	0.1	80-120	20				
Copper	93.5	93.5	100.0	100.0	93.5	93.5	0.0	80-120	20				
Lead	92.1	92.1	100.0	100.0	92.1	92.1	0.0	80-120	20				
Molybdenum	94.9	95.1	100.0	100.0	94.9	95.1	0.2	80-120	20				
Nickel	92.2	92.1	100.0	100.0	92.2	92.1	0.1	80-120	20				
Selenium	92.6	93.3	100.0	100.0	92.6	93.3	0.8	80-120	20				
Silver	92.2	92.2	100.0	100.0	92.2	92.2	0.0	80-120	20				
Thallium	92.3	92.4	100.0	100.0	92.3	92.4	0.1	80-120	20				
Vanadium	94.3	94.3	100.0	100.0	94.3	94.3	0.0	80-120	20				
Zinc	91.2	91.2	100.0	100.0	91.2	91.2	0.0	80-120	20				

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2000/03/21-02.16	
LCS:	2000/03/21-02.16-012	Extracted:	03/21/2000 15:37	Analyzed	03/22/2000 10:56
LCSD:	2000/03/21-02.16-013	Extracted:	03/21/2000 15:37	Analyzed	03/22/2000 10:58

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%]			RPD		Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD		
Mercury	0.520	0.505	0.500	0.500	104.0	101.0	2.9	85-115	20				

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2000/03/22-02.16	
LCS:	2000/03/22-02.16-047	Extracted:	03/22/2000 08:23	Analyzed	03/22/2000 11:39
LCSD:	2000/03/22-02.16-048	Extracted:	03/22/2000 08:23	Analyzed	03/22/2000 11:40

Compound	Conc. [mg/Kg]		Exp. Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recovery	RPD	LCS
Mercury	0.487	0.507	0.500	0.500	97.4	101.4	4.0	85-115	20		

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2000/03/22-03.15	
LCS:	2000/03/22-03.15-093	Extracted:	03/22/2000 08:20	Analyzed	03/22/2000 17:23
LCSD:	2000/03/22-03.15-094	Extracted:	03/22/2000 08:20	Analyzed	03/22/2000 17:27

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Antimony	98.7	101	100.0	100.0	98.7	101.0	2.3	80-120	20		
Arsenic	96.5	98.2	100.0	100.0	96.5	98.2	1.7	80-120	20		
Barium	98.1	98.4	100.0	100.0	98.1	98.4	0.3	80-120	20		
Beryllium	95.8	97.1	100.0	100.0	95.8	97.1	1.3	80-120	20		
Cadmium	94.7	94.5	100.0	100.0	94.7	94.5	0.2	80-120	20		
Chromium	99.1	101	100.0	100.0	99.1	101.0	1.9	80-120	20		
Cobalt	95.5	97.1	100.0	100.0	95.5	97.1	1.7	80-120	20		
Copper	96.4	96.3	100.0	100.0	96.4	96.3	0.1	80-120	20		
Lead	95.4	97.1	100.0	100.0	95.4	97.1	1.8	80-120	20		
Molybdenum	94.7	96.2	100.0	100.0	94.7	96.2	1.6	80-120	20		
Nickel	95.6	95.6	100.0	100.0	95.6	95.6	0.0	80-120	20		
Selenium	94.3	96.1	100.0	100.0	94.3	96.1	1.9	80-120	20		
Silver	91.3	90.9	100.0	100.0	91.3	90.9	0.4	80-120	20		
Thallium	91.1	92.0	100.0	100.0	91.1	92.0	1.0	80-120	20		
Vanadium	95.3	95.2	100.0	100.0	95.3	95.2	0.1	80-120	20		
Zinc	98.5	98.8	100.0	100.0	98.5	98.8	0.3	80-120	20		

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Matrix Spike (MS / MSD)

Soil

QC Batch # 2000/03/21-02.15

Sample ID: GMX36C-4.5

Lab Sample ID: 2000-03-0371-020

MS: 2000/03/21-02.15-026 Extracted: 03/21/2000 15:32 Analyzed: 03/21/2000 18:16 Dilution: 1.0

MSD: 2000/03/21-02.15-027 Extracted: 03/21/2000 15:32 Analyzed: 03/21/2000 18:20 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp. Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		[%]	Recovery	RPD	MS
Antimony	45.2	47.7	ND	100.0	100.0	45.2	47.7	5.4	75-125	20	mso	mso
Arsenic	83.3	84.5	1.43	100.0	100.0	81.9	83.1	1.5	75-125	20		
Barium	205	212	134	100.0	100.0	71.0	78.0	9.4	75-125	20	mso	
Beryllium	84.8	86.0	ND	100.0	100.0	84.8	86.0	1.4	75-125	20		
Cadmium	82.3	82.4	ND	100.0	100.0	82.3	82.4	0.1	75-125	20		
Chromium	110	111	21.8	100.0	100.0	88.2	89.2	1.1	75-125	20		
Cobalt	90.8	91.8	8.31	100.0	100.0	82.5	83.5	1.2	75-125	20		
Copper	102	103	14.7	100.0	100.0	87.3	88.3	1.1	75-125	20		
Lead	100	104	22.3	100.0	100.0	77.7	81.7	5.0	75-125	20		
Molybdenum	78.7	79.7	ND	100.0	100.0	78.7	79.7	1.3	75-125	20		
Nickel	105	106	22.6	100.0	100.0	82.4	83.4	1.2	75-125	20		
Selenium	82.9	83.0	ND	100.0	100.0	82.9	83.0	0.1	75-125	20		
Silver	86.4	86.4	ND	100.0	100.0	86.4	86.4	0.0	75-125	20		
Thallium	77.3	78.0	ND	100.0	100.0	77.3	78.0	0.9	75-125	20		
Vanadium	102	103	16.8	100.0	100.0	85.2	86.2	1.2	75-125	20		
Zinc	124	125	44.0	100.0	100.0	80.0	81.0	1.2	75-125	20		

Antimony

Ann Holbrow

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: **Geomatrix Consultants**

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Matrix Spike (MS / MSD)	Soil	QC Batch # 2000/03/21-02.15
Sample ID: GMX33B-1.0		Lab Sample ID: 2000-03-0373-004
MS: 2000/03/21-02.15-038	Extracted: 03/21/2000 15:32	Analyzed: 03/21/2000 19:02 Dilution: 1.0
MSD: 2000/03/21-02.15-039	Extracted: 03/21/2000 15:32	Analyzed: 03/21/2000 19:06 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp. Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		[%]	Recovery	RPD	MS
Antimony	48.8	51.3	ND	100.0	100.0	48.8	51.3	5.0	75-125	20	mso	mso
Arsenic	83.5	84.8	5.15	100.0	100.0	78.3	79.6	1.6	75-125	20		
Barium	253	234	318	100.0	100.0	-65.0	-84.0	-25.5	75-125	20	mso	mso
Beryllium	80.4	80.8	ND	100.0	100.0	80.4	80.8	0.5	75-125	20		
Cadmium	76.0	76.8	ND	100.0	100.0	76.0	76.8	1.0	75-125	20		
Chromium	118	117	32.3	100.0	100.0	85.7	84.7	1.2	75-125	20		
Cobalt	88.9	89.6	10.2	100.0	100.0	78.7	79.4	0.9	75-125	20		
Copper	133	133	41.5	100.0	100.0	91.5	91.5	0.0	75-125	20		
Lead	90.3	91.7	13.8	100.0	100.0	76.5	77.9	1.8	75-125	20		
Molybdenum	76.3	77.3	ND	100.0	100.0	76.3	77.3	1.3	75-125	20		
Nickel	112	113	31.4	100.0	100.0	80.6	81.6	1.2	75-125	20		
Selenium	77.2	78.2	ND	100.0	100.0	77.2	78.2	1.3	75-125	20		
Silver	82.4	83.1	ND	100.0	100.0	82.4	83.1	0.8	75-125	20		
Thallium	69.9	69.6	ND	100.0	100.0	69.9	69.6	0.4	75-125	20	mso	mso
Vanadium	136	140	48.6	100.0	100.0	87.4	91.4	4.5	75-125	20		
Zinc	134	135	97.8	100.0	100.0	36.2	37.2	2.7	75-125	20	mso	mso

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Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Matrix Spike (MS / MSD)

Soil

QC Batch # 2000/03/21-02.15

Sample ID: GMX33B-7.0

Lab Sample ID: 2000-03-0373-006

MS: 2000/03/21-02.15-044 Extracted: 03/21/2000 15:32 Analyzed: 03/21/2000 19:38 Dilution: 1.0

MSD: 2000/03/21-02.15-045 Extracted: 03/21/2000 15:32 Analyzed: 03/21/2000 19:42 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp. Conc. [mg/Kg]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	RPD [%]	Recovery	RPD	MS	MSD
Antimony	66.1	70.2	ND	100.0	100.0	66.1	70.2	6.0	75-125	20	mso	mso
Arsenic	90.8	96.6	1.12	100.0	100.0	89.7	95.5	6.3	75-125	20		
Barium	198	216	107	100.0	100.0	91.0	109.0	18.0	75-125	20		
Beryllium	90.8	94.9	ND	100.0	100.0	90.8	94.9	4.4	75-125	20		
Cadmium	85.5	91.2	ND	100.0	100.0	85.5	91.2	6.5	75-125	20		
Chromium	122	129	29.2	100.0	100.0	92.8	99.8	7.3	75-125	20		
Cobalt	93.9	98.3	6.96	100.0	100.0	86.9	91.3	4.9	75-125	20		
Copper	106	110	12.3	100.0	100.0	93.7	97.7	4.2	75-125	20		
Lead	88.7	95.2	4.72	100.0	100.0	84.0	90.5	7.4	75-125	20		
Molybdenum	87.8	88.8	ND	100.0	100.0	87.8	88.8	1.1	75-125	20		
Nickel	116	125	31.6	100.0	100.0	84.4	93.4	10.1	75-125	20		
Selenium	88.8	91.8	ND	100.0	100.0	88.8	91.8	3.3	75-125	20		
Silver	92.3	93.2	ND	100.0	100.0	92.3	93.2	1.0	75-125	20		
Thallium	80.3	80.3	ND	100.0	100.0	80.3	80.3	0.0	75-125	20		
Vanadium	112	114	21.2	100.0	100.0	90.8	92.8	2.2	75-125	20		
Zinc	113	128	29.6	100.0	100.0	83.4	98.4	16.5	75-125	20		

1220 Quarry Lane * Pleasanton, CA 94566-4756

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Matrix Spike (MS / MSD)

Soil

QC Batch # 2000/03/21-02.16

Sample ID: GMX36C-4.5

Lab Sample ID: 2000-03-0371-020

MS: 2000/03/21-02.16-024 Extracted: 03/21/2000 15:37 Analyzed: 03/22/2000 11:11 Dilution: 1.0

MSD: 2000/03/21-02.16-025 Extracted: 03/21/2000 15:37 Analyzed: 03/22/2000 11:12 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp. Conc. [mg/Kg]		Recovery [%]			RPD		Ctr. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	RPD	Recovery	RPD	MS	MSD	MS	MSD
Mercury	0.561	0.570	0.0969	0.500	0.500	92.8	94.6	1.9	85-115	20				

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Matrix Spike (MS / MSD)	Soil	QC Batch # 2000/03/21-02.16
Sample ID: GMX33B-1.0		Lab Sample ID: 2000-03-0373-004
MS: 2000/03/21-02.16-036	Extracted: 03/21/2000 15:37	Analyzed: 03/22/2000 11:26 Dilution: 1.0
MSD: 2000/03/21-02.16-037	Extracted: 03/21/2000 15:37	Analyzed: 03/22/2000 11:27 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp. Conc. [mg/Kg]		Recovery [%]			Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	RPD [%]	Recovery	RPD	MS	MSD
Mercury	0.571	0.569	0.114	0.500	0.500	91.4	91.0	0.4	85-115	20		

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: **Geomatrix Consultants**

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Matrix Spike (MS / MSD)	Soil	QC Batch # 2000/03/21-02.16
Sample ID: GMX33B-7.0		Lab Sample ID: 2000-03-0373-006
MS: 2000/03/21-02.16-040	Extracted: 03/21/2000 15:37	Analyzed: 03/22/2000 11:31 Dilution: 1.0
MSD: 2000/03/21-02.16-041	Extracted: 03/21/2000 15:37	Analyzed: 03/22/2000 11:32 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp. Conc. [mg/Kg]		Recovery [%]		RPD [%]	Ctr. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Mercury	0.466	0.456	ND	0.500	0.500	93.2	91.2	2.2	85-115	20		

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Matrix Spike (MS / MSD)	Soil	QC Batch # 2000/03/22-02.16
Sample ID: GMX34B-7.0		Lab Sample ID: 2000-03-0373-009
MS: 2000/03/22-02.16-050	Extracted: 03/22/2000 08:23	Analyzed: 03/22/2000 11:43 Dilution: 1.0
MSD: 2000/03/22-02.16-051	Extracted: 03/22/2000 08:23	Analyzed: 03/22/2000 11:44 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp. Conc. [mg/Kg]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	RPD [%]	Recovery	RPD	MS	MSD
Mercury	0.500	0.499	ND	0.500	0.500	100.0	99.8	0.2	85-115	20		

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: Geomatrix Consultants

Test Method: 7471A
6010B

Attn.: Ann Holbrow

Prep Method: 7471A
3050B

Batch QC Report

CAM 17 Metals

Matrix Spike (MS / MSD)

Soil

QC Batch # 2000/03/22-03.15

Sample ID: GMX34B-7.0

Lab Sample ID: 2000-03-0373-009

MS: 2000/03/22-03.15-096 Extracted: 03/22/2000 08:20 Analyzed: 03/22/2000 17:34 Dilution: 1.0

MSD: 2000/03/22-03.15-097 Extracted: 03/22/2000 08:20 Analyzed: 03/22/2000 17:38 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctr. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Antimony	56.0	58.2	ND	100.0	100.0	56.0	58.2	3.9	75-125	20		
Arsenic	85.8	88.2	1.43	100.0	100.0	84.4	86.8	2.8	75-125	20		
Barium	193	203	116	100.0	100.0	77.0	87.0	12.2	75-125	20		
Beryllium	84.6	85.6	ND	100.0	100.0	84.6	85.6	1.2	75-125	20		
Cadmium	81.1	83.2	ND	100.0	100.0	81.1	83.2	2.6	75-125	20		
Chromium	115	117	27.2	100.0	100.0	87.8	89.8	2.3	75-125	20		
Cobalt	88.4	91.4	7.02	100.0	100.0	81.4	84.4	3.6	75-125	20		
Copper	98.6	101	13.1	100.0	100.0	85.5	87.9	2.8	75-125	20		
Lead	85.7	88.3	5.05	100.0	100.0	80.7	83.3	3.2	75-125	20		
Molybdenum	77.4	80.0	ND	100.0	100.0	77.4	80.0	3.3	75-125	20		
Nickel	118	121	36.1	100.0	100.0	81.9	84.9	3.6	75-125	20		
Selenium	81.3	83.6	ND	100.0	100.0	81.3	83.6	2.8	75-125	20		
Silver	82.2	84.5	ND	100.0	100.0	82.2	84.5	2.8	75-125	20		
Thallium	71.5	74.8	ND	100.0	100.0	71.5	74.8	4.5	75-125	20		
Vanadium	104	106	20.1	100.0	100.0	83.9	85.9	2.4	75-125	20		
Zinc	117	119	32.4	100.0	100.0	84.6	86.6	2.3	75-125	20		

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-03-0373

To: **Geomatrix Consultants**

Attn: Ann Holbrow

Test Method: 6010B
7471A

Prep Method: 3050B
7471A

Legend & Notes

CAM 17 Metals

QC Compound Flags

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB

Change request received by:

Az Uneda

Date Requested:

9/21/12

SAMPLE STATUS CHANGE FORM				Requested by
Submission#	Client Samp.ID	Old Status Description	Description of Changes	(Client's name)
		<i>8081-101 8082-101 Metals</i>	<i>Please Spike Sample GMX33 B-1.0 GMX33 B-1.0 GMX 33B-7.0</i>	
Changes were done in lims by(login): _____ On: <u> </u> / <u> </u> / <u> </u>				
CC: <input type="checkbox"/> Lab.Director <input type="checkbox"/> Dept.manager <input type="checkbox"/> Analyst <input type="checkbox"/> Proj.Manager				

RUSH

~~DO NOT SPIKE~~



FAX

from **Geomatrix Consultants, Inc.**
2101 Webster Street, 12th Floor, Oakland, CA 94612
www.geomatrix.com

1

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Date: March 23, 2000

Number of pages including cover sheet: _____

To: **Ms. Afsaneh Salimpour**
Chromalab

From: **Tom Gavigan**
Geomatrix Consultants

Fax Phone: **925-484-1096**

Fax Phone: **510-663-4141**

Phone: **925-484-1919**

Phone: **510-663-4100**

cc: _____

Direct dial: **510-663-4192**

Email: **Tgavigan@Geomatrix.com**

Project No.: **6262.000.0**

Project Name: **Canterbury Residential Development**

REMARKS:

Hard copy to follow Urgent For your review Reply ASAP Please comment

Afsaneh:

Geomatrix submitted 72 soil samples in three coolers under seven Geomatrix chain of custody forms (0989, 0975, 0985, 003794, 003800, 003792, 003795). 24 soil samples were selected for analysis; the remaining soil samples were placed on hold pending results of the 24 samples.

- I just received Submission #2000-03-0371 for pesticides – Thank you.
- I failed to mention in my last facsimile that we are also missing metals results from submission #2000-03-0373 – specifically three samples from boring GMX-35C and one sample from GMX-34B.
- I also wanted to point out that sample GMX40C-3.0 should be GMX40C-8.0.

Please let me know when I can expect the remaining metals analyses.

Thank you!

FAXfrom **Geomatrix Consultants, Inc.**2101 Webster Street, 12th Floor, Oakland, CA 94612
www.geomatrix.com

Date: March 23, 2000

Number of pages 1
including cover sheet: _____

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To: Ms. Afsaneh Salimpour

Chromolab

From: Tom Gavigan

Geomatrix Consultants

Fax Phone: 925-484-1096Phone: 925-484-1919

cc: _____

Fax Phone: 510-663-4141Phone: 510-663-4100Direct dial: 510-663-4192Email: Tgavigan@Geomatrix.comProject No.: 6262.000.0Project Name: Canterbury Residential Development**REMARKS:**
 Hard copy to follow
 Urgent
 For your review
 Reply ASAP
 Please comment

Afsaneh:

Geomatrix submitted 72 soil samples in three coolers under seven Geomatrix chain of custody forms (0989, 0975, 0985, 003794, 003800, 003792, 003795). 24 soil samples were selected for analysis; the remaining soil samples were placed on hold pending results of the 24 samples. We received the following lab reports as PDF files via email yesterday.

PCBs: Submission # 2000-03-0371 (12 total samples from borings GMX36C, GMX37C, GMX38C, GMX39C; three samples from each boring)
 Submission #2000-03-0373 (9 total samples from borings GMX33B, GMX34B, GMX35C; three samples from each boring)
 Submission #2000-03-0372 (3 total samples from boring GMX40C; three sample from each boring)

Pesticides: Submission #2000-03-0373 (9 total samples from borings GMX33B, GMX34B, GMX35C; three samples from each boring)
 Submission #2000-03-0372 (3 total samples from boring GMX40C; three sample from each boring)

Metals: Submission # 2000-03-0371 (12 total samples from borings GMX36C, GMX37C, GMX38C, GMX39C; three samples from each boring)
 Submission #2000-03-0373 (5 total samples from borings GMX33B, GMX34B; three samples from 33B and 2 samples from 34B)
 Submission #2000-03-0372 (3 total samples from boring GMX40C; three sample from each boring)

- It appears that we are missing Submission #2000-03-0371 for pesticides.
- I also wanted to point out that sample GMX40C-3.0 should be GMX40C-8.0.

Please let me know when I can expect the missing submission.

Thank you!

Oakland, CA • San Leandro, CA • Fresno, CA • Sacramento, CA • Costa Mesa, CA • Austin, TX • Houston, TX
 Minneapolis, MN • Detroit, MI • Buffalo, NY • Chicago, IL • Niagara Falls, ON • Kitchener-Waterloo, ON

CHAIN-OF-CUSTODY RECORD			№ 0989		Date: 3/20/00		Page 1 of 3														
Project No.: 6262			ANALYSES						REMARKS												
Samplers (Signatures): <i>Tom Gavigan</i> <i>Tim Dargatzis</i>			EPA Method 8010	EPA Method 8020	EPA Method 8020 (BTEX only)	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as metals (APDC, ZrO ₂ catalyst) (8220) (8230) (8240)										Additional Comments	
Date	Time	Sample Number																			
✓ 3/20/00	0826	GMX33C-1.0																			<p>1 1/2" x 6" stainless steel liner</p> <p style="font-size: 2em; font-weight: bold;">RUSH</p>
✓ 3/20/00	0828	GMX33C-4.0																			
✓		0831	GMX33C-7.0																		
✓		0856	GMX33B-1.0							✓	✓										
✓		0859	GMX33B-4.0							✓	✓										
✓		0903	GMX33B-7.0							✓	✓										
✓		0945	GMX34B-1.0							✓	✓										
✓		0952	GMX34B-4.0							✓	✓										
✓		0956	GMX34B-7.0							✓	✓										
✓		1016	GMX34C-1.0							✓	✓										
✓		1021	GMX34C-4.0							✓	✓										
✓		1027	GMX34C-7.0							✓	✓										
			Turnaround time: 24-hr TAT		Results to: Ann Holbrow		Total No. of containers: 12														
Relinquished by (signature): <i>Tom Gavigan</i>		Date: 3/20/00	Relinquished by (signature):		Date:	Relinquished by (signature):		Date:	Method of Shipment: Pickup at Warehouse												
Printed Name: TOM GAVIGAN		Time: 1715	Printed Name:		Time:	Printed Name:		Time:	Laboratory Comments and Log No.:												
Company: GEOMATRIX			Company:			Company:															
Received by (signature):		Date:	Received by (signature):		Date:	Received by (signature):		Date:													
Printed Name:		Time:	Printed Name:		Time:	Printed Name: ORISEVA		Time: 09:20													
Company:			Company:			Company: CH															

CHAIN-OF-CUSTODY RECORD

No 0975

Date: 3/20/00

Page 2 of 3

Project No.: 6262

ANALYSES

REMARKS

Samplers (Signatures):

Tom Gavigan
Tom Gavigan

Date	Time	Sample Number	EPA Method 8010	EPA Method 8020	EPA Method 8020 (BTEX only)	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	Title 32 Metals (6002, 7200, 8200, 8201, 8202, 8203)	Pesticides/PCBs (8001/8021)	HOLD	MS/MSD	Cooled	Soil (S), Water (W), or Vapor (V)	Acidified	Number of containers
	1153	GMX35C-4.0												X	S	N	1
	1202	GMX35E-7.0												X	S	N	1
	1220	GMX35B-1.0												X	S	N	1
	1225	GMX35B-4.0												X	S	N	1
	1227	GMX35B-7.0												X	S	N	1
	1310	GMX36A-1.0												X	S	N	1
	1317	GMX36A-4.0												X	S	N	1
	1321	GMX36A-7.0												X	S	N	1
	1351	GMX35A-1.0												X	S	N	1
	1355	GMX35A-4.0												X	S	N	1
	1400	GMX35A-7.0												X	S	N	1

Additional Comments

~~FD~~

1 1/2" x 6" stainless steel liner

RUCN

Turnaround time: 24 hours

Results to: Ann Holbrow

Total No. of containers: 12

Relinquished by (signature): *Tom Gavigan*

Printed Name: TOM GAVIGAN

Company: GEOMATRIX

Received by (signature):

Printed Name:

Company:

Date: 3/20/00

Time: 1715

Relinquished by (signature):

Printed Name:

Company:

Received by (signature):

Printed Name:

Company:

Date:

Time:

Relinquished by (signature):

Printed Name:

Company:

Date:

Time:

Received by (signature): *CRISTINA*

Printed Name: CRISTINA

Company: CL

Date:


Time:

Method of Shipment: PICKUP AT WAREHOUSE

Laboratory Comments and Log No.:

~~FD~~

03/20/00
09:30


GEOMATRIX

2000 03 03 73

10/16

CHAIN-OF-CUSTODY RECORD			№ 0985		Date: 3/20/00		Page 3 of 3											
Project No.: 6262			ANALYSES					REMARKS										
Samplers (Signatures):			EPA Method 8010	EPA Method 8020	EPA Method 8020 (BTEX only)	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	Titl (2) metals (6025, 7000 series) Residues / PCBs (8021/2025)	Hold	MS/MSD	Cooled	Soil (S), Water (W), or Vapor (V)	Acidified	Number of containers	Additional Comments	
Date	Time	Sample Number																
3/20/00	1439	GMX34A-1.0									✓		X	S	N	1	<div style="font-size: 2em; font-weight: bold; text-align: center;">RUSH</div>	
	1444	GMX34A-4.0								✓			X	S	N	1		
	1449	GMX34A-7.0								✓			X	S	N	1		
	1505	GMX33A-1.0								✓			X	S	N	1		
	1511	GMX33A-4.0								✓			X	S	N	1		
	1515	GMX33A-7.0								✓			X	S	N	1		
			Turnaround time: 24 hours			Results to: Ann Holbrow			Total No. of containers: 6									
Relinquished by (signature): <i>Tom Gavigan</i>		Date: 3/20/00	Relinquished by (signature):		Date:	Relinquished by (signature):		Date:	Method of Shipment: PICK UP AT WAREHOUSE									
Printed Name: TOM GAVIGAN		Time: 1715	Printed Name:		Time:	Printed Name:		Time:	Laboratory Comments and Log No.:									
Company: GEOMATRIX			Company:			Company:												
Received by (signature):		Date:	Received by (signature):		Date:	Received by (signature):		Date:										
Printed Name:		Time:	Printed Name:		Time:	Printed Name:		Time:										
Company:			Company:			Company:												

ATTACHMENT D

Laboratory Analytical Results – TPHmo, PAHs, and VOCs

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

March 28, 2000

Ann Holbrow, Project Manager
Geomatrix Consultants, Inc.
2101 Webster Street, 12th Floor
Oakland, CA 94612

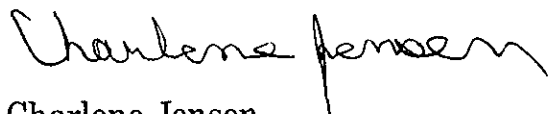
Dear Ms. Holbrow:

Included are the results from the testing of material submitted on March 21, 2000 from your 6262 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Jensen
Chemist

Enclosures
GMC0328R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 21, 2000 by Friedman & Bruya, Inc. from the Geomatrix Consultants, Inc. 6262 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Geomatrix Consultants</u>	<u>Laboratory ID</u>	<u>Geomatrix Consultants</u>
003118-01	GMX33A-1.5	003118-37	GMX39A-1.5
003118-02	GMX33A-4.0	003118-38	GMX39A-5.0
003118-03	GMX33A-8.5	003118-39	GMX39A-8.5
003118-04	GMX38B-5.0	003118-40	GMX37A-1.5
003118-05	GMX38B-1.5	003118-41	GMX37A-5.0
003118-06	GMX38B-8.5	003118-42	GMX37A-10.0
003118-07	GMX38C-1.5	003118-43	GMX33C-1.5
003118-08	GMX38C-5.0	003118-44	GMX33C-4.5
003118-09	GMX38C-8.5	003118-45	GMX33C-7.5
003118-10	GMX37B-1.5	003118-46	GMX33B-1.5
003118-11	GMX37B-5.0	003118-47	GMX33B-4.5
003118-12	GMX37B-8.5	003118-48	GMX33B-7.5
003118-13	GMX37C-1.5	003118-49	GMX34B-1.5
003118-14	GMX37C-5.0	003118-50	GMX34B-4.5
003118-15	GMX37C-8.5	003118-51	GMX34B-7.5
003118-16	GMX36B-1.5	003118-52	GMX34C-1.5
003118-17	GMX36B-5.0	003118-53	GMX34C-4.5
003118-18	GMX36B-8.5	003118-54	GMX34C-7.5
003118-19	GMX36C-1.5	003118-55	GMX35C-1.5
003118-20	GMX36C-5.0	003118-56	GMX35C-4.5
003118-21	GMX36C-8.5	003118-57	GMX35C-7.5
003118-22	GMX39C-1.5	003118-58	GMX35B-1.5
003118-23	GMX39C-5.0	003118-59	GMX35B-4.5
003118-24	GMX39C-8.5	003118-60	GMX35B-7.5
003118-25	GMX39B-1.5	003118-61	GMX36A-1.5
003118-26	GMX39B-5.0	003118-62	GMX36A-4.5
003118-27	GMX39B-8.5	003118-63	GMX36A-7.5
003118-28	GMX40C-1.5	003118-64	GMX35A-1.5
003118-29	GMX40C-5.0	003118-65	GMX35A-4.5
003118-30	GMX40C-8.5	003118-66	GMX35A-7.5
003118-31	GMX40B-1.5	003118-67	GMX34A-1.5
003118-32	GMX40B-5.0	003118-68	GMX34A-4.5
003118-33	GMX40B-8.5	003118-69	GMX34A-7.5
003118-34	GMX40A-1.5	003118-70	GMX33A-1.5
003118-35	GMX40A-5.0	003118-71	GMX33A-4.5
003118-36	GMX40A-8.5	003118-72	GMX33A-7.5

For analysis by method 8260B an internal standard was outside of normal acceptance criteria in several samples due to matrix interference. Results and/or reporting limits for affected analytes are reported as estimates. All other quality control requirements were within acceptable limits.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/28/00

Date Received: 03/21/00

Project: 6262

Date Extracted: 03/21/00

Date Analyzed: 03/22/00

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as $\mu\text{g/g}$ (ppm)**

<u>Sample ID</u> Laboratory ID	<u>Motor Oil Range</u>	<u>Surrogate</u> (% Recovery)
GMX38C-1.5 003118-07	410	99
GMX38C-5.0 003118-08	<50	92
GMX38C-8.5 003118-09	<50	91
GMX37C-1.5 003118-13	410	119
GMX37C-5.0 003118-14	<50	92
GMX37C-8.5 003118-15	<50	94
GMX36C-1.5 003118-19	240	136
GMX36C-5.0 003118-20	<50	92
GMX36C-8.5 003118-21	<50	97
GMX39C-1.5 003118-22	370	130
GMX39C-5.0 003118-23	<50	92
GMX39C-8.5 003118-24	<50	92

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/28/00
Date Received: 03/21/00
Project: 6262
Date Extracted: 03/21/00
Date Analyzed: 03/22/00

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M
Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as $\mu\text{g/g}$ (ppm)

<u>Sample ID</u> Laboratory ID	<u>Motor Oil Range</u>	<u>Surrogate</u> (% Recovery)
GMX40C-1.5 003118-28	340	96
GMX40C-5.0 003118-29	<50	92
GMX40C-8.5 003118-30	<50	99
GMX33B-1.5 003118-46	<50	102
GMX33B-4.5 003118-47	<50	99
GMX33B-7.5 003118-48	<50	91
GMX34B-1.5 003118-49	760	108
GMX34B-4.5 003118-50	<50	89
GMX34B-7.5 003118-51	<50	98
GMX35C-1.5 003118-55	210	115
GMX35C-4.5 003118-56	<50	100
GMX35C-7.5 003118-57	<50	105
Method Blank	<50	95
Method Blank	<50	90

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/28/00

Date Received: 03/21/00

Project: 6262

Date Extracted: 03/24/00

Date Analyzed: 03/24/00

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M

Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis

Results Reported as $\mu\text{g/g}$ (ppm)

<u>Sample ID</u> Laboratory ID	<u>Motor Oil Range</u>	<u>Surrogate</u> (% Recovery)
GMX39B-1.5 003118-25	150	109
GMX40B-1.5 003118-31	370	114
GMX40A-1.5 003118-34	75	113
Method Blank	<50	108

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: GMX38C-1.5
 Date Received: 03/21/00
 Date Extracted: 03/21/00
 Date Analyzed: 03/22/00
 Matrix: Soil
 Units: ug/kg (ppb)

Client: Geomatrix Consultants, Inc.
 Project: 6262
 Lab ID: 003118-07
 Data File: 032140.D
 Instrument: 5972 -Ins
 Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	110	50	150
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	117	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	73 lc	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	6
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	11
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

lc - The presence of the compound indicated is likely due to laboratory contamination.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: GMX38C-5.0	Client: Geomatrix Consultants, Inc.
Date Received: 03/21/00	Project: 6262
Date Extracted: 03/21/00	Lab ID: 003118-08
Date Analyzed: 03/22/00	Data File: 032141.D
Matrix: Soil	Instrument: 5972 -Ins
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	109	50	150
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	115	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	86 lc	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	<5
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

lc - The presence of the compound indicated is likely due to laboratory contamination.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: GMX38C-8.5
 Date Received: 03/21/00
 Date Extracted: 03/21/00
 Date Analyzed: 03/21/00
 Matrix: Soil
 Units: ug/kg (ppb)

Client: Geomatrix Consultants, Inc.
 Project: 6262
 Lab ID: 003118-09
 Data File: 032112.D
 Instrument: 5972 -Ins
 Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	102	50	150
1,2-Dichloroethane-d4	94	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	55 lc	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	<5
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

lc - The presence of the compound indicated is likely due to laboratory contamination.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID:	GMX37C-1.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-13
Date Analyzed:	03/22/00	Data File:	032143.D
Matrix:	Soil	Instrument:	5972 -Ins
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	111	50	150
1,2-Dichloroethane-d4	111	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	114	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	79 lc	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	<5
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

lc - The presence of the compound indicated is likely due to laboratory contamination.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: GMX37C-5.0
 Date Received: 03/21/00
 Date Extracted: 03/21/00
 Date Analyzed: 03/21/00
 Matrix: Soil
 Units: ug/kg (ppb)

Client: Geomatrix Consultants, Inc.
 Project: 6262
 Lab ID: 003118-14
 Data File: 032114.D
 Instrument: 5972 -Ins
 Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	112	50	150
1,2-Dichloroethane-d4	111	50	150
Toluene-d8	104	50	150
4-Bromofluorobenzene	108	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	60 lc	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	<5
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

lc - The presence of the compound indicated is likely due to laboratory contamination.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: GMX37C-8.5	Client: Geomatrix Consultants, Inc.
Date Received: 03/21/00	Project: 6262
Date Extracted: 03/21/00	Lab ID: 003118-15
Date Analyzed: 03/21/00	Data File: 032115.D
Matrix: Soil	Instrument: 5972 -Ins
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	105	50	150
1,2-Dichloroethane-d4	108	50	150
Toluene-d8	103	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	<50	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	<5
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID:	GMX36C-1.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-19
Date Analyzed:	03/21/00	Data File:	032116.D
Matrix:	Soil	Instrument:	5972 -Ins
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	111	50	150
1,2-Dichloroethane-d4	108	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	116 I	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	59 lc	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5 I
2,2-Dichloropropane	<5	Bromobenzene	<5 I
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5 I
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5 I
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5 I
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5 I
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5 I
1,1-Dichloropropene	<5	tert-Butylbenzene	<5 I
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5 I
Benzene	<5	sec-Butylbenzene	<5 I
Trichloroethene	<5	p-Isopropyltoluene	<5 I
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5 I
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5 I
Dibromomethane	<5	1,2-Dichlorobenzene	<5 I
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5 I
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5 I
Toluene	<5	Hexachlorobutadiene	<5 I
trans-1,3-Dichloropropene	<5	Naphthalene	<5 I
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5 I
2-Hexanone	<50		
1,3-Dichloropropane	<5		

lc - The presence of the compound indicated is likely due to laboratory contamination.

I - The internal standard associated with the analyte is out of control limits. The reporting limit or reported concentration is an estimate.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: GMX36C-5.0
 Date Received: 03/21/00
 Date Extracted: 03/21/00
 Date Analyzed: 03/21/00
 Matrix: Soil
 Units: ug/kg (ppb)

Client: Geomatrix Consultants, Inc.
 Project: 6262
 Lab ID: 003118-20
 Data File: 032117.D
 Instrument: 5972 -Ins
 Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	114	50	150
1,2-Dichloroethane-d4	109	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	114 I	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	70 lc	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5 I
2,2-Dichloropropane	<5	Bromobenzene	<5 I
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5 I
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5 I
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5 I
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5 I
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5 I
1,1-Dichloropropene	<5	tert-Butylbenzene	<5 I
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5 I
Benzene	<5	sec-Butylbenzene	<5 I
Trichloroethene	<5	p-Isopropyltoluene	<5 I
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5 I
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5 I
Dibromomethane	<5	1,2-Dichlorobenzene	<5 I
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5 I
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5 I
Toluene	<5	Hexachlorobutadiene	<5 I
trans-1,3-Dichloropropene	<5	Naphthalene	<5 I
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5 I
2-Hexanone	<50		
1,3-Dichloropropane	<5		

lc - The presence of the compound indicated is likely due to laboratory contamination.

I - The internal standard associated with the analyte is out of control limits. The reporting limit or reported concentration is an estimate.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: GMX36C-8.5	Client: Geomatrix Consultants, Inc.
Date Received: 03/21/00	Project: 6262
Date Extracted: 03/21/00	Lab ID: 003118-21
Date Analyzed: 03/21/00	Data File: 032118.D
Matrix: Soil	Instrument: 5972 -Ins
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	108	50	150
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	103	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	74 lc	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	<5
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

lc - The presence of the compound indicated is likely due to laboratory contamination.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: GMX39C-1.5	Client: Geomatrix Consultants, Inc.
Date Received: 03/21/00	Project: 6262
Date Extracted: 03/21/00	Lab ID: 003118-22
Date Analyzed: 03/21/00	Data File: 032119.D
Matrix: Soil	Instrument: 5972 -Ins
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	109	50	150
1,2-Dichloroethane-d4	109	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	109	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	<50	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	<5
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: GMX39C-5.0	Client: Geomatrix Consultants, Inc.
Date Received: 03/21/00	Project: 6262
Date Extracted: 03/21/00	Lab ID: 003118-23
Date Analyzed: 03/21/00	Data File: 032120.D
Matrix: Soil	Instrument: 5972 -Ins
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	110	50	150
1,2-Dichloroethane-d4	110	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	109	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	56 lc	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	<5
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

lc - The presence of the compound indicated is likely due to laboratory contamination.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: GMX39C-8.5	Client: Geomatrix Consultants, Inc.
Date Received: 03/21/00	Project: 6262
Date Extracted: 03/21/00	Lab ID: 003118-24
Date Analyzed: 03/21/00	Data File: 032121.D
Matrix: Soil	Instrument: 5972 -Ins
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	112	50	150
1,2-Dichloroethane-d4	110	50	150
Toluene-d8	104	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	60 lc	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	<5
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

lc - The presence of the compound indicated is likely due to laboratory contamination.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID:	GMX40C-1.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-28
Date Analyzed:	03/22/00	Data File:	032149.D
Matrix:	Soil	Instrument:	5972 -Ins
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	116	50	150
1,2-Dichloroethane-d4	112	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	120 I	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	120 lc	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5 I
2,2-Dichloropropane	<5	Bromobenzene	<5 I
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	13 I
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5 I
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5 I
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5 I
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5 I
1,1-Dichloropropene	<5	tert-Butylbenzene	<5 I
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	22 I
Benzene	<5	sec-Butylbenzene	<5 I
Trichloroethene	<5	p-Isopropyltoluene	<5 I
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5 I
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5 I
Dibromomethane	<5	1,2-Dichlorobenzene	<5 I
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5 I
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5 I
Toluene	<5	Hexachlorobutadiene	<5 I
trans-1,3-Dichloropropene	<5	Naphthalene	11 I
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5 I
2-Hexanone	<50		
1,3-Dichloropropane	<5		

lc - The presence of the compound indicated is likely due to laboratory contamination.

I - The internal standard associated with the analyte is out of control limits. The reporting limit or reported concentration is an estimate.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID:	GMX40C-5.0	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-29
Date Analyzed:	03/22/00	Data File:	032129.D
Matrix:	Soil	Instrument:	5972 -Ins
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	108	50	150
1,2-Dichloroethane-d4	109	50	150
Toluene-d8	103	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	<50	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	<5
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID:	GMX40C-8.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-30
Date Analyzed:	03/22/00	Data File:	032130.D
Matrix:	Soil	Instrument:	5972 -Ins
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	110	50	150
1,2-Dichloroethane-d4	109	50	150
Toluene-d8	108	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	54 lc	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	<5
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

lc - The presence of the compound indicated is likely due to laboratory contamination.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: GMX33B-1.5
 Date Received: 03/21/00
 Date Extracted: 03/21/00
 Date Analyzed: 03/22/00
 Matrix: Soil
 Units: ug/kg (ppb)

Client: Geomatrix Consultants, Inc.
 Project: 6262
 Lab ID: 003118-46
 Data File: 032131.D
 Instrument: 5972 -Ins
 Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	112	50	150
1,2-Dichloroethane-d4	110	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	111	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	55 lc	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	<5
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

lc - The presence of the compound indicated is likely due to laboratory contamination.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: GMX33B-4.5
 Date Received: 03/21/00
 Date Extracted: 03/21/00
 Date Analyzed: 03/22/00
 Matrix: Soil
 Units: ug/kg (ppb)

Client: Geomatrix Consultants, Inc.
 Project: 6262
 Lab ID: 003118-47
 Data File: 032132.D
 Instrument: 5972 -Ins
 Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	109	50	150
1,2-Dichloroethane-d4	108	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	<50	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	<5
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID:	GMX33B-7.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-48
Date Analyzed:	03/22/00	Data File:	032133.D
Matrix:	Soil	Instrument:	5972 -Ins
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	112	50	150
1,2-Dichloroethane-d4	114	50	150
Toluene-d8	103	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	<50	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	<5
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: GMX34B-1.5	Client: Geomatrix Consultants, Inc.
Date Received: 03/21/00	Project: 6262
Date Extracted: 03/21/00	Lab ID: 003118-49
Date Analyzed: 03/22/00	Data File: 032134.D
Matrix: Soil	Instrument: 5972 -Ins
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	116	50	150
1,2-Dichloroethane-d4	114	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	116 I	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	55 lc	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5 I
2,2-Dichloropropane	<5	Bromobenzene	<5 I
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5 I
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5 I
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5 I
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5 I
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5 I
1,1-Dichloropropene	<5	tert-Butylbenzene	<5 I
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5 I
Benzene	<5	sec-Butylbenzene	<5 I
Trichloroethene	<5	p-Isopropyltoluene	<5 I
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5 I
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5 I
Dibromomethane	<5	1,2-Dichlorobenzene	<5 I
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5 I
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5 I
Toluene	<5	Hexachlorobutadiene	<5 I
trans-1,3-Dichloropropene	<5	Naphthalene	<5 I
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5 I
2-Hexanone	<50		
1,3-Dichloropropane	<5		

lc - The presence of the compound indicated is likely due to laboratory contamination.

I - The internal standard associated with the analyte is out of control limits. The reporting limit or reported concentration is an estimate.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: GMX34B-4.5
 Date Received: 03/21/00
 Date Extracted: 03/21/00
 Date Analyzed: 03/22/00
 Matrix: Soil
 Units: ug/kg (ppb)

Client: Geomatrix Consultants, Inc.
 Project: 6262
 Lab ID: 003118-50
 Data File: 032135.D
 Instrument: 5972 -Ins
 Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	113	50	150
1,2-Dichloroethane-d4	111	50	150
Toluene-d8	104	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	54 lc	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	<5
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

lc - The presence of the compound indicated is likely due to laboratory contamination.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: GMX34B-7.5
 Date Received: 03/21/00
 Date Extracted: 03/21/00
 Date Analyzed: 03/22/00
 Matrix: Soil
 Units: ug/kg (ppb)

Client: Geomatrix Consultants, Inc.
 Project: 6262
 Lab ID: 003118-51
 Data File: 032136.D
 Instrument: 5972 -Ins
 Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	110	50	150
1,2-Dichloroethane-d4	110	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	51 lc	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	<5
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

lc - The presence of the compound indicated is likely due to laboratory contamination.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: GMX35C-1.5
 Date Received: 03/21/00
 Date Extracted: 03/21/00
 Date Analyzed: 03/22/00
 Matrix: Soil
 Units: ug/kg (ppb)

Client: Geomatrix Consultants, Inc.
 Project: 6262
 Lab ID: 003118-55
 Data File: 032137.D
 Instrument: 5972 -Ins
 Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	109	50	150
1,2-Dichloroethane-d4	108	50	150
Toluene-d8	105	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5
Chloromethane	<5
Vinyl chloride	<5
Bromomethane	<5
Chloroethane	<5
Trichlorofluoromethane	<5
Acetone	<50
1,1-Dichloroethene	<5
Methylene chloride	<50
Methyl t-butyl ether (MTBE)	<5
trans-1,2-Dichloroethene	<5
1,1-Dichloroethane	<5
2,2-Dichloropropane	<5
cis-1,2-Dichloroethene	<5
Chloroform	<5
2-Butanone (MEK)	<50
1,2-Dichloroethane (EDC)	<5
1,1,1-Trichloroethane	<5
1,1-Dichloropropene	<5
Carbon Tetrachloride	<5
Benzene	<5
Trichloroethene	<5
1,2-Dichloropropane	<5
Bromodichloromethane	<5
Dibromomethane	<5
4-Methyl-2-pentanone	<50
cis-1,3-Dichloropropene	<5
Toluene	<5
trans-1,3-Dichloropropene	<5
1,1,2-Trichloroethane	<5
2-Hexanone	<50
1,3-Dichloropropane	<5

Compounds:	Concentration ug/kg (ppb)
Tetrachloroethene	<5
Dibromochloromethane	<5
1,2-Dibromoethane (EDB)	<5
Chlorobenzene	<5
Ethylbenzene	<5
1,1,1,2-Tetrachloroethane	<5
m,p-Xylene	<5
o-Xylene	<5
Styrene	<5
Isopropylbenzene	<5
Bromoform	<5
n-Propylbenzene	<5
Bromobenzene	<5
1,3,5-Trimethylbenzene	<5
1,1,2,2-Tetrachloroethane	<5
1,2,3-Trichloropropane	<5
2-Chlorotoluene	<5
4-Chlorotoluene	<5
tert-Butylbenzene	<5
1,2,4-Trimethylbenzene	<5
sec-Butylbenzene	<5
p-Isopropyltoluene	<5
1,3-Dichlorobenzene	<5
1,4-Dichlorobenzene	<5
1,2-Dichlorobenzene	<5
1,2-Dibromo-3-chloropropane	<5
1,2,4-Trichlorobenzene	<5
Hexachlorobutadiene	<5
Naphthalene	<5
1,2,3-Trichlorobenzene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: GMX35C-4.5
 Date Received: 03/21/00
 Date Extracted: 03/21/00
 Date Analyzed: 03/22/00
 Matrix: Soil
 Units: ug/kg (ppb)

Client: Geomatrix Consultants, Inc.
 Project: 6262
 Lab ID: 003118-56
 Data File: 032138.D
 Instrument: 5972 -Ins
 Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	111	50	150
1,2-Dichloroethane-d4	109	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	104 I	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	<50	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5 I
2,2-Dichloropropane	<5	Bromobenzene	<5 I
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5 I
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5 I
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5 I
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5 I
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5 I
1,1-Dichloropropene	<5	tert-Butylbenzene	<5 I
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5 I
Benzene	<5	sec-Butylbenzene	<5 I
Trichloroethene	<5	p-Isopropyltoluene	<5 I
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5 I
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5 I
Dibromomethane	<5	1,2-Dichlorobenzene	<5 I
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5 I
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5 I
Toluene	<5	Hexachlorobutadiene	<5 I
trans-1,3-Dichloropropene	<5	Naphthalene	<5 I
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5 I
2-Hexanone	<50		
1,3-Dichloropropane	<5		

I - The internal standard associated with the analyte is out of control limits. The reporting limit or reported concentration is an estimate.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: GMX35C-7.5	Client: Geomatrix Consultants, Inc.
Date Received: 03/21/00	Project: 6262
Date Extracted: 03/21/00	Lab ID: 003118-57
Date Analyzed: 03/22/00	Data File: 032139.D
Matrix: Soil	Instrument: 5972 -Ins
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	107	50	150
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	<50	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	<5
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID:	Method Blank	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	00-216 mb2
Date Analyzed:	03/21/00	Data File:	032107.D
Matrix:	Soil	Instrument:	5972 -Ins
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	102	50	150
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	93	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	<50	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	<5
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID:	Method Blank	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	00-219 mb
Date Analyzed:	03/21/00	Data File:	032109.D
Matrix:	Soil	Instrument:	5972 -Ins
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Dibromofluoromethane	103	50	150
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/kg (ppb)	Compounds:	Concentration ug/kg (ppb)
Dichlorodifluoromethane	<5	Tetrachloroethene	<5
Chloromethane	<5	Dibromochloromethane	<5
Vinyl chloride	<5	1,2-Dibromoethane (EDB)	<5
Bromomethane	<5	Chlorobenzene	<5
Chloroethane	<5	Ethylbenzene	<5
Trichlorofluoromethane	<5	1,1,1,2-Tetrachloroethane	<5
Acetone	<50	m,p-Xylene	<5
1,1-Dichloroethene	<5	o-Xylene	<5
Methylene chloride	<50	Styrene	<5
Methyl t-butyl ether (MTBE)	<5	Isopropylbenzene	<5
trans-1,2-Dichloroethene	<5	Bromoform	<5
1,1-Dichloroethane	<5	n-Propylbenzene	<5
2,2-Dichloropropane	<5	Bromobenzene	<5
cis-1,2-Dichloroethene	<5	1,3,5-Trimethylbenzene	<5
Chloroform	<5	1,1,2,2-Tetrachloroethane	<5
2-Butanone (MEK)	<50	1,2,3-Trichloropropane	<5
1,2-Dichloroethane (EDC)	<5	2-Chlorotoluene	<5
1,1,1-Trichloroethane	<5	4-Chlorotoluene	<5
1,1-Dichloropropene	<5	tert-Butylbenzene	<5
Carbon Tetrachloride	<5	1,2,4-Trimethylbenzene	<5
Benzene	<5	sec-Butylbenzene	<5
Trichloroethene	<5	p-Isopropyltoluene	<5
1,2-Dichloropropane	<5	1,3-Dichlorobenzene	<5
Bromodichloromethane	<5	1,4-Dichlorobenzene	<5
Dibromomethane	<5	1,2-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<5	1,2,4-Trichlorobenzene	<5
Toluene	<5	Hexachlorobutadiene	<5
trans-1,3-Dichloropropene	<5	Naphthalene	<5
1,1,2-Trichloroethane	<5	1,2,3-Trichlorobenzene	<5
2-Hexanone	<50		
1,3-Dichloropropane	<5		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX38C-1.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-07 1/10
Date Analyzed:	03/22/00	Data File:	032131.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	95	50	150
Benzo(a)anthracene-d12	115	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	<50
Anthracene	<50
Fluoranthene	<50
Pyrene	<50
Benz(a)anthracene	<50
Chrysene	53
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	<50
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	<50

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX38C-5.0	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-08
Date Analyzed:	03/21/00	Data File:	032114.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	67	50	150
Benzo(a)anthracene-d12	91	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX38C-8.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-09
Date Analyzed:	03/21/00	Data File:	032115.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	69	50	150
Benzo(a)anthracene-d12	89	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX37C-1.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-13 1/10
Date Analyzed:	03/22/00	Data File:	032132.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	96	50	150
Benzo(a)anthracene-d12	109	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	<50
Anthracene	<50
Fluoranthene	<50
Pyrene	<50
Benz(a)anthracene	<50
Chrysene	<50
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	<50
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	<50

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX37C-5.0	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-14
Date Analyzed:	03/21/00	Data File:	032116.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	70	50	150
Benzo(a)anthracene-d12	91	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX37C-8.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-15
Date Analyzed:	03/21/00	Data File:	032117.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	67	50	150
Benzo(a)anthracene-d12	89	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX36C-1.5	Client: Geomatrix Consultants, Inc.
Date Received: 03/21/00	Project: 6262
Date Extracted: 03/21/00	Lab ID: 003118-19 1/100
Date Analyzed: 03/22/00	Data File: 032204.D
Matrix: Soil	Instrument: GCMS#2
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	0 vo	50	150
Benzo(a)anthracene-d12	110	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<500
Acenaphthylene	<500
Acenaphthene	<500
Fluorene	<500
Phenanthrene	<500
Anthracene	<500
Fluoranthene	<500
Pyrene	<500
Benz(a)anthracene	<500
Chrysene	<500
Benzo(b)fluoranthene	<500
Benzo(k)fluoranthene	<500
Benzo(a)pyrene	<500
Indeno(1,2,3-cd)pyrene	<500
Dibenzo(a,h)anthracene	<500
Benzo(g,h,i)perylene	<500

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

vo - The value reported fell outside the control limits established for this analyte.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX36C-5.0	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-20
Date Analyzed:	03/21/00	Data File:	032118.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	70	50	150
Benzo(a)anthracene-d12	87	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX36C-8.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-21
Date Analyzed:	03/21/00	Data File:	032119.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	70	50	150
Benzo(a)anthracene-d12	90	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX39C-1.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-22 1/10
Date Analyzed:	03/22/00	Data File:	032134.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	100	50	150
Benzo(a)anthracene-d12	112	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	<50
Anthracene	<50
Fluoranthene	<50
Pyrene	<50
Benz(a)anthracene	<50
Chrysene	<50
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	<50
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	<50

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX39C-5.0	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-23
Date Analyzed:	03/21/00	Data File:	032120.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	67	50	150
Benzo(a)anthracene-d12	88	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX39C-8.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-24
Date Analyzed:	03/21/00	Data File:	032124.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	66	50	150
Benzo(a)anthracene-d12	90	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX39B-1.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/24/00	Lab ID:	003118-25 1/10
Date Analyzed:	03/24/00	Data File:	032406.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	99	50	150
Benzo(a)anthracene-d12	109	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	<50
Anthracene	<50
Fluoranthene	<50
Pyrene	<50
Benz(a)anthracene	<50
Chrysene	<50
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	<50
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	<50

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX40C-1.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-28 1/10
Date Analyzed:	03/22/00	Data File:	032135.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	96	50	150
Benzo(a)anthracene-d12	126	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	61
Phenanthrene	370
Anthracene	55
Fluoranthene	71
Pyrene	410
Benz(a)anthracene	170
Chrysene	340
Benzo(b)fluoranthene	77
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	140
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	120

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX40C-5.0	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-29
Date Analyzed:	03/21/00	Data File:	032125.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	76	50	150
Benzo(a)anthracene-d12	102	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX40C-8.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-30
Date Analyzed:	03/21/00	Data File:	032126.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	75	50	150
Benzo(a)anthracene-d12	98	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX40B-1.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/24/00	Lab ID:	003118-31 1/10
Date Analyzed:	03/24/00	Data File:	032407.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	104	50	150
Benzo(a)anthracene-d12	115	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	<50
Anthracene	<50
Fluoranthene	<50
Pyrene	<50
Benz(a)anthracene	<50
Chrysene	<50
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	<50
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	<50

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX40A-1.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/24/00	Lab ID:	003118-34 1/10
Date Analyzed:	03/24/00	Data File:	032408.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	109	50	150
Benzo(a)anthracene-d12	114	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	<50
Anthracene	<50
Fluoranthene	<50
Pyrene	<50
Benz(a)anthracene	<50
Chrysene	<50
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	<50
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	<50

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX33B-1.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-46 qc 1/10
Date Analyzed:	03/22/00	Data File:	032138.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	89	50	150
Benzo(a)anthracene-d12	105	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	<50
Anthracene	<50
Fluoranthene	<50
Pyrene	<50
Benz(a)anthracene	<50
Chrysene	<50
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	<50
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	<50

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX33B-4.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-47
Date Analyzed:	03/22/00	Data File:	032203.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	77	50	150
Benzo(a)anthracene-d12	110	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX33B-7.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-48 qc
Date Analyzed:	03/22/00	Data File:	032140.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	70	50	150
Benzo(a)anthracene-d12	104	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX34B-1.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-49 1/10
Date Analyzed:	03/22/00	Data File:	032136.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	92	50	150
Benzo(a)anthracene-d12	105	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	<50
Anthracene	<50
Fluoranthene	<50
Pyrene	<50
Benz(a)anthracene	<50
Chrysene	<50
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	<50
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	58

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX34B-4.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-50
Date Analyzed:	03/21/00	Data File:	032127.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	72	50	150
Benzo(a)anthracene-d12	102	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX34B-7.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-51
Date Analyzed:	03/21/00	Data File:	032128.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	73	50	150
Benzo(a)anthracene-d12	102	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX35C-1.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-55 1/10
Date Analyzed:	03/22/00	Data File:	032137.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	101	50	150
Benzo(a)anthracene-d12	114	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	<50
Anthracene	<50
Fluoranthene	<50
Pyrene	<50
Benz(a)anthracene	<50
Chrysene	<50
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	<50
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	<50

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX35C-7.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-57
Date Analyzed:	03/22/00	Data File:	032130.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	71	50	150
Benzo(a)anthracene-d12	100	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX35C-4.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	003118-56
Date Analyzed:	03/22/00	Data File:	032129.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	71	50	150
Benzo(a)anthracene-d12	102	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	Method Blank	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	mb 00-223
Date Analyzed:	03/21/00	Data File:	032112.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	69	50	150
Benzo(a)anthracene-d12	95	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	Method Blank	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/21/00	Lab ID:	mb 00-224
Date Analyzed:	03/21/00	Data File:	032113.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	69	50	150
Benzo(a)anthracene-d12	92	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	Method Blank	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/24/00	Lab ID:	mb2 00-224
Date Analyzed:	03/24/00	Data File:	032405.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	69	50	150
Benzo(a)anthracene-d12	99	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/28/00

Date Received: 03/21/00

Project: 6262

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M

Laboratory Code: 003118-48 (Duplicate) Silica gel

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Motor Oil	µg/g (ppm)	<50	<50	nm	0-20

Laboratory Code: 003118-48 (Matrix Spike) Silica gel

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	Relative Percent Difference
Motor Oil	µg/g (ppm)	500	<50	93	90	41-170	3

Laboratory Code: Laboratory Control Sample Silica gel

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	Relative Percent Difference
Motor Oil	µg/g (ppm)	500	88	92	59-138	4

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/28/00

Date Received: 03/21/00

Project: 6262

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M

Laboratory Code: 003118-47 (Duplicate) Silica gel

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Motor Oil	µg/g (ppm)	<50	<50	nm	0-20

Laboratory Code: 003118-47 (Matrix Spike) Silica gel

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	Relative Percent Difference
Motor Oil	µg/g (ppm)	500	<50	95	103	41-170	8

Laboratory Code: 003118-46 (Matrix Spike) Silica gel

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	Relative Percent Difference
Motor Oil	µg/g (ppm)	500	<50	107	90	41-170	17

Laboratory Code: Laboratory Control Sample Silica gel

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	Relative Percent Difference
Motor Oil	µg/g (ppm)	500	93	94	59-138	1

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/28/00

Date Received: 03/21/00

Project: 6262

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR VOLATILES BY EPA METHOD 8260B

Laboratory Code: 003118-20 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
1,1-Dichloroethene	µg/kg (ppb)	<5	<5	nm	0-20
Benzene	µg/kg (ppb)	<5	<5	nm	0-20
Trichloroethene	µg/kg (ppb)	<5	<5	nm	0-20
Toluene	µg/kg (ppb)	<5	<5	nm	0-20
Chlorobenzene	µg/kg (ppb)	<5	<5	nm	0-20
Methyl t-butyl ether (MTBE)	µg/kg (ppb)	<5	<5	nm	0-20

Laboratory Code: 003118-46 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
1,1-Dichloroethene	µg/kg (ppb)	50	<5	110	93	50-150	17
Benzene	µg/kg (ppb)	50	<5	103	90	50-150	14
Trichloroethene	µg/kg (ppb)	50	<5	91	83	50-150	10
Toluene	µg/kg (ppb)	50	<5	92	84	50-150	9
Chlorobenzene	µg/kg (ppb)	50	<5	88	79	50-150	11
Methyl t-butyl ether (MTBE)	µg/kg (ppb)	50	<5	97	97	50-150	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
1,1-Dichloroethene	µg/kg (ppb)	50	90	99	50-150	10
Benzene	µg/kg (ppb)	50	89	95	50-150	6
Trichloroethene	µg/kg (ppb)	50	86	92	50-150	7
Toluene	µg/kg (ppb)	50	80	86	50-150	8
Chlorobenzene	µg/kg (ppb)	50	84	91	50-150	8
Methyl t-butyl ether (MTBE)	µg/kg (ppb)	50	109	114	65-135	4

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/28/00

Date Received: 03/21/00

Project: 6262

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR VOLATILES BY EPA METHOD 8260B

Laboratory Code: 003118-47 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
1,1-Dichloroethene	µg/kg (ppb)	<5	<5	nm	0-20
Benzene	µg/kg (ppb)	<5	<5	nm	0-20
Trichloroethene	µg/kg (ppb)	<5	<5	nm	0-20
Toluene	µg/kg (ppb)	<5	<5	nm	0-20
Chlorobenzene	µg/kg (ppb)	<5	<5	nm	0-20
Methyl t-butyl ether (MTBE)	µg/kg (ppb)	<5	<5	nm	0-20

Laboratory Code: 003118-47 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
1,1-Dichloroethene	µg/kg (ppb)	50	<5	112	98	50-150	13
Benzene	µg/kg (ppb)	50	<5	99	99	50-150	0
Trichloroethene	µg/kg (ppb)	50	<5	92	93	50-150	1
Toluene	µg/kg (ppb)	50	<5	94	93	50-150	1
Chlorobenzene	µg/kg (ppb)	50	<5	91	95	50-150	4
Methyl t-butyl ether (MTBE)	µg/kg (ppb)	50	<5	96	108	50-150	12

Laboratory Code: 003118-48 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
1,1-Dichloroethene	µg/kg (ppb)	50	<5	117	122	50-150	4
Benzene	µg/kg (ppb)	50	<5	113	113	50-150	0
Trichloroethene	µg/kg (ppb)	50	<5	105	106	50-150	1
Toluene	µg/kg (ppb)	50	<5	106	106	50-150	0
Chlorobenzene	µg/kg (ppb)	50	<5	102	98	50-150	3
Methyl t-butyl ether (MTBE)	µg/kg (ppb)	50	<5	79	82	50-150	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
1,1-Dichloroethene	µg/kg (ppb)	50	95	106	50-150	10
Benzene	µg/kg (ppb)	50	95	100	50-150	6
Trichloroethene	µg/kg (ppb)	50	92	97	50-150	4
Toluene	µg/kg (ppb)	50	86	90	50-150	5
Chlorobenzene	µg/kg (ppb)	50	91	94	50-150	3
Methyl t-butyl ether (MTBE)	µg/kg (ppb)	50	113	114	65-135	1

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/28/00

Date Received: 03/21/00

Project: 6262

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR PNA'S BY EPA METHOD 8270C SIM

Laboratory Code: 003118-46 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD	Acceptance Criteria
Napthalene	µg/kg (ppb)	<50	<50	nm	0-20
Acenaphthylene	µg/kg (ppb)	<50	<50	nm	0-20
Acenaphthene	µg/kg (ppb)	<50	<50	nm	0-20
Fluorene	µg/kg (ppb)	<50	<50	nm	0-20
Phenanthrene	µg/kg (ppb)	<50	<50	nm	0-20
Anthracene	µg/kg (ppb)	<50	<50	nm	0-20
Fluoranthene	µg/kg (ppb)	<50	<50	nm	0-20
Pyrene	µg/kg (ppb)	<50	<50	nm	0-20
Benz(a)anthracene	µg/kg (ppb)	<50	<50	nm	0-20
Chrysene	µg/kg (ppb)	<50	<50	nm	0-20
Benzo(b)fluoranthene	µg/kg (ppb)	<50	<50	nm	0-20
Benzo(k)fluoranthene	µg/kg (ppb)	<50	<50	nm	0-20
Benzo(a)pyrene	µg/kg (ppb)	<50	<50	nm	0-20
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	<50	<50	nm	0-20
Dibenzo(a,h)anthracene	µg/kg (ppb)	<50	<50	nm	0-20
Benzo(g,h,i)perylene	µg/kg (ppb)	<50	<50	nm	0-20

Laboratory Code: 003118-46 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Napthalene	µg/kg (ppb)	170	<50	92	97	54-110	5
Acenaphthylene	µg/kg (ppb)	170	<50	94	98	58-114	4
Acenaphthene	µg/kg (ppb)	170	<50	90	93	58-112	3
Fluorene	µg/kg (ppb)	170	<50	87	93	59-113	7
Phenanthrene	µg/kg (ppb)	170	<50	93	93	62-110	0
Anthracene	µg/kg (ppb)	170	<50	83	94	61-111	12
Fluoranthene	µg/kg (ppb)	170	<50	95	103	63-114	8
Pyrene	µg/kg (ppb)	170	<50	99	108	59-110	9
Benz(a)anthracene	µg/kg (ppb)	170	<50	98	102	60-116	4
Chrysene	µg/kg (ppb)	170	<50	91	99	57-118	8
Benzo(b)fluoranthene	µg/kg (ppb)	170	<50	104	112	52-133	7
Benzo(k)fluoranthene	µg/kg (ppb)	170	<50	110	111	57-130	1
Benzo(a)pyrene	µg/kg (ppb)	170	<50	116	120	52-132	3
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	170	<50	87	94	54-112	8
Dibenzo(a,h)anthracene	µg/kg (ppb)	170	<50	85	91	50-121	7
Benzo(g,h,i)perylene	µg/kg (ppb)	170	<50	82	86	40-114	5

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/28/00

Date Received: 03/21/00

Project: 6262

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR PNA'S BY EPA METHOD 8270C SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Napthalene	µg/kg (ppb)	170	83	85	51-124	2
Acenaphthylene	µg/kg (ppb)	170	83	85	52-125	2
Acenaphthene	µg/kg (ppb)	170	83	86	57-122	4
Fluorene	µg/kg (ppb)	170	86	87	55-126	2
Phenanthrene	µg/kg (ppb)	170	77	81	59-126	5
Anthracene	µg/kg (ppb)	170	77	80	45-134	4
Fluoranthene	µg/kg (ppb)	170	80	87	56-132	8
Pyrene	µg/kg (ppb)	170	84	88	54-125	5
Benz(a)anthracene	µg/kg (ppb)	170	78	85	51-130	8
Chrysene	µg/kg (ppb)	170	74	80	57-125	8
Benzo(b)fluoranthene	µg/kg (ppb)	170	98	107	54-135	8
Benzo(k)fluoranthene	µg/kg (ppb)	170	100	108	52-141	7
Benzo(a)pyrene	µg/kg (ppb)	170	91	98	38-140	7
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	170	95	108	58-122	13
Dibenzo(a,h)anthracene	µg/kg (ppb)	170	92	108	58-130	16
Benzo(g,h,i)perylene	µg/kg (ppb)	170	98	109	54-124	11

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/28/00

Date Received: 03/21/00

Project: 6262

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR PNA'S BY EPA METHOD 8270C SIM**

Laboratory Code: 003118-48 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD	Acceptance Criteria
Napthalene	µg/kg (ppb)	<5	<5	nm	0-20
Acenaphthylene	µg/kg (ppb)	<5	<5	nm	0-20
Acenaphthene	µg/kg (ppb)	<5	<5	nm	0-20
Fluorene	µg/kg (ppb)	<5	<5	nm	0-20
Phenanthrene	µg/kg (ppb)	<5	<5	nm	0-20
Anthracene	µg/kg (ppb)	<5	<5	nm	0-20
Fluoranthene	µg/kg (ppb)	<5	<5	nm	0-20
Pyrene	µg/kg (ppb)	<5	<5	nm	0-20
Benz(a)anthracene	µg/kg (ppb)	<5	<5	nm	0-20
Chrysene	µg/kg (ppb)	<5	<5	nm	0-20
Benzo(b)fluoranthene	µg/kg (ppb)	<5	<5	nm	0-20
Benzo(k)fluoranthene	µg/kg (ppb)	<5	<5	nm	0-20
Benzo(a)pyrene	µg/kg (ppb)	<5	<5	nm	0-20
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	<5	<5	nm	0-20
Dibenzo(a,h)anthracene	µg/kg (ppb)	<5	<5	nm	0-20
Benzo(g,h,i)perylene	µg/kg (ppb)	<5	<5	nm	0-20

Laboratory Code: 003118-47 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Napthalene	µg/kg (ppb)	170	<5	88	87	54-110	1
Acenaphthylene	µg/kg (ppb)	170	<5	90	91	58-114	2
Acenaphthene	µg/kg (ppb)	170	<5	86	86	58-112	0
Fluorene	µg/kg (ppb)	170	<5	90	91	59-113	1
Phenanthrene	µg/kg (ppb)	170	<5	80	83	62-110	3
Anthracene	µg/kg (ppb)	170	<5	78	82	61-111	5
Fluoranthene	µg/kg (ppb)	170	<5	86	90	63-114	4
Pyrene	µg/kg (ppb)	170	<5	86	93	59-110	7
Benz(a)anthracene	µg/kg (ppb)	170	<5	89	87	60-116	1
Chrysene	µg/kg (ppb)	170	<5	80	81	57-118	2
Benzo(b)fluoranthene	µg/kg (ppb)	170	<5	107	112	52-133	5
Benzo(k)fluoranthene	µg/kg (ppb)	170	<5	97	94	57-130	3
Benzo(a)pyrene	µg/kg (ppb)	170	<5	99	100	52-132	1
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	170	<5	93	95	54-112	3
Dibenzo(a,h)anthracene	µg/kg (ppb)	170	<5	93	95	50-121	3
Benzo(g,h,i)perylene	µg/kg (ppb)	170	<5	84	88	40-114	4

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/28/00

Date Received: 03/21/00

Project: 6262

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR PNA'S BY EPA METHOD 8270C SIM

Laboratory Code: 003118-48 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Napthalene	µg/kg (ppb)	170	<5	88	85	54-110	3
Acenaphthylene	µg/kg (ppb)	170	<5	91	91	58-114	0
Acenaphthene	µg/kg (ppb)	170	<5	87	88	58-112	1
Fluorene	µg/kg (ppb)	170	<5	91	92	59-113	0
Phenanthrene	µg/kg (ppb)	170	<5	84	85	62-110	2
Anthracene	µg/kg (ppb)	170	<5	83	84	61-111	1
Fluoranthene	µg/kg (ppb)	170	<5	90	90	63-114	0
Pyrene	µg/kg (ppb)	170	<5	91	93	59-110	2
Benz(a)anthracene	µg/kg (ppb)	170	<5	83	82	60-116	1
Chrysene	µg/kg (ppb)	170	<5	83	82	57-118	1
Benzo(b)fluoranthene	µg/kg (ppb)	170	<5	112	108	52-133	3
Benzo(k)fluoranthene	µg/kg (ppb)	170	<5	95	105	57-130	10
Benzo(a)pyrene	µg/kg (ppb)	170	<5	102	102	52-132	0
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	170	<5	94	94	54-112	0
Dibenzo(a,h)anthracene	µg/kg (ppb)	170	<5	94	95	50-121	1
Benzo(g,h,i)perylene	µg/kg (ppb)	170	<5	88	86	40-114	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Napthalene	µg/kg (ppb)	170	87	85	51-124	2
Acenaphthylene	µg/kg (ppb)	170	87	86	52-125	1
Acenaphthene	µg/kg (ppb)	170	88	85	57-122	3
Fluorene	µg/kg (ppb)	170	89	87	55-126	2
Phenanthrene	µg/kg (ppb)	170	83	84	59-126	1
Anthracene	µg/kg (ppb)	170	84	83	45-134	2
Fluoranthene	µg/kg (ppb)	170	85	87	56-132	2
Pyrene	µg/kg (ppb)	170	87	88	54-125	2
Benz(a)anthracene	µg/kg (ppb)	170	82	83	51-130	1
Chrysene	µg/kg (ppb)	170	78	80	57-125	2
Benzo(b)fluoranthene	µg/kg (ppb)	170	110	113	54-135	2
Benzo(k)fluoranthene	µg/kg (ppb)	170	100	101	52-141	2
Benzo(a)pyrene	µg/kg (ppb)	170	96	99	38-140	3
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	170	106	107	58-122	1
Dibenzo(a,h)anthracene	µg/kg (ppb)	170	102	104	58-130	2
Benzo(g,h,i)perylene	µg/kg (ppb)	170	107	111	54-124	3

Chain-of-Custody Record

003839

Date

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 63126/00 Page 1 of 2

Project No. 0362

Sampler (Signature)


James M. Carolan

ANALYSES

REMARKS

Date	Time	Sample Number	EPA Method 802* (Full Scan)	EPA Method 802* (HAI, VOCs only)	EPA Method 802* (BTEX only)	EPA Method 8260	EPA Method 827C (Full Scan)	EPA Method 8270 SIM (PAHS only)	Method 8015M (Gasoline)	Method 8015M (Diesel)	Method 8015M (Motor Oil)	Silica Gel Cleanup	PAHS (827C SIM)	HOLD	n ₂ /m ³ D	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preserved	Cooled	No. of Containers	Additional Comments	
03/24/02	0922	Cmx33A-1.5												X	X	S			X	1	1 2" x 6" ss liner	01
	0935	Cmx33A-4.0												X		S			X	1	1 1 5/8" x 6" ss liner	02
	0945	Cmx33A-8.5												X		S			X	1	1 1 5/8" x 6" ss liner	03
	0945	Cmx33B-5.0												X		S			X	1	1 1 5/8" x 6" ss liner	04
	0945	Cmx33B-1.5												X		S			X	1	1 2" x 6" ss liner	05
	0930	Cmx33B-8.5												X	X	S			X	1	1 1 5/8" x 6" ss liner	06
	0945	Cmx33C-1.5				X				X	X	X				S			X	1	1 2" x 6" ss liner	07
	0950	Cmx33C-5.0				X				X	X	X				S			X	1	1 1 5/8" x 6" ss liner	08
	0955	Cmx33C-8.5				X				X	X	X				S			X	1	1 1 5/8" x 6" ss liner	09
	1000	Cmx37B-1.5												X	X	S			X	1	1 2" x 6" ss liner	10
	1015	Cmx37B-5.0												X		S			X	1	1 1 5/8" x 6" ss liner	11
	1020	Cmx37B-8.5												X		S			X	1	1 1 5/8" x 6" ss liner	12
	1035	Cmx37C-1.5				X				X	X	X				S			X	1	1 2" x 6" ss liner	13
	1045	Cmx37C-5.0				X				X	X	X				S			X	1	1 1 5/8" x 6" ss liner	14
	1050	Cmx37C-8.5				X				X	X	X				S			X	1	1 1 5/8" x 6" ss liner	15

Laboratory: Friedman & Bruyis
 Turnaround Time: 24 hours / 48 hours (PAHS)
 Results to: Ann Holbrook
 Total No. of Containers: 15

Relinquished by (Signature): James M. Carolan	Date: 3/24/02	Relinquished by (Signature):	Date:	Relinquished by (Signature):	Date:	Method of Shipment: Fed Ex 9136 2240 0644 Laboratory Comments and Log No.:
Printed Name: James M. Carolan	Time: 1615	Printed Name:	Time:	Printed Name:	Time:	
Company: Geomatrix		Company:		Company:		
Received by (Signature): Kate Traflet	Date: 3-21-02	Received by (Signature):	Date:	Received by (Signature):	Date:	 Geomatrix Consultants 2101 Webster Street 12th Floor - Oakland CA 94612 Phone 510-663-4100 - Fax 510-663-4141
Printed Name: Kate Traflet	Time: 930A	Printed Name:	Time:	Printed Name:	Time:	
Company: FBI		Company:		Company:		

Chain-of-Custody Record

003799

Date

03/26/00

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3 2100 2 of 7
BT


ANALYSES

REMARKS

Sample Information			ANALYSES											REMARKS								
Date	Time	Sample Number	EPA Method 802* (Full Scan)	EPA Method 802* (Hal VOCs only)	EPA Method 802* (BTEX only)	EPA Method 826*	EPA Method 827* (Full Scan)	EPA Method 827* SIM (PAHS only)	Method 8015M (Gasoline)	Method 8015M (Diesel)	Method 8015M (Motor Oil)	Silica Gel Cleanup	PAHS (BTEX SIM)	HOLD	MS/IN-D	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preserved	Cooled	No. of Containers	Additional Comments	
3/26/00	1100	CINX303-1.5												X		S			X	1	1 2" x 6" ss liner	16
	1110	CINX303-5.0												X		S			X	1	1 5/8" x 6" ss liner	17
	1120	CINX303-8.5												X		S			X	1	1 5/8" x 6" ss liner	18
	1155	CINX300-1.5				X					X	X	X			S			X	1	1 2" x 6" ss liner	19
	1205	CINX300-5.0				X					X	X	X			S			X	1	1 5/8" x 6" ss liner	20
	1215	CINX300-8.5				X					X	X	X			S			X	1	1 5/8" x 6" ss liner	21
	1225	CINX310-1.5				X					X	X	X			S			X	1	1 2" x 6" ss liner	22
	1235	CINX310-5.0				X					X	X	X			S			X	1	1 5/8" x 6" ss liner	23
	1240	CINX310-8.5				X					X	X	X			S			X	1	1 5/8" x 6" ss liner	24

* For information 3-21-00

James M. Gaudin 03/26/00

Laboratory Friedman & Binger		Turnaround Time: 24 hr / 48 hr (PAHS)		Results to: Ann Holbrow		Total No. of Containers 9	
Relinquished by (Signature): <i>James M. Gaudin</i>	Date: 3/26/00	Relinquished by (Signature):	Date:	Relinquished by (Signature):	Date:	Method of Shipment: Fed Ex 8136 2240 0644	
Printed Name: Jim Gaudin	Time: 1615	Printed Name:	Time:	Printed Name:	Time:	Laboratory Comments and Log No.:	
Company: Geometrix		Company:		Company:			
Received by (Signature): <i>Kate Traylor</i>	Date: 3/21	Received by (Signature):	Date:	Received by (Signature):	Date:	 Geometrix Consultants 2101 Webster Street, 12th Floor • Oakland CA 94612 Phone 510 663-4100 • Fax 510 663 4141	
Printed Name: Kate Traylor	Time: 730	Printed Name:	Time:	Printed Name:	Time:		
Company: FBI		Company:		Company:			

Chain-of-Custody Record

003793

Date: 3/20/00

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Project No: 6262

Samplers (Signature):
Janis M Carolan
Jim Trafton

ANALYSES

REMARKS

Date	Time	Sample Number	EPA Method 8021 (Full Scan)	EPA Method 8021 (Hal VOCs only)	EPA Method 8021 (BTEX only)	EPA Method 8260	EPA Method 8270 (Full Scan)	EPA Method 8270 SIM (PAHS only)	Method 8015M (Gasoline)	Method 8015M (Diesel)	Method 8015M (Motor Oil)	Silica Gel Cleanup	PAHS (8270 SIM)	HOLD	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preserved	Cooled	No. of Containers	Additional Comments	
3/20/00	1300	6MX39B-1.5													S			X	1	1 2" x 6" ss line	25
	1306	6MX39B-5.0													S			X	1	1 1 1/2" x 6" ss line	26
	1316	6MX39B-8.5													S			X	1	1 1 1/2" x 6" ss line	27
	1327	6MX40C-1.5				Y				X	X	X			S			X	1	1 2" x 6" ss line	28
	1332	6MX40C-5.0				Y				X	X	X			S			X	1	1 1 1/2" x 6" ss line	29
	1341	6MX40C-8.5				X				X	X	X			S			X	1	1 1 1/2" x 6" ss liner	30
	1356	6MX40B-1.5											✓	✓	S			X	1	1 2" x 6" ss liner	31
	1403	6MX40B-5.0													S			X	1	1 1 1/2" x 6" ss line	32
	1410	6MX40B-8.5													S			X	1	1 1 1/2" x 6" ss line	33
	1431	6MX40A-1.5											✓	✓	S			X	1	1 2" x 6" ss line	34
	1435	6MX40A-5.0													S			X	1	1 1 1/2" x 6" ss liner	35
	1440	6MX40A-8.5													S			X	1	1 1 1/2" x 6" ss line	36
	1445	6MX39A-1.5													S			X	1	1 2" x 6" ss line	37
	1450	6MX39A-5.0													S			X	1	1 1 1/2" x 6" ss liner	38
	1450	6MX39A-8.5													S			X	1	1 1 1/2" x 6" ss liner	39

Laboratory: Friedman & Bruya

Turnaround Time: 24 hr / 48 hours (PAHS)

Results to: Ann Holbrook

Total No. of Containers: 15

Relinquished by (Signature): *Janis M Carolan*
 Printed Name: Geomatrix
 Company: Jim Carolan

Date: 3/20/00
 Time: 1620


Relinquished by (Signature):
 Printed Name:
 Company:

Date: Method of Shipment:
 Time: Fed Ex: 8136 2240 0644
 Laboratory Comments and Log No.:

Received by: *Kate Trafton*
 Printed Name: Kate Trafton
 Company: FBI

Date: 21 March
 Time: 1006

Received by:
 Printed Name:
 Company:

Date:
 Time:

Geomatrix Consultants
 2101 Webster Street, 12th Floor • Oakland, CA 94612
 Phone: 510-663-4100 • Fax: 510-663-4141

003118

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CJ 03/21/00 *BJ*

Chain-of-Custody Record

003802

Date: 03/20/00

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Project No 6262

ANALYSES

REMARKS

Samplers (Signature)
Jane M Carole

Date	Time	Sample Number	EPA Method 8021 (Full Scan)	EPA Method 8021 (Hal. VOCs only)	EPA Method 8021 (BTEX only)	EPA Method 8260	EPA Method 8270 (Full Scan)	EPA Method 8270 SIM (PAHS only)	Method 8015M (Gasoline)	Method 8015M (Diesel)	Method 8015M (Motor Oil)	Silica Gel Cleanup	PAHS (8270 SIM)	HOLD	Soil (S), Water (W) Vapor (V), or Other (O)	Filtered	Preserved	Cooled	No. of Containers	Additional Comments	
3/20/00	1510	GMX37A-1.5													S			X	1	1 2"x6" ss line	40
4	1515	GMX37A-5.0													S			X	1	1 1 5/8"x6" ss line	41
1	1540	GMX37A-10.0													S			X	1	1 1 5/8"x6" ss line	42

Jane M Carole
3/20/00

Laboratory: *Friedman & Bruys*

Turnaround Time: 24 hrs / 48 hrs (PAHS)

Results to: *Am Holbrow*

Total No. of Containers: 3

Relinquished by (Signature): *Jane M Carole*
Printed Name: *Jim Carolan*

Date: 3/20/00
Time: 1:50
Relinquished by (Signature):
Printed Name:
Company:


Date:
Time:
Relinquished by (Signature):
Printed Name:
Company:

Date:
Time:
Method of Shipment: *Fed Ex: 5136 2240 0694*
Laboratory Comments and Log No.:

Company: *Geomatrix*
Received by: *Kate Trafton*
Printed Name: *Kate Trafton*
Company: *FBj*

Date: 2/1/00
Time: 10:00
Received by:
Printed Name:
Company:

Date:
Time:
Received by:
Printed Name:
Company:

Date:
Time:
**Geomatrix Consultants**
2101 Webster Street, 12th Floor • Oakland, CA 94612
Phone: 510-663-4100 • Fax: 510-663-4141

CHAIN-OF-CUSTODY RECORD

N^o 0988

Date 3/20/00

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Project No 6262

ANALYSES

REMARKS

Samplers (Signatures)

Tom Gavagan
Kate Traffan

EPA Method 8010

EPA Method 8020

EPA Method 8020 (BTEX only)

EPA Method 8240

EPA Method 8270

TPH as gasoline

TPH as diesel

PAHs (EPA 5.0)

VOCs + MIBK

METHOD 8150

TPH MOTOR OIL

METHOD 8151M

PH

MS/MSD

Cooled

Soil (S), Water (W), or Vapor (V)

Acidified

Number of containers

Additional Comments

Please perform silica gel cleanup prior to TPH motor oil analysis.

43✓
44✓
45✓
46✓
47✓
48✓
49✓
50✓
51✓
52✓
53✓
54✓

Date	Time	Sample Number	EPA Method 8010	EPA Method 8020	EPA Method 8020 (BTEX only)	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	PAHs (EPA 5.0)	VOCs + MIBK	METHOD 8150	TPH MOTOR OIL	METHOD 8151M	PH	MS/MSD	Cooled	Soil (S), Water (W), or Vapor (V)	Acidified	Number of containers
3/20/00	0835	Gmx33C-1.5													X		X	S	N	1
3/20/00	0827	Gmx33C-4.5													X		X	S	N	1
	0830	Gmx33C-7.5													X		X	S	N	1
	0855	Gmx33B-1.5								X	X	X				X	X	S	N	1
	0858	Gmx33B-4.5								X	X	X				X	X	S	N	1
	0903	Gmx33B-7.5								X	X	X				X	X	S	N	1
	0916	Gmx34B-1.5								X	X	X				X	X	S	N	1
	0953	Gmx34B-4.5								X	X	X				X	X	S	N	1
	0957	Gmx34B-7.5								X	X	X				X	X	S	N	1
	1017	Gmx34C-1.5													X		X	S	N	1
	1032	Gmx34C-4.5													X		X	S	N	1
	1038	Gmx34C-7.5													X		X	S	N	1

1 1/2" x 6" stainless steel liner

Turnaround time: 24 hrs / 48 hrs (AUB)

Results to: *Anna Holbrow*

Total No. of containers: 12

Relinquished by (signature):

Tom Gavagan

Printed Name

Tom Gavagan

Company:

Geomatrix

Received by (signature):

Kate Traffan

Printed Name

Kate Traffan

Company:

FBi

Date:

3/20/00

Time:

1700

Relinquished by (signature):

Printed Name:

Company:

Date:

Time:

Relinquished by (signature):

Printed Name:

Company:

Date:

Time:

Method of Shipment:

Tracking No. Federal Express 8136 2240 0644


Laboratory Comments and Log No.:



F+B 803118

CT 3.21.00

BI 6/7

CHAIN-OF-CUSTODY RECORD				No 0986		Date: 3/20/00		Page 2 of 3												
Project No.: 6262				ANALYSES						REMARKS										
Samplers (Signatures): <i>Tom Gavigan</i>				EPA Method 8010	EPA Method 8020	EPA Method 8020 (BTEX only)	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	PAHs (8270 Slms) VOLS + MUSE	METHODS 8260	TPH Motor oil Method 825M	Hold	MS/MSD	Cooled	Soil (S), Water (W), or Vapor (V)	Acidified	Number of containers	Additional Comments
Date	Time	Sample Number																		
55✓	3/20/00	1153	GMX35C-1.5								X	X	X			X	S	N	1	Please perform silica gel cleanup prior to TPH motor oil analysis 1 1/2" x 6" stainless steel liner
56✓		1159	GMX35E-4.5							X	X	X			X	S	N	1		
57✓		1203	GMX35E-7.5							X	X	X			X	S	N	1		
58✓		1221	GMX35B-1.5							X	X	X		X	X	S	N	1		
59✓		1226	GMX35B-4.5							X	X	X		X	X	S	N	1		
60✓		1228	GMX35B-7.5							X	X	X		X	X	S	N	1		
61✓		1311	GMX36A-1.5							X	X	X		X	X	S	N	1		
62✓		1318	GMX36A-4.5							X	X	X		X	X	S	N	1		
63✓		1322	GMX36A-7.5							X	X	X		X	X	S	N	1		
64✓		1352	GMX35A-1.5							X	X	X		X	X	S	N	1		
65✓		1356	GMX35A-4.5							X	X	X		X	X	S	N	1		
66✓		1401	GMX35A-7.5							X	X	X		X	X	S	N	1		
Turnaround time: 24 hours / 48 hours (PAHs)				Results to: ANN Holbrow				Total No. of containers: 12												
Relinquished by (signature): <i>Tom Gavigan</i>		Date: 3/20/00	Relinquished by (signature):		Date:	Relinquished by (signature):		Date:	Method of Shipment: Tracking No. Federal Express 8136 2740 0644		Laboratory Comments and Log No.:									
Printed Name: TOM GAVIGAN		Time: 1700	Printed Name:		Time:	Printed Name:		Time:												
Company: GEOMETRIX			Company:			Company:														
Received by (signature): <i>Kate Trafton</i>		Date:	Received by (signature):		Date:	Received by (signature):		Date:												
Printed Name: KATE TRAFTON		Time:	Printed Name:		Time:	Printed Name:		Time:												
Company: FBI			Company:			Company:														

CHAIN-OF-CUSTODY RECORD

N^o 0987

Date 3/20/00

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Project No: 6202
 Samplers (Signatures):
 [Signatures]
 Date: 3/20/00
 Time: 1440
 Sample Number: 6MX3YA-1.5

ANALYSES

REMARKS

EPA Method 8010	EPA Method 8020	EPA Method 8020 (BTEX only)	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	PAHs (EPA 8210) Benzene, Toluene, Ethylbenzene, Xylenes, Methyl Ethyl Ketone, Method 8210C	TPH Method 8210C	TPH Method 8015M	MS/MSD	Cooled	Soil (S), Water (W) or Vapor (V)	Acidified	Number of containers
											X	S	N	1
											X	S	N	1
											X	S	N	1
											X	S	N	1
											X	S	N	1
											X	S	N	1

Additional Comments
 Please perform silica gel cleanup prior to TPH motor oil analysis
 1/2" x 6" stainless steel liner
 ↓

67
68
69
70
71
72

Turnaround time: 34 hours / 48 hours (PARTS)
 Results to: [Blank]
 Total No. of containers: 6

Relinquished by (signature): [Signature]
 Printed Name: ION GALIGAN
 Company: GEOMATRIX

Date: 3/20/00
 Time: 1700
 Relinquished by (signature):
 Printed Name:
 Company:


Date:
 Relinquished by (signature):
 Printed Name:
 Company:

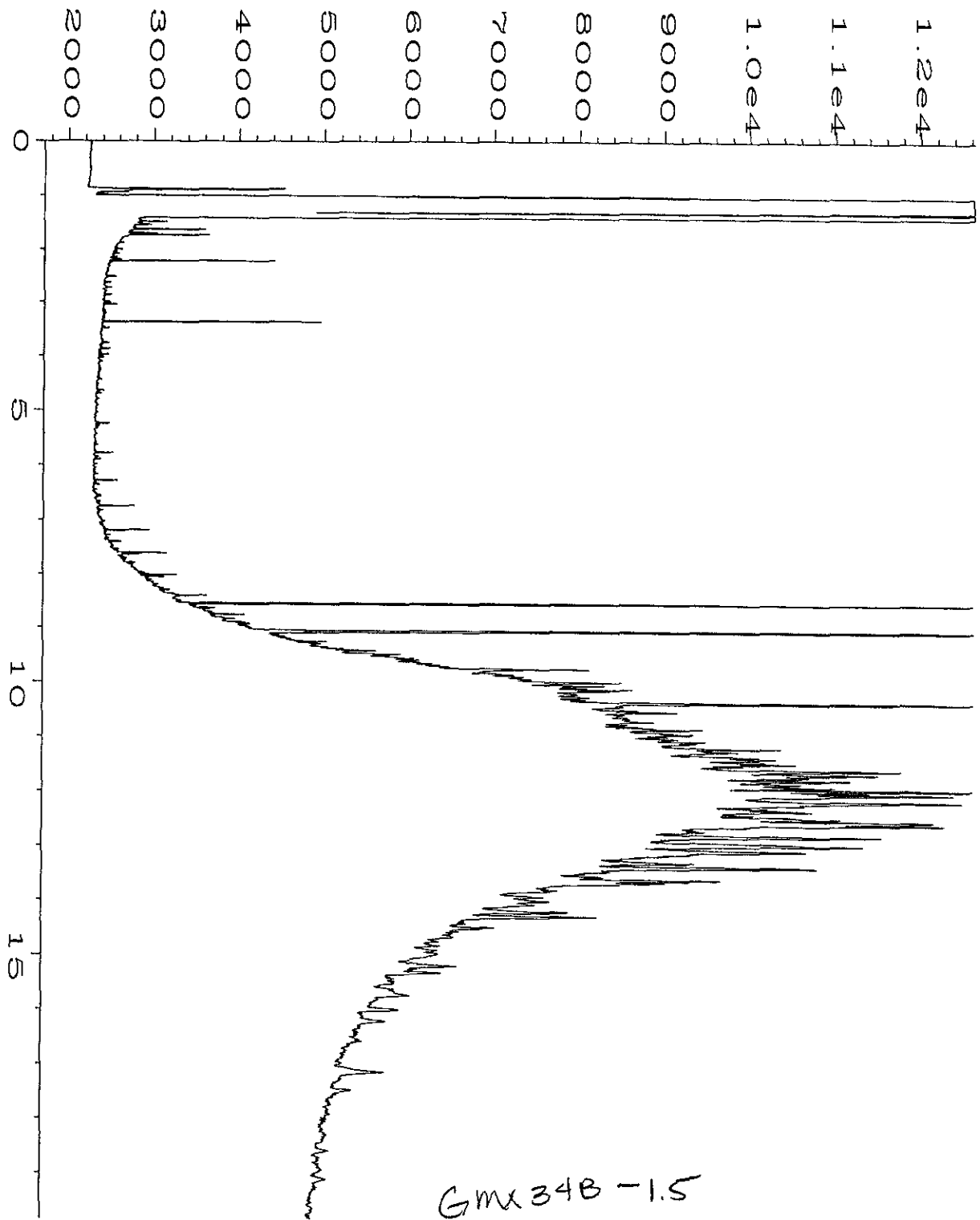
Date:
 Method of Shipment: TRACKING No. Federal Express

Received by (signature): [Signature]
 Printed Name: Kate Trafton
 Company: FBI

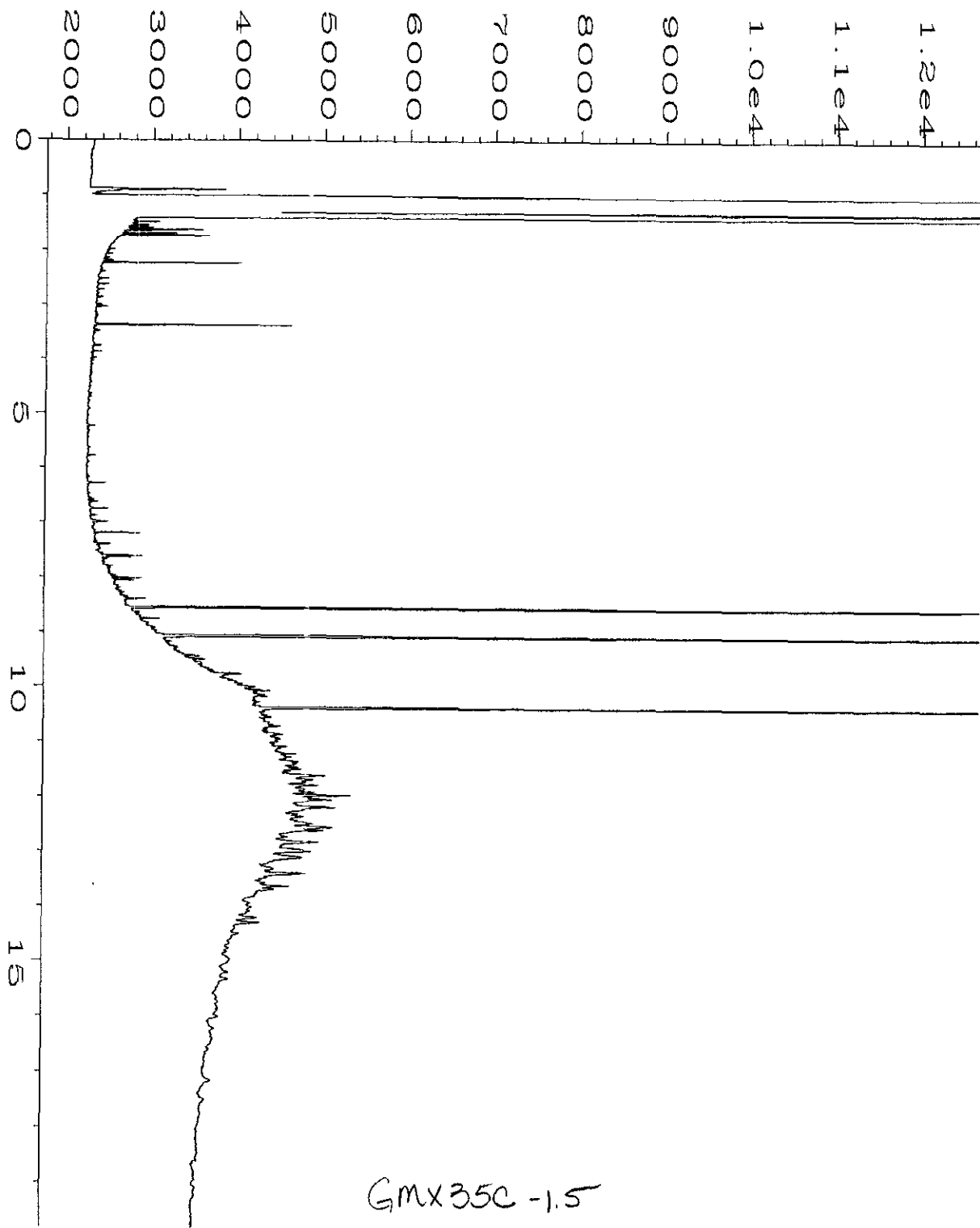
Date: 3-21-00
 Time: 10AM
 Received by (signature):
 Printed Name:
 Company:

Date:
 Received by (signature):
 Printed Name:
 Company:

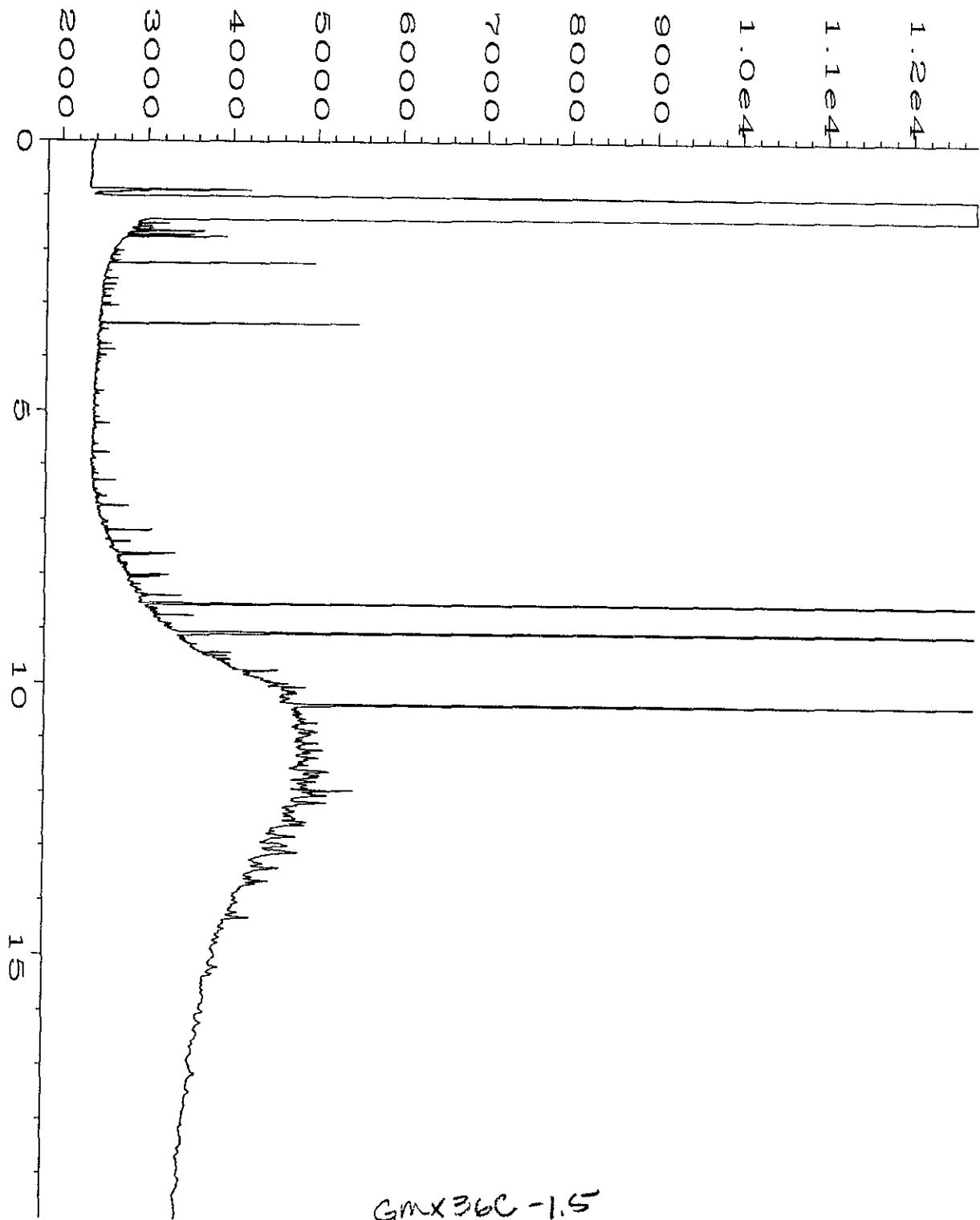
Time:
 Laboratory Comments and Log No.:




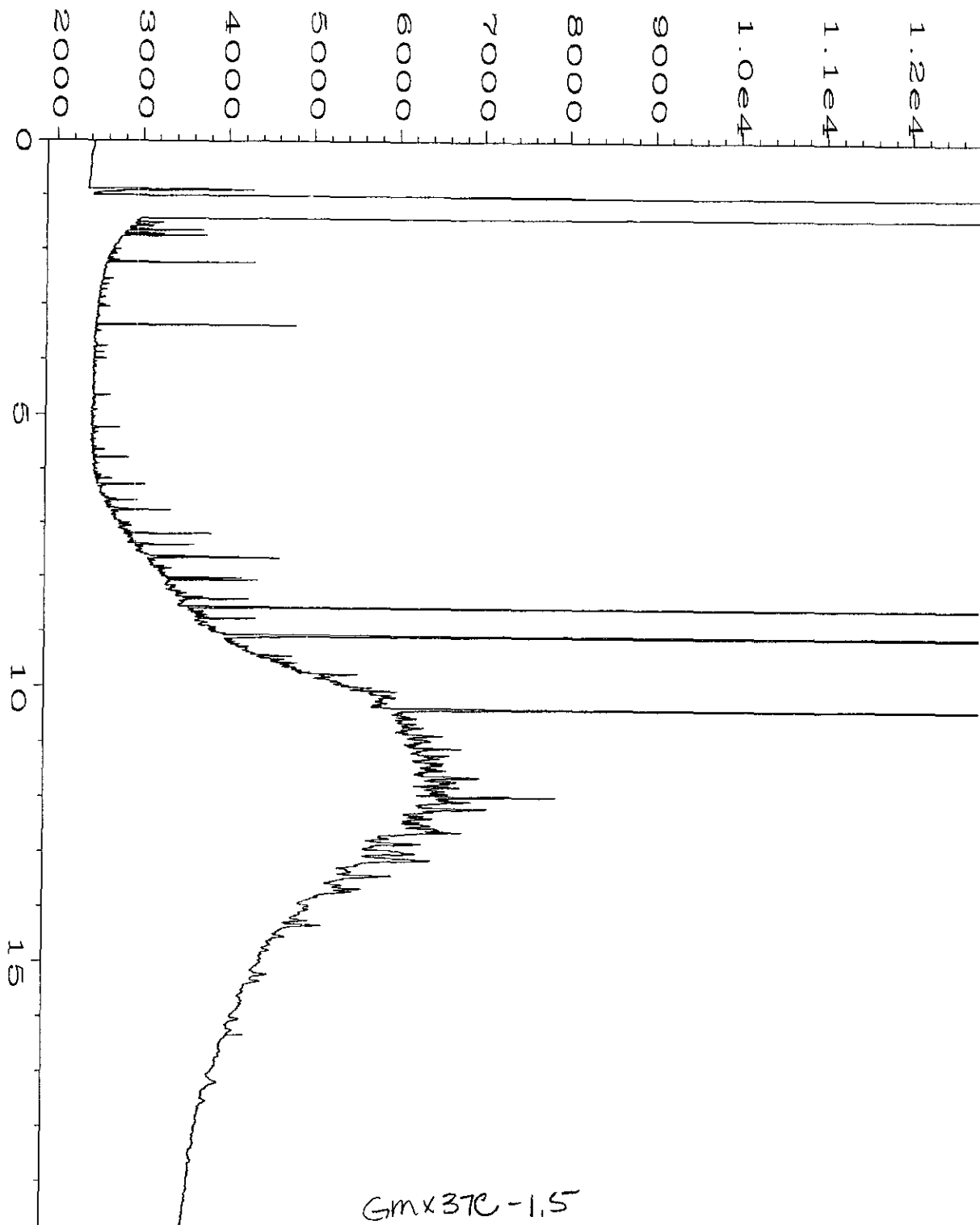
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Operator	: jeb	Vial Number	: 17
Instrument	: GC4	Injection Number	: 1
Sample Name	: 003118-49 sg	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 22 Mar 00 05:23 PM	Analysis Method	: TPHD.MTH
Report Created on:	23 Mar 00 08:47 AM		



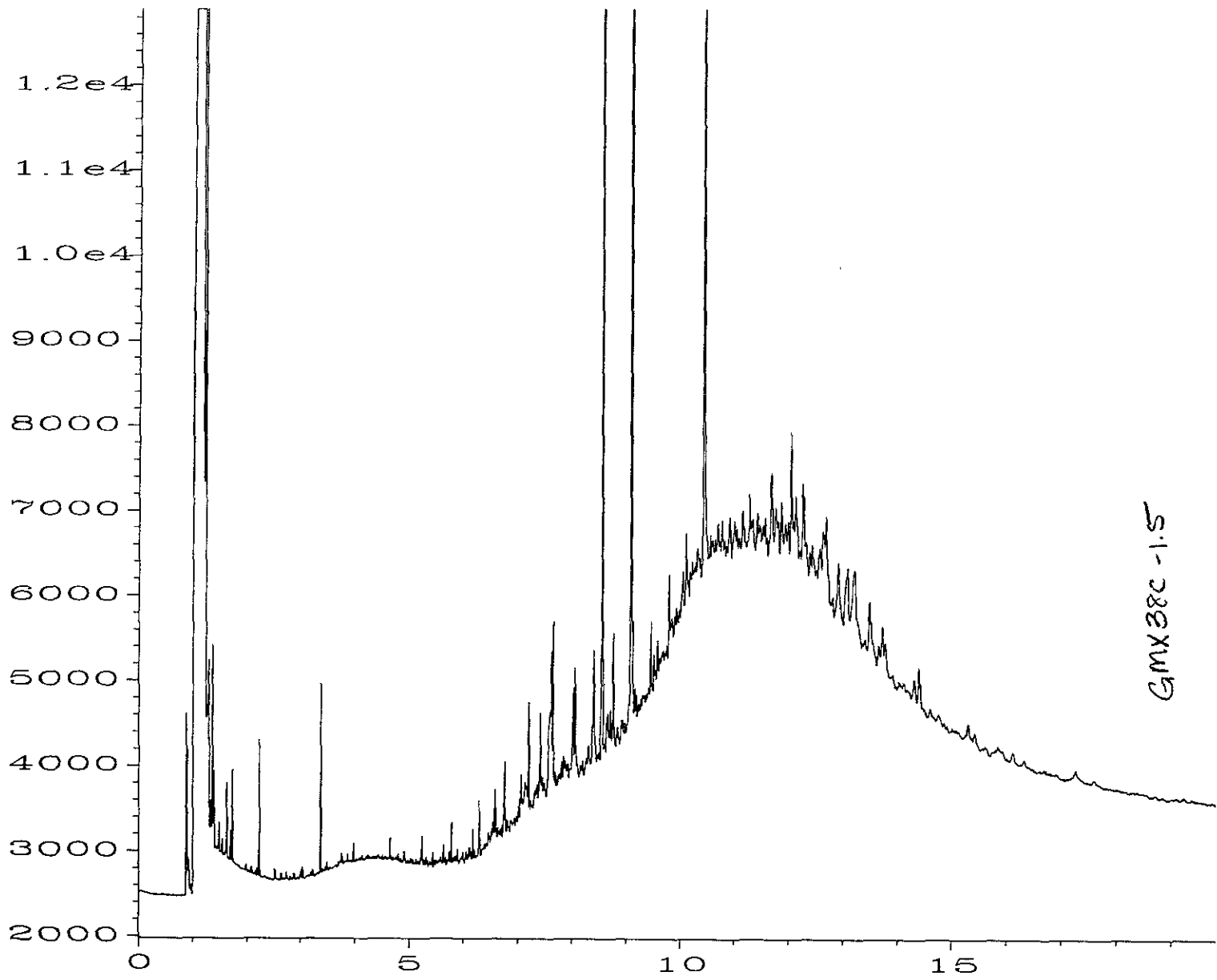
Data File Name	: C:\HPCHEM\4\DATA\03-22-00\016F0501.D	Page Number	: 1
Operator	: jeb	Vial Number	: 16
Instrument	: GC4	Injection Number	: 1
Sample Name	: 003118-55 sg	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 22 Mar 00 04:56 PM	Analysis Method	: TPHD.MTH
Report Created on:	23 Mar 00 08:46 AM		



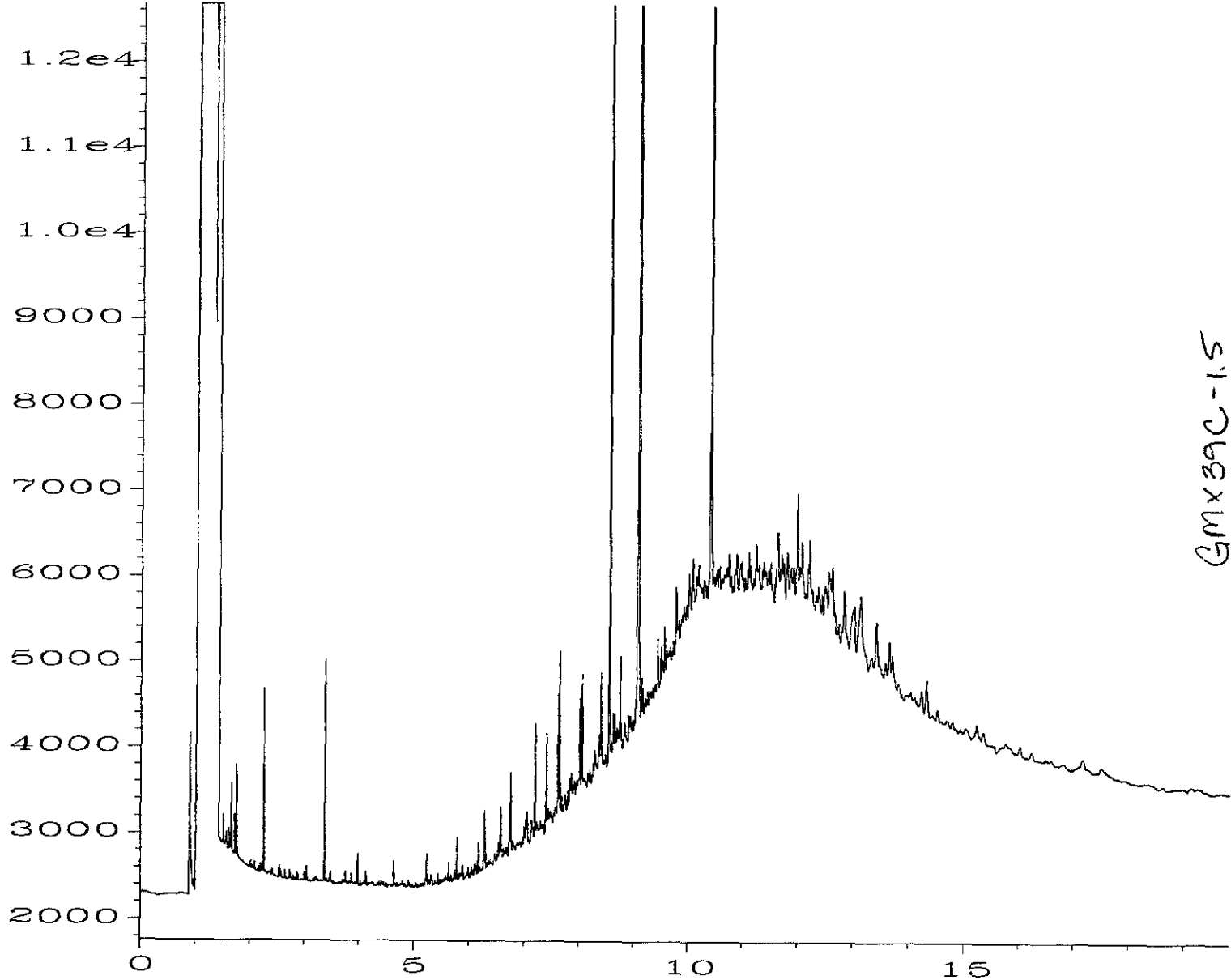
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Operator	: jeb	Vial Number	: 13
Instrument	: GC4	Injection Number	: 1
Sample Name	: 003118-19 sg	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 22 Mar 00 03:22 PM	Analysis Method	: TPHD.MTH
Report Created on:	23 Mar 00 08:36 AM		



Data File Name	: C:\HPCHEM\4\DATA\03-22-00\012F0501.D	Page Number	: 1
Operator	: jeb	Vial Number	: 12
Instrument	: GC4	Injection Number	: 1
Sample Name	: 003118-13 sg	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 22 Mar 00 02:57 PM	Analysis Method	: TPHD.MTH
Report Created on:	23 Mar 00 08:35 AM		



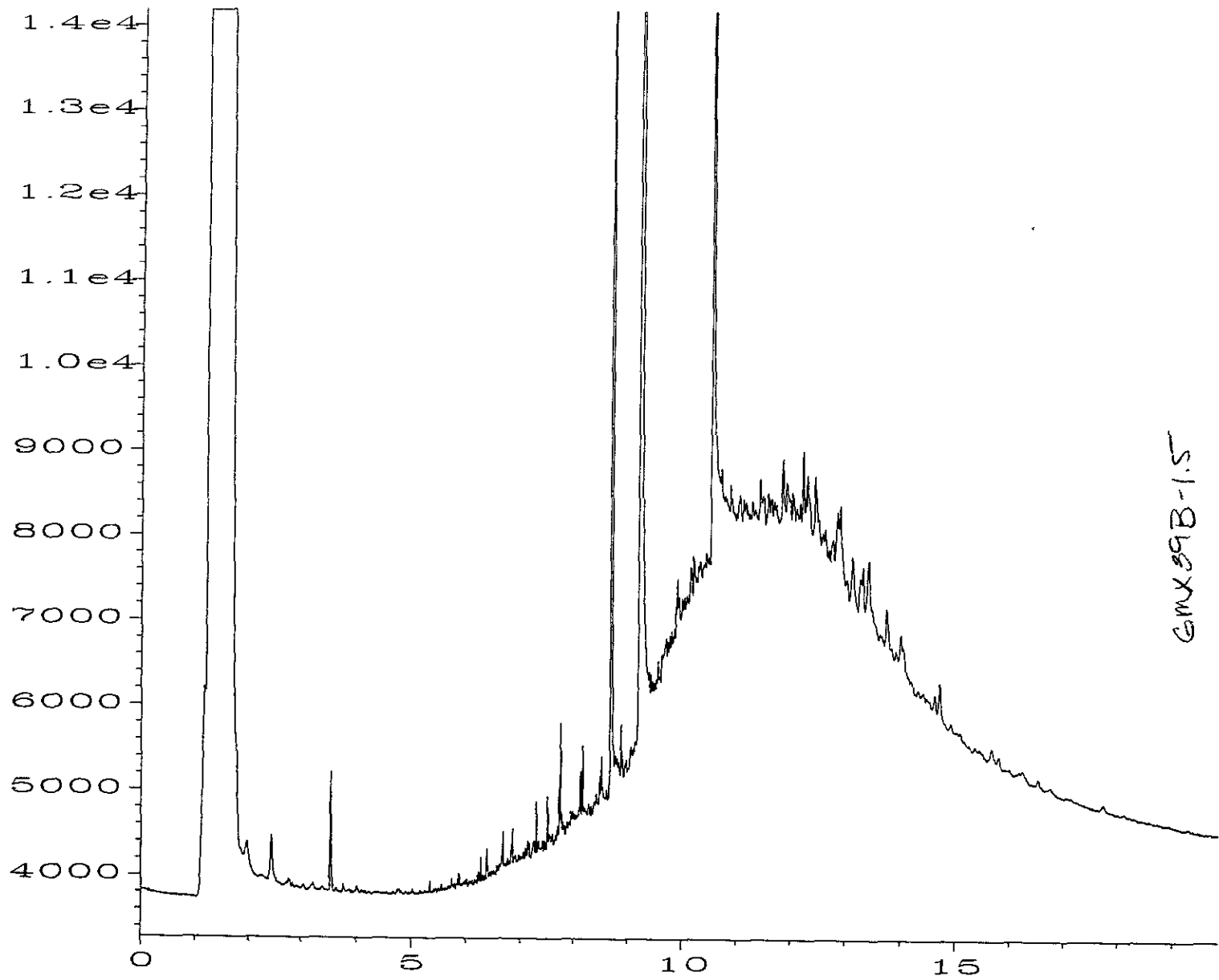
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 Operator : jeb
 Instrument : GC4
 Sample Name : 003118-07 sg
 Run Time Bar Code :
 Acquired on : 22 Mar 00 02:32 PM
 Report Created on: 23 Mar 00 08:33 AM
 Page Number : 1
 Vial Number : 11
 Injection Number : 1
 Sequence Line : 5
 Instrument Method: TPHD.MTH
 Analysis Method : TPHD.MTH



GMX39C-1.5

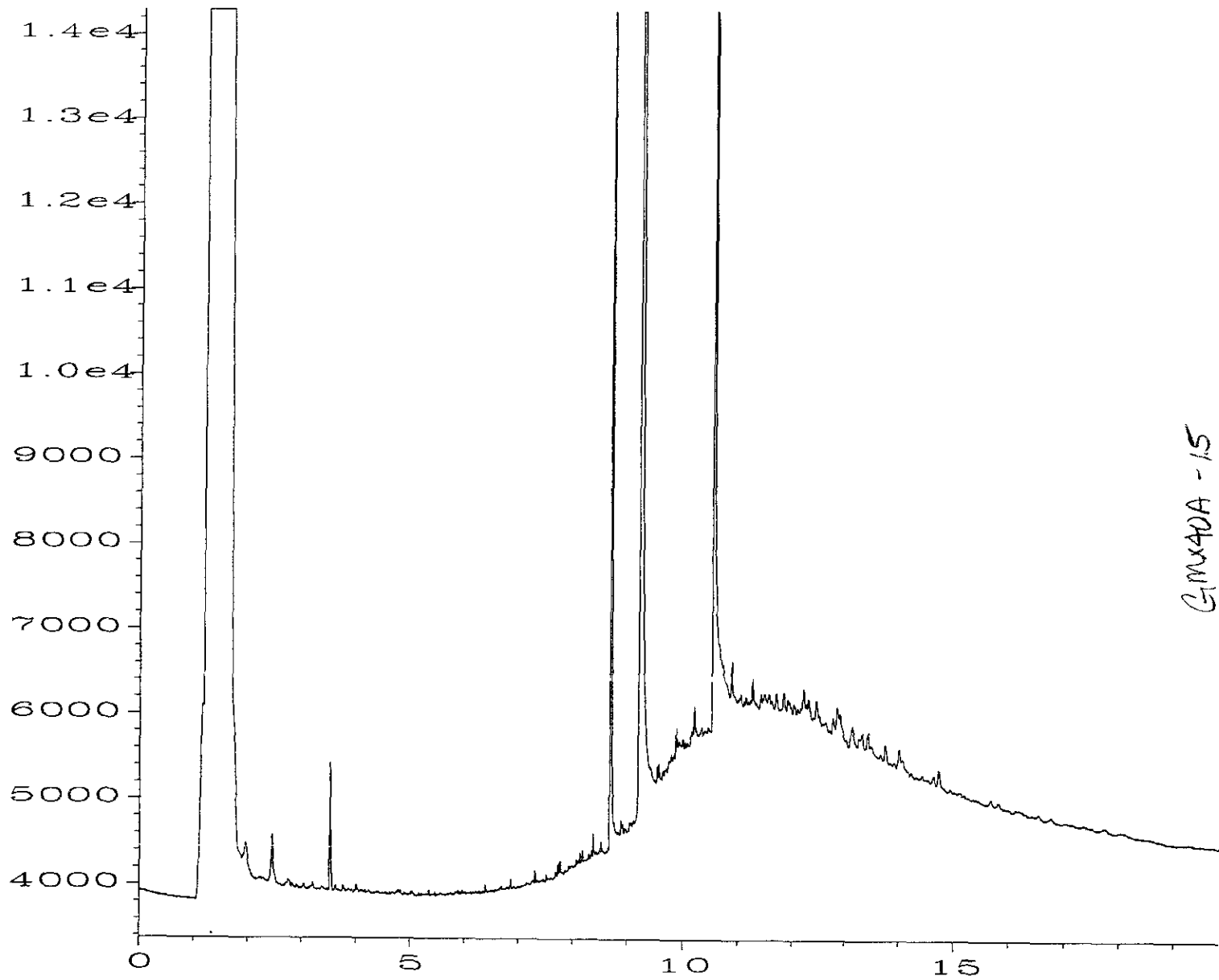
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 Operator : jeb
 Instrument : GC4
 Sample Name : 003118-22 sg
 Run Time Bar Code :
 Acquired on : 22 Mar 00 03:49 PM
 Report Created on: 23 Mar 00 08:43 AM

Page Number : 1
 Vial Number : 14
 Injection Number : 1
 Sequence Line : 5
 Instrument Method: TPHD.MTH
 Analysis Method : TPHD.MTH



GMX 89B-1.5

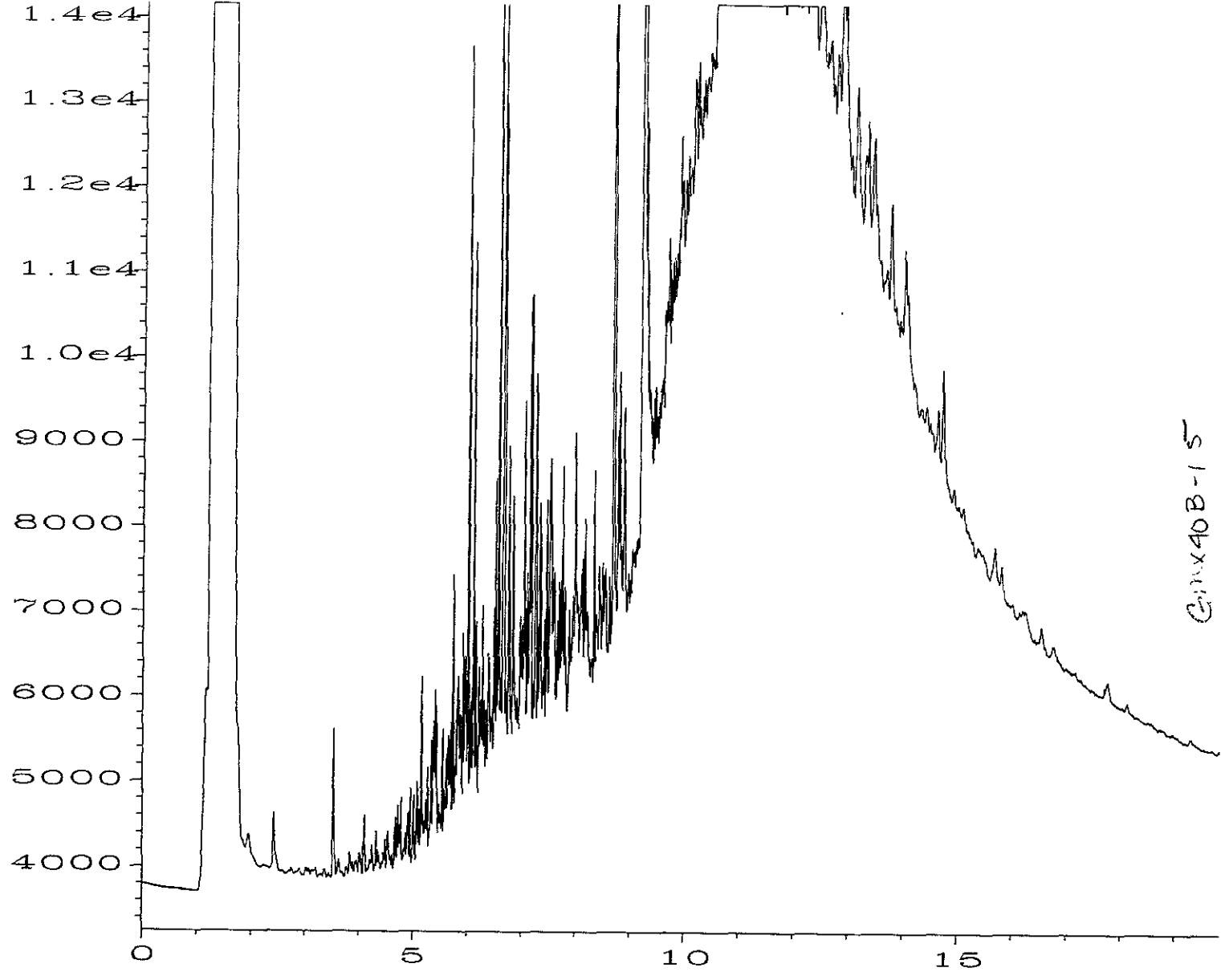
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 Operator : SO
 Instrument : GC #6
 Sample Name : 003118-25 W/SG
 Run Time Bar Code :
 Acquired on : 24 Mar 00 10:33 AM
 Report Created on: 05 May 17 08:52 PM
 Page Number : 1
 Vial Number : 55
 Injection Number : 1
 Sequence Line : 12
 Instrument Method: TPHD.MTH
 Analysis Method : TPHD.MTH



G1Mx40A - 15

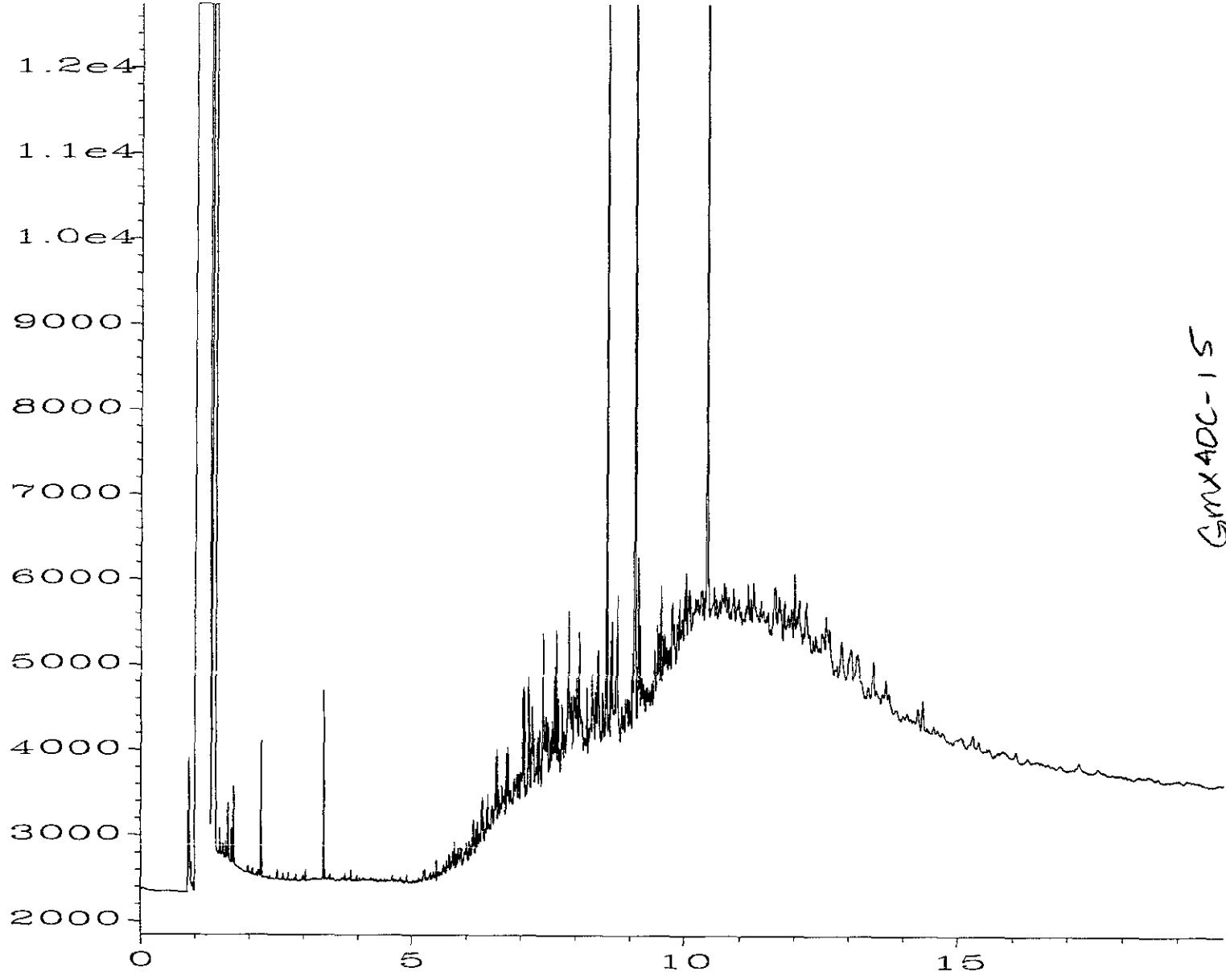
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 Operator : SO
 Instrument : GC #6
 Sample Name : 003118-34 W/SG
 Run Time Bar Code :
 Acquired on : 24 Mar 00 11:23 AM
 Report Created on: 05 May 17 08:54 PM

Page Number : 1
 Vial Number : 57
 Injection Number : 1
 Sequence Line : 12
 Instrument Method: TPHD.MTH
 Analysis Method : TPHD.MTH



Data File Name : H:\HPCHEM\6\DATA\03-23-00\056F1201.D
 Operator : SO
 Instrument : GC #6
 Sample Name : 003118-31 W/SG
 Run Time Bar Code :
 Acquired on : 24 Mar 00 10:58 AM
 Report Created on: 05 May 17 08:53 PM

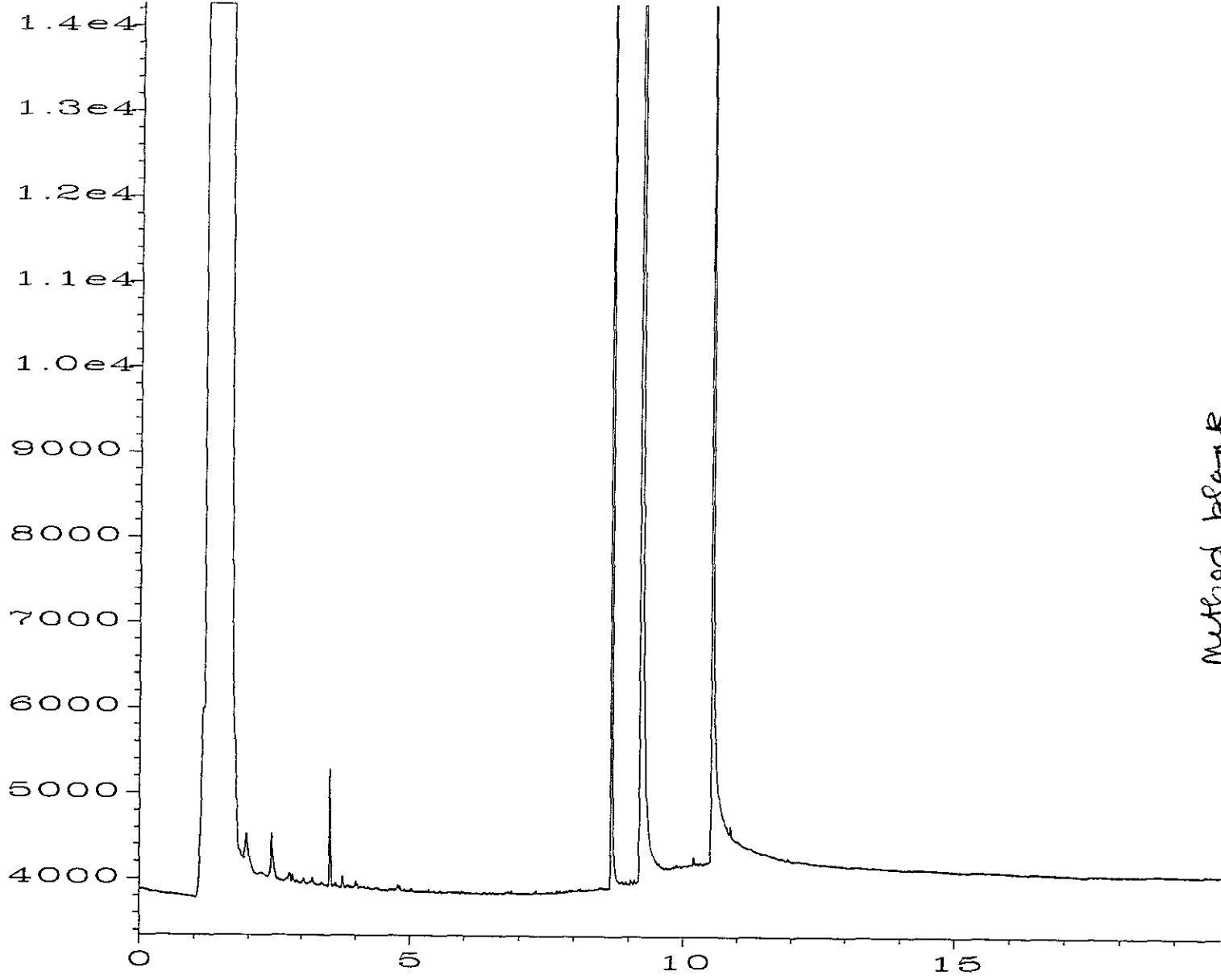
Page Number : 1
 Vial Number : 56
 Injection Number : 1
 Sequence Line : 12
 Instrument Method: TPHD.MTH
 Analysis Method : TPHD.MTH



GMX 400-15

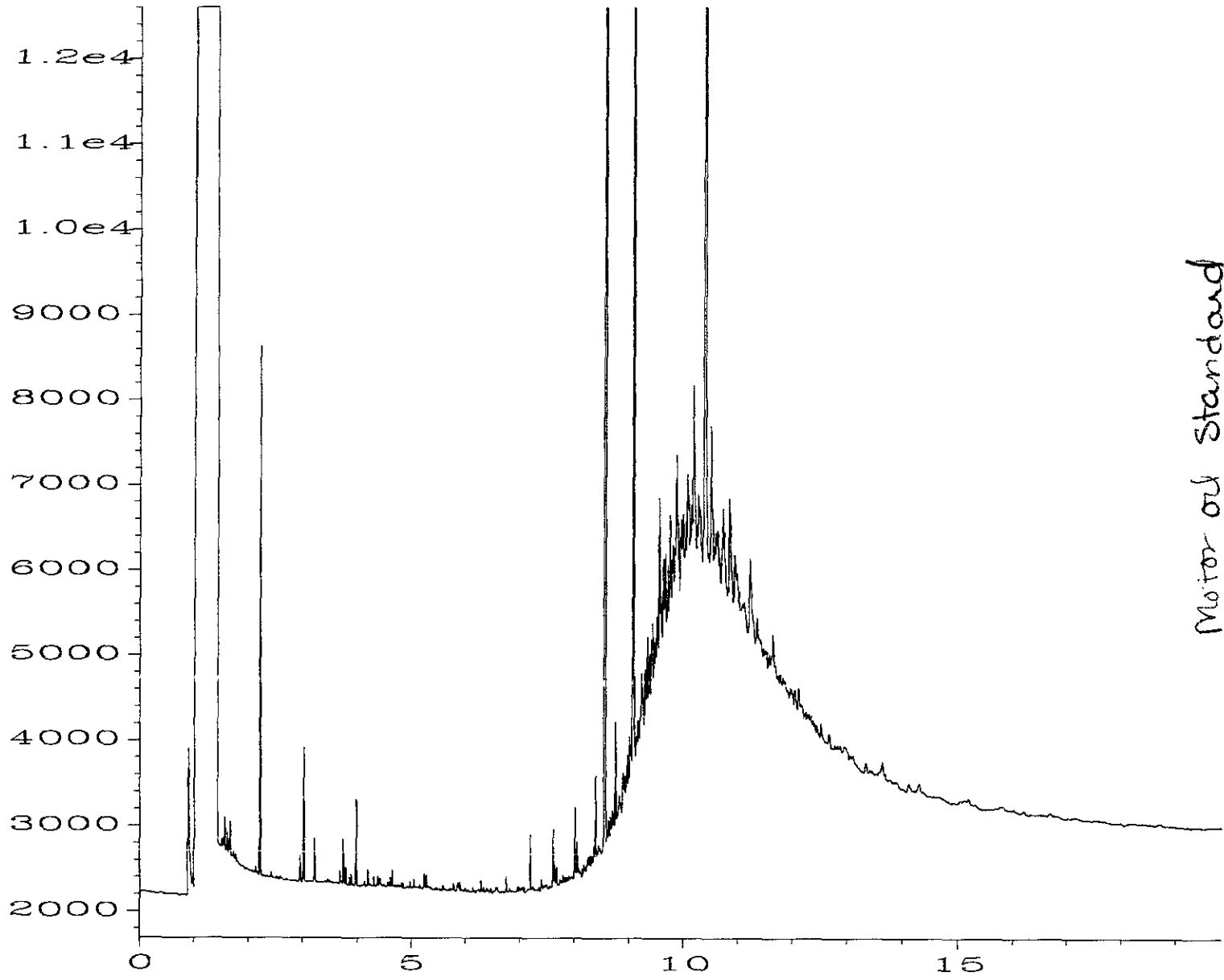
Data File Name : C:\HPCHEM\4\DATA\03-22-00\015F0501.D
 Operator : jeb
 Instrument : GC4
 Sample Name : 003118-28 sg
 Run Time Bar Code :
 Acquired on : 22 Mar 00 04:32 PM
 Report Created on: 23 Mar 00 08:45 AM

Page Number : 1
 Vial Number : 15
 Injection Number : 1
 Sequence Line : 5
 Instrument Method: TPHD.MTH
 Analysis Method : TPHD.MTH



Method blank

Data File Name : H:\HPCHEM\6\DATA\03-23-00\054F1201.D
 Operator : SO
 Instrument : GC #6
 Sample Name : 00-226 MB3 W/SG
 Run Time Bar Code : 24 Mar 00 10:07 AM
 Acquired on : 05 May 17 08:56 PM
 Page Number : 1
 Vial Number : 54
 Injection Number : 1
 Sequence Line : 12
 Instrument Method: TPHD.MTH
 Analysis Method : TPHD.MTH



Motor oil Standard

Data File Name : C:\HPCHEM\4\DATA\03-22-00\007F0801.D
 Operator : jeb
 Instrument : GC4
 Sample Name : 8-175 500 ppm mo
 Run Time Bar Code : 22 Mar 00 06:46 PM
 Acquired on : 23 Mar 00 11:25 AM
 Page Number : 1
 Vial Number : 7
 Injection Number : 1
 Sequence Line : 8
 Instrument Method: TPHD.MTH
 Analysis Method : TPHD.MTH

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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March 31, 2000

Ann Holbrow, Project Manager
Geomatrix Consultants, Inc.
2101 Webster Street, 12th Floor
Oakland, CA 94612

Dear Ms. Holbrow:

Included are the results from the additional testing of material submitted on March 21, 2000 from your 6262 project. Sample GMX40C-1.5 was reextracted for analysis of PNAs by method 8270. As requested, soil was taken from the opposite end of the sample tube than that used for the initial analysis.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Jensen
Chemist

Enclosures
GMC0331R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX40C-1.5	Client:	Geomatrix Consultants, Inc.
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/29/00	Lab ID:	003118-28 rx 1/10
Date Analyzed:	03/27/00	Data File:	032906.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	117	50	150
Benzo(a)anthracene-d12	121	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	<50
Anthracene	<50
Fluoranthene	<50
Pyrene	<50
Benz(a)anthracene	<50
Chrysene	<50
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	<50
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	<50

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	Method Blank	Client:	ClientID
Date Received:	03/21/00	Project:	6262
Date Extracted:	03/29/00	Lab ID:	00-223 mb2
Date Analyzed:	03/29/00	Data File:	032905.D
Matrix:	Soil	Instrument:	GCMS#2
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracone-d10	66	50	150
Benzo(a)anthracene-d12	93	50	150

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/31/00

Date Received: 03/21/00

Project: 6262

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR PNA'S BY EPA METHOD 8270C SIM

Laboratory Code: 008118-46 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD	Acceptance Criteria
Napthalene	µg/kg (ppb)	<50	<50	nm	0-20
Acenaphthylene	µg/kg (ppb)	<50	<50	nm	0-20
Acenaphthene	µg/kg (ppb)	<50	<50	nm	0-20
Fluorene	µg/kg (ppb)	<50	<50	nm	0-20
Phenanthrene	µg/kg (ppb)	<50	<50	nm	0-20
Anthracene	µg/kg (ppb)	<50	<50	nm	0-20
Fluoranthene	µg/kg (ppb)	<50	<50	nm	0-20
Pyrene	µg/kg (ppb)	<50	<50	nm	0-20
Benz(a)anthracene	µg/kg (ppb)	<50	<50	nm	0-20
Chrysene	µg/kg (ppb)	<50	<50	nm	0-20
Benzo(b)fluoranthene	µg/kg (ppb)	<50	<50	nm	0-20
Benzo(k)fluoranthene	µg/kg (ppb)	<50	<50	nm	0-20
Benzo(a)pyrene	µg/kg (ppb)	<50	<50	nm	0-20
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	<50	<50	nm	0-20
Dibenzo(a,h)anthracene	µg/kg (ppb)	<50	<50	nm	0-20
Benzo(g,h,i)perylene	µg/kg (ppb)	<50	<50	nm	0-20

Laboratory Code: 008118-46 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Napthalene	µg/kg (ppb)	170	<50	92	97	54-110	5
Acenaphthylene	µg/kg (ppb)	170	<50	94	98	58-114	4
Acenaphthene	µg/kg (ppb)	170	<50	90	93	58-112	3
Fluorene	µg/kg (ppb)	170	<50	87	93	59-113	7
Phenanthrene	µg/kg (ppb)	170	<50	93	93	62-110	0
Anthracene	µg/kg (ppb)	170	<50	83	94	61-111	12
Fluoranthene	µg/kg (ppb)	170	<50	95	108	63-114	8
Pyrene	µg/kg (ppb)	170	<50	99	108	59-110	9
Benz(a)anthracene	µg/kg (ppb)	170	<50	98	102	60-116	4
Chrysene	µg/kg (ppb)	170	<50	91	99	57-118	8
Benzo(b)fluoranthene	µg/kg (ppb)	170	<50	104	112	52-133	7
Benzo(k)fluoranthene	µg/kg (ppb)	170	<50	110	111	57-130	1
Benzo(a)pyrene	µg/kg (ppb)	170	<50	116	120	52-132	3
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	170	<50	87	94	54-112	8
Dibenzo(a,h)anthracene	µg/kg (ppb)	170	<50	85	91	50-121	7
Benzo(g,h,i)perylene	µg/kg (ppb)	170	<50	82	86	40-114	5

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/31/00

Date Received: 03/21/00

Project: 6262

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR PNA'S BY EPA METHOD 8270C SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Napthalene	µg/kg (ppb)	170	83	85	51-124	2
Acenaphthylene	µg/kg (ppb)	170	83	85	52-125	2
Acenaphthene	µg/kg (ppb)	170	83	86	57-122	4
Fluorene	µg/kg (ppb)	170	86	87	55-126	2
Phenanthrene	µg/kg (ppb)	170	77	81	59-126	5
Anthracene	µg/kg (ppb)	170	77	80	45-134	4
Fluoranthene	µg/kg (ppb)	170	80	87	56-132	8
Pyrene	µg/kg (ppb)	170	84	88	54-125	5
Benz(a)anthracene	µg/kg (ppb)	170	78	85	51-130	8
Chrysene	µg/kg (ppb)	170	74	80	57-125	8
Benzo(b)fluoranthene	µg/kg (ppb)	170	98	107	54-135	8
Benzo(k)fluoranthene	µg/kg (ppb)	170	100	108	52-141	7
Benzo(a)pyrene	µg/kg (ppb)	170	91	98	38-140	7
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	170	95	108	58-122	13
Dibenzo(a,h)anthracene	µg/kg (ppb)	170	92	108	58-130	10
Benzo(g,h,i)perylene	µg/kg (ppb)	170	98	109	54-124	11

ATTACHMENT E

Results of Quality Assurance/Quality Control

ATTACHMENT E

RESULTS OF QUALITY ASSURANCE/QUALITY CONTROL Canterbury Residential Development Hayward, California

Quality Assurance/Quality Control (QA/QC)

The parameters used to evaluate data quality are as follows:

- **Accuracy:** The agreement of a measurement with an accepted reference or true value. Accuracy was assessed using the laboratory method blanks, laboratory control samples, and matrix spike samples. Laboratory method blanks test for false positive results. For laboratory control samples, a known quantity of a chemical is added by the laboratory to deionized water, which is then analyzed. For matrix spike samples, a known quantity of a chemical is added to a site-specific sample designated on the chain-of-custody. In addition, the laboratory adds surrogates (chemicals with similar characteristics that are unlikely to be detected in environmental media) to each sample to test the accuracy of the measurements for these surrogate compounds. The accuracy goal for each analyte is specified by the laboratory on the laboratory data sheets (Attachments C and D).
- **Precision:** A measurement of the degree of agreement of replicate data, which is quantitatively assessed based on the relative percent difference or standard deviation. Precision was assessed using matrix spike/matrix spike duplicate samples, laboratory control/duplicate samples, and site-specific duplicate samples selected by the laboratory. The precision goal for these samples was set at 20%.
- **Completeness:** The amount of valid data obtained from a prescribed measurement system throughout the project, as compared with that expected and required to meet the project goals.

Documentation of calculations for accuracy (percent recovery) and precision (relative percent difference) are presented in the laboratory data sheets for the appropriate QA/QC sample (Attachment C and D).

Accuracy

For all method blank samples, all analytes concentrations were below method reporting limits, indicating that the laboratory results represented the contents of the sample. Although not reported in the method blank, detections of methylene chloride were identified by the laboratory as laboratory contamination and not representative of contents of the sample. At least two method blanks were run for each analysis method.

Surrogates were run in every sample analyzed. Surrogate recoveries were within analyte-specific control limits with the following exceptions:

- Recoveries of one of two PCB surrogates was below control limits for four samples (GMX40C-1.5, GMX37C-1.0, GMX36C-1.0, and GMX33B-1.0). As the other PCB surrogate was within control limits, the results were considered acceptable.
- Recovery of one of two PAH surrogates was below control limits for one sample (GMX36C-1.5). In addition, this sample was diluted because of interfering compounds, which can affect the surrogate recoveries. As the other PAH surrogate was within control limits, these analytical results are considered acceptable.

For VOCs, one of the internal surrogates was outside the control limits for five samples (GMX36C-1.5, GMX36C-5.0, GMX40C-1.5, GMX34B-1.5, and GMX35C-4.5). As stated by the laboratory, the reporting limit or reported concentration for chemicals related to this internal standard is an estimate. However, this is not considered to significantly affect the conclusions from this assessment.

Laboratory control samples, matrix spike samples, and laboratory duplicates were also used to evaluate the accuracy of the analytical results. At least two laboratory control samples and two duplicate samples (TPHmo, VOC, and PAH analyses only) were run for each analysis. At least three matrix spike samples were run for each analysis. The accuracy of these results were within the analyte-specific control limits with the following exceptions:

- One of three matrix spike recoveries was below control limits (GMX33B-1.0). As laboratory control samples were within acceptance limits, the variation was attributed to matrix interference for this sample.
- For the metals matrix spike recoveries, recoveries of antimony, barium, vanadium, zinc, and thallium were outside control limits in one or more of the three samples analyzed. However, the laboratory control samples were within control limits for these analytes verifying the accuracy of these results.

Precision

To evaluate precision, at least three matrix spike/matrix spike duplicate samples and at least two laboratory control samples were analyzed using each analysis method as discussed previously. The relative percent difference for these samples was within analyte-specific control limits.

Completeness

Data generated during the project were evaluated for completeness, that is, the amount of data meeting project QA/QC goals. Data generated for this project were considered complete.