Work Plan for Site Investigation
The Sherwin-Williams Facility
1450 Sherwin Avenue
Emeryville, California

June 2, 1997
3435.00-004

Prepared for
The Sherwin-Williams Company
101 Prospect Avenue, NW
Cleveland, Ohio 44115

Levine·Fricke·Recon
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

June 2, 1997 3435.00-005

Mr. Mark Johnson
California Regional Water Quality Control Board
2101 Webster Street, Suite 500
Oakland, California 94612

Subject: Work Plan for Site Investigation, Sherwin-Williams Facility, Emeryville, California

Dear Mark:

Levine·Fricke·Recon Inc. (LFR) has prepared the enclosed work plan ("Work Plan") for an investigation in the vicinity of and including the Sherwin-Williams facility located at 1450 Sherwin Avenue, Emeryville, California. This Work Plan has been prepared on behalf of The Sherwin-Williams Company in response to Tasks 2 and 3 of the California Regional Water Quality Control Board (RWQCB) Cleanup and Abatement Order No. 97-047 ("the Order").

The Order requested three work plans. The first work plan (Task 1) is currently being addressed under separate cover. The RWQCB's Tasks 2 and 3 have been combined under one Work Plan to create a comprehensive investigation that addresses the issues stated by the Order. This Work Plan is being submitted in advance of the revised June 6 deadline. This revised due date was agreed at the meeting between the RWQCB and Sherwin-Williams on April 15, 1997.

As indicated in the enclosed schedule, we hope to get approval for the Work Plan from the RWQCB by June 23, 1997. Once we receive RWQCB approval, the work will proceed in accordance with the schedule.

If you have any comments or questions, please call Larry Mencin of Sherwin-Williams at (216) 566-1768 or Mike Marsden or me of LFR at (510) 652-4500.

Sincerely,

Angela Jacobson for

Mark D. Knox
Principal Engineer

cc: Distribution List

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APPENDICES

1.0 INTRODUCTION

Levine·Fricke·Recon Inc. (LFR; formerly Levine·Fricke, Inc. and Recon) has prepared this work plan ("Work Plan") for an investigation in the vicinity of and including the Sherwin-Williams facility located at 1450 Sherwin Avenue, Emeryville, California ("the Site;" Figure 1). The Site includes the Sherwin-Williams property, portions of Horton Street, the Rifkin Property, and surrounding areas as illustrated in Figure 2. This work plan includes a proposed scope of work and schedule.

This work plan has been prepared in response to Tasks 2 and 3 of the California Regional Water Quality Control Board (RWQCB) Cleanup and Abatement Order No. 97-047 ("the Order;" Appendix A), dated April 7, 1997. Task 1 of the Order was addressed by various work plans prepared in March, April, and May 1997 as discussed in Section 3.3 herein. Tasks 2 and 3 of the Order state that Sherwin-Williams will investigate the following:

- The existence of natural and human-made preferential pathways and lateral and vertical conduits for migration of pollution at the Site.
- The extent of the soil and groundwater pollution, outside the existing slurry wall, in the on- and off-site areas.

The two work plans requested under the Order for Tasks 2 and 3 have been combined under one work plan in order to create a comprehensive investigation that addresses the issues required by the Order.

1.1 Work Plan Organization

This Work Plan presents a brief background and physical setting of the Site, the proposed field investigations, report production, and schedule for the work to be conducted. In addressing Tasks 2 and 3 of the Order, the investigation of the Site has been divided into issues and areas of concern to be evaluated (Figure 2). These include the following:

- Current site conditions
- Human-made conduits
- Horton Street
- Rifkin Property
- Northwestern area
- Southern area
- B-zone aquifer
- Inside existing slurry wall

Natural conduits will be evaluated as part of each the areas and issues of concern listed above.

1.2 Objectives

LFR's objectives are to comply with Tasks 2 and 3 of the Order, to collect further data in order to better define the conditions at the Site, and ascertain the nature and extent of contaminants in the soil and groundwater at the Site. Arsenic concentrations in soil and groundwater on the Sherwin-Williams property will be compared to arsenic concentrations found on adjacent properties. The data will be used to evaluate risk management strategies for any impacted areas at the Site.

2.0 BACKGROUND AND PHYSICAL SETTING

Previous land use, investigations, and remediation activities conducted at the Sherwin-Williams Site and the surrounding properties and a description of the physical setting of the area are summarized below.

2.1 Background

Previous investigation and remediation activities have been conducted at the Sherwin-Williams plant site, Rifkin Property, and Horton Street. The following section includes a summary of previous activities, investigations, and remedial measures conducted at these areas.

2.1.1 The Sherwin-Williams Facility

The Sherwin-Williams Company owns and operates a coatings manufacturing plant located at the corner of Horton Street and Sherwin Avenue (1450 Sherwin Avenue) in Emeryville, California. The plant has been in operation since the early 1900s, manufacturing various types of coating products. It also produced lead-arsenate pesticides from the 1920s until the 1940s. In 1987, Sherwin-Williams changed its manufacturing at the Site from oil-based products to water-based products. The change in manufacturing operations included the closure and dismantling of an oil tank storage facility, solvent tank storage facilities, alkyd resin manufacturing facility, lacquer manufacturing facility, and the former pesticide manufacturing area.

Several soil and groundwater investigation phases were subsequently conducted from 1988 to 1991 to assess the nature and extent of a range of volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and certain inorganic compounds (mostly arsenic and lead) detected at the Site as a result of the investigation of the tank storage and production facilities.

Soil investigations conducted at the Site included the following areas:

- Former oil tank storage.
- Former solvent tank storage.
- A paved parking area near the former solvent tank storage.
- Arsenic source area.

VOCs, SVOCs including total petroleum hydrocarbons (TPHs), and arsenic were identified in A-zone groundwater in the site vicinity. Analytical data collected during the initial phases of investigation and monitoring indicated that chemical compounds detected in A-zone groundwater did not appear to affect B-zone groundwater at concentrations requiring remediation.

In 1990, the Sherwin-Williams Company retained LFR to develop interim remedial measures (IRMs) to address source areas for the Site. An evaluation was conducted in accordance with site investigation and treatability study work plans prepared by LFR for Sherwin-Williams. The objectives of the IRMs were to reduce or eliminate potential human exposure to affected soil and groundwater, prevent or minimize off-site migration of the affected groundwater, and control source areas. Proposed IRMs were developed and evaluated for the Site according to the feasibility, effectiveness, and implementability of the alternative IRMs.

The IRMs for the Site were presented in LFR's report, "Evaluation of Interim Remedial Measures," dated December 20, 1991. The RWQCB concurred with the proposed IRMs in a letter signed by the Executive Officer, Steve Ritchie, dated March 10, 1992.

As part of the IRMs, Sherwin-Williams installed the following items:

- Slurry wall to contain chemically affected areas and inhibit further off-site migration of affected groundwater.
- Cap and storm-water collection system to prevent infiltration into chemically affected soils from storm-water runoff.
- Groundwater extraction and treatment system (GWETS) to pump groundwater within the slurry wall, create an inward hydraulic gradient and treat extracted groundwater.

Periodic groundwater monitoring in on- and off-site groundwater monitoring wells has been conducted at the Site since 1989. Groundwater samples were collected for chemical analysis and measurement of groundwater elevation.

In 1994 and 1995, activities were conducted to remove underground storage tanks (USTs) owned by Southern Pacific Lines (SPL) and located near the western Sherwin-Williams property line (adjacent to SPL railroad lines) that were discovered during

Sherwin-Williams Site Remediation construction work. The UST s were encountered during cap and slurry wall construction activities. The tanks contained petroleum products historically used by the Railroad. Four buried railroad tank cars were found on the western property boundary with Southern Pacific Lines, which agreed to take responsibility for their removal. Two smaller torpedo tanks were later located in the vicinity of the buried railroad tank cars. The adjacent property owner, the Southern Pacific Lines, took responsibility for these tanks, which were removed and disposed of at an approved facility.

2.1.2 The Rifkin Property

According to a previous report discussing historical site use (Harding Lawson Associates 1992), previous owners or users of the Rifkin Property located northeast of the Sherwin-Williams Property included the following:

- The Oakland Trotting Park and North California Jockey Club Race Track occupied Rifkin from approximately 1889 until at least 1911 or 1912.
- Pacific Galvanizing occupied the Site in 1925.
- Rotary Oil Company occupied the Site in the 1920s.
- Rheem Manufacturing occupied the Site in 1930.
- The California Container Corporation (later the Container Corporation of America) began manufacturing corrugated containers in the existing building beginning in approximately 1937.
- California Container Corporation occupied the Site until approximately 1978.
- Rifkin Investments obtained the property from Container Corporation of America in 1978.

In addition to the above-mentioned historical site users, East Bay Chemical Company also occupied the Rifkin Property adjacent to Sherwin-Williams in the 1920s, as indicated on historical site area maps. Several USTs were removed from the Rifkin Property in the late 1980s and 1990s.

Erler & Kalinowski, Inc., on behalf of Chiron; LFR, on behalf of the Sherwin-Williams Company; and TMC, on behalf of Mr. Frank Satterwhite, receiver for the Rifkin Property, conducted soil and groundwater investigations at Rifkin Property in 1993 and 1994. LFR has conducted periodic quarterly sampling and measuring water levels in groundwater monitoring wells at Rifkin Property since 1994. In addition, LFR conducted a soil investigation at Rifkin Property in 1996, and the results of this investigation are submitted with this work plan (Appendix C). VOCs and arsenic were identified by the previous investigations in soil and A-zone groundwater in the southern portion of Rifkin Property. TPH and their constituents were detected at sample locations across the Site. Soil and groundwater investigations at the upgradient BGR Property (formerly Shell Development Facility) conducted by Erler and Kalinowski

also identified the BGR property as a source, which has impacted groundwater beneath Rifkin Property.

2.1.3 Horton Street

LFR, on behalf of the Sherwin-Williams Company, conducted soil investigations in March, April, and May 1997, on Horton Street and other areas in the vicinity of the Sherwin-Williams facility. Investigation and remediation activities related to these areas are in progress and being conducted to address Task 1 of the RWQCB Cleanup and Abatement Order issued April 7, 1997. The activities for Horton Street are described more fully in Section 3.3 of this work plan.

2.2 Physical Setting

The Site is located in Emeryville, California, and is approximately 2,000 feet from the San Francisco Bay. Property in the area of the Site is mixed use with primarily industrial and commercial properties intermixed with some residential. The average minimum and maximum temperatures in the area are 50.0°F and 64.6°F, respectively. The average rainfall in the area is 23.0 inches per year.

The approximate site borders are: the east side of Horton Street located east of Sherwin-Williams; approximately 200 feet to the west of the western Sherwin-Williams property boundary for the purposes of this investigation, Sherwin Avenue to the south, and 100 feet to the north of Temescal Creek to the north.

The Sherwin-Williams facility is located at 1450 Sherwin Avenue. The Rifkin Property's former address was 4525 through 4623 Horton Street, but is now an asphalt-covered parking lot. Harcros Pigments Facility, Myer's Container Corporation, and Barbary Coast Steel are to the west of The Sherwin-Williams facility and the Rifkin Property. The Southern Pacific Railroad tracks run in an approximate north-south direction between The Sherwin-Williams facility and each of Harcros Pigments Facility, Myer's Container Corporation, and Barbary Coast Steel. A concrete-lined ditch (Temescal Creek) runs in an approximate east-west direction through the northern part of the Site and drains into the Bay.

Information regarding the hydrogeologic characteristics of the lithologic units that underlie the Site has been obtained from the drilling and pump testing conducted during investigations at the Sherwin-Williams facility and the Rifkin Property. The results of drilling indicate that shallow "A-zone" groundwater is generally encountered at a depth of 6 to 12 feet bgs. The results of drilling of A-zone monitoring wells indicate A-zone groundwater is generally present in relatively thin (2 to 5 feet thick) discontinuous and heterogeneous beds of sand and/or gravel interbedded with less permeable silty clayey sediments. The water-yielding units of the A zone are generally overlain by silty clay and gravely silty clay sediments. The A zone is underlain by a silty clay interval that starts at approximately 15 to 20 feet bgs and is approximately 10 to 18 feet thick. This clay-rich interval has a low permeability, and the unit acts as an aquitard to form a

- Identify, map, and inspect outfalls to Temescal Creek and the drainage ditch leading from the Rifkin Property.
- Amend work plan for sediment, soil, and groundwater sampling, according to the records review and geophysical investigation results.
- Conduct a well survey by contacting state and local regulatory agencies.

3.2.3 Data Collection

Records Review

LFR will review historical aerial photographs and maps to identify surface features that may have existed on the Site in the past to indicate the locations of potential human-made conduits. Utility maps and plans provided by Sherwin-Williams will also be reviewed, as well as plans from the City of Emeryville. Slurry wall construction logs will be checked to evaluate if any subsurface conduits encountered during excavation activities can be correlated with the review of utility maps. The Department of Water Resource files will also be reviewed to identify wells that have not been properly abandoned or maintained, and may be serving as conduits for contaminated groundwater.

Data Compilation

LFR will compile the data from the records review to evaluate if any areas need further investigation, and if contaminant distribution can be attributed to manmade conduits. This data will be presented on a map and used to assess how potential conduits fit into the current understanding of the Site and evaluate how investigations for the Site may be impacted.

Geophysical Survey

A geophysical surveyor will be subcontracted to locate underground features that may be serving as conduits for contaminants. A combination of ground penetrating radar (GPR) and a pipe and cable locator will be used to locate subsurface conduits. GPR will be used to locate subsurface nonmetallic conduits. The pipe and cable locator (Metrotech 9890 or RD400) will be used to locate metallic objects. Potential conduit locations will be mapped and combined with information obtained in the records review.

Identify and Inspect Outfalls

The outfalls to Temescal Creek and the drainage ditch (beyond the north end of the Sherwin-Williams Property) within 500 feet of the Sherwin-Williams facility will be identified, mapped, and inspected. Based on the conditions and diameter of each outfall, the inspection will be conducted by video camera or by personnel, using confined entry precautions, if required.

Work Plan Amendment

Based on maps and available off-site data, the Work Plan may be amended to identify additional soil, sediment, and groundwater sampling in the vicinity of potential conduits. Sampling strategies will be developed to supplement the sampling plans identified for the other areas of the Site as described in Sections 3.3 through 3.8.

Well Survey

LFR will contact state and local regulatory agencies including Alameda County, the City of Emeryville Water Department, and California Department of Water Resources, to obtain information about wells drilled within a 0.5 mile surrounding the Sherwin-Williams Property. This information will be used to evaluate vertical conduits in the area.

3.3 Horton Street Soils

Horton Street, trending in a north-south direction, is located adjacent to and east of the Sherwin-Williams facility. The section of concern is mostly paved and runs between Sherwin Avenue from the south to approximately 1,200 feet north along Horton Street. The properties located along Horton Street include the Sherwin-Williams facility, Rifkin Property, 45th Street Artists' Cooperative property, Horton Street Lofts, and various Chiron owned or leased property.

The investigation and remediation of impacted soils along Horton Street is being implemented under separate work plans in response to Task 1 of the RWQCB Cleanup and Abatement Order dated April 7, 1997. Further investigations and remediation will not be required at Horton Street after the work is completed, however, for completeness we have included references to the work conducted for the project in this work plan.

3.3.1 Objectives

The objectives of the Horton Street investigation and remediation are as follows:

- Define the extent of arsenic and lead contamination in shallow soil surrounding the Sherwin-Williams property beneath Horton Street, 45th Street, and Sherwin Avenue to determine the extent of soil removal.
- Remediate shallow soils through excavation and off-site disposal as identified by the area investigations.

3.3.2 Scope of Work

Based upon the objectives listed above, the investigation portion of work was completed in April and May 1997 based on the following work plans:

- Three work plans dated March 27, April 2, 1997, and April 16, 1997. These work plans involved several phases of soil samples in sidewalk areas along Horton Street, 45th Street, and Sherwin Avenue as well as sampling on the 45th Street Artists' Cooperative property.
- The work plan dated April 28, 1997, which included three additional boring locations on the 45th Street Artists' Cooperative property.
- The work plan dated April 28, 1997, which proposed three soil borings on the Wareham property north of the 45th Street Artists' Cooperative. This work has not been completed since the property owner has denied access.
- The work plan dated May 2, 1997, which involved additional soil investigations in the Horton Street roadway.
- The work plan dated May 2, 1997, which involved the collection of sidewalk concrete core samples for waste disposal characterization.

3.3.3 Data Collection

Data for Horton Street were collected in accordance with the work plans described above and additional data collection is not anticipated.

3.3.4 Horton Street Remediation

The Horton Street remediation is being implemented in accordance with the following work plans:

- Work Plan dated April 14, 1997, which described the overall plan for the Horton Street remediation and included the Health and Safety Plan.
- Work Plan dated April 25, 1997, which described the excavation and disposal details and proposed target soil cleanup levels.
- Work Plan dated May 2, 1997, which presented the air monitoring plan to be implemented during the excavation activities.
- Addendum to the April 25, 1997 Work Plan dated May 8, 1997, which provided revised target cleanup levels for arsenic and lead.
- Response to comments dated May 21, 1997, which responded to comments on the Air Monitoring Plan dated May 2, 1997, and an Addendum dated May 8, 1997.

The majority of the Horton Street remediation is anticipated to be completed by mid-July 1997. A project completion report will be submitted to the RWQCB after the project is finished.

3.4 Rifkin Property

The Rifkin property is located at 4525-4563 Horton Street in Emeryville, California. The southern and western sides of the Rifkin Property are immediately adjacent to The Sherwin-Williams Property. A summary describing historical use and previous investigations is included in Section 2.1.2.

3.4.1 Objectives

Objectives for activities proposed for the Rifkin Property are as follows:

- Conduct a visual analysis of the property, assess past industrial activities and review data from previous investigations to identify potential source areas for soil and groundwater contamination (task completed).
- Verify the extent of the arsenic groundwater plume from the Sherwin-Williams facility including assessment of whether arsenic is migrating in sand stringers beneath the currently installed wells RP-1 through RP-5.
- Confirm locations of other sources of contamination through selective sampling of soil and groundwater to fill in data gaps and/or confirm results from previous investigations.
- Define the extent of chemical migration in the vadose zone soil from the Sherwin-Williams property onto the Rifkin Property at the southern Sherwin-Williams/ Rifkin Property boundary (task completed; see Appendix B).
- Collect groundwater samples in wells upgradient from Rifkin Property and downgradient from the South BGR property (former Shell development property) to verify the extent of contaminated groundwater migration from the South BGR property onto the Rifkin Property.

These objectives are described in current work plans for investigation and remediation that have been submitted to the RWQCB (Appendices C and D). The November 7, 1996 work plan addresses the expansion of the groundwater extraction system on the Rifkin Property to allow for containment and remediation of groundwater at the Rifkin Property. The March 28, 1997 work plan addresses investigation of A-zone soil and groundwater. Investigation of B-zone groundwater at the Rifkin Property is addressed in Section 3.7 of this Work Plan. An additional objective for the Rifkin Property is confirmation of a permeable sediment layer in the A-zone at the proposed extraction well locations to be completed prior to installing the extraction wells.

3.4.2 Scope of Work

The scope of work for the above-mentioned objectives is defined in detail in Appendices C and D. One task will be added to the activities described in the November 7, 1996 and March 28, 1997 work plans. CPT borings are to be drilled at each of the three proposed extraction well locations shown on Figure 3.

3.4.3 Data Collection

Three proposed extraction wells will be installed and a CPT boring will be drilled at each of the approximate locations of the proposed extraction wells (Figure 3 and Appendix D-Figure 1). These CPT borings will be drilled to confirm the presence of a permeable layer(s) of sediments in the A-zone interval, so that the extraction wells will have optimum flow rates when being pumped. At each proposed extraction well location, if the CPT boring log indicates that a permeable layer(s) of sediment is not present then the location will be adjusted and a new CPT boring will be drilled at the new location to confirm the presence of a permeable layer(s) of sediment in the A-zone interval. The methodology used for the CPT borings is presented in Appendix E. LFR will obtain the appropriate permits from Alameda County Flood Control and Water Conservation District (Zone 7) before subsurface activities begin.

3.5 Northwestern Area

The investigation of the Northwestern Area will focus on the Sherwin-Williams Property north and west of the slurry wall, the Myer's Drum and Harcros facilities west of Sherwin-Williams, and Temescal Creek, which flows to the San Francisco Bay near the northern Sherwin-Williams property line (Figure 4). The focus of the investigation will be the interaction of surface water and shallow groundwater and downgradient extent of arsenic attributed to Sherwin-Williams in shallow groundwater.

3.5.1 Objectives

The primary objectives the Northwestern area investigation are as follows:

- Evaluate potential contaminant impact to Temescal Creek.
- Assess the interaction between the San Francisco Bay, Temescal Creek, and shallow groundwater at the Site.
- Evaluate the chemical makeup of railroad ballast west of the Sherwin-Williams Property.
- Evaluate the potential for contaminant transport by Temescal Creek.

3.5.2 Scope of Work

Based upon the objectives listed above, the proposed scope of work includes the following tasks:

- Sediment sampling within Temescal Creek and the drainage ditch to evaluate contaminant impact.
- Piezometer installation in the vicinity of Temescal Creek to monitor tidal affects on water-bearing zone groundwater and groundwater/surface water interaction.
- Tidal study to assess the interaction between the San Francisco Bay, Temescal Creek, and shallow groundwater.
- Railroad ballast sampling to evaluate the chemical makeup of railroad ballast on the Sherwin-Williams Property.

3.5.3 Data Collection

Sediment Sampling

Sediment samples will be collected from seven locations within Temescal Creek and two locations within the drainage ditch that traverses the Rifkin Property (Figure 4).

In Temescal Creek, sediment samples will be collected in four locations where sediment samples were previously collected on November 3, 1993: at the northeast boundary of the Sherwin-Williams Property, where the drainage ditch from the Rifkin Property flows into the creek, at the storm sewer outfall, and west of the railroad tracks. One sample will be collected at each of these locations at the northern-most point of the creek where the majority of sediment has collected. Three additional samples will be collected in the creek in the vicinity of the storm sewer outfall: one upstream, one downstream, and one along the northern edge of the creek channel.

The two samples in the Rifkin Property drainage ditch will be collected from the middle of the ditch. One sample will be collected from the east side of the ditch, and the other will be collected midway between the Sherwin-William's property boundary and Temescal Creek.

Sediment samples collected in the drainage ditch may require confined space entry and may require an access agreement. Sediment samples will be collected during low tide to minimize worker exposure to water in the creek.

During sediment sampling, the thickness and aerial extent of sediment will be recorded in order to provide an estimate of the volume of sediment in the creek and drainage ditch.

Sediment samples will be collected between depths of 0.5 and 1 ft using a hand trowel. All samples will be analyzed for arsenic by EPA Method 3050A/6010A.

Piezometer Installation

Piezometers will be installed at five locations at varying distances from Temescal Creek to monitor tidal affects on shallow water-bearing zone groundwater and groundwater/surface water interaction (Figure 4). Two piezometer pairs will be installed in the fill along the north and south sides of the creek. One pair will be located west of the storm sewer outfall, and one pair will be located approximately 100 feet west of monitoring well LF-25. An additional piezometer will be installed in native material north of the piezometer to be installed in the fill material on the north side of the creek.

Piezometers will be continuously cored to a depth of approximately 25 feet using hollow stem auger rig. All piezometers will be constructed of 2-inch-diameter polyvinyl chloride (PVC). Groundwater samples will be collected from the two piezometers installed west of LF-25 and analyzed for arsenic by EPA Method 3050A/6010A. Drilling and piezometer installation procedures are described in the Standard Operating Procedures (Appendix E).

Tidal Study

Twelve locations will be monitored during the tidal study (Figure 4). Water levels at each station will be measured using pressure transducers and automated data loggers. Water levels will be recorded over a continuous 72-hour period. Data loggers will be programmed to collect readings every 15 minutes for the 72-hour period. Once the test is completed, the water level data will be downloaded from the data logger and converted to a spreadsheet file. The data will then be reduced and analyzed.

The monitoring well network will consist of existing monitoring wells LF-8, LF-18, LF-26, LF-20, LF-23, and LF-25, the five newly installed 2-inch piezometers discussed above, and one surface water monitoring station. Each monitoring location will be surveyed vertically and horizontally.

Water levels in monitoring wells LF-8, LF-18, LF-26, LF-20, and LF-25 will be monitored to observe tidal effects at varying distances from Temescal Creek. Well pair LF-8 and LF-18 and well pair LF-26 and LF-20 will be monitored in order to observe tidal effects on adjacent sides of the slurry wall. Water level data at LF-25 and the two new piezometers in the western portion of the Sherwin-Williams property will provide data for the western portion of the Site. Water level measurements from monitoring well LF-23 will be used as control data, since tidal effects are not expected to be observed in this monitoring well. The piezometer installed in native material north of Temescal Creek will provide data which will be compared with data from the piezometers installed in fill material.

One temporary surface water monitoring station will be set up in Temescal Creek to observe tidal fluctuations during the test. This station will be located adjacent to the two piezometers that will be installed in artificial fill by the creek near the storm sewer outfall (Figure 4).

Tidal study field procedures are described in the Standard Operating Procedures (Appendix E).

Railroad Ballast Sampling

Four representative railroad ballast samples will be collected between depths of 2 and 3 feet to determine the chemical makeup of the material used at the railroad tracks. Railroad ballast samples will be analyzed for CAM 17 Metals.

3.6 Southern Area

The Southern Area of the Sherwin-Williams site is located south of the slurry wall. The area is bounded to the south by Sherwin Avenue, to the east by the north Horton Street sidewalk, and to the west by Myer's Drum and Barbary Coast Steel.

The area consists of Yards A-1 and A-2, a 100,800 ft^2 manufacturing building (Building 35), three smaller warehouses (Buildings 1, 2, and 31), two tank storage buildings (Buildings 29 and 34), a treatment system (Building 30), one storage building (Building 4), two factories (Buildings 2 and 28) and an un-numbered warehouse office. Three existing monitoring wells (LF-11, LF-13, and LF-B4) are located in this area.

3.6.1 Objectives

The primary objectives for the Southern Area are the following:

- Assess potential sources of contamination through selective sampling of soil and groundwater.
- Evaluate the extent of contaminants, if present, in the vadose zone and shallow groundwater.

3.6.2 Scope of Work

Based upon the objectives listed above, the proposed scope of work includes the following tasks:

- Soil and groundwater sampling at 20 locations and one soil boring location.
- Installation, development, and sampling of five A-zone monitoring wells.

3.6.3 Data Collection

Soil and Groundwater Sampling

Twenty soil and groundwater borings and one soil boring will be drilled in the Southern Area. Ten of the soil and groundwater borings will be located in Yards A-1 and A-2,

and ten will be located within the large manufacturing area (Building 35). The soil boring will be drilled immediately west of the truck ramp (Figure 5).

Under the supervision of an LFR geologist, an EnviroCore rig will be used to collect a soil sample at two different depths above the groundwater table at each soil and groundwater sampling location. Soil samples will be collected at 1 and 4 feet bgs. Following the collection of the soil samples, a discrete groundwater sampling tool will be attached to the hydraulically driven push-rod and one groundwater sample will be collected from the A-zone at each location. When possible, samples will be collected where sand layers are identified. Groundwater samples will be analyzed for Title 22 metals, VOCs by EPA Method 8260, and SVOCs by EPA Method 8270. Drilling and sampling procedures are described in Appendix E.

The soil boring will be drilled near the truck apron near the southwest corner of Building 35. Soil samples will be collected immediately below the concrete/asphalt base and at four feet. The soil samples will be analyzed for arsenic as part of the Horton Street investigation.

Soil and groundwater samples will be submitted to American Environmental Network (AEN) of Pleasant Hill, a California-certified laboratory, for chemical analysis on a standard laboratory turnaround schedule of two weeks.

Monitoring Well Installation

Five monitoring wells will be installed along the site perimeter (Figure 5). Three of these wells will be located south of groundwater monitoring well LF-11 along the western side of Building 35 using a hollow-stem auger drill rig, and the other two will be located in the southern portion of the Site along Sherwin Avenue. The locations of these monitoring wells may be adjusted based on underground utilities or above ground obstacles.

Each monitoring well will be completed to a depth of 20 to 25 feet bgs using a hollow stem auger drill rig. Soil samples will be collected at depths of 1 and 4 feet bgs from four of the five monitoring well borings. Soil samples were previously collected near the proposed fifth well (the most eastern on Sherwin Avenue) during the Horton Street investigation. After installation, all wells will be developed and sampled. Drilling, development, and sampling procedures are described in the Standard Operating Procedures (Appendix E).

Soil and groundwater samples will be submitted to American Environmental Network (AEN) of Pleasant Hill, a California-certified laboratory, for chemical analysis on a standard laboratory turnaround schedule of two weeks. Groundwater samples will be analyzed for Title 22 metals, VOCs by EPA Method 8260, and SVOCs by EPA Method 8270.

The newly installed monitoring wells will be sampled during regular quarterly monitoring events and initially (at least three quarters) analyzed for Title 22 Metals, SVOCs by EPA Method 8270, and VOCs by EPA Method 8260.

3.7 B-Zone Investigation

Lithologic data collected during previous investigations indicates that the B-zone consists of a thick interval of well-sorted, coarse-grained sand and gravel interbedded with silty clay. B-zone groundwater is generally encountered at approximately 28 to 38 feet bgs. The B-zone investigation will focus on characterizing the B-zone underlying the Site.

3.7.1 Objectives

The data from the A-zone investigations described in this work plan will be used to guide the B-zone investigation at the Site. The primary objectives of the proposed B-zone investigation are to:

- Characterize the lithology and thickness of the B-zone and the aquitard below the B-zone.
- Characterize B-zone groundwater quality and flow direction.

3.7.2 Scope of Work

Based on the objectives listed above, the scope of work includes the following tasks:

- Drilling CPT borings to collect B-zone lithologic data.
- Drilling EnviroCore borings to assess the distribution of arsenic in the B-zone.
- Installing B-zone groundwater monitoring wells to monitor water quality.

3.7.3 Data Collection

CPT Borings

Four CPT borings will be drilled to collect lithologic data which will be used to define the B-zone at the Site (Figure 6). Each boring will be advanced through the A-zone, the aquitard between the A-zone and the B-zone, the B-zone, and five feet into the first acceptable aquitard below the B-zone. The first acceptable aquitard below the B-zone sediments is defined as the first 5-foot interval below the B-zone with mostly clayey sediments and good aquitard characteristics.

The four CPT locations will be located at areas where historical data indicates that A-zone soil and groundwater is not significantly affected. Therefore, it is unlikely that cross-contamination between the A-zone and B-zone will occur. As an extra

precautionary measure, while drilling the CPT borings, communication between the A-zone and B-zone will be limited by using a "grout collar" to seal the borehole while pushing the CPT probe. When using the "grout collar" method, a rubber seal is installed at the ground surface of the borehole. Grout is then injected near the CPT tip as the CPT cone and rods are pushed through the sediments. Grout is also injected as the CPT cone and rods are removed from the borehole. CPT procedures are presented in Appendix E.

EnviroCore Borings

Eleven borings will be drilled using the EnviroCore system to assess the distribution of arsenic in the B-zone (Figure 6). The EnviroCore system was selected because it is designed to limit communication between hydrogeologic and lithologic intervals. The locations of the proposed borings were selected using historical data and information previously collected at the Site.

Each boring will be advanced approximately 3 feet into the aquitard below the B-zone. The depth of the aquitard below the B-zone will be estimated using the lithological data collected from the four CPT borings.

Two discrete groundwater samples will be collected from each EnviroCore boring: one from the upper B-zone and one from the lower B-zone. The upper and lower B-zone will be defined during the CPT investigation. Soil samples will be collected on a continuous basis for lithologic description in all borings. Soil samples will not be retained for chemical analysis. A description of the EnviroCore system and the sampling methodology is included in Appendix E.

Groundwater samples will be submitted to AEN of Pleasant Hill, a California-certified laboratory, for chemical analysis on a standard laboratory turnaround schedule of two weeks. Samples will be analyzed for Title 22 Metals, SVOCs by EPA Method 8270, and VOCs by EPA Method 8260.

Monitoring Well Installation

Three B-zone groundwater monitoring wells will be installed to monitor groundwater quality (Figure 6). The proposed locations may be adjusted based on the information collected from the CPT borings and the EnviroCore borings. Monitoring well installation procedures are presented in Appendix E.

Groundwater samples will be submitted to AEN of Pleasant Hill, a California-certified laboratory, for chemical analysis on a standard laboratory turnaround schedule of two weeks. Samples will be analyzed for Title 22 Metals, SVOCs by EPA Method 8270, and VOCs by EPA Method 8260.

The newly installed monitoring wells will be sampled during regular quarterly monitoring events and initially (at least three quarters) analyzed for Title 22 Metals, SVOCs by EPA Method 8270, and VOCs by EPA Method 8260.

3.8 Inside Slurry Wall

The portion of the Site enclosed by the slurry wall and covered with an impervious cap is located in the northern half of the Sherwin-Williams Property (Figure 7). The area enclosed is approximately 165,000 square feet. Currently, this area is mainly unoccupied or used for parking.

Three extraction wells (EX-1, EX-2, and EX-3) are located within the slurry wall (Figure 7). Three B-zone aquifer monitoring wells (LF-B3, LF-B5, and LF-B6) are also located within the slurry wall. Six of the seven A-zone aquifer monitoring wells inside the slurry wall are paired with similar wells immediately outside the slurry wall.

3.8.1 Objectives

The objectives for investigation inside the slurry wall area are as follows:

- Definition and characterization of the water table within the slurry wall.
- Definition and characterization of groundwater potential differences across the slurry wall.

3.8.2 Scope of Work

Based upon the objectives listed above, the proposed scope of work involves installing and developing 10 piezometers.

3.8.3 Data Collection

Piezometer Installation

Ten A-zone aquifer piezometers will be completed to a depth of 15 to 20 feet at the locations shown in Figure 7. Four of the piezometers will be installed within the capped area, while the other six will be installed as three pairs: one immediately inside the wall and one immediately outside. The locations of these piezometers may be adjusted based on underground utilities and/or above ground obstacles.

The wells will be installed by the EnviroCore method as described in Appendix E. The piezometers will be ¾-inch in diameter with prepacked PVC construction.

4.0 REPORT

Sherwin-Williams will meet with the RWQCB periodically during the site investigations to present and discuss data results. Upon completion of the investigation tasks, LFR will prepare and submit a report describing the results of the field investigations on behalf of Sherwin-Williams. The report will contain a summary of all

data collected during the field investigations, evaluation of the data, recommendations, and an evaluation of risk management at the Site.

4.1 Data Evaluation

Data collected from the Site will include analytical data from soil, groundwater, and sediment samples; geotechnical data; tidal study data; and current data on physical conditions present at the Site. This data will be integrated into an analysis of the extent of soil and groundwater contamination; and preferential pathways and conduits that may affect the migration of contamination at the Site. The tools to be used in this analysis include:

- Groundwater elevation contour maps.
- Groundwater isoconcentration contour maps.
- Evaluate contaminant movement based on tidal study and sample analytical results.
- Geologic cross sections.
- Geologic unit contouring.
- Conceptual models of geology and hydrogeology.
- Human-made conduit evaluations.
- Natural conduit evaluations.

4.2 Risk Management Plan

The data collection and interpretation activities discussed in this report will be used to evaluate sources, pathways, and receptors to assess possible human health and environmental risks. A conceptual exposure model and screening-level risk evaluation will be presented in this report. This risk evaluation will be used as the basis for a risk management plan for the site, to be prepared under separate cover.

If the screening-level evaluation indicates the potential for risk, the risk management plan will determine site-specific cleanup goals based on potential pathways, exposure scenarios, and receptors. These site-specific cleanup goals will consider the potential for transport and exposure, and will be established to reasonably protect human health and the environment, and to protect existing and potential beneficial uses.

Depending on the findings of the investigation, the risk management plan may identify a combination of remedies and other risk management strategies. The risk management plan may delineate a number of "risk management zones," based on chemical occurrence, transport pathways and potential receptors. The type and scope of proposed actions will depend on a number of factors, including cost, feasibility, level of potential risk, and the potential to affect beneficial uses. Risk management measures that may be evaluated include actions that would control chemical exposures, including engineering and institutional controls.

4.3 Report Preparation

After receiving RWQCB approval of this work plan, LFR will prepare an initial report for submittal to the RWQCB and detailing the evaluation of current site conditions and potential human-made conduits for migration of contaminants at the Site. These reports will provide input and possible modifications to the other investigation tasks described in this work plan.

Upon completion of all investigation work, LFR will also prepare a complete report on the investigation at the Site and submit the report to the RWQCB for review and discussion.

5.0 PROJECT SCHEDULE

This schedule has been prepared for the work plan based on experience for previous work conducted at the Site. Figure 8 shows a timeline for activities and deliverables associated with this work plan. The schedule may need to be modified depending on whether time required for work plan approval by the RWQCB, and access for investigation on off-site properties.

REFERENCES

Harding Lawson Associates. 1992. Preliminary Site Assessment, 4525 - 4563 Horton Street, Emeryville. San Francisco, California. October 20.

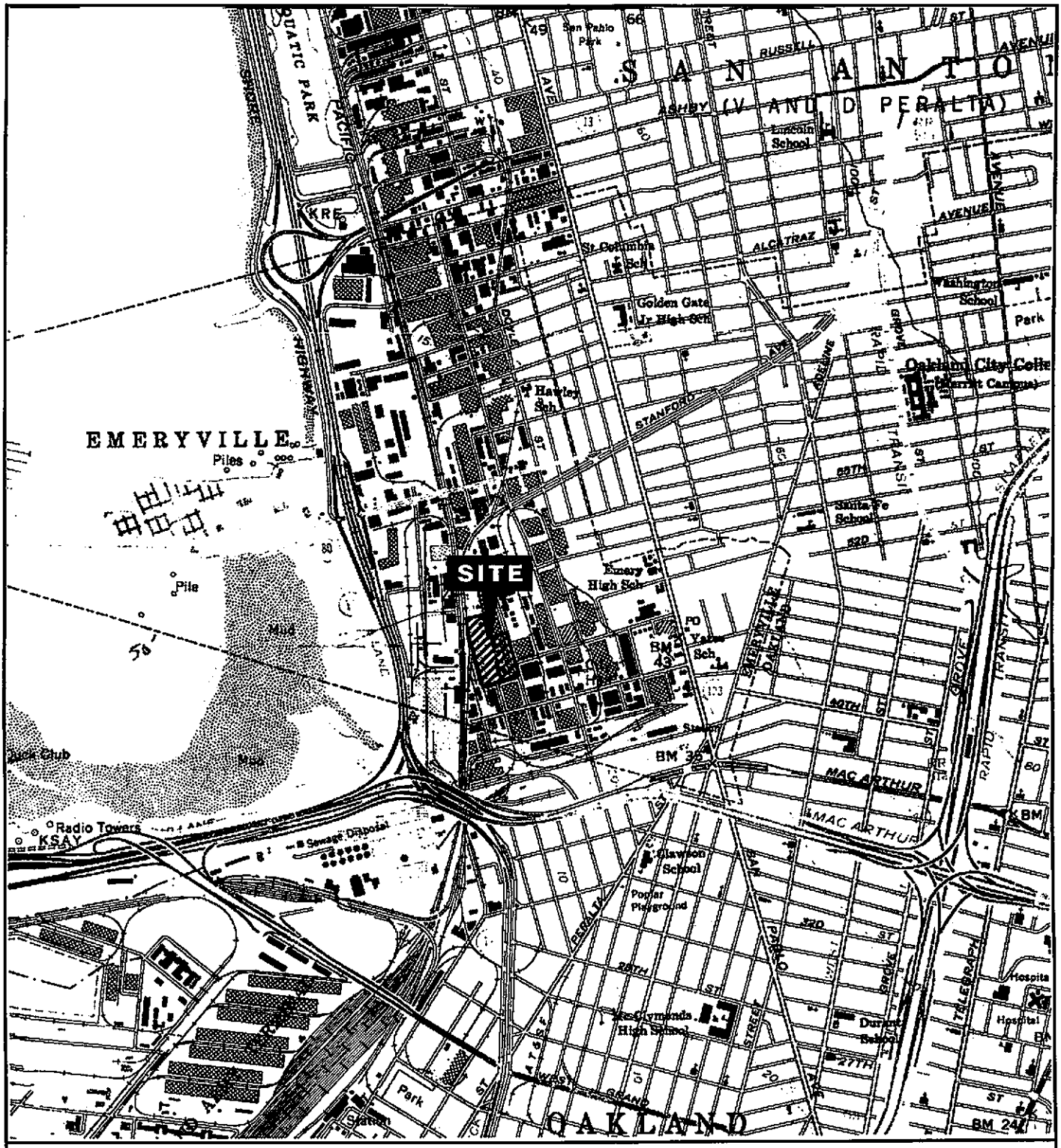
Levine·Fricke·Recon Inc. 1996. Underground Storage Tank Removal Report, Sherwin-Williams Facility. Emeryville, California. March 15.

Table 1
Investigative Concerns and Proposed Activity
1450 Sherwin Avenue, Emeryville, California

Investigative Concern	Proposed Investigative Activity	Number of Stations	Sample Type	Number of Samples per Station	Approximate Sample Depths (ft bgs)	Laboratory Analyses
Human-Made Conduits	Geophysical Survey (pending review of records)	TBD	NA	NA	NA	NA
	Soil/Groundwater/Sediment Samples (pending review of records)	TBD	TBD	TBD	TBD	TBD
Horton Street Soils	Street Borings*	24	Soil	2 or 3	0.5, 3, and 6.5	Arsenic (cadmium, lead, and zinc) by EPA Methods 3050A/6010A
	Co-Op Borings*	18	Soil	2	0.5 and 3	Arsenic and lead by EPA Methods 3050A/6010A
	Sidewalk Concrete Cores*	7	Concrete	1	0.5	Metals by EPA Methods 3050A/6010A/7471A
	Sidewalk Borings*	113	Soil	2	0.5 and 2.5	Arsenic and lead by EPA Methods 3050A/6010A
Rifkin Property	CPT Lithologic Boring	18	NA	NA	NA	NA
	GeoProbe Soil Borings	18	Soil	2	Between Ground Surface and Top of Groundwater	Arsenic, lead, zinc by EPA Methods 3050A/6010A, VOCs by EPA Method 8260, and SVOCs by EPA Method 8270
	Discrete Groundwater Samples	18	Groundwater	2	Saturated Soil Above 15 and Between 15 and 30	Arsenic, lead, zinc, by EPA Method 6000/7000 series, SVOCs by EPA 8270, VOCs by EPA Method 8260, TPHg by EPA Method 5030 GCFID, TPHd by EPA Methods 3510/3550, pH, and PCBs by EPA Method 8080
	Monitoring Well Sampling	4	Groundwater	1	A-Zone Groundwater	Arsenic by EPA Method 6000/7000 series, SVOCs by EPA 8270, VOCs by EPA Method 8260, TPHg by EPA Method 5030 GCFID, and TPHd by EPA Methods 3510/3550
Northwestern Area	Sediment Sampling	9	Sediment	1	1	Arsenic by EPA Methods 3050A/6010A
	Piezometer Installation	5	Groundwater	1 at 2 Stations	A-Zone Groundwater	Arsenic by EPA Methods 3050A/6010A
	Tidal Study	12	NA	NA	NA	NA
	Railroad Ballast Sampling	4	Ballast	1	2 to 3	CAM 17 Metals
	Outfall Mapping and Inspection	NA	NA	NA	NA	NA
Southern Area	GeoProbe/HydroPunch Borings	20	Soil and Groundwater	2 Soil/1 Groundwater	1 and 4 Soil/A-Zone Groundwater	Title 22 metals, VOCs by EPA Method 8260, SVOCs by EPA Method 8270
	A-Zone Monitoring Well	5	Soil and Groundwater	2 Soil/1 Groundwater	1 and 4 Soil/A-Zone Groundwater	Title 22 metals, VOCs by EPA Method 8260, SVOCs by EPA Method 8270
	Soil Boring	1	Soil	2	1 and 4	Arsenic by EPA Methods 3050A/6010A
B-Zone Aquifer	EnviroCore Boring	10	Groundwater	2	Upper B-Zone and Lower B-Zone	Title 22 Metals, SVOCs by EPA Method 8270, VOCs by EPA Method 8260, TPHg by EPA Method 5030 GCFID, and TPHd by EPA Methods 3510/3550
	B-Zone Monitoring Well	3	Groundwater	1	B-Zone Groundwater	Title 22 Metals, SVOCs by EPA Method 8270, VOCs by EPA Method 8260, TPHg by EPA Method 5030 GCFID, and TPHd by EPA Methods 3510/3550, and General Minerals
	CPT Lithologic Boring	4	NA	NA	NA	NA
Inside Slurry Wall	Piezometer Installation	10	NA	NA	NA	NA

NOTES:

NA = not applicable
TBD = to be determined
* Work completed as of May 1997
CPT = cone penetrometer testing
GCFID = gas chromatograph flame ionization detector
PCB = polychlorinated biphenyl
SVOC = semivolatile organic compound
TPHd = total petroleum hydrocarbons for diesel
TPHg = total petroleum hydrocarbons for gasoline
VOC = volatile organic compound



Map Source:
U.S.G.S. Oakland West Quadrangle,
Oakland West, California
7.5 Minute Series

0 1/2 1 MILE

SHERWIN-WILLIAMS

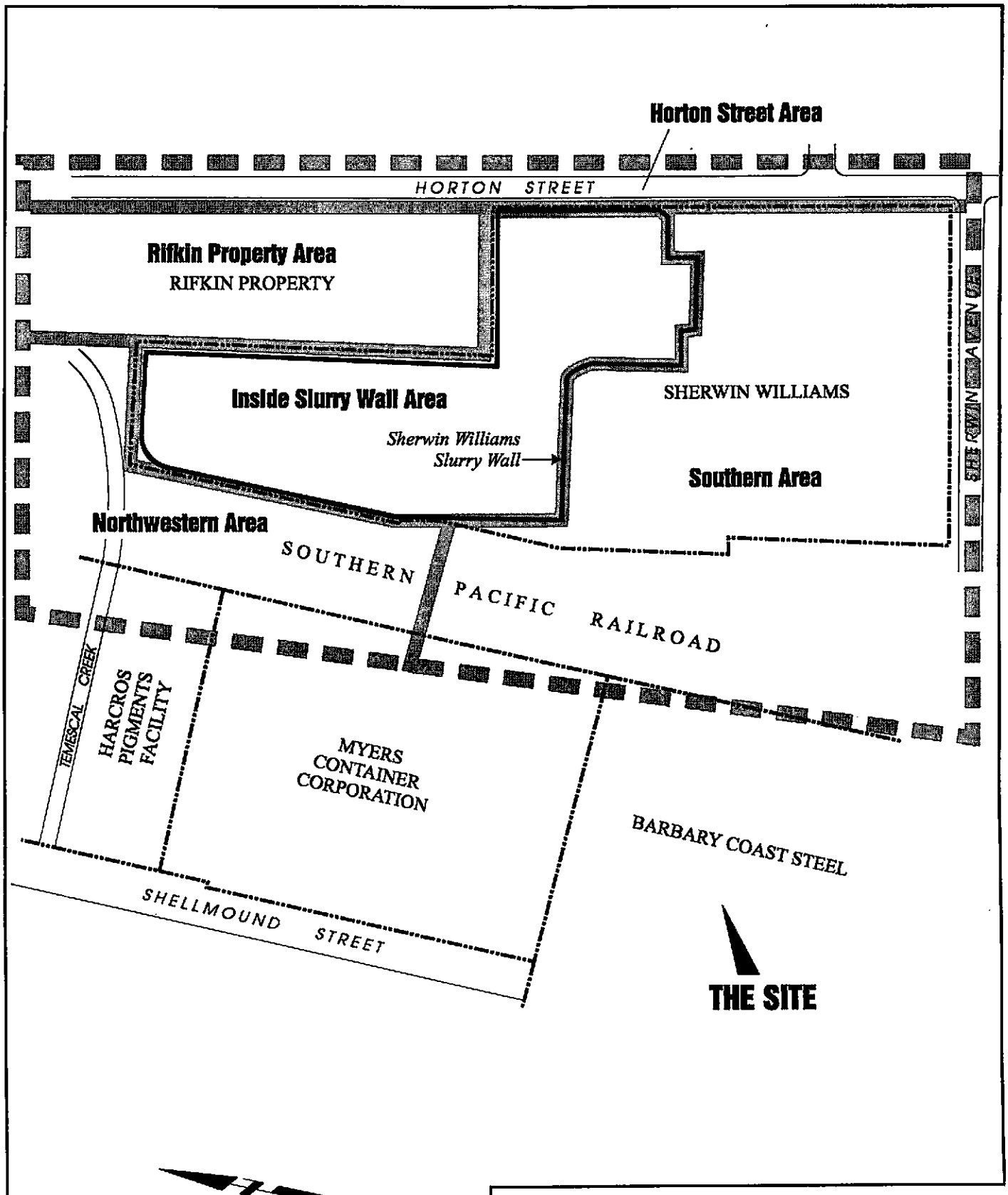
Site Location Map

Levine-Fricke-Recon

Figure 1

Project No. 3435

3435SV01.CDR 102496RYL:KAG



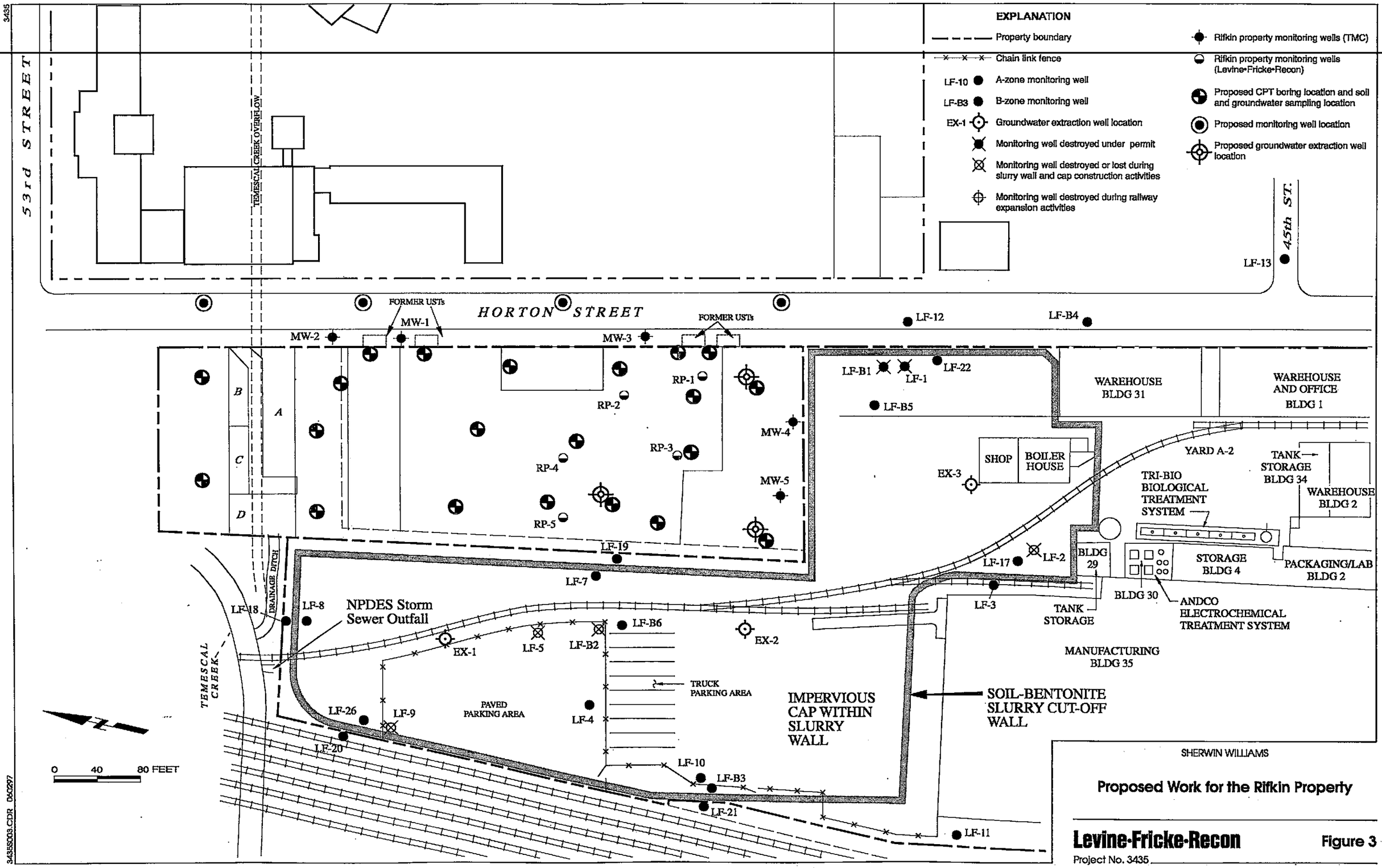
SHERWIN-WILLIAMS

Area Map

Levine-Fricke-Recon **Figure 2**

Project No. 3435

3435S002.CDR 060297



SHERWIN WILLIAMS

Proposed Work for the Rifkin Property

Levine-Fricke-Recon Figure 3

Project No. 3435

3435V004.CDR 060297

HORTON STREET

LF-13

MW-2 MW-1 MW-3 LF-12 LF-B4

RP-1 LF-B1 LF-1 LF-22

RP-2 LF-B5

MW-4

RP-4 RP-3

MW-5

RP-5

LF-19

LF-7

LF-18 LF-8 NPDES Storm Sewer Outfall

EX-1 LF-5 LF-B2 LF-B6 EX-2

LF-4

LF-26 LF-9 LF-20

LF-10 LF-B3

LF-21

LF-25 LF-14

LF-24 LF-15

LF-23 LF-16

LF-11

LF-17 LF-2

LF-3

TEMESCAL CREEK

DRAINAGE DITCH 1

PAVED PARKING AREA

TRUCK PARKING AREA

IMPERVIOUS CAP WITHIN SLURRY WALL

SOIL-BENTONITE SLURRY CUT-OFF WALL

Northwestern Area

WAREHOUSE BLDG 31

WAREHOUSE AND OFFICE BLDG 1

SHOP

BOILER HOUSE

EX-3

YARD A-2

YARD A-1

TANK STORAGE BLDG 34

WAREHOUSE BLDG 2

TRI-BIO BIOLOGICAL TREATMENT SYSTEM

MANUFACTURING BLDG 28

BLDG 29

STORAGE BLDG 4

PACKAGING/LAB BLDG 2

BLDG 30

ANDCO ELECTROCHEMICAL TREATMENT SYSTEM

TANK STORAGE

PACKAGING AND OFFICE

MANUFACTURING BLDG 35

SHERWIN AVENUE

EDGE OF PAVEMENT AND EASEMENT LINE

0 40 80 FEET

EXPLANATION

- Property boundary
- Chain link fence
- LF-10 A-zone monitoring well
- LF-B3 B-zone monitoring well
- EX-1 Groundwater extraction well location
- Monitoring well destroyed under permit
- Monitoring well destroyed or lost during slurry wall and cap construction activities
- Monitoring well destroyed during railway expansion activities
- Rifkin property monitoring wells (TMC)
- Rifkin property monitoring wells (Levine•Fricke•Recon)
- Proposed sediment sample
- Proposed piezometer
- Proposed surface water monitoring location
- Proposed tidal study monitoring location

34358009.CDR 060297

SHERWIN WILLIAMS

Proposed Work for the Northwestern Area

Levine•Fricke•Recon Figure 4

Project No. 3435

3435V003.CDR 060297

HORTON STREET

MW-2 MW-1 MW-3 RP-1 RP-2 RP-4 RP-3 MW-4 MW-5 RP-5

LF-13 LF-12 LF-B4 LF-B1 LF-1 LF-22 LF-B5

WAREHOUSE BLDG 31

WAREHOUSE AND OFFICE BLDG 1

SHOP BOILER HOUSE EX-3

YARD A-2 YARD A-1

TRI-BIO BIOLOGICAL TREATMENT SYSTEM

TANK STORAGE BLDG 34

WAREHOUSE BLDG 2

MANUFACTURING BLDG 28

LF-19 LF-7 LF-17 LF-2 BLDG 29 STORAGE BLDG 4 PACKAGING/LAB BLDG 2

LF-18 DRAINAGE DITCH LF-8 NPDES Storm Sewer Outfall LF-3 TANK STORAGE BLDG 30 ANDCO ELECTROCHEMICAL TREATMENT SYSTEM

TEMESCAL CRBBK

EX-1 LF-5 LF-B2 LF-B6 EX-2

TRUCK PARKING AREA

IMPERVIOUS CAP WITHIN SLURRY WALL

PACKAGING AND OFFICE

SHERWIN AVENUE

MANUFACTURING BLDG 35

Southern Area

LF-26 LF-9 PAVED PARKING AREA LF-4 LF-20 LF-10 LF-B3 LF-21

SOIL-BENTONITE SLURRY CUT-OFF WALL

LF-11

EDGE OF PAVEMENT AND EASEMENT LINE

LF-25 LF-14 LF-24 LF-15 LF-23 LF-16

0 40 80 FEET

EXPLANATION

- Property boundary
- Chain link fence
- LF-10 A-zone monitoring well
- LF-B3 B-zone monitoring well
- EX-1 Groundwater extraction well location
- Monitoring well destroyed under permit
- Monitoring well destroyed or lost during slurry wall and cap construction activities
- Monitoring well destroyed during railway expansion activities
- Rifkin property monitoring wells (TMC)
- Rifkin property monitoring wells (Levine•Fricke•Recon)
- Proposed soil/groundwater sample location
- Proposed monitoring well
- Proposed soil sample location

3435B009.CDR 052297

SHERWIN WILLIAMS

Proposed Work for Southern Area

Levine•Fricke•Recon Figure 5

Project No. 3435

3435V005.CDR 060297

HORTON STREET

MW-2 MW-1 MW-3 RP-1 RP-2 RP-4 RP-3 MW-4 MW-5 RP-5

LF-13 LF-12 LF-B4 LF-B1 LF-1 LF-22 LF-B5

WAREHOUSE BLDG 31

WAREHOUSE AND OFFICE BLDG 1

SHOP BOILER HOUSE EX-3

YARD A-2 YARD A-1

TRI-BIO BIOLOGICAL TREATMENT SYSTEM

TANK STORAGE BLDG 34

WAREHOUSE BLDG 2

MANUFACTURING BLDG 28

LF-19 LF-7 LF-17 LF-2 LF-3

BLDG 29 STORAGE BLDG 4 PACKAGING/LAB BLDG 2

BLDG 30 ANDCO ELECTROCHEMICAL TREATMENT SYSTEM

TANK STORAGE

LF-18 LF-8 NPDES Storm Sewer Outfall DRAINAGE DITCH

EX-1 LF-5 LF-B2 LF-B6 EX-2

TRUCK PARKING AREA

PAVED PARKING AREA

LF-26 LF-9 LF-4 LF-20

IMPERVIOUS CAP WITHIN SLURRY WALL

SOIL-BENTONITE SLURRY CUT-OFF WALL

LF-10 LF-B3 LF-21 LF-11

MANUFACTURING BLDG 35

PACKAGING AND OFFICE

SHERWIN AVENUE

TEMESCAL CREEK

LF-25 LF-14 LF-24 LF-15 LF-23 LF-16

EDGE OF PAVEMENT AND EASEMENT LINE

0 40 80 FEET

EXPLANATION

- Property boundary
- Chain link fence
- LF-10 A-zone monitoring well
- LF-B3 B-zone monitoring well
- EX-1 Groundwater extraction well location
- Monitoring well destroyed under permit
- Monitoring well destroyed or lost during slurry wall and cap construction activities
- Monitoring well destroyed during railway expansion activities
- Rifkin property monitoring wells (TMC)
- Rifkin property monitoring wells (Levine•Fricke•Recon)
- Proposed B-zone Envirocore boring location
- Proposed B-zone monitoring well location
- Proposed CPT boring location

SHERWIN WILLIAMS

Proposed B-Zone EnviroCore Soil Boring and Monitoring Well Locations

Levine-Fricke-Recon Figure 6

Project No. 3435

3435B009.CDR 060297

3435V002.CDR 060297

HORTON STREET

SHERWIN AVENUE

TEMESCAL CREEK

DRAINAGE DITCH

MW-1 MW-2 MW-3 MW-4 MW-5

RP-1 RP-2 RP-3 RP-4 RP-5

LF-1 LF-2 LF-3 LF-4 LF-5 LF-7 LF-8 LF-9 LF-10 LF-11 LF-12 LF-13 LF-14 LF-15 LF-16 LF-17 LF-18 LF-19 LF-20 LF-21 LF-22 LF-23 LF-24 LF-25 LF-26

LF-B1 LF-B2 LF-B3 LF-B4 LF-B5 LF-B6

EX-1 EX-2 EX-3

NPDES Storm Sewer Outfall

PAVED PARKING AREA

TRUCK PARKING AREA

IMPERVIOUS CAP WITHIN SLURRY WALL

SOIL-BENTONITE SLURRY CUT-OFF WALL

WAREHOUSE BLDG 31

WAREHOUSE AND OFFICE BLDG 1

SHOP

BOILER HOUSE

YARD A-2

YARD A-1

TANK STORAGE BLDG 34

WAREHOUSE BLDG 2

TRI-BIO BIOLOGICAL TREATMENT SYSTEM

MANUFACTURING BLDG 28

BLDG 29

STORAGE BLDG 4

PACKAGING/LAB BLDG 2

BLDG 30

ANDCO ELECTROCHEMICAL TREATMENT SYSTEM

TANK STORAGE

PACKAGING AND OFFICE

MANUFACTURING BLDG 35

EDGE OF PAVEMENT AND BASEMENT LINE

N

0 40 80 FEET

EXPLANATION

- Property boundary
- Chain link fence
- LF-10 A-zone monitoring well
- LF-B3 B-zone monitoring well
- EX-1 Groundwater extraction well location
- Monitoring well destroyed under permit
- Monitoring well destroyed or lost during slurry wall and cap construction activities
- Monitoring well destroyed during railway expansion activities
- Rifkin property monitoring wells (TMC)
- Rifkin property monitoring wells (Levine•Fricke•Recon)
- Proposed piezometer

3435B009.CDR 060297

SHERWIN WILLIAMS

Proposed Work for Inside Slurry Wall

Levine-Fricke-Recon Figure 7

Project No. 3435

Appendix A

RWQCB, Cleanup and Abatement Order No. 97-047

Cal/EPA

San Francisco Bay
Regional Water
Quality Control Board

2101 Webster Street
Suite 500
Oakland, CA 94612
(510) 286-1255
FAX (510) 286-1380

Pete Wilson
Governor

April 7, 1997
File: 2199.9309(SA)

Mr. Larry Mencin
The Sherwin-Williams Company
101 Prospect Avenue, N.W.
Cleveland, OH 44115

Mr. Frank McHugh
The Sherwin-Williams Company
1450 Sherwin Avenue
Emeryville, CA 94608

SUBJECT: Cleanup And Abatement Order No. 97-047

Dear Messrs. Mencin and McHugh:

Enclosed is a copy of the Cleanup and Abatement Order (CAO) No. 97-047, relating to the discharge of pollution to the soil and groundwater at the Sherwin-Williams facility, Emeryville, Alameda County. This discharge is contrary to the California Water Code. The CAO contains certain tasks and submittal deadlines to be met.

If you have any questions regarding the CAO, please contact Sumadhu Arigala of my staff at (510) 286-0434.

Sincerely,

Loretta K. Barsamian
Executive Officer

Attachment: Cleanup and Abatement Order No. 97-047

cc w/attacment:

Barbara Cook, DTSC
700 Heinz Avenue, Suite 200
Berkeley, CA 94710-2737

Tom Dunkelman, US EPA
ER Section H-8-3
75 Hawthorne Street
San Francisco, CA 94105

Michael Biddle, City of Emeryville
2200 Powell Street, 12th Floor
Emeryville, CA 94608-1806

Susan Hugo, ACDEH
1131 Harbor Bay Parkway, 2nd Flr.
Alameda, CA 94502

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

CLEANUP AND ABATEMENT ORDER NO. 97-047:

THE SHERWIN-WILLIAMS COMPANY

For the site located at

1450 SHERWIN AVENUE
EMERYVILLE
ALAMEDA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter Board), finds that:

1. **Site Location**: The site is located at the corner of Horton Street and Sherwin Avenue (1450 Sherwin Avenue) in Emeryville, Alameda County. The Sherwin-Williams Company (Sherwin-Williams) owns and operates a coatings manufacturing facility at the site. The northern-most site boundary is approximately 10 feet from Temescal creek.

2. **Site History**: Since the early 1900's, Sherwin-Williams has manufactured coating products and lead-arsenate pesticides at the site. The manufacturing of lead-arsenate pesticides ceased in the 1940's. In 1987, the manufacturing of coatings was changed from oil-based products to water based products. This change resulted in the closure and dismantling of an oil storage tank farm and a solvent storage tank farm. Several phases of soil and groundwater investigation were subsequently conducted.

3. **Named Discharger**: Sherwin-Williams is named as the discharger because it owned and operated the facility on the site at the time of the discharge, and currently owns the site.

4. **Remedial Investigation**: Several phases of soil and groundwater investigation were conducted at the site, from 1988 to 1991, to assess the nature and extent of the chemical contamination. The soil and groundwater investigations at the site revealed the presence of metals, Volatile Organic Chemicals (VOCs), Semi-Volatile Organic Chemicals (SVOCs), and total petroleum hydrocarbons in the gasoline and diesel range. The metals detected at the site are primarily arsenic, lead, cadmium, and zinc. The VOCs detected at the site are primarily acetone, benzene, ethylbenzene, toluene, xylene isomers, methyl ethyl ketone, and 2-hexanone. The SVOCs detected at the site are primarily napthalene, 2-methyl napthalene, 2-methyl phenol, 4-methyl phenol, 2,4-dimethyl phenol, phthalates, and a range of tentatively identified straight chain (C-7 to C-35) hydrocarbons. The presence of these constituents in soil and groundwater create or threatens to create a condition of pollution or nuisance.

5. **Interim Remedial Measures**: In November 1994, Sherwin-Williams completed the installation of a soil/ cement-bentonite slurry wall to contain on-site pollution sources and prevent continual migration of polluted groundwater. In September 1995, Sherwin-Williams completed the construction of an environmental cap and a storm-water collection system to prevent vertical migration of chemicals into groundwater due to rain-water infiltration and provide a direct barrier to human exposure and wind- erosion. A groundwater extraction and treatment system was installed to maintain an inward hydraulic gradient and treat the extracted groundwater. The treated groundwater is discharged under the General Waste Discharge Requirements of Order No. 94-087, NPDES permit No. CAG912003.

6. **Adjacent Sites**: The on-site pollution has migrated to adjacent properties. The property at 4525-4563 Horton Street, located immediately north and adjacent to the site, has been significantly impacted by pollution originating from site. Arsenic concentrations up to 12000 ppm and lead concentrations up to 21000 ppm were detected in soil at the west side of Horton Street adjacent to the site. Arsenic concentrations up to 920 ppm and lead concentrations up to 3600 ppm were detected in soil at the east side of Horton Street. The pollution at Horton Street has raised public health concerns that need to be addressed immediately and is required by this Order.

7. **Basin Plan**: The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on June 21, 1995. This updated and consolidated plan represents the Board's master water quality control planning document. The revised Basin Plan was approved by the State Water Resources Control Board and the Office of Administrative Law on July 20, 1995, and November 13, 1995, respectively. A summary of regulatory provisions is contained in 23 CCR 3912. The Basin Plan defines beneficial uses and water quality objectives for waters of the State, including surface waters and groundwaters.

   The potential beneficial uses of groundwater underlying and adjacent to the site include:

   a. Municipal and domestic water supply
   b. Industrial process water supply
   c. Industrial service water supply
   d. Agricultural water supply

8. **Basis for 13304 Order**: The discharger has caused or permitted waste to be discharged or deposited where it is or probably will be discharged into waters of the State and creates or threatens to create a condition of pollution or nuisance.

9. **CEQA**: This action is an order to enforce the laws and regulations administered by the Board. As such, this action is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to Section 15321 of the Resources Agency Guidelines.

IT IS HEREBY ORDERED, pursuant to Section 13304 of the California Water Code, that the discharger (or its agents, successors, or assigns) shall cleanup and abate the effects described in the above findings as follows:

A. PROHIBITIONS

1. The discharge of wastes or hazardous substances in a manner which will degrade water quality or adversely affect beneficial uses of waters of the State is prohibited.

2. Further significant migration of wastes or hazardous substances through subsurface transport to waters of the State is prohibited.

3. Activities associated with the subsurface investigation and cleanup which will cause significant adverse migration of wastes or hazardous substances are prohibited.

TASKS

1. By April 14, 1997, submit a workplan acceptable to the Executive Officer that contains a description and a time schedule for the implementation of tasks and procedures necessary to clean up impacted soils in the vicinity of Horton Street to levels that are protective of the public health, environment, and water quality.

2. By May 1, 1997, submit a workplan acceptable to the Executive Officer to investigate the existence of natural and human-made preferential pathways and lateral & vertical conduits for migration of pollution at the site.

3. By May 12, 1997, submit a workplan acceptable to the Executive Officer to fully define the extent of the soil and groundwater pollution, outside the existing slurry wall, in the on-site and off-site areas.

Pursuant to Section 13304 of the Water Code, the Discharger is hereby notified that the Regional Board is entitled to, and may seek reimbursement for, all reasonable costs actually incurred by the Regional Board to investigate unauthorized discharges of wastes and to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action, required by this Order. Upon receipt of a billing statement for such costs, the Discharger shall reimburse the Regional Board.

Pursuant to California Water Code sections 13304 and 13350, if a Discharger fails to comply with the provisions of this Order, the Board may schedule a hearing to consider assessing civil monetary penalties and to consider requesting the Attorney General to take appropriate enforcement action against the Discharger, including injunctive and civil monetary remedies.

Loretta K. Barsamian
Executive Officer

April 7, 1997
Date Ordered

Appendix B

Soil Investigation in the Vicinity of the Southern Rifkin Property, Dated June 2, 1997

Soil Investigation in the Vicinity of the Southern Rifkin Property
Emeryville, California

3042.00-007
June 2, 1997

Prepared for
The Sherwin-Williams Company
101 Prospect Avenue Northwest
Cleveland, Ohio 44115

CONTENTS

CERTIFICATION

All information, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by a Levine·Fricke·Recon California Professional Engineer.

Mark D. Knox 6/2/97

Mark D. Knox
Principal Engineer
California Professional Engineer (33194)

Date

1.0 INTRODUCTION

Levine·Fricke·Recon Inc. (LFR), on behalf of The Sherwin-Williams Company ("Sherwin-Williams"), soil investigation report for the vicinity of the southern Rifkin Property in Emeryville, California ("the Site"). The investigation was conducted as outlined in Task 5 of Levine·Fricke·Recon's November 20, 1996 "Work Plan for Additional Soil and Groundwater Investigations, Rifkin Property, 4525 to 4563 Horton Street, Emeryville, California" ("the Work Plan"), and as amended in the letter to the RWQCB dated December 2, 1996.

Analytical results from soil samples collected from 19 borings drilled to depths of 4 to 8 feet below ground surface (bgs) are presented in Tables 1 and 2.

2.0 OBJECTIVE

The soil investigation was conducted to define the extent of chemical migration in the vadose zone soil from the Sherwin-Williams property onto the Rifkin property at the southern Sherwin-Williams/Rifkin property boundary to determine whether or not soil removal is appropriate and, if so, to what extent.

3.0 SOIL SAMPLING

A total of 44 soil samples were collected from 19 soil borings and submitted for chemical analyses. Figures 1 through 4 indicate soil boring locations GP-1 through GP-15, GP-1(B), GP-6(B), GP-9(B), and GP-14(B). The four borings GP-1(B), GP-6(B), GP-9(B), and GP-14(B) were moved from the original boring location where underground concrete was encountered before the desired depth of the boring was reached.

3.1 Methodology

Soil samples were collected on December 5, 1996, from 19 borings at locations illustrated on Figures 1 through 4. LFR retained Gregg Drilling of Martinez to conduct the drilling using a Geoprobe rig. LFR personnel supervised the field work and collected the soil samples. A representative of Erler & Kalinowski, Incorporated, was present during field activities on behalf of Chiron.

Boreholes were advanced hydraulically by driving a 1-½-inch- diameter steel sampling tube lined with plastic tubes to a depth of approximately 8 feet bgs (depth of first encountered groundwater). This sampling system allows soil samples to be collected on a continuous basis from approximately 6 feet bgs to the total depth of each soil boring. Upon removal of each sampler, samples were retained from the desired depth

interval(s) and preserved by placing Teflon-lined plastic caps over the ends of the plastic tubes. The samples were then stored in a chilled cooler. Each sample was labeled with the borehole identification and depth interval of the sample, time and date of sample collection, analysis requested, and name of the individual who collected the sample.

Soil samples adjacent to those collected for chemical analyses were lithologically described using the Unified Soil Classification System. Lithologic descriptions were recorded in the field on borehole log forms. Lithologic logs for the soil borings are provided in Attachment A.

3.2 Lithology

Nineteen soil borings were completed to a depth of 4 to 8 feet bgs. Lithologic logs of the soil borings are included in Attachment A. Subsurface soils consisted of predominantly silt, silty to clayey sand, and minor gravel. Beneath the concrete floor and underlying aggregate rock base, a clayey to sandy silt was generally encountered with interbedded clayey or gravelly sand approximately 0.5 to 3 feet thick to a depth of 8 feet bgs.

3.3 Analytical Results for Soil Samples

A total of 44 soil samples were collected and submitted to American Environmental Network of Pleasant Hill, a California-certified laboratory, for chemical analyses. The 44 soil samples were analyzed for arsenic, lead, and zinc using EPA Method 6000/7000 series and for pH. Thirty-eight of the samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8240, and 29 of the samples were analyzed for semivolatile organic compounds (SVOCs) using EPA Method 8270.

In addition, most soil samples at or near the same depths for each line of borings along the property boundary were composited. For example, the soil samples collected within 2.5 feet bgs for the borings 3 feet out from the property boundary were composited. The toxicity characteristic leaching procedure (TCLP) for arsenic, lead, zinc, VOCs were analyzed for the composited samples. The TCLP for SVOCs was analyzed for six out of the nine composited samples. These data will provide information for selection of a landfill in the event that soils will have to be excavated from the Rifkin site.

Table 1 presents soil sample analytical results. Table 2 presents the TCLP analytical results and a key indicating the soil samples composited for each TCLP analysis. Figures 1, 2, 3, and 4 present the distribution in soil of the analytical results for inorganic compounds, pH, VOCs, and SVOCs, respectively. Laboratory certificates are provided in Attachment B.

3.3.1 Inorganics in Soil

Arsenic

Analytical results for soil samples collected during this investigation indicated elevated concentrations of arsenic in 8 of the 44 samples analyzed for arsenic (i.e., arsenic concentrations greater than 20 mg/kg). Of these eight samples, the two highest concentrations of arsenic detected were found in samples collected from boring GP-12 at 2.5 feet bgs and 5.0 feet bgs at concentrations of 20,000 mg/kg and 14,000 mg/kg, respectively. The next highest concentration of arsenic was encountered at or near first encountered groundwater (7.5 feet bgs) in boring GP-8 at a concentration of 1,700 mg/kg. The five remaining samples with elevated concentrations of arsenic were detected in borings GP-2, GP-5, GP-9(B), GP-12, and GP-13. With the exception of the sample collected at GP-13 at a depth of 2.5 feet bgs at a concentration of 33 mg/kg, five of the remaining samples with elevated concentrations of arsenic were collected at or near the first encountered groundwater in each respective boring (7.5 feet bgs) at concentrations ranging from 49 to 480 mg/kg.

The 36 samples with lower concentrations of arsenic contained arsenic (less than 20 mg/kg) that ranged from 1 to 18 mg/kg (Table 1; Figure 1).

Lead

Analytical results for soil samples collected during this investigation indicated elevated concentrations of lead in 11 of the 44 samples analyzed for lead (i.e., lead concentrations greater than 50 mg/kg). Of these 11 samples, the highest concentration of lead detected was found in the sample collected from boring GP-13 at 2.5 feet bgs at a concentration of 3,100 mg/kg. The remaining 10 samples with elevated concentrations of lead were collected from borings GP-2, GP-3, GP-9, GP-12, GP-13, and GP-14(B) at concentrations ranging from 56 to 260 mg/kg. Three of the eleven samples with elevated concentrations of lead were collected at or near the first encountered groundwater in each boring (7.5 feet bgs).

The 33 samples with lower concentrations of lead (less than 50 mg/kg) contained lead that ranged from 4 to 40 mg/kg (Table 1 and Figure 1).

Zinc

Analytical results for soil samples collected during this investigation indicated elevated concentrations of zinc in 25 of the 44 samples analyzed for zinc (i.e., zinc greater than 100 mg/kg). The highest concentrations of zinc were detected in GP-2 at 2.5 feet bgs and GP-13 at 2.5 feet bgs at concentrations of 53,000 and 62,000 mg/kg, respectively. The next nine highest concentrations of zinc detected were found in samples collected from borings GP-2, GP-3, GP-8, GP-12, and GP-13 at concentrations ranging from 1,300 to 3,200 mg/kg. The remaining 14 samples with elevated concentrations of zinc

were detected in samples collected from borings GP-1(B), GP-2, GP-7, GP-8, GP-9, GP-9(B), GP-11, and GP-12 at concentrations ranging from 140 to 930 mg/kg.

Concentrations of zinc were elevated in samples collected from borings GP-2, GP-3, GP-7, GP-8, GP-9, GP-9(B), GP-11, GP-12, and GP-13. In addition, a sample collected from GP-1(B) at 7.5 feet bgs contained an elevated concentration of zinc.

The 19 samples with lower concentrations of zinc (less than 100 mg/kg) contained zinc that ranged from 39 to 80 mg/kg (Table 1; Figure 1).

3.3.2 pH of Soil

Thirteen of the 44 soil samples analyzed for pH had a pH level below 5.0. These samples were collected from borings GP-2 at 7.5 feet bgs, GP-8 at 5.5 and 7.5 feet bgs, GP-7 at 7.0 feet bgs, GP-8 at 2.5, 5.5, and 7.5 feet bgs, GP-9(B) at 5.0 feet bgs, GP-11 at 2.5 feet bgs, GP-12 at 2.5, 5.0, and 7.5 feet bgs, and GP-13 at 7.5 feet bgs (Table 1; Figure 2).

3.3.3 Volatile Organic Compounds in Soil

Acetone was detected in eight samples. These eight samples were collected from borings GP-4 at 5.5 feet bgs, GP-9 at 2.5 feet bgs, GP-9(B) at 7.5 feet bgs, GP-10 at 5.5 and 7.5 feet bgs, GP-14(B) at 5.0 and 7.5 feet bgs, and GP-15 at 5.0 feet bgs at concentrations ranging from 0.10 to 48.0 mg/kg.

Toluene was detected in the soil samples collected from borings GP-3, GP-4, GP-9, GP-9(B), and GP-10 at concentrations ranging from 0.005 to 140 mg/kg. In addition, toluene was detected in a sample collected from GP-14(B) at 7.5 feet bgs at a concentration of 38.0 mg/kg.

Ethyl-benzene was detected in 10 samples. These 10 samples were collected from borings GP-4 at 2.5 feet bgs, GP-9 at 2.5 feet bgs, GP-9(B) at 5.0 feet bgs, GP-10 at 2.5 feet bgs and 7.5 feet bgs, GP-14(B) at 3.5 and 7.5 feet bgs, and GP-15 at 3.5 feet bgs, 5.0 feet bgs, and 7.5 feet bgs at concentrations ranging from 0.007 to 11.0 mg/kg.

4-Methyl-2-Pentanone was detected in three samples. These three samples were collected from borings GP-4 at 2.5 feet bgs, GP-9 at 2.5 feet bgs, and GP-14(B) at 5.0 feet bgs at concentrations of 8.2, 1.2, and 0.70 mg/kg, respectively (Table 1 and Figure 3).

3.3.4 Semivolatile Organic Compounds in Soil

4-Methyl Phenol was detected in one sample. This compound was detected at a concentration of 0.42 mg/kg in the sample collected from boring GP-15 at 3.5 feet bgs (Table 1; Figure 4).

3.3.5 TCLP Compounds in Soil

Inorganics

With the exception of the "B" composite sample, arsenic was detected using the TCLP method of analysis in all composite samples analyzed. Concentrations ranged from 0.002 milligrams per liter (mg/l) in the "A" composite sample to 0.14 mg/l in the "G" composite sample.

Lead was detected using the TCLP method of analysis in three of the composite samples analyzed. Concentrations were detected at 0.17, 0.16, and 0.08 mg/l in composite samples "B," "G," and "I," respectively.

Zinc was detected using the TCLP method of analysis in all composite samples analyzed. Concentrations ranged from 0.01 mg/l in the "E" composite sample to 190 mg/l in the "A" composite sample.

Volatile Organic Compounds

Acetone was detected using the TCLP method of analysis in four of the nine composite samples analyzed. Acetone was detected at 1.8, 0.8, 0.92 and 0.6 mg/l in composite samples "A," "B," "C," and "E," respectively.

Toluene was detected using the TCLP method of analysis in the same four composite samples as acetone. Toluene was detected at 0.22, 0.84, 0.21 and 0.03 mg/l in composite samples "A," "B," "C," and "E," respectively.

Total xylenes were detected using the TCLP method of analysis in one of the composite samples analyzed. A xylene concentration of 0.06 mg/l was detected in the composite sample "G."

Semivolatile Organic Compounds

Semivolatile organic compounds were not detected above laboratory detection limits using the TCLP method of analysis.

Table 1
Chemicals Detected In Soil Samples
Rifkin Property, Emeryville, California
(Concentrations Reported in milligrams per kilogram (mg/kg))

Sample ID	Sample Date	As	Pb	Zn	Volatile Organic Compounds						SVOCs
					Acetone	Toluene	Ethyl-Benzene	Total Xylenes	Trans-1,3-DCP	4-M-2-Pent	4-Methyl Phenol
GP-1-2.5	12/05/96	1.1	9	80	NA	NA	NA	NA	NA	NA	NA
GP-1(B)-5.0	12/05/96	3.8	11	59	NA	NA	NA	NA	NA	NA	NA
GP-1(B)-7.5	12/05/96	4.6	32	910	NA	NA	NA	NA	NA	NA	NA
GP-2-2.5	12/05/96	7.4	40	53,000	NA	NA	NA	NA	NA	NA	NA
GP-2-5.0	12/05/96	1	260	2,400	NA	NA	NA	NA	NA	NA	NA
GP-2-7.5	12/05/96	49	14	700	NA	NA	NA	NA	NA	NA	NA
GP-3-2.5	12/05/96	10	76	1,800	<48.0	5.9	<2.4	<4.8	<2.4	<24.0	NA
GP-3-5.5	12/05/96	5.6	110	2,600	<100	140	<5.0	<10.0	<5.0	<50.0	NA
GP-3-7.5	12/05/96	9.6	250	1,300	<49.0	3.0	<2.4	<4.9	<2.4	<24.0	NA
GP-4-2.5	12/05/96	5.5	20	65	<47.0	14.0	0.730	4.3	<.470	8.2	NA
GP-4-5.5	12/05/96	8	7	54	9.6	0.910	<0.470	<0.950	<0.470	<4.7	NA
GP-4-7.5	12/05/96	5.9	7	58	<49.0	1.1	<0.490	<0.980	<0.490	<4.9	NA
GP-5-2.5	12/05/96	5.7	12	45	<9.6	<0.480	<0.480	1.2	<0.480	<4.8	NA
GP-5-5.0	12/05/96	6	8	53	<4.7	<0.240	<0.240	0.61	<0.240	<2.4	NA
GP-5-7.5	12/05/96	210	6	46	<4.5	<0.230	<.230	0.580	<0.230	<2.3	NA
GP-6-3.5	12/05/96	3.4	12	46	<0.100	<0.005	<0.005	<0.010	<0.005	<0.050	<0.330
GP-6(B)-7.5	12/05/96	1.1	8	39	<0.100	<0.005	<0.005	<0.010	<0.005	<0.050	<0.330
GP-7-2.5	12/05/96	5.0	8	330	<0.100	<0.005	<0.005	<0.010	<0.005	<0.050	<0.17
GP-7-6.0	12/05/96	6.2	7	360	<0.100	<0.005	<0.005	<0.010	<0.005	<0.050	<0.330
GP-7-7.0	12/05/96	11	19	740	<0.100	<0.005	<0.005	<0.010	<0.005	<0.050	<0.330
GP-8-2.5	12/05/96	4.7	23	1,500	<0.100	<0.005	<0.005	<0.010	<0.005	<0.050	<1.7
GP-8-5.5	12/05/96	4.8	8	930	<0.100	<0.005	<0.005	<0.010	<0.005	<0.050	<0.330
GP-8-7.5	12/05/96	1,700	190	650	<0.500	<0.030	<0.030	<0.050	<0.030	<0.300	<17.0
GP-9-2.5	12/05/96	11	100	930	1.0	0.780	0.085	0.200	<0.030	1.2	<17.0
GP-9(B)-5.0	12/05/96	3.7	9	560	<50	37.0	9.3	21.0	<3.0	<30.0	<33.0
GP-9(B)-7.5	12/05/96	170	4	140	0.200	0.005	<0.005	<0.010	<0.005	<0.050	<0.330
GP-10-2.5	12/05/96	3.7	36	68	<5.0	3.0	0.550	1.4	<0.300	<3.0	<0.330
GP-10-5.5	12/05/96	11	7	39	48.0	1.1	<0.500	<1.0	<0.500	<5.0	<0.330
GP-10-7.5	12/05/96	8.6	6	41	19.0	4.3	0.800	2.5	<0.500	<5.0	<0.660
GP-11-2.5	12/05/96	7.7	7	630	<0.100	<0.005	<0.005	<0.010	<0.005	<0.050	<0.330
GP-11-5.0	12/05/96	5.4	6	700	<0.100	<0.005	<0.005	<0.010	<0.005	<0.050	<0.330
GP-11-7.5	12/05/96	8.6	7	550	<0.100	<0.005	<0.005	<0.010	<0.005	<0.050	<0.330
GP-12-2.5	12/05/96	20,000	68	1,500	<0.100	<0.005	<0.005	<0.010	<0.005	<0.050	<0.330
GP-12-5.0	12/05/96	14,000	12	3,300	<0.100	<0.005	<0.005	<0.010	<0.005	<0.050	<0.330
GP-12-7.5	12/05/96	480	33	410	<0.100	<0.005	<0.005	<0.010	<0.005	<0.050	<0.330
GP-13-2.5	12/05/96	33	3,100	62,000	<0.100	<0.005	<0.005	<0.010	<0.005	<0.050	<13.0
GP-13-5.0	12/05/96	18	160	3,200	<0.100	<0.005	<0.005	<0.010	<0.005	<0.050	<3.3
GP-13-7.5	12/05/96	13	230	3,100	<0.100	<0.005	<0.005	<0.010	<0.005	<0.050	<0.330
GP-14(B)-3.5	12/05/96	4.7	56	67	<0.50	<0.030	0.050	0.210	<0.030	<0.300	<0.330
GP-14(B)-5.0	12/05/96	3.5	7	44	9.2	<0.030	<0.030	0.130	<0.030	0.700	<0.330
GP-14(B)-7.5	12/05/96	17	6	45	32.0	38.0	11.0	59.0	<1.0	<10.0	<1.7
GP-15-3.5	12/05/96	4.4	12	62	<10	<0.500	1.4	3.8	<0.500	<5.0	0.420
GP-15-5.0	12/05/96	3.4	7	43	0.10	<0.005	0.007	<0.010	<0.005	<0.050	<0.330
GP-15-7.5	12/05/96	18	5	44	<5.0	<0.300	0.300	<0.500	<0.300	<3.0	<0.330

Data entered by: PRW 1/3/97. Data Proofed by:__KAG_____. QA/QC by:__SXS_____.

Analysis performed by American Environmental Network, Pleasant Hill, California.
Arsenic analyzed using EPA Method 7060; Lead and Zinc analyzed by using EPA Method 6010;
Volatile organic compounds analyzed using EPA Method 8240;
Semivolatile organic compounds analyzed using EPA Method 8270.
NA = Not Analyzed
As = Arsenic
SVOCs = Semivolatile Organic Compounds
bgs = below ground surface
Pb = Lead
Zn = Zinc
Trans-1,3-DCP = Trans-1,3-Dichloropropane
4-M-2-Pent = 4-Methyl-2-Pentanone

Table 2
Results of TCLP Analysis of Soil Samples
Rifkin Property, Emeryville, California
(Concentrations reported in milligrams per liter (mg/l)

Sample ID	Sample Date	As	Pb	Zn	VOCs			SVOCs
					Acetone	Toluene	Total Xylenes	
"A"	12/5/96	0.002	<0.04	190	1.8	0.22	<0.05	NA
"B"	12/5/96	<0.002	0.17	48	0.8	0.84	<0.05	NA
"C"	12/5/96	0.12	<0.04	25	0.92	0.21	<0.05	NA
"D"	12/5/96	0.007	<0.04	4.4	<0.5	<0.03	<0.05	ND
"E"	12/5/96	0.003	<0.04	0.01	0.6	0.03	<0.05	ND
"F"	12/5/96	0.054	<0.04	8.7	<0.5	<0.03	<0.05	ND
"G"	12/5/96	0.14	0.16	96	<0.5	<0.03	0.06	ND
"H"	12/5/96	0.07	<0.04	21	<0.5	<0.03	<0.05	ND
"I"	12/5/96	0.026	0.08	6	<0.5	<0.03	<0.05	ND

Notes:

Key to Sample ID:

"A": Composite of soil samples GP-1-2.5, GP-2-2.5, GP-3-2.5, GP-4-2.5, and GP-5-2.5
"B": Composite of soil samples GP-2-5.0, GP-3-5.5, GP-4-5.5, and GP-5-5.0
"C": Composite of soil samples GP-2-7.5, GP-3-7.5, GP-4-7.5, and GP-5-7.5
"D": Composite of soil samples GP-6-3.5, GP-7-2.5, GP-8-2.5, GP-9-2.5, and GP-10-2.5
"E": Composite of soil samples GP-7-6.0, GP-8-5.5, GP-9(B)-5.0, and GP-10-5.5
"F": Composite of soil samples GP-6(B)-7.5, GP-7-7.0, GP-8-7.5, GP-9(B)-7.5, and GP-10-7.5
"G": Composite of soil samples GP-11-2.5, GP-12-2.5, GP-13-2.5, GP-14(B)-3.5, and GP-15-3.5
"H": Composite of soil samples GP-11-5.0, GP-12-5.0, GP-13-5.0, GP-14(B)-5.0, and GP-15-5.0
"I": Composite of soil samples GP-11-7.5, GP-12-7.5, GP-13-7.5, GP-14(B)-7.5, and GP-15-7.5

Data entered by: ___PRW_____. Data proofed by:_____KAG_____. QA/QC by:___SXS_____.

Analysis performed by American Environmental Network, Pleasant Hill, California
NA = Not Analyzed
ND = No compounds analyzed for were detected above laboratory detection limits.
VOCs = Volatile organic compounds
SVOCs = Semivolatile organic compounds
As = Arsenic
Pb = Lead
Zn = Zinc

ATTACHMENT A

LITHOLOGIC LOGS

ATTACHMENT B

LABORATORY CERTIFICATES

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

LEVINE-FRICKE-RECON
1900 POWELL ST. 12TH FL.
EMERYVILLE, CA 94608

ATTN: KENTON GEE
CLIENT PROJ. ID: 3042.95.04
CLIENT PROJ. NAME: RIFKIN PROP.
C.O.C. NUMBER: 1001,1002,1003

REPORT DATE: 12/31/96
DATE(S) SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
AEN WORK ORDER: 9612094

PROJECT SUMMARY:

On December 6, 1996, this laboratory received 48 soil sample(s).

Client requested 38 sample(s) be analyzed for chemical parameters; 10 samples were placed on hold. Portions of nine samples for EPA 8240 were subcontracted to a DOHS certified laboratory; subcontract report will follow at a later date. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

LEVINE-FRICKE-RECON

SAMPLE ID: GP-1-2.5
AEN LAB NO: 9612094-01
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	8.1		S.U.	12/23/96
Lead	EPA 7420	9 *	3	mg/kg	12/30/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/26/96
Arsenic	EPA 7060	1.1 *	0.5	mg/kg	12/30/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/26/96
Zinc	EPA 6010	80 *	1	mg/kg	12/27/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-2-2.5
AEN LAB NO: 9612094-02
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	6.3		S.U.	12/23/96
Lead	EPA 7420	40 *	3	mg/kg	12/30/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/26/96
Arsenic	EPA 7060	7.4 *	0.5	mg/kg	12/30/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/26/96
Zinc	EPA 6010	53.000 *	1	mg/kg	12/30/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-2-5.0
AEN LAB NO: 9612094-03
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042:95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	5.0		S.U.	12/23/96
Lead	EPA 7420	260 *	3	mg/kg	12/30/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/26/96
Arsenic	EPA 7060	1.0 *	0.5	mg/kg	12/30/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/26/96
Zinc	EPA 6010	2,400 *	1	mg/kg	12/30/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-2-7.5
AEN LAB NO: 9612094-04
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	3.4		S.U.	12/23/96
Lead	EPA 7420	14 *	3	mg/kg	12/30/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/26/96
Arsenic	EPA 7060	49 *	0.5	mg/kg	12/30/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/26/96
Zinc	EPA 6010	700 *	1	mg/kg	12/27/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-3-2.5
AEN LAB NO: 9612094-05
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	11.8		S.U.	12/23/96
Lead	EPA 7420	76 *	3	mg/kg	12/30/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/26/96
Arsenic	EPA 7060	10 *	0.5	mg/kg	12/30/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/26/96
Zinc	EPA 6010	1,800 *	1	mg/kg	12/27/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-3-5.5
AEN LAB NO: 9612094-06
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	4.2		S.U.	12/23/96
Lead	EPA 7420	110 *	3	mg/kg	12/30/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/26/96
Arsenic	EPA 7060	5.6 *	0.5	mg/kg	12/30/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/26/96
Zinc	EPA 6010	2,600 *	1	mg/kg	12/27/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-3-7.5
AEN LAB NO: 9612094-07
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	3.5		S.U.	12/23/96
Lead	EPA 7420	250 *	3	mg/kg	12/30/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/26/96
Arsenic	EPA 7060	9.6 *	0.5	mg/kg	12/30/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/26/96
Zinc	EPA 6010	1,300 *	1	mg/kg	12/27/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-4-2.5
AEN LAB NO: 9612094-08
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	7.8		S.U.	12/23/96
Lead	EPA 7420	20 *	3	mg/kg	12/30/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/26/96
Arsenic	EPA 7060	5.5 *	0.5	mg/kg	12/30/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/26/96
Zinc	EPA 6010	65 *	1	mg/kg	12/27/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-4-5.5
AEN LAB NO: 9612094-09
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	7.0		S.U.	12/23/96
Lead	EPA 7420	7 *	3	mg/kg	12/30/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/26/96
Arsenic	EPA 7060	8.0 *	0.5	mg/kg	12/30/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/26/96
Zinc	EPA 6010	54 *	1	mg/kg	12/27/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-4-7.5
AEN LAB NO: 9612094-10
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	5.9		S.U.	12/23/96
Lead	EPA 7420	7 *	3	mg/kg	12/30/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/26/96
Arsenic	EPA 7060	5.9 *	0.5	mg/kg	12/30/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/26/96
Zinc	EPA 6010	58 *	1	mg/kg	12/27/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-5-2.5
AEN LAB NO: 9612094-11
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	9.3		S.U.	12/23/96
Lead	EPA 7420	12 *	3	mg/kg	12/30/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/26/96
Arsenic	EPA 7060	5.7 *	0.5	mg/kg	12/30/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/26/96
Zinc	EPA 6010	45 *	1	mg/kg	12/27/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-5-5.0
AEN LAB NO: 9612094-12
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	10.7		S.U.	12/23/96
Lead	EPA 7420	8 *	3	mg/kg	12/30/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/26/96
Arsenic	EPA 7060	6.0 *	0.5	mg/kg	12/30/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/26/96
Zinc	EPA 6010	53 *	1	mg/kg	12/27/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-5-7.5
AEN LAB NO: 9612094-13
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	6.4		S.U.	12/23/96
Lead	EPA 7420	6 *	3	mg/kg	12/30/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/26/96
Arsenic	EPA 7060	210 *	0.5	mg/kg	12/30/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/26/96
Zinc	EPA 6010	46 *	1	mg/kg	12/27/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-6-3.5
AEN LAB NO: 9612094-14
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	10.2		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/08/96
Arsenic	EPA 7060	3.4 *	0.5	mg/kg	12/09/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/08/96
Lead	EPA 6010	12 *	1	mg/kg	12/11/96
Zinc	EPA 6010	46 *	1	mg/kg	12/11/96
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	100	ug/kg	12/10/96
Benzene	71-43-2	ND	5	ug/kg	12/10/96
Bromodichloromethane	75-27-4	ND	5	ug/kg	12/10/96
Bromoform	75-25-2	ND	5	ug/kg	12/10/96
Bromomethane	74-83-9	ND	10	ug/kg	12/10/96
2-Butanone	78-93-3	ND	100	ug/kg	12/10/96
Carbon Disulfide	75-15-0	ND	10	ug/kg	12/10/96
Carbon Tetrachloride	56-23-5	ND	5	ug/kg	12/10/96
Chlorobenzene	108-90-7	ND	5	ug/kg	12/10/96
Chloroethane	75-00-3	ND	10	ug/kg	12/10/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/kg	12/10/96
Chloroform	67-66-3	ND	5	ug/kg	12/10/96
Chloromethane	74-87-3	ND	10	ug/kg	12/10/96
Dibromochloromethane	124-48-1	ND	5	ug/kg	12/10/96
1,1-Dichloroethane	75-43-3	ND	5	ug/kg	12/10/96
1,2-Dichloroethane	107-06-2	ND	5	ug/kg	12/10/96
1,1-Dichloroethene	75-35-4	ND	5	ug/kg	12/10/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/kg	12/10/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/kg	12/10/96
1,2-Dichloropropane	78-87-5	ND	5	ug/kg	12/10/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/kg	12/10/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/kg	12/10/96
Ethylbenzene	100-41-4	ND	5	ug/kg	12/10/96
2-Hexanone	591-78-6	ND	50	ug/kg	12/10/96
Methylene Chloride	75-09-2	ND	20	ug/kg	12/10/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/kg	12/10/96
Styrene	100-42-5	ND	5	ug/kg	12/10/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/kg	12/10/96
Tetrachloroethene	127-18-4	ND	5	ug/kg	12/10/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-6-3.5
AEN LAB NO: 9612094-14
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	5	ug/kg	12/10/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/kg	12/10/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/kg	12/10/96
Trichloroethene	79-01-6	ND	5	ug/kg	12/10/96
Vinyl Acetate	108-05-4	ND	50	ug/kg	12/10/96
Vinyl Chloride	75-01-4	ND	10	ug/kg	12/10/96
Xylenes Total	1330-20-7	ND	10	ug/kg	12/10/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/13/96
Anthracene	120-12-7	ND	330	ug/kg	12/13/96
Benzidine	92-87-5	ND	1600	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/13/96
Chrysene	218-01-9	ND	330	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-6-3.5
AEN LAB NO: 9612094-14
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/13/96
Fluorene	86-73-7	ND	330	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/13/96
Isophorone	78-59-1	ND	330	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/13/96
Naphthalene	91-20-3	ND	330	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/13/96
Pyrene	129-00-0	ND	330	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	330	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/13/96
Phenol	108-95-2	ND	330	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/13/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-7-2.5
AEN LAB NO: 9612094-15
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	6.2		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/08/96
Arsenic	EPA 7060	5.0 *	0.5	mg/kg	12/09/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/08/96
Lead	EPA 6010	8 *	1	mg/kg	12/11/96
Zinc	EPA 6010	330 *	1	mg/kg	12/11/96
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	100	ug/kg	12/10/96
Benzene	71-43-2	ND	5	ug/kg	12/10/96
Bromodichloromethane	75-27-4	ND	5	ug/kg	12/10/96
Bromoform	75-25-2	ND	5	ug/kg	12/10/96
Bromomethane	74-83-9	ND	10	ug/kg	12/10/96
2-Butanone	78-93-3	ND	100	ug/kg	12/10/96
Carbon Disulfide	75-15-0	ND	10	ug/kg	12/10/96
Carbon Tetrachloride	56-23-5	ND	5	ug/kg	12/10/96
Chlorobenzene	108-90-7	ND	5	ug/kg	12/10/96
Chloroethane	75-00-3	ND	10	ug/kg	12/10/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/kg	12/10/96
Chloroform	67-66-3	ND	5	ug/kg	12/10/96
Chloromethane	74-87-3	ND	10	ug/kg	12/10/96
Dibromochloromethane	124-48-1	ND	5	ug/kg	12/10/96
1,1-Dichloroethane	75-43-3	ND	5	ug/kg	12/10/96
1,2-Dichloroethane	107-06-2	ND	5	ug/kg	12/10/96
1,1-Dichloroethene	75-35-4	ND	5	ug/kg	12/10/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/kg	12/10/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/kg	12/10/96
1,2-Dichloropropane	78-87-5	ND	5	ug/kg	12/10/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/kg	12/10/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/kg	12/10/96
Ethylbenzene	100-41-4	ND	5	ug/kg	12/10/96
2-Hexanone	591-78-6	ND	50	ug/kg	12/10/96
Methylene Chloride	75-09-2	ND	20	ug/kg	12/10/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/kg	12/10/96
Styrene	100-42-5	ND	5	ug/kg	12/10/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/kg	12/10/96
Tetrachloroethene	127-18-4	ND	5	ug/kg	12/10/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-7-2.5
AEN LAB NO: 9612094-15
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	5	ug/kg	12/10/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/kg	12/10/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/kg	12/10/96
Trichloroethene	79-01-6	ND	5	ug/kg	12/10/96
Vinyl Acetate	108-05-4	ND	50	ug/kg	12/10/96
Vinyl Chloride	75-01-4	ND	10	ug/kg	12/10/96
Xylenes Total	1330-20-7	ND	10	ug/kg	12/10/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	1700	ug/kg	12/12/96
Acenaphthylene	208-96-8	ND	1700	ug/kg	12/12/96
Anthracene	120-12-7	ND	1700	ug/kg	12/12/96
Benzidine	92-87-5	ND	8000	ug/kg	12/12/96
Benzoic Acid	65-85-0	ND	8000	ug/kg	12/12/96
Benzo(a)anthracene	56-55-3	ND	1700	ug/kg	12/12/96
Benzo(b)fluoranthene	205-99-2	ND	1700	ug/kg	12/12/96
Benzo(k)fluoranthene	207-08-9	ND	1700	ug/kg	12/12/96
Benzo(g,h,i)perylene	191-24-2	ND	1700	ug/kg	12/12/96
Benzo(a)pyrene	50-32-8	ND	1700	ug/kg	12/12/96
Benzyl Alcohol	100-51-6	ND	3300	ug/kg	12/12/96
Bis(2-chloroethoxy)methane	111-91-1	ND	1700	ug/kg	12/12/96
Bis(2-choroethyl) Ether	111-44-4	ND	1700	ug/kg	12/12/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	1700	ug/kg	12/12/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	1700	ug/kg	12/12/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	1700	ug/kg	12/12/96
Butylbenzyl Phthalate	85-68-7	ND	1700	ug/kg	12/12/96
4-Chloroaniline	106-47-8	ND	3300	ug/kg	12/12/96
2-Chloronaphthalene	91-58-7	ND	1700	ug/kg	12/12/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	1700	ug/kg	12/12/96
Chrysene	218-01-9	ND	1700	ug/kg	12/12/96
Dibenzo(a,h)anthracene	53-70-3	ND	1700	ug/kg	12/12/96
Dibenzofuran	132-64-9	ND	1700	ug/kg	12/12/96
Di-n-butyl Phthalate	84-74-2	ND	1700	ug/kg	12/12/96
1,2-Dichlorobenzene	95-50-1	ND	1700	ug/kg	12/12/96
1,3-Dichlorobenzene	541-73-1	ND	1700	ug/kg	12/12/96
1,4-Dichlorobenzene	106-46-7	ND	1700	ug/kg	12/12/96
3,3'-Dichlorobenzidine	91-94-1	ND	3300	ug/kg	12/12/96
Diethyl Phthalate	84-66-2	ND	1700	ug/kg	12/12/96
Dimethyl Phthalate	131-11-3	ND	1700	ug/kg	12/12/96
2,4-Dinitrotoluene	121-14-2	ND	1700	ug/kg	12/12/96
2,6-Dinitrotoluene	606-20-2	ND	1700	ug/kg	12/12/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-7-2.5
AEN LAB NO: 9612094-15
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	1700	ug/kg	12/12/96
Fluoranthene	206-44-0	ND	1700	ug/kg	12/12/96
Fluorene	86-73-7	ND	1700	ug/kg	12/12/96
Hexachlorobenzene	118-74-1	ND	1700	ug/kg	12/12/96
Hexachlorobutadiene	87-68-3	ND	1700	ug/kg	12/12/96
Hexachlorocyclopentadiene	77-47-4	ND	1700	ug/kg	12/12/96
Hexachloroethane	67-72-1	ND	1700	ug/kg	12/12/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	1700	ug/kg	12/12/96
Isophorone	78-59-1	ND	1700	ug/kg	12/12/96
2-Methylnaphthalene	91-57-6	ND	1700	ug/kg	12/12/96
Naphthalene	91-20-3	ND	1700	ug/kg	12/12/96
2-Nitroaniline	88-74-4	ND	8000	ug/kg	12/12/96
3-Nitroaniline	99-09-2	ND	8000	ug/kg	12/12/96
4-Nitroaniline	100-01-6	ND	8000	ug/kg	12/12/96
Nitrobenzene	98-95-3	ND	1700	ug/kg	12/12/96
N-Nitrosodiphenylamine	86-30-6	ND	1700	ug/kg	12/12/96
N-Nitrosodi-n-propylamine	621-64-7	ND	1700	ug/kg	12/12/96
Phenanthrene	85-01-8	ND	1700	ug/kg	12/12/96
Pyrene	129-00-0	ND	1700	ug/kg	12/12/96
1,2,4-Trichlorobenzene	120-82-1	ND	1700	ug/kg	12/12/96
4-Chloro-3-methylphenol	59-50-7	ND	1700	ug/kg	12/12/96
2-Chlorophenol	95-57-8	ND	1700	ug/kg	12/12/96
2,4-Dichlorophenol	120-83-2	ND	1700	ug/kg	12/12/96
2,4-Dimethylphenol	105-67-9	ND	1700	ug/kg	12/12/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	8000	ug/kg	12/12/96
2,4-Dinitrophenol	51-28-5	ND	8000	ug/kg	12/12/96
2-Methylphenol	95-48-7	ND	1700	ug/kg	12/12/96
4-Methylphenol	106-44-5	ND	1700	ug/kg	12/12/96
2-Nitrophenol	88-75-5	ND	1700	ug/kg	12/12/96
4-Nitrophenol	100-02-7	ND	8000	ug/kg	12/12/96
Pentachlorophenol	87-86-5	ND	8000	ug/kg	12/12/96
Phenol	108-95-2	ND	1700	ug/kg	12/12/96
2,4,5-Trichlorophenol	95-95-4	ND	1700	ug/kg	12/12/96
2,4,6-Trichlorophenol	88-06-2	ND	1700	ug/kg	12/12/96

RLs elevated for EPA 8270 due to high levels of non-target compounds. Sample run dilute.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-7-6.0
AEN LAB NO: 9612094-16
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	**EPA 9045A**	7.2		S.U.	12/10/96
#Digestion, Metals by GFAA	**EPA 3050**	-		Prep Date	12/08/96
Arsenic	**EPA 7060**	6.2 *	0.5	mg/kg	12/09/96
#Digestion, Metals AA/ICP	**EPA 3050**	-		Prep Date	12/08/96
Lead	**EPA 6010**	7 *	1	mg/kg	12/11/96
Zinc	**EPA 6010**	360 *	1	mg/kg	12/11/96
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	100	ug/kg	12/10/96
Benzene	71-43-2	ND	5	ug/kg	12/10/96
Bromodichloromethane	75-27-4	ND	5	ug/kg	12/10/96
Bromoform	75-25-2	ND	5	ug/kg	12/10/96
Bromomethane	74-83-9	ND	10	ug/kg	12/10/96
2-Butanone	78-93-3	ND	100	ug/kg	12/10/96
Carbon Disulfide	75-15-0	ND	10	ug/kg	12/10/96
Carbon Tetrachloride	56-23-5	ND	5	ug/kg	12/10/96
Chlorobenzene	108-90-7	ND	5	ug/kg	12/10/96
Chloroethane	75-00-3	ND	10	ug/kg	12/10/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/kg	12/10/96
Chloroform	67-66-3	ND	5	ug/kg	12/10/96
Chloromethane	74-87-3	ND	10	ug/kg	12/10/96
Dibromochloromethane	124-48-1	ND	5	ug/kg	12/10/96
1,1-Dichloroethane	75-43-3	ND	5	ug/kg	12/10/96
1,2-Dichloroethane	107-06-2	ND	5	ug/kg	12/10/96
1,1-Dichloroethene	75-35-4	ND	5	ug/kg	12/10/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/kg	12/10/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/kg	12/10/96
1,2-Dichloropropane	78-87-5	ND	5	ug/kg	12/10/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/kg	12/10/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/kg	12/10/96
Ethylbenzene	100-41-4	ND	5	ug/kg	12/10/96
2-Hexanone	591-78-6	ND	50	ug/kg	12/10/96
Methylene Chloride	75-09-2	ND	20	ug/kg	12/10/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/kg	12/10/96
Styrene	100-42-5	ND	5	ug/kg	12/10/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/kg	12/10/96
Tetrachloroethene	127-18-4	ND	5	ug/kg	12/10/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-7-6.0
AEN LAB NO: 9612094-16
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	5	ug/kg	12/10/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/kg	12/10/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/kg	12/10/96
Trichloroethene	79-01-6	ND	5	ug/kg	12/10/96
Vinyl Acetate	108-05-4	ND	50	ug/kg	12/10/96
Vinyl Chloride	75-01-4	ND	10	ug/kg	12/10/96
Xylenes Total	1330-20-7	ND	10	ug/kg	12/10/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/13/96
Anthracene	120-12-7	ND	330	ug/kg	12/13/96
Benzidine	92-87-5	ND	1600	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/13/96
Chrysene	218-01-9	ND	330	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-7-6.0
AEN LAB NO: 9612094-16
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/13/96
Fluorene	86-73-7	ND	330	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/13/96
Isophorone	78-59-1	ND	330	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/13/96
Naphthalene	91-20-3	ND	330	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/13/96
Pyrene	129-00-0	ND	330	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	330	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/13/96
Phenol	108-95-2	ND	330	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/13/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-7-7.0
AEN LAB NO: 9612094-17
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	4.1		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/08/96
Arsenic	EPA 7060	11 *	0.5	mg/kg	12/09/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/08/96
Lead	EPA 6010	19 *	1	mg/kg	12/11/96
Zinc	EPA 6010	740 *	1	mg/kg	12/11/96
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	100	ug/kg	12/10/96
Benzene	71-43-2	ND	5	ug/kg	12/10/96
Bromodichloromethane	75-27-4	ND	5	ug/kg	12/10/96
Bromoform	75-25-2	ND	5	ug/kg	12/10/96
Bromomethane	74-83-9	ND	10	ug/kg	12/10/96
2-Butanone	78-93-3	ND	100	ug/kg	12/10/96
Carbon Disulfide	75-15-0	ND	10	ug/kg	12/10/96
Carbon Tetrachloride	56-23-5	ND	5	ug/kg	12/10/96
Chlorobenzene	108-90-7	ND	5	ug/kg	12/10/96
Chloroethane	75-00-3	ND	10	ug/kg	12/10/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/kg	12/10/96
Chloroform	67-66-3	ND	5	ug/kg	12/10/96
Chloromethane	74-87-3	ND	10	ug/kg	12/10/96
Dibromochloromethane	124-48-1	ND	5	ug/kg	12/10/96
1,1-Dichloroethane	75-43-3	ND	5	ug/kg	12/10/96
1,2-Dichloroethane	107-06-2	ND	5	ug/kg	12/10/96
1,1-Dichloroethene	75-35-4	ND	5	ug/kg	12/10/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/kg	12/10/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/kg	12/10/96
1,2-Dichloropropane	78-87-5	ND	5	ug/kg	12/10/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/kg	12/10/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/kg	12/10/96
Ethylbenzene	100-41-4	ND	5	ug/kg	12/10/96
2-Hexanone	591-78-6	ND	50	ug/kg	12/10/96
Methylene Chloride	75-09-2	ND	20	ug/kg	12/10/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/kg	12/10/96
Styrene	100-42-5	ND	5	ug/kg	12/10/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/kg	12/10/96
Tetrachloroethene	127-18-4	ND	5	ug/kg	12/10/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-7-7.0
AEN LAB NO: 9612094-17
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	5	ug/kg	12/10/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/kg	12/10/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/kg	12/10/96
Trichloroethene	79-01-6	ND	5	ug/kg	12/10/96
Vinyl Acetate	108-05-4	ND	50	ug/kg	12/10/96
Vinyl Chloride	75-01-4	ND	10	ug/kg	12/10/96
Xylenes Total	1330-20-7	ND	10	ug/kg	12/10/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/12/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/12/96
Anthracene	120-12-7	ND	330	ug/kg	12/12/96
Benzidine	92-87-5	ND	1600	ug/kg	12/12/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/12/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/12/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/12/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/12/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/12/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/12/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/12/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/12/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/12/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/12/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/12/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/12/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/12/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/12/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/12/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/12/96
Chrysene	218-01-9	ND	330	ug/kg	12/12/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/12/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/12/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/12/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/12/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/12/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/12/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/12/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/12/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/12/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/12/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/12/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-7-7.0
AEN LAB NO: 9612094-17
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/12/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/12/96
Fluorene	86-73-7	ND	330	ug/kg	12/12/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/12/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/12/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/12/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/12/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/12/96
Isophorone	78-59-1	ND	330	ug/kg	12/12/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/12/96
Naphthalene	91-20-3	ND	330	ug/kg	12/12/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/12/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/12/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/12/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/12/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/12/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/12/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/12/96
Pyrene	129-00-0	ND	330	ug/kg	12/12/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/12/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/12/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/12/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/12/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/12/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/12/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/12/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/12/96
4-Methylphenol	106-44-5	ND	330	ug/kg	12/12/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/12/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/12/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/12/96
Phenol	108-95-2	ND	330	ug/kg	12/12/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/12/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/12/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-8-2.5
AEN LAB NO: 9612094-18
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	4.7		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/08/96
Arsenic	EPA 7060	4.7 *	0.5	mg/kg	12/09/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/08/96
Lead	EPA 6010	23 *	1	mg/kg	12/11/96
Zinc	EPA 6010	1,500 *	1	mg/kg	12/11/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	100	ug/kg	12/10/96
Benzene	71-43-2	ND	5	ug/kg	12/10/96
Bromodichloromethane	75-27-4	ND	5	ug/kg	12/10/96
Bromoform	75-25-2	ND	5	ug/kg	12/10/96
Bromomethane	74-83-9	ND	10	ug/kg	12/10/96
2-Butanone	78-93-3	ND	100	ug/kg	12/10/96
Carbon Disulfide	75-15-0	ND	10	ug/kg	12/10/96
Carbon Tetrachloride	56-23-5	ND	5	ug/kg	12/10/96
Chlorobenzene	108-90-7	ND	5	ug/kg	12/10/96
Chloroethane	75-00-3	ND	10	ug/kg	12/10/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/kg	12/10/96
Chloroform	67-66-3	ND	5	ug/kg	12/10/96
Chloromethane	74-87-3	ND	10	ug/kg	12/10/96
Dibromochloromethane	124-48-1	ND	5	ug/kg	12/10/96
1,1-Dichloroethane	75-43-3	ND	5	ug/kg	12/10/96
1,2-Dichloroethane	107-06-2	ND	5	ug/kg	12/10/96
1,1-Dichloroethene	75-35-4	ND	5	ug/kg	12/10/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/kg	12/10/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/kg	12/10/96
1,2-Dichloropropane	78-87-5	ND	5	ug/kg	12/10/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/kg	12/10/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/kg	12/10/96
Ethylbenzene	100-41-4	ND	5	ug/kg	12/10/96
2-Hexanone	591-78-6	ND	50	ug/kg	12/10/96
Methylene Chloride	75-09-2	ND	20	ug/kg	12/10/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/kg	12/10/96
Styrene	100-42-5	ND	5	ug/kg	12/10/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/kg	12/10/96
Tetrachloroethene	127-18-4	ND	5	ug/kg	12/10/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-8-2.5
AEN LAB NO: 9612094-18
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	5	ug/kg	12/10/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/kg	12/10/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/kg	12/10/96
Trichloroethene	79-01-6	ND	5	ug/kg	12/10/96
Vinyl Acetate	108-05-4	ND	50	ug/kg	12/10/96
Vinyl Chloride	75-01-4	ND	10	ug/kg	12/10/96
Xylenes Total	1330-20-7	ND	10	ug/kg	12/10/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	1700	ug/kg	12/12/96
Acenaphthylene	208-96-8	ND	1700	ug/kg	12/12/96
Anthracene	120-12-7	ND	1700	ug/kg	12/12/96
Benzidine	92-87-5	ND	8000	ug/kg	12/12/96
Benzoic Acid	65-85-0	ND	8000	ug/kg	12/12/96
Benzo(a)anthracene	56-55-3	ND	1700	ug/kg	12/12/96
Benzo(b)fluoranthene	205-99-2	ND	1700	ug/kg	12/12/96
Benzo(k)fluoranthene	207-08-9	ND	1700	ug/kg	12/12/96
Benzo(g,h,i)perylene	191-24-2	ND	1700	ug/kg	12/12/96
Benzo(a)pyrene	50-32-8	ND	1700	ug/kg	12/12/96
Benzyl Alcohol	100-51-6	ND	3300	ug/kg	12/12/96
Bis(2-chloroethoxy)methane	111-91-1	ND	1700	ug/kg	12/12/96
Bis(2-choroethyl) Ether	111-44-4	ND	1700	ug/kg	12/12/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	1700	ug/kg	12/12/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	1700	ug/kg	12/12/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	1700	ug/kg	12/12/96
Butylbenzyl Phthalate	85-68-7	ND	1700	ug/kg	12/12/96
4-Chloroaniline	106-47-8	ND	3300	ug/kg	12/12/96
2-Chloronaphthalene	91-58-7	ND	1700	ug/kg	12/12/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	1700	ug/kg	12/12/96
Chrysene	218-01-9	ND	1700	ug/kg	12/12/96
Dibenzo(a,h)anthracene	53-70-3	ND	1700	ug/kg	12/12/96
Dibenzofuran	132-64-9	ND	1700	ug/kg	12/12/96
Di-n-butyl Phthalate	84-74-2	ND	1700	ug/kg	12/12/96
1,2-Dichlorobenzene	95-50-1	ND	1700	ug/kg	12/12/96
1,3-Dichlorobenzene	541-73-1	ND	1700	ug/kg	12/12/96
1,4-Dichlorobenzene	106-46-7	ND	1700	ug/kg	12/12/96
3,3'-Dichlorobenzidine	91-94-1	ND	3300	ug/kg	12/12/96
Diethyl Phthalate	84-66-2	ND	1700	ug/kg	12/12/96
Dimethyl Phthalate	131-11-3	ND	1700	ug/kg	12/12/96
2,4-Dinitrotoluene	121-14-2	ND	1700	ug/kg	12/12/96
2,6-Dinitrotoluene	606-20-2	ND	1700	ug/kg	12/12/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-8-2.5
AEN LAB NO: 9612094-18
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	1700	ug/kg	12/12/96
Fluoranthene	206-44-0	ND	1700	ug/kg	12/12/96
Fluorene	86-73-7	ND	1700	ug/kg	12/12/96
Hexachlorobenzene	118-74-1	ND	1700	ug/kg	12/12/96
Hexachlorobutadiene	87-68-3	ND	1700	ug/kg	12/12/96
Hexachlorocyclopentadiene	77-47-4	ND	1700	ug/kg	12/12/96
Hexachloroethane	67-72-1	ND	1700	ug/kg	12/12/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	1700	ug/kg	12/12/96
Isophorone	78-59-1	ND	1700	ug/kg	12/12/96
2-Methylnaphthalene	91-57-6	ND	1700	ug/kg	12/12/96
Naphthalene	91-20-3	ND	1700	ug/kg	12/12/96
2-Nitroaniline	88-74-4	ND	8000	ug/kg	12/12/96
3-Nitroaniline	99-09-2	ND	8000	ug/kg	12/12/96
4-Nitroaniline	100-01-6	ND	8000	ug/kg	12/12/96
Nitrobenzene	98-95-3	ND	1700	ug/kg	12/12/96
N-Nitrosodiphenylamine	86-30-6	ND	1700	ug/kg	12/12/96
N-Nitrosodi-n-propylamine	621-64-7	ND	1700	ug/kg	12/12/96
Phenanthrene	85-01-8	ND	1700	ug/kg	12/12/96
Pyrene	129-00-0	ND	1700	ug/kg	12/12/96
1,2,4-Trichlorobenzene	120-82-1	ND	1700	ug/kg	12/12/96
4-Chloro-3-methylphenol	59-50-7	ND	1700	ug/kg	12/12/96
2-Chlorophenol	95-57-8	ND	1700	ug/kg	12/12/96
2,4-Dichlorophenol	120-83-2	ND	1700	ug/kg	12/12/96
2,4-Dimethylphenol	105-67-9	ND	1700	ug/kg	12/12/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	8000	ug/kg	12/12/96
2,4-Dinitrophenol	51-28-5	ND	8000	ug/kg	12/12/96
2-Methylphenol	95-48-7	ND	1700	ug/kg	12/12/96
4-Methylphenol	106-44-5	ND	1700	ug/kg	12/12/96
2-Nitrophenol	88-75-5	ND	1700	ug/kg	12/12/96
4-Nitrophenol	100-02-7	ND	8000	ug/kg	12/12/96
Pentachlorophenol	87-86-5	ND	8000	ug/kg	12/12/96
Phenol	108-95-2	ND	1700	ug/kg	12/12/96
2,4,5-Trichlorophenol	95-95-4	ND	1700	ug/kg	12/12/96
2,4,6-Trichlorophenol	88-06-2	ND	1700	ug/kg	12/12/96

RLs elevated for EPA 8270 due to high levels of non-target compounds. Sample run dilute.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-8-5.5
AEN LAB NO: 9612094-19
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	4.9		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/08/96
Arsenic	EPA 7060	4.8 *	0.5	mg/kg	12/09/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/08/96
Lead	EPA 6010	8 *	1	mg/kg	12/11/96
Zinc	EPA 6010	930 *	1	mg/kg	12/11/96
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	100	ug/kg	12/11/96
Benzene	71-43-2	ND	5	ug/kg	12/11/96
Bromodichloromethane	75-27-4	ND	5	ug/kg	12/11/96
Bromoform	75-25-2	ND	5	ug/kg	12/11/96
Bromomethane	74-83-9	ND	10	ug/kg	12/11/96
2-Butanone	78-93-3	ND	100	ug/kg	12/11/96
Carbon Disulfide	75-15-0	ND	10	ug/kg	12/11/96
Carbon Tetrachloride	56-23-5	ND	5	ug/kg	12/11/96
Chlorobenzene	108-90-7	ND	5	ug/kg	12/11/96
Chloroethane	75-00-3	ND	10	ug/kg	12/11/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/kg	12/11/96
Chloroform	67-66-3	ND	5	ug/kg	12/11/96
Chloromethane	74-87-3	ND	10	ug/kg	12/11/96
Dibromochloromethane	124-48-1	ND	5	ug/kg	12/11/96
1,1-Dichloroethane	75-43-3	ND	5	ug/kg	12/11/96
1,2-Dichloroethane	107-06-2	ND	5	ug/kg	12/11/96
1,1-Dichloroethene	75-35-4	ND	5	ug/kg	12/11/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/kg	12/11/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/kg	12/11/96
1,2-Dichloropropane	78-87-5	ND	5	ug/kg	12/11/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/kg	12/11/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/kg	12/11/96
Ethylbenzene	100-41-4	ND	5	ug/kg	12/11/96
2-Hexanone	591-78-6	ND	50	ug/kg	12/11/96
Methylene Chloride	75-09-2	ND	20	ug/kg	12/11/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/kg	12/11/96
Styrene	100-42-5	ND	5	ug/kg	12/11/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/kg	12/11/96
Tetrachloroethene	127-18-4	ND	5	ug/kg	12/11/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-8-5.5
AEN LAB NO: 9612094-19
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	5	ug/kg	12/11/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/kg	12/11/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/kg	12/11/96
Trichloroethene	79-01-6	ND	5	ug/kg	12/11/96
Vinyl Acetate	108-05-4	ND	50	ug/kg	12/11/96
Vinyl Chloride	75-01-4	ND	10	ug/kg	12/11/96
Xylenes Total	1330-20-7	ND	10	ug/kg	12/11/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/13/96
Anthracene	120-12-7	ND	330	ug/kg	12/13/96
Benzidine	92-87-5	ND	1600	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/13/96
Chrysene	218-01-9	ND	330	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-8-5.5
AEN LAB NO: 9612094-19
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/13/96
Fluorene	86-73-7	ND	330	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/13/96
Isophorone	78-59-1	ND	330	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/13/96
Naphthalene	91-20-3	ND	330	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/13/96
Pyrene	129-00-0	ND	330	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	330	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/13/96
Phenol	108-95-2	ND	330	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/13/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-8-7.5
AEN LAB NO: 9612094-20
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	4.1		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/08/96
Arsenic	EPA 7060	1,700 *	0.5	mg/kg	12/10/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/08/96
Lead	EPA 6010	190 *	1	mg/kg	12/11/96
Zinc	EPA 6010	650 *	1	mg/kg	12/11/96
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	500	ug/kg	12/11/96
Benzene	71-43-2	ND	30	ug/kg	12/11/96
Bromodichloromethane	75-27-4	ND	30	ug/kg	12/11/96
Bromoform	75-25-2	ND	30	ug/kg	12/11/96
Bromomethane	74-83-9	ND	50	ug/kg	12/11/96
2-Butanone	78-93-3	ND	500	ug/kg	12/11/96
Carbon Disulfide	75-15-0	ND	50	ug/kg	12/11/96
Carbon Tetrachloride	56-23-5	ND	30	ug/kg	12/11/96
Chlorobenzene	108-90-7	ND	30	ug/kg	12/11/96
Chloroethane	75-00-3	ND	50	ug/kg	12/11/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	50	ug/kg	12/11/96
Chloroform	67-66-3	ND	30	ug/kg	12/11/96
Chloromethane	74-87-3	ND	50	ug/kg	12/11/96
Dibromochloromethane	124-48-1	ND	30	ug/kg	12/11/96
1,1-Dichloroethane	75-43-3	ND	30	ug/kg	12/11/96
1,2-Dichloroethane	107-06-2	ND	30	ug/kg	12/11/96
1,1-Dichloroethene	75-35-4	ND	30	ug/kg	12/11/96
cis-1,2-Dichloroethene	156-59-2	ND	30	ug/kg	12/11/96
trans-1,2-Dichloroethene	156-60-5	ND	30	ug/kg	12/11/96
1,2-Dichloropropane	78-87-5	ND	30	ug/kg	12/11/96
cis-1,3-Dichloropropene	10061-01-5	ND	30	ug/kg	12/11/96
trans-1,3-Dichloropropene	10061-02-6	ND	30	ug/kg	12/11/96
Ethylbenzene	100-41-4	ND	30	ug/kg	12/11/96
2-Hexanone	591-78-6	ND	300	ug/kg	12/11/96
Methylene Chloride	75-09-2	ND	100	ug/kg	12/11/96
4-Methyl-2-pentanone	108-10-1	ND	300	ug/kg	12/11/96
Styrene	100-42-5	ND	30	ug/kg	12/11/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	30	ug/kg	12/11/96
Tetrachloroethene	127-18-4	ND	30	ug/kg	12/11/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-8-7.5
AEN LAB NO: 9612094-20
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	30	ug/kg	12/11/96
1,1,1-Trichloroethane	71-55-6	ND	30	ug/kg	12/11/96
1,1,2-Trichloroethane	79-00-5	ND	30	ug/kg	12/11/96
Trichloroethene	79-01-6	ND	30	ug/kg	12/11/96
Vinyl Acetate	108-05-4	ND	300	ug/kg	12/11/96
Vinyl Chloride	75-01-4	ND	50	ug/kg	12/11/96
Xylenes Total	1330-20-7	ND	50	ug/kg	12/11/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	17000	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	17000	ug/kg	12/13/96
Anthracene	120-12-7	ND	17000	ug/kg	12/13/96
Benzidine	92-87-5	ND	80000	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	80000	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	17000	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	17000	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	17000	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	17000	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	17000	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	33000	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	17000	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	17000	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	17000	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	17000	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	17000	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	17000	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	33000	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	17000	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	17000	ug/kg	12/13/96
Chrysene	218-01-9	ND	17000	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	17000	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	17000	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	17000	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	17000	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	17000	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	17000	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	33000	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	17000	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	17000	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	17000	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	17000	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-8-7.5
AEN LAB NO: 9612094-20
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	17000	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	17000	ug/kg	12/13/96
Fluorene	86-73-7	ND	17000	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	17000	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	17000	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	17000	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	17000	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	17000	ug/kg	12/13/96
Isophorone	78-59-1	ND	17000	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	17000	ug/kg	12/13/96
Naphthalene	91-20-3	ND	17000	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	80000	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	80000	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	80000	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	17000	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	17000	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	17000	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	17000	ug/kg	12/13/96
Pyrene	129-00-0	ND	17000	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	17000	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	17000	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	17000	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	17000	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	17000	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	80000	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	80000	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	17000	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	17000	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	17000	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	80000	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	80000	ug/kg	12/13/96
Phenol	108-95-2	ND	17000	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	17000	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	17000	ug/kg	12/13/96

RLs elevated for EPA 8270 and EPA 8240 due to high levels of non-target compounds. Sample run dilute.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-9-2.5
AEN LAB NO: 9612094-21
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	10.4		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/08/96
Arsenic	EPA 7060	11 *	0.5	mg/kg	12/10/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/08/96
Lead	EPA 6010	100 *	1	mg/kg	12/11/96
Zinc	EPA 6010	930 *	1	mg/kg	12/11/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	1,000 *	500	ug/kg	12/11/96
Benzene	71-43-2	ND	30	ug/kg	12/11/96
Bromodichloromethane	75-27-4	ND	30	ug/kg	12/11/96
Bromoform	75-25-2	ND	30	ug/kg	12/11/96
Bromomethane	74-83-9	ND	50	ug/kg	12/11/96
2-Butanone	78-93-3	ND	500	ug/kg	12/11/96
Carbon Disulfide	75-15-0	ND	50	ug/kg	12/11/96
Carbon Tetrachloride	56-23-5	ND	30	ug/kg	12/11/96
Chlorobenzene	108-90-7	ND	30	ug/kg	12/11/96
Chloroethane	75-00-3	ND	50	ug/kg	12/11/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	50	ug/kg	12/11/96
Chloroform	67-66-3	ND	30	ug/kg	12/11/96
Chloromethane	74-87-3	ND	50	ug/kg	12/11/96
Dibromochloromethane	124-48-1	ND	30	ug/kg	12/11/96
1,1-Dichloroethane	75-43-3	ND	30	ug/kg	12/11/96
1,2-Dichloroethane	107-06-2	ND	30	ug/kg	12/11/96
1,1-Dichloroethene	75-35-4	ND	30	ug/kg	12/11/96
cis-1,2-Dichloroethene	156-59-2	ND	30	ug/kg	12/11/96
trans-1,2-Dichloroethene	156-60-5	ND	30	ug/kg	12/11/96
1,2-Dichloropropane	78-87-5	ND	30	ug/kg	12/11/96
cis-1,3-Dichloropropene	10061-01-5	ND	30	ug/kg	12/11/96
trans-1,3-Dichloropropene	10061-02-6	ND	30	ug/kg	12/11/96
Ethylbenzene	100-41-4	85 *	30	ug/kg	12/11/96
2-Hexanone	591-78-6	ND	300	ug/kg	12/11/96
Methylene Chloride	75-09-2	ND	100	ug/kg	12/11/96
4-Methyl-2-pentanone	108-10-1	1,200 *	300	ug/kg	12/11/96
Styrene	100-42-5	ND	30	ug/kg	12/11/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	30	ug/kg	12/11/96
Tetrachloroethene	127-18-4	ND	30	ug/kg	12/11/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-9-2.5
AEN LAB NO: 9612094-21
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	780 *	30	ug/kg	12/11/96
1,1,1-Trichloroethane	71-55-6	ND	30	ug/kg	12/11/96
1,1,2-Trichloroethane	79-00-5	ND	30	ug/kg	12/11/96
Trichloroethene	79-01-6	ND	30	ug/kg	12/11/96
Vinyl Acetate	108-05-4	ND	300	ug/kg	12/11/96
Vinyl Chloride	75-01-4	ND	50	ug/kg	12/11/96
Xylenes Total	1330-20-7	200 *	50	ug/kg	12/11/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	17000	ug/kg	12/11/96
Acenaphthylene	208-96-8	ND	17000	ug/kg	12/11/96
Anthracene	120-12-7	ND	17000	ug/kg	12/11/96
Benzidine	92-87-5	ND	80000	ug/kg	12/11/96
Benzoic Acid	65-85-0	ND	80000	ug/kg	12/11/96
Benzo(a)anthracene	56-55-3	ND	17000	ug/kg	12/11/96
Benzo(b)fluoranthene	205-99-2	ND	17000	ug/kg	12/11/96
Benzo(k)fluoranthene	207-08-9	ND	17000	ug/kg	12/11/96
Benzo(g,h,i)perylene	191-24-2	ND	17000	ug/kg	12/11/96
Benzo(a)pyrene	50-32-8	ND	17000	ug/kg	12/11/96
Benzyl Alcohol	100-51-6	ND	33000	ug/kg	12/11/96
Bis(2-chloroethoxy)methane	111-91-1	ND	17000	ug/kg	12/11/96
Bis(2-choroethyl) Ether	111-44-4	ND	17000	ug/kg	12/11/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	17000	ug/kg	12/11/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	17000	ug/kg	12/11/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	17000	ug/kg	12/11/96
Butylbenzyl Phthalate	85-68-7	ND	17000	ug/kg	12/11/96
4-Chloroaniline	106-47-8	ND	33000	ug/kg	12/11/96
2-Chloronaphthalene	91-58-7	ND	17000	ug/kg	12/11/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	17000	ug/kg	12/11/96
Chrysene	218-01-9	ND	17000	ug/kg	12/11/96
Dibenzo(a,h)anthracene	53-70-3	ND	17000	ug/kg	12/11/96
Dibenzofuran	132-64-9	ND	17000	ug/kg	12/11/96
Di-n-butyl Phthalate	84-74-2	ND	17000	ug/kg	12/11/96
1,2-Dichlorobenzene	95-50-1	ND	17000	ug/kg	12/11/96
1,3-Dichlorobenzene	541-73-1	ND	17000	ug/kg	12/11/96
1,4-Dichlorobenzene	106-46-7	ND	17000	ug/kg	12/11/96
3,3'-Dichlorobenzidine	91-94-1	ND	33000	ug/kg	12/11/96
Diethyl Phthalate	84-66-2	ND	17000	ug/kg	12/11/96
Dimethyl Phthalate	131-11-3	ND	17000	ug/kg	12/11/96
2,4-Dinitrotoluene	121-14-2	ND	17000	ug/kg	12/11/96
2,6-Dinitrotoluene	606-20-2	ND	17000	ug/kg	12/11/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-9-2.5
AEN LAB NO: 9612094-21
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	17000	ug/kg	12/11/96
Fluoranthene	206-44-0	ND	17000	ug/kg	12/11/96
Fluorene	86-73-7	ND	17000	ug/kg	12/11/96
Hexachlorobenzene	118-74-1	ND	17000	ug/kg	12/11/96
Hexachlorobutadiene	87-68-3	ND	17000	ug/kg	12/11/96
Hexachlorocyclopentadiene	77-47-4	ND	17000	ug/kg	12/11/96
Hexachloroethane	67-72-1	ND	17000	ug/kg	12/11/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	17000	ug/kg	12/11/96
Isophorone	78-59-1	ND	17000	ug/kg	12/11/96
2-Methylnaphthalene	91-57-6	ND	17000	ug/kg	12/11/96
Naphthalene	91-20-3	ND	17000	ug/kg	12/11/96
2-Nitroaniline	88-74-4	ND	80000	ug/kg	12/11/96
3-Nitroaniline	99-09-2	ND	80000	ug/kg	12/11/96
4-Nitroaniline	100-01-6	ND	80000	ug/kg	12/11/96
Nitrobenzene	98-95-3	ND	17000	ug/kg	12/11/96
N-Nitrosodiphenylamine	86-30-6	ND	17000	ug/kg	12/11/96
N-Nitrosodi-n-propylamine	621-64-7	ND	17000	ug/kg	12/11/96
Phenanthrene	85-01-8	ND	17000	ug/kg	12/11/96
Pyrene	129-00-0	ND	17000	ug/kg	12/11/96
1,2,4-Trichlorobenzene	120-82-1	ND	17000	ug/kg	12/11/96
4-Chloro-3-methylphenol	59-50-7	ND	17000	ug/kg	12/11/96
2-Chlorophenol	95-57-8	ND	17000	ug/kg	12/11/96
2,4-Dichlorophenol	120-83-2	ND	17000	ug/kg	12/11/96
2,4-Dimethylphenol	105-67-9	ND	17000	ug/kg	12/11/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	80000	ug/kg	12/11/96
2,4-Dinitrophenol	51-28-5	ND	80000	ug/kg	12/11/96
2-Methylphenol	95-48-7	ND	17000	ug/kg	12/11/96
4-Methylphenol	106-44-5	ND	17000	ug/kg	12/11/96
2-Nitrophenol	88-75-5	ND	17000	ug/kg	12/11/96
4-Nitrophenol	100-02-7	ND	80000	ug/kg	12/11/96
Pentachlorophenol	87-86-5	ND	80000	ug/kg	12/11/96
Phenol	108-95-2	ND	17000	ug/kg	12/11/96
2,4,5-Trichlorophenol	95-95-4	ND	17000	ug/kg	12/11/96
2,4,6-Trichlorophenol	88-06-2	ND	17000	ug/kg	12/11/96

RLs elevated for EPA 8270 due to high levels of non-target compounds; RLs elevated for EPA 8240 due to high levels of target compounds. Sample run dilute.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-10-2.5
AEN LAB NO: 9612094-22
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	9.5		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/08/96
Arsenic	EPA 7060	3.7 *	0.5	mg/kg	12/10/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/08/96
Lead	EPA 6010	36 *	1	mg/kg	12/11/96
Zinc	EPA 6010	68 *	1	mg/kg	12/11/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	5000	ug/kg	12/11/96
Benzene	71-43-2	ND	300	ug/kg	12/11/96
Bromodichloromethane	75-27-4	ND	300	ug/kg	12/11/96
Bromoform	75-25-2	ND	300	ug/kg	12/11/96
Bromomethane	74-83-9	ND	500	ug/kg	12/11/96
2-Butanone	78-93-3	ND	5000	ug/kg	12/11/96
Carbon Disulfide	75-15-0	ND	500	ug/kg	12/11/96
Carbon Tetrachloride	56-23-5	ND	300	ug/kg	12/11/96
Chlorobenzene	108-90-7	ND	300	ug/kg	12/11/96
Chloroethane	75-00-3	ND	500	ug/kg	12/11/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	500	ug/kg	12/11/96
Chloroform	67-66-3	ND	300	ug/kg	12/11/96
Chloromethane	74-87-3	ND	500	ug/kg	12/11/96
Dibromochloromethane	124-48-1	ND	300	ug/kg	12/11/96
1,1-Dichloroethane	75-43-3	ND	300	ug/kg	12/11/96
1,2-Dichloroethane	107-06-2	ND	300	ug/kg	12/11/96
1,1-Dichloroethene	75-35-4	ND	300	ug/kg	12/11/96
cis-1,2-Dichloroethene	156-59-2	ND	300	ug/kg	12/11/96
trans-1,2-Dichloroethene	156-60-5	ND	300	ug/kg	12/11/96
1,2-Dichloropropane	78-87-5	ND	300	ug/kg	12/11/96
cis-1,3-Dichloropropene	10061-01-5	ND	300	ug/kg	12/11/96
trans-1,3-Dichloropropene	10061-02-6	ND	300	ug/kg	12/11/96
Ethylbenzene	100-41-4	550 *	300	ug/kg	12/11/96
2-Hexanone	591-78-6	ND	3000	ug/kg	12/11/96
Methylene Chloride	75-09-2	ND	1000	ug/kg	12/11/96
4-Methyl-2-pentanone	108-10-1	ND	3000	ug/kg	12/11/96
Styrene	100-42-5	ND	300	ug/kg	12/11/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	300	ug/kg	12/11/96
Tetrachloroethene	127-18-4	ND	300	ug/kg	12/11/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-10-2.5
AEN LAB NO: 9612094-22
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	3,000 *	300	ug/kg	12/11/96
1,1,1-Trichloroethane	71-55-6	ND	300	ug/kg	12/11/96
1,1,2-Trichloroethane	79-00-5	ND	300	ug/kg	12/11/96
Trichloroethene	79-01-6	ND	300	ug/kg	12/11/96
Vinyl Acetate	108-05-4	ND	3000	ug/kg	12/11/96
Vinyl Chloride	75-01-4	ND	500	ug/kg	12/11/96
Xylenes Total	1330-20-7	1,400 *	500	ug/kg	12/11/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/12/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/12/96
Anthracene	120-12-7	ND	330	ug/kg	12/12/96
Benzidine	92-87-5	ND	1600	ug/kg	12/12/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/12/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/12/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/12/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/12/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/12/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/12/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/12/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/12/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/12/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/12/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/12/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/12/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/12/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/12/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/12/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/12/96
Chrysene	218-01-9	ND	330	ug/kg	12/12/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/12/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/12/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/12/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/12/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/12/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/12/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/12/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/12/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/12/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/12/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/12/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-10-2.5
AEN LAB NO: 9612094-22
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/12/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/12/96
Fluorene	86-73-7	ND	330	ug/kg	12/12/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/12/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/12/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/12/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/12/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/12/96
Isophorone	78-59-1	ND	330	ug/kg	12/12/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/12/96
Naphthalene	91-20-3	ND	330	ug/kg	12/12/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/12/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/12/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/12/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/12/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/12/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/12/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/12/96
Pyrene	129-00-0	ND	330	ug/kg	12/12/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/12/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/12/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/12/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/12/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/12/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/12/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/12/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/12/96
4-Methylphenol	106-44-5	ND	330	ug/kg	12/12/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/12/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/12/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/12/96
Phenol	108-95-2	ND	330	ug/kg	12/12/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/12/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/12/96

RLs elevated for EPA 8240 due to high levels of target compounds. Sample run dilute.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-10-5.5
AEN LAB NO: 9612094-23
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	**EPA 9045A**	8.1		S.U.	12/10/96
#Digestion, Metals by GFAA	**EPA 3050**	-		Prep Date	12/08/96
Arsenic	**EPA 7060**	11 *	0.5	mg/kg	12/09/96
#Digestion, Metals AA/ICP	**EPA 3050**	-		Prep Date	12/08/96
Lead	**EPA 6010**	7 *	1	mg/kg	12/11/96
Zinc	**EPA 6010**	39 *	1	mg/kg	12/11/96
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	48,000 *	10000	ug/kg	12/11/96
Benzene	71-43-2	ND	500	ug/kg	12/11/96
Bromodichloromethane	75-27-4	ND	500	ug/kg	12/11/96
Bromoform	75-25-2	ND	500	ug/kg	12/11/96
Bromomethane	74-83-9	ND	1000	ug/kg	12/11/96
2-Butanone	78-93-3	ND	10000	ug/kg	12/11/96
Carbon Disulfide	75-15-0	ND	1000	ug/kg	12/11/96
Carbon Tetrachloride	56-23-5	ND	500	ug/kg	12/11/96
Chlorobenzene	108-90-7	ND	500	ug/kg	12/11/96
Chloroethane	75-00-3	ND	1000	ug/kg	12/11/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	1000	ug/kg	12/11/96
Chloroform	67-66-3	ND	500	ug/kg	12/11/96
Chloromethane	74-87-3	ND	1000	ug/kg	12/11/96
Dibromochloromethane	124-48-1	ND	500	ug/kg	12/11/96
1,1-Dichloroethane	75-43-3	ND	500	ug/kg	12/11/96
1,2-Dichloroethane	107-06-2	ND	500	ug/kg	12/11/96
1,1-Dichloroethene	75-35-4	ND	500	ug/kg	12/11/96
cis-1,2-Dichloroethene	156-59-2	ND	500	ug/kg	12/11/96
trans-1,2-Dichloroethene	156-60-5	ND	500	ug/kg	12/11/96
1,2-Dichloropropane	78-87-5	ND	500	ug/kg	12/11/96
cis-1,3-Dichloropropene	10061-01-5	ND	500	ug/kg	12/11/96
trans-1,3-Dichloropropene	10061-02-6	ND	500	ug/kg	12/11/96
Ethylbenzene	100-41-4	ND	500	ug/kg	12/11/96
2-Hexanone	591-78-6	ND	5000	ug/kg	12/11/96
Methylene Chloride	75-09-2	ND	2000	ug/kg	12/11/96
4-Methyl-2-pentanone	108-10-1	ND	5000	ug/kg	12/11/96
Styrene	100-42-5	ND	500	ug/kg	12/11/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	500	ug/kg	12/11/96
Tetrachloroethene	127-18-4	ND	500	ug/kg	12/11/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-10-5.5
AEN LAB NO: 9612094-23
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	1,100 *	500	ug/kg	12/11/96
1,1,1-Trichloroethane	71-55-6	ND	500	ug/kg	12/11/96
1,1,2-Trichloroethane	79-00-5	ND	500	ug/kg	12/11/96
Trichloroethene	79-01-6	ND	500	ug/kg	12/11/96
Vinyl Acetate	108-05-4	ND	5000	ug/kg	12/11/96
Vinyl Chloride	75-01-4	ND	1000	ug/kg	12/11/96
Xylenes Total	1330-20-7	ND	1000	ug/kg	12/11/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/12/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/12/96
Anthracene	120-12-7	ND	330	ug/kg	12/12/96
Benzidine	92-87-5	ND	1600	ug/kg	12/12/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/12/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/12/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/12/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/12/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/12/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/12/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/12/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/12/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/12/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/12/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/12/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/12/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/12/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/12/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/12/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/12/96
Chrysene	218-01-9	ND	330	ug/kg	12/12/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/12/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/12/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/12/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/12/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/12/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/12/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/12/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/12/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/12/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/12/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/12/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-10-5.5
AEN LAB NO: 9612094-23
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/12/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/12/96
Fluorene	86-73-7	ND	330	ug/kg	12/12/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/12/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/12/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/12/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/12/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/12/96
Isophorone	78-59-1	ND	330	ug/kg	12/12/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/12/96
Naphthalene	91-20-3	ND	330	ug/kg	12/12/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/12/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/12/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/12/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/12/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/12/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/12/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/12/96
Pyrene	129-00-0	ND	330	ug/kg	12/12/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/12/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/12/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/12/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/12/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/12/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/12/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/12/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/12/96
4-Methylphenol	106-44-5	ND	330	ug/kg	12/12/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/12/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/12/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/12/96
Phenol	108-95-2	ND	330	ug/kg	12/12/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/12/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/12/96

RLs elevated for EPA 8240 due to high levels of target compounds. Sample run dilute.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-10-7.5
AEN LAB NO: 9612094-24
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	6.2		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/08/96
Arsenic	EPA 7060	8.6 *	0.5	mg/kg	12/09/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/08/96
Lead	EPA 6010	6 *	1	mg/kg	12/11/96
Zinc	EPA 6010	41 *	1	mg/kg	12/11/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	19,000 *	10000	ug/kg	12/11/96
Benzene	71-43-2	ND	500	ug/kg	12/11/96
Bromodichloromethane	75-27-4	ND	500	ug/kg	12/11/96
Bromoform	75-25-2	ND	500	ug/kg	12/11/96
Bromomethane	74-83-9	ND	1000	ug/kg	12/11/96
2-Butanone	78-93-3	ND	10000	ug/kg	12/11/96
Carbon Disulfide	75-15-0	ND	1000	ug/kg	12/11/96
Carbon Tetrachloride	56-23-5	ND	500	ug/kg	12/11/96
Chlorobenzene	108-90-7	ND	500	ug/kg	12/11/96
Chloroethane	75-00-3	ND	1000	ug/kg	12/11/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	1000	ug/kg	12/11/96
Chloroform	67-66-3	ND	500	ug/kg	12/11/96
Chloromethane	74-87-3	ND	1000	ug/kg	12/11/96
Dibromochloromethane	124-48-1	ND	500	ug/kg	12/11/96
1,1-Dichloroethane	75-43-3	ND	500	ug/kg	12/11/96
1,2-Dichloroethane	107-06-2	ND	500	ug/kg	12/11/96
1,1-Dichloroethene	75-35-4	ND	500	ug/kg	12/11/96
cis-1,2-Dichloroethene	156-59-2	ND	500	ug/kg	12/11/96
trans-1,2-Dichloroethene	156-60-5	ND	500	ug/kg	12/11/96
1,2-Dichloropropane	78-87-5	ND	500	ug/kg	12/11/96
cis-1,3-Dichloropropene	10061-01-5	ND	500	ug/kg	12/11/96
trans-1,3-Dichloropropene	10061-02-6	ND	500	ug/kg	12/11/96
Ethylbenzene	100-41-4	800 *	500	ug/kg	12/11/96
2-Hexanone	591-78-6	ND	5000	ug/kg	12/11/96
Methylene Chloride	75-09-2	ND	2000	ug/kg	12/11/96
4-Methyl-2-pentanone	108-10-1	ND	5000	ug/kg	12/11/96
Styrene	100-42-5	ND	500	ug/kg	12/11/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	500	ug/kg	12/11/96
Tetrachloroethene	127-18-4	ND	500	ug/kg	12/11/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-10-7.5
AEN LAB NO: 9612094-24
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	4,300 *	500	ug/kg	12/11/96
1,1,1-Trichloroethane	71-55-6	ND	500	ug/kg	12/11/96
1,1,2-Trichloroethane	79-00-5	ND	500	ug/kg	12/11/96
Trichloroethene	79-01-6	ND	500	ug/kg	12/11/96
Vinyl Acetate	108-05-4	ND	5000	ug/kg	12/11/96
Vinyl Chloride	75-01-4	ND	1000	ug/kg	12/11/96
Xylenes Total	1330-20-7	2,500 *	1000	ug/kg	12/11/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	660	ug/kg	12/14/96
Acenaphthylene	208-96-8	ND	660	ug/kg	12/14/96
Anthracene	120-12-7	ND	660	ug/kg	12/14/96
Benzidine	92-87-5	ND	3200	ug/kg	12/14/96
Benzoic Acid	65-85-0	ND	3200	ug/kg	12/14/96
Benzo(a)anthracene	56-55-3	ND	660	ug/kg	12/14/96
Benzo(b)fluoranthene	205-99-2	ND	660	ug/kg	12/14/96
Benzo(k)fluoranthene	207-08-9	ND	660	ug/kg	12/14/96
Benzo(g,h,i)perylene	191-24-2	ND	660	ug/kg	12/14/96
Benzo(a)pyrene	50-32-8	ND	660	ug/kg	12/14/96
Benzyl Alcohol	100-51-6	ND	1300	ug/kg	12/14/96
Bis(2-chloroethoxy)methane	111-91-1	ND	660	ug/kg	12/14/96
Bis(2-choroethyl) Ether	111-44-4	ND	660	ug/kg	12/14/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	660	ug/kg	12/14/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	660	ug/kg	12/14/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	660	ug/kg	12/14/96
Butylbenzyl Phthalate	85-68-7	ND	660	ug/kg	12/14/96
4-Chloroaniline	106-47-8	ND	1300	ug/kg	12/14/96
2-Chloronaphthalene	91-58-7	ND	660	ug/kg	12/14/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	660	ug/kg	12/14/96
Chrysene	218-01-9	ND	660	ug/kg	12/14/96
Dibenzo(a,h)anthracene	53-70-3	ND	660	ug/kg	12/14/96
Dibenzofuran	132-64-9	ND	660	ug/kg	12/14/96
Di-n-butyl Phthalate	84-74-2	ND	660	ug/kg	12/14/96
1,2-Dichlorobenzene	95-50-1	ND	660	ug/kg	12/14/96
1,3-Dichlorobenzene	541-73-1	ND	660	ug/kg	12/14/96
1,4-Dichlorobenzene	106-46-7	ND	660	ug/kg	12/14/96
3,3'-Dichlorobenzidine	91-94-1	ND	1300	ug/kg	12/14/96
Diethyl Phthalate	84-66-2	ND	660	ug/kg	12/14/96
Dimethyl Phthalate	131-11-3	ND	660	ug/kg	12/14/96
2,4-Dinitrotoluene	121-14-2	ND	660	ug/kg	12/14/96
2,6-Dinitrotoluene	606-20-2	ND	660	ug/kg	12/14/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-10-7.5
AEN LAB NO: 9612094-24
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	660	ug/kg	12/14/96
Fluoranthene	206-44-0	ND	660	ug/kg	12/14/96
Fluorene	86-73-7	ND	660	ug/kg	12/14/96
Hexachlorobenzene	118-74-1	ND	660	ug/kg	12/14/96
Hexachlorobutadiene	87-68-3	ND	660	ug/kg	12/14/96
Hexachlorocyclopentadiene	77-47-4	ND	660	ug/kg	12/14/96
Hexachloroethane	67-72-1	ND	660	ug/kg	12/14/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	660	ug/kg	12/14/96
Isophorone	78-59-1	ND	660	ug/kg	12/14/96
2-Methylnaphthalene	91-57-6	ND	660	ug/kg	12/14/96
Naphthalene	91-20-3	ND	660	ug/kg	12/14/96
2-Nitroaniline	88-74-4	ND	3200	ug/kg	12/14/96
3-Nitroaniline	99-09-2	ND	3200	ug/kg	12/14/96
4-Nitroaniline	100-01-6	ND	3200	ug/kg	12/14/96
Nitrobenzene	98-95-3	ND	660	ug/kg	12/14/96
N-Nitrosodiphenylamine	86-30-6	ND	660	ug/kg	12/14/96
N-Nitrosodi-n-propylamine	621-64-7	ND	660	ug/kg	12/14/96
Phenanthrene	85-01-8	ND	660	ug/kg	12/14/96
Pyrene	129-00-0	ND	660	ug/kg	12/14/96
1,2,4-Trichlorobenzene	120-82-1	ND	660	ug/kg	12/14/96
4-Chloro-3-methylphenol	59-50-7	ND	660	ug/kg	12/14/96
2-Chlorophenol	95-57-8	ND	660	ug/kg	12/14/96
2,4-Dichlorophenol	120-83-2	ND	660	ug/kg	12/14/96
2,4-Dimethylphenol	105-67-9	ND	660	ug/kg	12/14/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	3200	ug/kg	12/14/96
2,4-Dinitrophenol	51-28-5	ND	3200	ug/kg	12/14/96
2-Methylphenol	95-48-7	ND	660	ug/kg	12/14/96
4-Methylphenol	106-44-5	ND	660	ug/kg	12/14/96
2-Nitrophenol	88-75-5	ND	660	ug/kg	12/14/96
4-Nitrophenol	100-02-7	ND	3200	ug/kg	12/14/96
Pentachlorophenol	87-86-5	ND	3200	ug/kg	12/14/96
Phenol	108-95-2	ND	660	ug/kg	12/14/96
2,4,5-Trichlorophenol	95-95-4	ND	660	ug/kg	12/14/96
2,4,6-Trichlorophenol	88-06-2	ND	660	ug/kg	12/14/96

RLs elevated for EPA 8270 due to high levels of non-target compounds; RLs elevated for EPA 8240 due to high levels of target compounds. Sample run dilute.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-11-2.5
AEN LAB NO: 9612094-25
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	4.2		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/08/96
Arsenic	EPA 7060	7.7 *	0.5	mg/kg	12/09/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/08/96
Lead	EPA 6010	7 *	1	mg/kg	12/11/96
Zinc	EPA 6010	630 *	1	mg/kg	12/11/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	100	ug/kg	12/11/96
Benzene	71-43-2	ND	5	ug/kg	12/11/96
Bromodichloromethane	75-27-4	ND	5	ug/kg	12/11/96
Bromoform	75-25-2	ND	5	ug/kg	12/11/96
Bromomethane	74-83-9	ND	10	ug/kg	12/11/96
2-Butanone	78-93-3	ND	100	ug/kg	12/11/96
Carbon Disulfide	75-15-0	ND	10	ug/kg	12/11/96
Carbon Tetrachloride	56-23-5	ND	5	ug/kg	12/11/96
Chlorobenzene	108-90-7	ND	5	ug/kg	12/11/96
Chloroethane	75-00-3	ND	10	ug/kg	12/11/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/kg	12/11/96
Chloroform	67-66-3	ND	5	ug/kg	12/11/96
Chloromethane	74-87-3	ND	10	ug/kg	12/11/96
Dibromochloromethane	124-48-1	ND	5	ug/kg	12/11/96
1,1-Dichloroethane	75-43-3	ND	5	ug/kg	12/11/96
1,2-Dichloroethane	107-06-2	ND	5	ug/kg	12/11/96
1,1-Dichloroethene	75-35-4	ND	5	ug/kg	12/11/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/kg	12/11/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/kg	12/11/96
1,2-Dichloropropane	78-87-5	ND	5	ug/kg	12/11/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/kg	12/11/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/kg	12/11/96
Ethylbenzene	100-41-4	ND	5	ug/kg	12/11/96
2-Hexanone	591-78-6	ND	50	ug/kg	12/11/96
Methylene Chloride	75-09-2	ND	20	ug/kg	12/11/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/kg	12/11/96
Styrene	100-42-5	ND	5	ug/kg	12/11/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/kg	12/11/96
Tetrachloroethene	127-18-4	ND	5	ug/kg	12/11/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-11-2.5
AEN LAB NO: 9612094-25
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	5	ug/kg	12/11/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/kg	12/11/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/kg	12/11/96
Trichloroethene	79-01-6	ND	5	ug/kg	12/11/96
Vinyl Acetate	108-05-4	ND	50	ug/kg	12/11/96
Vinyl Chloride	75-01-4	ND	10	ug/kg	12/11/96
Xylenes Total	1330-20-7	ND	10	ug/kg	12/11/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/13/96
Anthracene	120-12-7	ND	330	ug/kg	12/13/96
Benzidine	92-87-5	ND	1600	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/13/96
Chrysene	218-01-9	ND	330	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-11-2.5
AEN LAB NO: 9612094-25
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/13/96
Fluorene	86-73-7	ND	330	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/13/96
Isophorone	78-59-1	ND	330	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/13/96
Naphthalene	91-20-3	ND	330	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/13/96
Pyrene	129-00-0	ND	330	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	330	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/13/96
Phenol	108-95-2	ND	330	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/13/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-11-5.0
AEN LAB NO: 9612094-26
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	8.9		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/09/96
Arsenic	EPA 7060	5.4 *	0.5	mg/kg	12/10/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/09/96
Lead	EPA 6010	6 *	1	mg/kg	12/10/96
Zinc	EPA 6010	700 *	1	mg/kg	12/10/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	100	ug/kg	12/11/96
Benzene	71-43-2	ND	5	ug/kg	12/11/96
Bromodichloromethane	75-27-4	ND	5	ug/kg	12/11/96
Bromoform	75-25-2	ND	5	ug/kg	12/11/96
Bromomethane	74-83-9	ND	10	ug/kg	12/11/96
2-Butanone	78-93-3	ND	100	ug/kg	12/11/96
Carbon Disulfide	75-15-0	ND	10	ug/kg	12/11/96
Carbon Tetrachloride	56-23-5	ND	5	ug/kg	12/11/96
Chlorobenzene	108-90-7	ND	5	ug/kg	12/11/96
Chloroethane	75-00-3	ND	10	ug/kg	12/11/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/kg	12/11/96
Chloroform	67-66-3	ND	5	ug/kg	12/11/96
Chloromethane	74-87-3	ND	10	ug/kg	12/11/96
Dibromochloromethane	124-48-1	ND	5	ug/kg	12/11/96
1,1-Dichloroethane	75-43-3	ND	5	ug/kg	12/11/96
1,2-Dichloroethane	107-06-2	ND	5	ug/kg	12/11/96
1,1-Dichloroethene	75-35-4	ND	5	ug/kg	12/11/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/kg	12/11/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/kg	12/11/96
1,2-Dichloropropane	78-87-5	ND	5	ug/kg	12/11/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/kg	12/11/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/kg	12/11/96
Ethylbenzene	100-41-4	ND	5	ug/kg	12/11/96
2-Hexanone	591-78-6	ND	50	ug/kg	12/11/96
Methylene Chloride	75-09-2	ND	20	ug/kg	12/11/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/kg	12/11/96
Styrene	100-42-5	ND	5	ug/kg	12/11/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/kg	12/11/96
Tetrachloroethene	127-18-4	ND	5	ug/kg	12/11/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-11-5.0
AEN LAB NO: 9612094-26
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	5	ug/kg	12/11/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/kg	12/11/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/kg	12/11/96
Trichloroethene	79-01-6	ND	5	ug/kg	12/11/96
Vinyl Acetate	108-05-4	ND	50	ug/kg	12/11/96
Vinyl Chloride	75-01-4	ND	10	ug/kg	12/11/96
Xylenes Total	1330-20-7	ND	10	ug/kg	12/11/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/13/96
Anthracene	120-12-7	ND	330	ug/kg	12/13/96
Benzidine	92-87-5	ND	1600	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/13/96
Chrysene	218-01-9	ND	330	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-11-5.0
AEN LAB NO: 9612094-26
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/13/96
Fluorene	86-73-7	ND	330	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/13/96
Isophorone	78-59-1	ND	330	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/13/96
Naphthalene	91-20-3	ND	330	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/13/96
Pyrene	129-00-0	ND	330	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	330	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/13/96
Phenol	108-95-2	ND	330	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/13/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-11-7.5
AEN LAB NO: 9612094-27
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	5.3		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/09/96
Arsenic	EPA 7060	8.6 *	0.5	mg/kg	12/10/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/09/96
Lead	EPA 6010	7 *	1	mg/kg	12/10/96
Zinc	EPA 6010	550 *	1	mg/kg	12/10/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	100	ug/kg	12/11/96
Benzene	71-43-2	ND	5	ug/kg	12/11/96
Bromodichloromethane	75-27-4	ND	5	ug/kg	12/11/96
Bromoform	75-25-2	ND	5	ug/kg	12/11/96
Bromomethane	74-83-9	ND	10	ug/kg	12/11/96
2-Butanone	78-93-3	ND	100	ug/kg	12/11/96
Carbon Disulfide	75-15-0	ND	10	ug/kg	12/11/96
Carbon Tetrachloride	56-23-5	ND	5	ug/kg	12/11/96
Chlorobenzene	108-90-7	ND	5	ug/kg	12/11/96
Chloroethane	75-00-3	ND	10	ug/kg	12/11/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/kg	12/11/96
Chloroform	67-66-3	ND	5	ug/kg	12/11/96
Chloromethane	74-87-3	ND	10	ug/kg	12/11/96
Dibromochloromethane	124-48-1	ND	5	ug/kg	12/11/96
1,1-Dichloroethane	75-43-3	ND	5	ug/kg	12/11/96
1,2-Dichloroethane	107-06-2	ND	5	ug/kg	12/11/96
1,1-Dichloroethene	75-35-4	ND	5	ug/kg	12/11/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/kg	12/11/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/kg	12/11/96
1,2-Dichloropropane	78-87-5	ND	5	ug/kg	12/11/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/kg	12/11/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/kg	12/11/96
Ethylbenzene	100-41-4	ND	5	ug/kg	12/11/96
2-Hexanone	591-78-6	ND	50	ug/kg	12/11/96
Methylene Chloride	75-09-2	ND	20	ug/kg	12/11/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/kg	12/11/96
Styrene	100-42-5	ND	5	ug/kg	12/11/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/kg	12/11/96
Tetrachloroethene	127-18-4	ND	5	ug/kg	12/11/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-11-7.5
AEN LAB NO: 9612094-27
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	5	ug/kg	12/11/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/kg	12/11/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/kg	12/11/96
Trichloroethene	79-01-6	ND	5	ug/kg	12/11/96
Vinyl Acetate	108-05-4	ND	50	ug/kg	12/11/96
Vinyl Chloride	75-01-4	ND	10	ug/kg	12/11/96
Xylenes Total	1330-20-7	ND	10	ug/kg	12/11/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/13/96
Anthracene	120-12-7	ND	330	ug/kg	12/13/96
Benzidine	92-87-5	ND	1600	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/13/96
Chrysene	218-01-9	ND	330	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-11-7.5
AEN LAB NO: 9612094-27
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/13/96
Fluorene	86-73-7	ND	330	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/13/96
Isophorone	78-59-1	ND	330	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/13/96
Naphthalene	91-20-3	ND	330	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/13/96
Pyrene	129-00-0	ND	330	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	330	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/13/96
Phenol	108-95-2	ND	330	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/13/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-12-2.5
AEN LAB NO: 9612094-28
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	**EPA 9045A**	4.7		S.U.	12/10/96
#Digestion, Metals by GFAA	**EPA 3050**	-		Prep Date	12/09/96
Arsenic	**EPA 7060**	20,000 *	0.5	mg/kg	12/11/96
#Digestion, Metals AA/ICP	**EPA 3050**	-		Prep Date	12/09/96
Lead	**EPA 6010**	68 *	1	mg/kg	12/10/96
Zinc	**EPA 6010**	1,500 *	1	mg/kg	12/10/96
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	100	ug/kg	12/11/96
Benzene	71-43-2	ND	5	ug/kg	12/11/96
Bromodichloromethane	75-27-4	ND	5	ug/kg	12/11/96
Bromoform	75-25-2	ND	5	ug/kg	12/11/96
Bromomethane	74-83-9	ND	10	ug/kg	12/11/96
2-Butanone	78-93-3	ND	100	ug/kg	12/11/96
Carbon Disulfide	75-15-0	ND	10	ug/kg	12/11/96
Carbon Tetrachloride	56-23-5	ND	5	ug/kg	12/11/96
Chlorobenzene	108-90-7	ND	5	ug/kg	12/11/96
Chloroethane	75-00-3	ND	10	ug/kg	12/11/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/kg	12/11/96
Chloroform	67-66-3	ND	5	ug/kg	12/11/96
Chloromethane	74-87-3	ND	10	ug/kg	12/11/96
Dibromochloromethane	124-48-1	ND	5	ug/kg	12/11/96
1,1-Dichloroethane	75-43-3	ND	5	ug/kg	12/11/96
1,2-Dichloroethane	107-06-2	ND	5	ug/kg	12/11/96
1,1-Dichloroethene	75-35-4	ND	5	ug/kg	12/11/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/kg	12/11/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/kg	12/11/96
1,2-Dichloropropane	78-87-5	ND	5	ug/kg	12/11/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/kg	12/11/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/kg	12/11/96
Ethylbenzene	100-41-4	ND	5	ug/kg	12/11/96
2-Hexanone	591-78-6	ND	50	ug/kg	12/11/96
Methylene Chloride	75-09-2	ND	20	ug/kg	12/11/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/kg	12/11/96
Styrene	100-42-5	ND	5	ug/kg	12/11/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/kg	12/11/96
Tetrachloroethene	127-18-4	ND	5	ug/kg	12/11/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-12-2.5
AEN LAB NO: 9612094-28
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	5	ug/kg	12/11/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/kg	12/11/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/kg	12/11/96
Trichloroethene	79-01-6	ND	5	ug/kg	12/11/96
Vinyl Acetate	108-05-4	ND	50	ug/kg	12/11/96
Vinyl Chloride	75-01-4	ND	10	ug/kg	12/11/96
Xylenes Total	1330-20-7	ND	10	ug/kg	12/11/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/13/96
Anthracene	120-12-7	ND	330	ug/kg	12/13/96
Benzidine	92-87-5	ND	1600	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/13/96
Chrysene	218-01-9	ND	330	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-12-2.5
AEN LAB NO: 9612094-28
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/13/96
Fluorene	86-73-7	ND	330	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/13/96
Isophorone	78-59-1	ND	330	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/13/96
Naphthalene	91-20-3	ND	330	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/13/96
Pyrene	129-00-0	ND	330	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	330	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/13/96
Phenol	108-95-2	ND	330	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/13/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-12-5.0
AEN LAB NO: 9612094-29
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	3.8		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/09/96
Arsenic	EPA 7060	14,000 *	0.5	mg/kg	12/11/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/09/96
Lead	EPA 6010	12 *	1	mg/kg	12/10/96
Zinc	EPA 6010	3,300 *	1	mg/kg	12/10/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	100	ug/kg	12/11/96
Benzene	71-43-2	ND	5	ug/kg	12/11/96
Bromodichloromethane	75-27-4	ND	5	ug/kg	12/11/96
Bromoform	75-25-2	ND	5	ug/kg	12/11/96
Bromomethane	74-83-9	ND	10	ug/kg	12/11/96
2-Butanone	78-93-3	ND	100	ug/kg	12/11/96
Carbon Disulfide	75-15-0	ND	10	ug/kg	12/11/96
Carbon Tetrachloride	56-23-5	ND	5	ug/kg	12/11/96
Chlorobenzene	108-90-7	ND	5	ug/kg	12/11/96
Chloroethane	75-00-3	ND	10	ug/kg	12/11/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/kg	12/11/96
Chloroform	67-66-3	ND	5	ug/kg	12/11/96
Chloromethane	74-87-3	ND	10	ug/kg	12/11/96
Dibromochloromethane	124-48-1	ND	5	ug/kg	12/11/96
1,1-Dichloroethane	75-43-3	ND	5	ug/kg	12/11/96
1,2-Dichloroethane	107-06-2	ND	5	ug/kg	12/11/96
1,1-Dichloroethene	75-35-4	ND	5	ug/kg	12/11/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/kg	12/11/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/kg	12/11/96
1,2-Dichloropropane	78-87-5	ND	5	ug/kg	12/11/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/kg	12/11/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/kg	12/11/96
Ethylbenzene	100-41-4	ND	5	ug/kg	12/11/96
2-Hexanone	591-78-6	ND	50	ug/kg	12/11/96
Methylene Chloride	75-09-2	ND	20	ug/kg	12/11/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/kg	12/11/96
Styrene	100-42-5	ND	5	ug/kg	12/11/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/kg	12/11/96
Tetrachloroethene	127-18-4	ND	5	ug/kg	12/11/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-12-5.0
AEN LAB NO: 9612094-29
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	5	ug/kg	12/11/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/kg	12/11/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/kg	12/11/96
Trichloroethene	79-01-6	ND	5	ug/kg	12/11/96
Vinyl Acetate	108-05-4	ND	50	ug/kg	12/11/96
Vinyl Chloride	75-01-4	ND	10	ug/kg	12/11/96
Xylenes Total	1330-20-7	ND	10	ug/kg	12/11/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/13/96
Anthracene	120-12-7	ND	330	ug/kg	12/13/96
Benzidine	92-87-5	ND	1600	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/13/96
Chrysene	218-01-9	ND	330	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-12-5.0
AEN LAB NO: 9612094-29
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/13/96
Fluorene	86-73-7	ND	330	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/13/96
Isophorone	78-59-1	ND	330	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/13/96
Naphthalene	91-20-3	ND	330	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/13/96
Pyrene	129-00-0	ND	330	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	330	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/13/96
Phenol	108-95-2	ND	330	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/13/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-12-7.5
AEN LAB NO: 9612094-30
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	3.8		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/09/96
Arsenic	EPA 7060	480 *	0.5	mg/kg	12/11/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/09/96
Lead	EPA 6010	33 *	1	mg/kg	12/10/96
Zinc	EPA 6010	410 *	1	mg/kg	12/10/96
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	100	ug/kg	12/11/96
Benzene	71-43-2	ND	5	ug/kg	12/11/96
Bromodichloromethane	75-27-4	ND	5	ug/kg	12/11/96
Bromoform	75-25-2	ND	5	ug/kg	12/11/96
Bromomethane	74-83-9	ND	10	ug/kg	12/11/96
2-Butanone	78-93-3	ND	100	ug/kg	12/11/96
Carbon Disulfide	75-15-0	ND	10	ug/kg	12/11/96
Carbon Tetrachloride	56-23-5	ND	5	ug/kg	12/11/96
Chlorobenzene	108-90-7	ND	5	ug/kg	12/11/96
Chloroethane	75-00-3	ND	10	ug/kg	12/11/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/kg	12/11/96
Chloroform	67-66-3	ND	5	ug/kg	12/11/96
Chloromethane	74-87-3	ND	10	ug/kg	12/11/96
Dibromochloromethane	124-48-1	ND	5	ug/kg	12/11/96
1,1-Dichloroethane	75-43-3	ND	5	ug/kg	12/11/96
1,2-Dichloroethane	107-06-2	ND	5	ug/kg	12/11/96
1,1-Dichloroethene	75-35-4	ND	5	ug/kg	12/11/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/kg	12/11/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/kg	12/11/96
1,2-Dichloropropane	78-87-5	ND	5	ug/kg	12/11/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/kg	12/11/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/kg	12/11/96
Ethylbenzene	100-41-4	ND	5	ug/kg	12/11/96
2-Hexanone	591-78-6	ND	50	ug/kg	12/11/96
Methylene Chloride	75-09-2	ND	20	ug/kg	12/11/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/kg	12/11/96
Styrene	100-42-5	ND	5	ug/kg	12/11/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/kg	12/11/96
Tetrachloroethene	127-18-4	ND	5	ug/kg	12/11/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-12-7.5
AEN LAB NO: 9612094-30
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	5	ug/kg	12/11/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/kg	12/11/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/kg	12/11/96
Trichloroethene	79-01-6	ND	5	ug/kg	12/11/96
Vinyl Acetate	108-05-4	ND	50	ug/kg	12/11/96
Vinyl Chloride	75-01-4	ND	10	ug/kg	12/11/96
Xylenes Total	1330-20-7	ND	10	ug/kg	12/11/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/13/96
Anthracene	120-12-7	ND	330	ug/kg	12/13/96
Benzidine	92-87-5	ND	1600	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/13/96
Chrysene	218-01-9	ND	330	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-12-7.5
AEN LAB NO: 9612094-30
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/13/96
Fluorene	86-73-7	ND	330	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/13/96
Isophorone	78-59-1	ND	330	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/13/96
Naphthalene	91-20-3	ND	330	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/13/96
Pyrene	129-00-0	ND	330	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	330	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/13/96
Phenol	108-95-2	ND	330	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/13/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-13-2.5
AEN LAB NO: 9612094-31
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	7.2		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/09/96
Arsenic	EPA 7060	33 *	0.5	mg/kg	12/11/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/09/96
Lead	EPA 6010	3,100 *	1	mg/kg	12/11/96
Zinc	EPA 6010	62,000 *	1	mg/kg	12/12/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	100	ug/kg	12/11/96
Benzene	71-43-2	ND	5	ug/kg	12/11/96
Bromodichloromethane	75-27-4	ND	5	ug/kg	12/11/96
Bromoform	75-25-2	ND	5	ug/kg	12/11/96
Bromomethane	74-83-9	ND	10	ug/kg	12/11/96
2-Butanone	78-93-3	ND	100	ug/kg	12/11/96
Carbon Disulfide	75-15-0	ND	10	ug/kg	12/11/96
Carbon Tetrachloride	56-23-5	ND	5	ug/kg	12/11/96
Chlorobenzene	108-90-7	ND	5	ug/kg	12/11/96
Chloroethane	75-00-3	ND	10	ug/kg	12/11/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/kg	12/11/96
Chloroform	67-66-3	ND	5	ug/kg	12/11/96
Chloromethane	74-87-3	ND	10	ug/kg	12/11/96
Dibromochloromethane	124-48-1	ND	5	ug/kg	12/11/96
1,1-Dichloroethane	75-43-3	ND	5	ug/kg	12/11/96
1,2-Dichloroethane	107-06-2	ND	5	ug/kg	12/11/96
1,1-Dichloroethene	75-35-4	ND	5	ug/kg	12/11/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/kg	12/11/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/kg	12/11/96
1,2-Dichloropropane	78-87-5	ND	5	ug/kg	12/11/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/kg	12/11/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/kg	12/11/96
Ethylbenzene	100-41-4	ND	5	ug/kg	12/11/96
2-Hexanone	591-78-6	ND	50	ug/kg	12/11/96
Methylene Chloride	75-09-2	ND	20	ug/kg	12/11/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/kg	12/11/96
Styrene	100-42-5	ND	5	ug/kg	12/11/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/kg	12/11/96
Tetrachloroethene	127-18-4	ND	5	ug/kg	12/11/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-13-2.5
AEN LAB NO: 9612094-31
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	5	ug/kg	12/11/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/kg	12/11/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/kg	12/11/96
Trichloroethene	79-01-6	ND	5	ug/kg	12/11/96
Vinyl Acetate	108-05-4	ND	50	ug/kg	12/11/96
Vinyl Chloride	75-01-4	ND	10	ug/kg	12/11/96
Xylenes Total	1330-20-7	ND	10	ug/kg	12/11/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	13000	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	13000	ug/kg	12/13/96
Anthracene	120-12-7	ND	13000	ug/kg	12/13/96
Benzidine	92-87-5	ND	64000	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	64000	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	13000	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	13000	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	13000	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	13000	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	13000	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	26000	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	13000	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	13000	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	13000	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	13000	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	13000	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	13000	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	26000	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	13000	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	13000	ug/kg	12/13/96
Chrysene	218-01-9	ND	13000	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	13000	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	13000	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	13000	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	13000	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	13000	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	13000	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	26000	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	13000	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	13000	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	13000	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	13000	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-13-2.5
AEN LAB NO: 9612094-31
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	13000	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	13000	ug/kg	12/13/96
Fluorene	86-73-7	ND	13000	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	13000	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	13000	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	13000	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	13000	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	13000	ug/kg	12/13/96
Isophorone	78-59-1	ND	13000	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	13000	ug/kg	12/13/96
Naphthalene	91-20-3	ND	13000	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	64000	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	64000	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	64000	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	13000	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	13000	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	13000	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	13000	ug/kg	12/13/96
Pyrene	129-00-0	ND	13000	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	13000	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	13000	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	13000	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	13000	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	13000	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	64000	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	64000	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	13000	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	13000	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	13000	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	64000	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	64000	ug/kg	12/13/96
Phenol	108-95-2	ND	13000	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	13000	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	13000	ug/kg	12/13/96

RLs elevated for EPA 8270 due to high levels of non-target compounds. Sample run dilute.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-13-5.0
AEN LAB NO: 9612094-32
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	12.1		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/09/96
Arsenic	EPA 7060	18 *	0.5	mg/kg	12/11/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/09/96
Lead	EPA 6010	160 *	1	mg/kg	12/10/96
Zinc	EPA 6010	3,200 *	1	mg/kg	12/10/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	100	ug/kg	12/12/96
Benzene	71-43-2	ND	5	ug/kg	12/12/96
Bromodichloromethane	75-27-4	ND	5	ug/kg	12/12/96
Bromoform	75-25-2	ND	5	ug/kg	12/12/96
Bromomethane	74-83-9	ND	10	ug/kg	12/12/96
2-Butanone	78-93-3	ND	100	ug/kg	12/12/96
Carbon Disulfide	75-15-0	ND	10	ug/kg	12/12/96
Carbon Tetrachloride	56-23-5	ND	5	ug/kg	12/12/96
Chlorobenzene	108-90-7	ND	5	ug/kg	12/12/96
Chloroethane	75-00-3	ND	10	ug/kg	12/12/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/kg	12/12/96
Chloroform	67-66-3	ND	5	ug/kg	12/12/96
Chloromethane	74-87-3	ND	10	ug/kg	12/12/96
Dibromochloromethane	124-48-1	ND	5	ug/kg	12/12/96
1,1-Dichloroethane	75-43-3	ND	5	ug/kg	12/12/96
1,2-Dichloroethane	107-06-2	ND	5	ug/kg	12/12/96
1,1-Dichloroethene	75-35-4	ND	5	ug/kg	12/12/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/kg	12/12/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/kg	12/12/96
1,2-Dichloropropane	78-87-5	ND	5	ug/kg	12/12/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/kg	12/12/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/kg	12/12/96
Ethylbenzene	100-41-4	ND	5	ug/kg	12/12/96
2-Hexanone	591-78-6	ND	50	ug/kg	12/12/96
Methylene Chloride	75-09-2	ND	20	ug/kg	12/12/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/kg	12/12/96
Styrene	100-42-5	ND	5	ug/kg	12/12/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/kg	12/12/96
Tetrachloroethene	127-18-4	ND	5	ug/kg	12/12/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-13-5.0
AEN LAB NO: 9612094-32
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	5	ug/kg	12/12/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/kg	12/12/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/kg	12/12/96
Trichloroethene	79-01-6	ND	5	ug/kg	12/12/96
Vinyl Acetate	108-05-4	ND	50	ug/kg	12/12/96
Vinyl Chloride	75-01-4	ND	10	ug/kg	12/12/96
Xylenes Total	1330-20-7	ND	10	ug/kg	12/12/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	3300	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	3300	ug/kg	12/13/96
Anthracene	120-12-7	ND	3300	ug/kg	12/13/96
Benzidine	92-87-5	ND	16000	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	16000	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	3300	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	3300	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	3300	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	3300	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	3300	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	6600	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	3300	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	3300	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	3300	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	3300	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	3300	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	3300	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	6600	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	3300	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	3300	ug/kg	12/13/96
Chrysene	218-01-9	ND	3300	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	3300	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	3300	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	3300	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	3300	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	3300	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	3300	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	6600	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	3300	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	3300	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	3300	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	3300	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-13-5.0
AEN LAB NO: 9612094-32
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	3300	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	3300	ug/kg	12/13/96
Fluorene	86-73-7	ND	3300	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	3300	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	3300	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	3300	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	3300	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	3300	ug/kg	12/13/96
Isophorone	78-59-1	ND	3300	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	3300	ug/kg	12/13/96
Naphthalene	91-20-3	ND	3300	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	16000	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	16000	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	16000	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	3300	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	3300	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	3300	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	3300	ug/kg	12/13/96
Pyrene	129-00-0	ND	3300	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	3300	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	3300	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	3300	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	3300	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	3300	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	16000	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	16000	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	3300	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	3300	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	3300	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	16000	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	16000	ug/kg	12/13/96
Phenol	108-95-2	ND	3300	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	3300	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	3300	ug/kg	12/13/96

RLs elevated for EPA 8270 due to high levels of non-target compounds. Sample run dilute.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-13-7.5
AEN LAB NO: 9612094-33
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	4.3		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/09/96
Arsenic	EPA 7060	13 *	0.5	mg/kg	12/10/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/09/96
Lead	EPA 6010	230 *	1	mg/kg	12/10/96
Zinc	EPA 6010	3,100 *	1	mg/kg	12/10/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	100	ug/kg	12/12/96
Benzene	71-43-2	ND	5	ug/kg	12/12/96
Bromodichloromethane	75-27-4	ND	5	ug/kg	12/12/96
Bromoform	75-25-2	ND	5	ug/kg	12/12/96
Bromomethane	74-83-9	ND	10	ug/kg	12/12/96
2-Butanone	78-93-3	ND	100	ug/kg	12/12/96
Carbon Disulfide	75-15-0	ND	10	ug/kg	12/12/96
Carbon Tetrachloride	56-23-5	ND	5	ug/kg	12/12/96
Chlorobenzene	108-90-7	ND	5	ug/kg	12/12/96
Chloroethane	75-00-3	ND	10	ug/kg	12/12/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/kg	12/12/96
Chloroform	67-66-3	ND	5	ug/kg	12/12/96
Chloromethane	74-87-3	ND	10	ug/kg	12/12/96
Dibromochloromethane	124-48-1	ND	5	ug/kg	12/12/96
1,1-Dichloroethane	75-43-3	ND	5	ug/kg	12/12/96
1,2-Dichloroethane	107-06-2	ND	5	ug/kg	12/12/96
1,1-Dichloroethene	75-35-4	ND	5	ug/kg	12/12/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/kg	12/12/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/kg	12/12/96
1,2-Dichloropropane	78-87-5	ND	5	ug/kg	12/12/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/kg	12/12/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/kg	12/12/96
Ethylbenzene	100-41-4	ND	5	ug/kg	12/12/96
2-Hexanone	591-78-6	ND	50	ug/kg	12/12/96
Methylene Chloride	75-09-2	ND	20	ug/kg	12/12/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/kg	12/12/96
Styrene	100-42-5	ND	5	ug/kg	12/12/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/kg	12/12/96
Tetrachloroethene	127-18-4	ND	5	ug/kg	12/12/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-13-7.5
AEN LAB NO: 9612094-33
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	5	ug/kg	12/12/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/kg	12/12/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/kg	12/12/96
Trichloroethene	79-01-6	ND	5	ug/kg	12/12/96
Vinyl Acetate	108-05-4	ND	50	ug/kg	12/12/96
Vinyl Chloride	75-01-4	ND	10	ug/kg	12/12/96
Xylenes Total	1330-20-7	ND	10	ug/kg	12/12/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/13/96
Anthracene	120-12-7	ND	330	ug/kg	12/13/96
Benzidine	92-87-5	ND	1600	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/13/96
Chrysene	218-01-9	ND	330	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-13-7.5
AEN LAB NO: 9612094-33
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/13/96
Fluorene	86-73-7	ND	330	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/13/96
Isophorone	78-59-1	ND	330	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/13/96
Naphthalene	91-20-3	ND	330	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/13/96
Pyrene	129-00-0	ND	330	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	330	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/13/96
Phenol	108-95-2	ND	330	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/13/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-15-3.5
AEN LAB NO: 9612094-35
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	8.7		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/09/96
Arsenic	EPA 7060	4.4 *	0.5	mg/kg	12/10/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/09/96
Lead	EPA 6010	12 *	1	mg/kg	12/10/96
Zinc	EPA 6010	62 *	1	mg/kg	12/10/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	10000	ug/kg	12/12/96
Benzene	71-43-2	ND	500	ug/kg	12/12/96
Bromodichloromethane	75-27-4	ND	500	ug/kg	12/12/96
Bromoform	75-25-2	ND	500	ug/kg	12/12/96
Bromomethane	74-83-9	ND	1000	ug/kg	12/12/96
2-Butanone	78-93-3	ND	10000	ug/kg	12/12/96
Carbon Disulfide	75-15-0	ND	1000	ug/kg	12/12/96
Carbon Tetrachloride	56-23-5	ND	500	ug/kg	12/12/96
Chlorobenzene	108-90-7	ND	500	ug/kg	12/12/96
Chloroethane	75-00-3	ND	1000	ug/kg	12/12/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	1000	ug/kg	12/12/96
Chloroform	67-66-3	ND	500	ug/kg	12/12/96
Chloromethane	74-87-3	ND	1000	ug/kg	12/12/96
Dibromochloromethane	124-48-1	ND	500	ug/kg	12/12/96
1,1-Dichloroethane	75-43-3	ND	500	ug/kg	12/12/96
1,2-Dichloroethane	107-06-2	ND	500	ug/kg	12/12/96
1,1-Dichloroethene	75-35-4	ND	500	ug/kg	12/12/96
cis-1,2-Dichloroethene	156-59-2	ND	500	ug/kg	12/12/96
trans-1,2-Dichloroethene	156-60-5	ND	500	ug/kg	12/12/96
1,2-Dichloropropane	78-87-5	ND	500	ug/kg	12/12/96
cis-1,3-Dichloropropene	10061-01-5	ND	500	ug/kg	12/12/96
trans-1,3-Dichloropropene	10061-02-6	ND	500	ug/kg	12/12/96
Ethylbenzene	100-41-4	1,400 *	500	ug/kg	12/12/96
2-Hexanone	591-78-6	ND	5000	ug/kg	12/12/96
Methylene Chloride	75-09-2	ND	2000	ug/kg	12/12/96
4-Methyl-2-pentanone	108-10-1	ND	5000	ug/kg	12/12/96
Styrene	100-42-5	ND	500	ug/kg	12/12/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	500	ug/kg	12/12/96
Tetrachloroethene	127-18-4	ND	500	ug/kg	12/12/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-15-3.5
AEN LAB NO: 9612094-35
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	500	ug/kg	12/12/96
1,1,1-Trichloroethane	71-55-6	ND	500	ug/kg	12/12/96
1,1,2-Trichloroethane	79-00-5	ND	500	ug/kg	12/12/96
Trichloroethene	79-01-6	ND	500	ug/kg	12/12/96
Vinyl Acetate	108-05-4	ND	5000	ug/kg	12/12/96
Vinyl Chloride	75-01-4	ND	1000	ug/kg	12/12/96
Xylenes Total	1330-20-7	3,800 *	1000	ug/kg	12/12/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/13/96
Anthracene	120-12-7	ND	330	ug/kg	12/13/96
Benzidine	92-87-5	ND	1600	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/13/96
Chrysene	218-01-9	ND	330	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-15-3.5
AEN LAB NO: 9612094-35
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/13/96
Fluorene	86-73-7	ND	330	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/13/96
Isophorone	78-59-1	ND	330	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/13/96
Naphthalene	91-20-3	ND	330	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/13/96
Pyrene	129-00-0	ND	330	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/13/96
4-Methylphenol	106-44-5	420 *	330	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/13/96
Phenol	108-95-2	ND	330	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/13/96

RLs elevated for EPA 8240 due to high levels of target compounds. Sample run dilute.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-15-5.0
AEN LAB NO: 9612094-36
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	8.8		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/09/96
Arsenic	EPA 7060	3.4 *	0.5	mg/kg	12/10/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/09/96
Lead	EPA 6010	7 *	1	mg/kg	12/10/96
Zinc	EPA 6010	43 *	1	mg/kg	12/10/96
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	100 *	100	ug/kg	12/12/96
Benzene	71-43-2	ND	5	ug/kg	12/12/96
Bromodichloromethane	75-27-4	ND	5	ug/kg	12/12/96
Bromoform	75-25-2	ND	5	ug/kg	12/12/96
Bromomethane	74-83-9	ND	10	ug/kg	12/12/96
2-Butanone	78-93-3	ND	100	ug/kg	12/12/96
Carbon Disulfide	75-15-0	ND	10	ug/kg	12/12/96
Carbon Tetrachloride	56-23-5	ND	5	ug/kg	12/12/96
Chlorobenzene	108-90-7	ND	5	ug/kg	12/12/96
Chloroethane	75-00-3	ND	10	ug/kg	12/12/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/kg	12/12/96
Chloroform	67-66-3	ND	5	ug/kg	12/12/96
Chloromethane	74-87-3	ND	10	ug/kg	12/12/96
Dibromochloromethane	124-48-1	ND	5	ug/kg	12/12/96
1,1-Dichloroethane	75-43-3	ND	5	ug/kg	12/12/96
1,2-Dichloroethane	107-06-2	ND	5	ug/kg	12/12/96
1,1-Dichloroethene	75-35-4	ND	5	ug/kg	12/12/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/kg	12/12/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/kg	12/12/96
1,2-Dichloropropane	78-87-5	ND	5	ug/kg	12/12/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/kg	12/12/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/kg	12/12/96
Ethylbenzene	100-41-4	7 *	5	ug/kg	12/12/96
2-Hexanone	591-78-6	ND	50	ug/kg	12/12/96
Methylene Chloride	75-09-2	ND	20	ug/kg	12/12/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/kg	12/12/96
Styrene	100-42-5	ND	5	ug/kg	12/12/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/kg	12/12/96
Tetrachloroethene	127-18-4	ND	5	ug/kg	12/12/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-15-5.0
AEN LAB NO: 9612094-36
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	5	ug/kg	12/12/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/kg	12/12/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/kg	12/12/96
Trichloroethene	79-01-6	ND	5	ug/kg	12/12/96
Vinyl Acetate	108-05-4	ND	50	ug/kg	12/12/96
Vinyl Chloride	75-01-4	ND	10	ug/kg	12/12/96
Xylenes Total	1330-20-7	ND	10	ug/kg	12/12/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/13/96
Anthracene	120-12-7	ND	330	ug/kg	12/13/96
Benzidine	92-87-5	ND	1600	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/13/96
Chrysene	218-01-9	ND	330	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-15-5.0
AEN LAB NO: 9612094-36
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/13/96
Fluorene	86-73-7	ND	330	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/13/96
Isophorone	78-59-1	ND	330	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/13/96
Naphthalene	91-20-3	ND	330	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/13/96
Pyrene	129-00-0	ND	330	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	330	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/13/96
Phenol	108-95-2	ND	330	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/13/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-15-7.5
AEN LAB NO: 9612094-37
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	6.9		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/09/96
Arsenic	EPA 7060	18 *	0.5	mg/kg	12/11/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/09/96
Lead	EPA 6010	5 *	1	mg/kg	12/10/96
Zinc	EPA 6010	44 *	1	mg/kg	12/10/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	5000	ug/kg	12/13/96
Benzene	71-43-2	ND	300	ug/kg	12/13/96
Bromodichloromethane	75-27-4	ND	300	ug/kg	12/13/96
Bromoform	75-25-2	ND	300	ug/kg	12/13/96
Bromomethane	74-83-9	ND	500	ug/kg	12/13/96
2-Butanone	78-93-3	ND	5000	ug/kg	12/13/96
Carbon Disulfide	75-15-0	ND	500	ug/kg	12/13/96
Carbon Tetrachloride	56-23-5	ND	300	ug/kg	12/13/96
Chlorobenzene	108-90-7	ND	300	ug/kg	12/13/96
Chloroethane	75-00-3	ND	500	ug/kg	12/13/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	500	ug/kg	12/13/96
Chloroform	67-66-3	ND	300	ug/kg	12/13/96
Chloromethane	74-87-3	ND	500	ug/kg	12/13/96
Dibromochloromethane	124-48-1	ND	300	ug/kg	12/13/96
1,1-Dichloroethane	75-43-3	ND	300	ug/kg	12/13/96
1,2-Dichloroethane	107-06-2	ND	300	ug/kg	12/13/96
1,1-Dichloroethene	75-35-4	ND	300	ug/kg	12/13/96
cis-1,2-Dichloroethene	156-59-2	ND	300	ug/kg	12/13/96
trans-1,2-Dichloroethene	156-60-5	ND	300	ug/kg	12/13/96
1,2-Dichloropropane	78-87-5	ND	300	ug/kg	12/13/96
cis-1,3-Dichloropropene	10061-01-5	ND	300	ug/kg	12/13/96
trans-1,3-Dichloropropene	10061-02-6	ND	300	ug/kg	12/13/96
Ethylbenzene	100-41-4	300 *	300	ug/kg	12/13/96
2-Hexanone	591-78-6	ND	3000	ug/kg	12/13/96
Methylene Chloride	75-09-2	ND	1000	ug/kg	12/13/96
4-Methyl-2-pentanone	108-10-1	ND	3000	ug/kg	12/13/96
Styrene	100-42-5	ND	300	ug/kg	12/13/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	300	ug/kg	12/13/96
Tetrachloroethene	127-18-4	ND	300	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-15-7.5
AEN LAB NO: 9612094-37
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	300	ug/kg	12/13/96
1,1,1-Trichloroethane	71-55-6	ND	300	ug/kg	12/13/96
1,1,2-Trichloroethane	79-00-5	ND	300	ug/kg	12/13/96
Trichloroethene	79-01-6	ND	300	ug/kg	12/13/96
Vinyl Acetate	108-05-4	ND	3000	ug/kg	12/13/96
Vinyl Chloride	75-01-4	ND	500	ug/kg	12/13/96
Xylenes Total	1330-20-7	ND	500	ug/kg	12/13/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/13/96
Anthracene	120-12-7	ND	330	ug/kg	12/13/96
Benzidine	92-87-5	ND	1600	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/13/96
Chrysene	218-01-9	ND	330	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-15-7.5
AEN LAB NO: 9612094-37
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/13/96
Fluorene	86-73-7	ND	330	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/13/96
Isophorone	78-59-1	ND	330	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/13/96
Naphthalene	91-20-3	ND	330	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/13/96
Pyrene	129-00-0	ND	330	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	330	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/13/96
Phenol	108-95-2	ND	330	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/13/96

RLs elevated for EPA 8240 due to high levels of target compounds. Sample run dilute.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-1(B)-5.0
AEN LAB NO: 9612094-39
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	11.4		S.U.	12/23/96
Lead	EPA 7420	11 *	3	mg/kg	12/30/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/26/96
Arsenic	EPA 7060	3.8 *	0.5	mg/kg	12/30/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/26/96
Zinc	EPA 6010	59 *	1	mg/kg	12/27/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-1(B)-7.5
AEN LAB NO: 9612094-40
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	10.3		S.U.	12/23/96
Lead	EPA 7420	32 *	3	mg/kg	12/30/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/26/96
Arsenic	EPA 7060	4.6 *	0.5	mg/kg	12/30/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/26/96
Zinc	EPA 6010	910 *	1	mg/kg	12/27/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-6(B)-7.5
AEN LAB NO: 9612094-42
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	11.2		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/09/96
Arsenic	EPA 7060	1.1 *	0.5	mg/kg	12/10/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/09/96
Lead	EPA 6010	8 *	1	mg/kg	12/10/96
Zinc	EPA 6010	39 *	1	mg/kg	12/10/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	100	ug/kg	12/12/96
Benzene	71-43-2	ND	5	ug/kg	12/12/96
Bromodichloromethane	75-27-4	ND	5	ug/kg	12/12/96
Bromoform	75-25-2	ND	5	ug/kg	12/12/96
Bromomethane	74-83-9	ND	10	ug/kg	12/12/96
2-Butanone	78-93-3	ND	100	ug/kg	12/12/96
Carbon Disulfide	75-15-0	ND	10	ug/kg	12/12/96
Carbon Tetrachloride	56-23-5	ND	5	ug/kg	12/12/96
Chlorobenzene	108-90-7	ND	5	ug/kg	12/12/96
Chloroethane	75-00-3	ND	10	ug/kg	12/12/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/kg	12/12/96
Chloroform	67-66-3	ND	5	ug/kg	12/12/96
Chloromethane	74-87-3	ND	10	ug/kg	12/12/96
Dibromochloromethane	124-48-1	ND	5	ug/kg	12/12/96
1,1-Dichloroethane	75-43-3	ND	5	ug/kg	12/12/96
1,2-Dichloroethane	107-06-2	ND	5	ug/kg	12/12/96
1,1-Dichloroethene	75-35-4	ND	5	ug/kg	12/12/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/kg	12/12/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/kg	12/12/96
1,2-Dichloropropane	78-87-5	ND	5	ug/kg	12/12/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/kg	12/12/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/kg	12/12/96
Ethylbenzene	100-41-4	ND	5	ug/kg	12/12/96
2-Hexanone	591-78-6	ND	50	ug/kg	12/12/96
Methylene Chloride	75-09-2	ND	20	ug/kg	12/12/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/kg	12/12/96
Styrene	100-42-5	ND	5	ug/kg	12/12/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/kg	12/12/96
Tetrachloroethene	127-18-4	ND	5	ug/kg	12/12/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-6(B)-7.5
AEN LAB NO: 9612094-42
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	5	ug/kg	12/12/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/kg	12/12/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/kg	12/12/96
Trichloroethene	79-01-6	ND	5	ug/kg	12/12/96
Vinyl Acetate	108-05-4	ND	50	ug/kg	12/12/96
Vinyl Chloride	75-01-4	ND	10	ug/kg	12/12/96
Xylenes Total	1330-20-7	ND	10	ug/kg	12/12/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/13/96
Anthracene	120-12-7	ND	330	ug/kg	12/13/96
Benzidine	92-87-5	ND	1600	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/13/96
Chrysene	218-01-9	ND	330	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-6(B)-7.5
AEN LAB NO: 9612094-42
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/13/96
Fluorene	86-73-7	ND	330	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/13/96
Isophorone	78-59-1	ND	330	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/13/96
Naphthalene	91-20-3	ND	330	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/13/96
Pyrene	129-00-0	ND	330	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	330	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/13/96
Phenol	108-95-2	ND	330	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/13/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-9(B)-5.0
AEN LAB NO: 9612094-44
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	4.7		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/09/96
Arsenic	EPA 7060	3.7 *	0.5	mg/kg	12/10/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/09/96
Lead	EPA 6010	9 *	1	mg/kg	12/10/96
Zinc	EPA 6010	560 *	1	mg/kg	12/10/96
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	ND	50000	ug/kg	12/12/96
Benzene	71-43-2	ND	3000	ug/kg	12/12/96
Bromodichloromethane	75-27-4	ND	3000	ug/kg	12/12/96
Bromoform	75-25-2	ND	3000	ug/kg	12/12/96
Bromomethane	74-83-9	ND	5000	ug/kg	12/12/96
2-Butanone	78-93-3	ND	50000	ug/kg	12/12/96
Carbon Disulfide	75-15-0	ND	5000	ug/kg	12/12/96
Carbon Tetrachloride	56-23-5	ND	3000	ug/kg	12/12/96
Chlorobenzene	108-90-7	ND	3000	ug/kg	12/12/96
Chloroethane	75-00-3	ND	5000	ug/kg	12/12/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	5000	ug/kg	12/12/96
Chloroform	67-66-3	ND	3000	ug/kg	12/12/96
Chloromethane	74-87-3	ND	5000	ug/kg	12/12/96
Dibromochloromethane	124-48-1	ND	3000	ug/kg	12/12/96
1,1-Dichloroethane	75-43-3	ND	3000	ug/kg	12/12/96
1,2-Dichloroethane	107-06-2	ND	3000	ug/kg	12/12/96
1,1-Dichloroethene	75-35-4	ND	3000	ug/kg	12/12/96
cis-1,2-Dichloroethene	156-59-2	ND	3000	ug/kg	12/12/96
trans-1,2-Dichloroethene	156-60-5	ND	3000	ug/kg	12/12/96
1,2-Dichloropropane	78-87-5	ND	3000	ug/kg	12/12/96
cis-1,3-Dichloropropene	10061-01-5	ND	3000	ug/kg	12/12/96
trans-1,3-Dichloropropene	10061-02-6	ND	3000	ug/kg	12/12/96
Ethylbenzene	100-41-4	9,300 *	3000	ug/kg	12/12/96
2-Hexanone	591-78-6	ND	30000	ug/kg	12/12/96
Methylene Chloride	75-09-2	ND	10000	ug/kg	12/12/96
4-Methyl-2-pentanone	108-10-1	ND	30000	ug/kg	12/12/96
Styrene	100-42-5	ND	3000	ug/kg	12/12/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	3000	ug/kg	12/12/96
Tetrachloroethene	127-18-4	ND	3000	ug/kg	12/12/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-9(B)-5.0
AEN LAB NO: 9612094-44
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	37,000 *	3000	ug/kg	12/12/96
1,1,1-Trichloroethane	71-55-6	ND	3000	ug/kg	12/12/96
1,1,2-Trichloroethane	79-00-5	ND	3000	ug/kg	12/12/96
Trichloroethene	79-01-6	ND	3000	ug/kg	12/12/96
Vinyl Acetate	108-05-4	ND	30000	ug/kg	12/12/96
Vinyl Chloride	75-01-4	ND	5000	ug/kg	12/12/96
Xylenes Total	1330-20-7	21,000 *	5000	ug/kg	12/12/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/09/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	33000	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	33000	ug/kg	12/13/96
Anthracene	120-12-7	ND	33000	ug/kg	12/13/96
Benzidine	92-87-5	ND	160000	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	160000	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	33000	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	33000	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	33000	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	33000	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	33000	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	66000	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	33000	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	33000	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	33000	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	33000	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	33000	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	33000	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	66000	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	33000	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	33000	ug/kg	12/13/96
Chrysene	218-01-9	ND	33000	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	33000	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	33000	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	33000	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	33000	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	33000	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	33000	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	66000	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	33000	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	33000	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	33000	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	33000	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-9(B)-5.0
AEN LAB NO: 9612094-44
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	33000	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	33000	ug/kg	12/13/96
Fluorene	86-73-7	ND	33000	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	33000	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	33000	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	33000	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	33000	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	33000	ug/kg	12/13/96
Isophorone	78-59-1	ND	33000	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	33000	ug/kg	12/13/96
Naphthalene	91-20-3	ND	33000	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	160000	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	160000	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	160000	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	33000	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	33000	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	33000	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	33000	ug/kg	12/13/96
Pyrene	129-00-0	ND	33000	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	33000	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	33000	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	33000	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	33000	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	33000	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	160000	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	160000	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	33000	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	33000	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	33000	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	160000	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	160000	ug/kg	12/13/96
Phenol	108-95-2	ND	33000	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	33000	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	33000	ug/kg	12/13/96

RLs elevated for EPA 8270 due to high levels of non-target compounds; RLs elevated for EPA 8240 due to high levels of target compounds. Sample run dilute.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-9(B)-7.5
AEN LAB NO: 9612094-45
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	6.1		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/09/96
Arsenic	EPA 7060	170 *	0.5	mg/kg	12/11/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/09/96
Lead	EPA 6010	4 *	1	mg/kg	12/10/96
Zinc	EPA 6010	140 *	1	mg/kg	12/10/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	200 *	100	ug/kg	12/16/96
Benzene	71-43-2	ND	5	ug/kg	12/16/96
Bromodichloromethane	75-27-4	ND	5	ug/kg	12/16/96
Bromoform	75-25-2	ND	5	ug/kg	12/16/96
Bromomethane	74-83-9	ND	10	ug/kg	12/16/96
2-Butanone	78-93-3	ND	100	ug/kg	12/16/96
Carbon Disulfide	75-15-0	ND	10	ug/kg	12/16/96
Carbon Tetrachloride	56-23-5	ND	5	ug/kg	12/16/96
Chlorobenzene	108-90-7	ND	5	ug/kg	12/16/96
Chloroethane	75-00-3	ND	10	ug/kg	12/16/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/kg	12/16/96
Chloroform	67-66-3	ND	5	ug/kg	12/16/96
Chloromethane	74-87-3	ND	10	ug/kg	12/16/96
Dibromochloromethane	124-48-1	ND	5	ug/kg	12/16/96
1,1-Dichloroethane	75-43-3	ND	5	ug/kg	12/16/96
1,2-Dichloroethane	107-06-2	ND	5	ug/kg	12/16/96
1,1-Dichloroethene	75-35-4	ND	5	ug/kg	12/16/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/kg	12/16/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/kg	12/16/96
1,2-Dichloropropane	78-87-5	ND	5	ug/kg	12/16/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/kg	12/16/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/kg	12/16/96
Ethylbenzene	100-41-4	ND	5	ug/kg	12/16/96
2-Hexanone	591-78-6	ND	50	ug/kg	12/16/96
Methylene Chloride	75-09-2	ND	20	ug/kg	12/16/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/kg	12/16/96
Styrene	100-42-5	ND	5	ug/kg	12/16/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/kg	12/16/96
Tetrachloroethene	127-18-4	ND	5	ug/kg	12/16/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-9(B)-7.5
AEN LAB NO: 9612094-45
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	5 *	5	ug/kg	12/16/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/kg	12/16/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/kg	12/16/96
Trichloroethene	79-01-6	ND	5	ug/kg	12/16/96
Vinyl Acetate	108-05-4	ND	50	ug/kg	12/16/96
Vinyl Chloride	75-01-4	ND	10	ug/kg	12/16/96
Xylenes Total	1330-20-7	ND	10	ug/kg	12/16/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/10/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/13/96
Anthracene	120-12-7	ND	330	ug/kg	12/13/96
Benzidine	92-87-5	ND	1600	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/13/96
Chrysene	218-01-9	ND	330	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-9(B)-7.5
AEN LAB NO: 9612094-45
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/13/96
Fluorene	86-73-7	ND	330	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/13/96
Isophorone	78-59-1	ND	330	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/13/96
Naphthalene	91-20-3	ND	330	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/13/96
Pyrene	129-00-0	ND	330	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	330	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/13/96
Phenol	108-95-2	ND	330	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/13/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-14(B)-3.5
AEN LAB NO: 9612094-46
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	8.3		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/09/96
Arsenic	EPA 7060	4.7 *	0.5	mg/kg	12/11/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/09/96
Lead	EPA 6010	56 *	1	mg/kg	12/10/96
Zinc	EPA 6010	67 *	1	mg/kg	12/10/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	500	ug/kg	12/17/96
Benzene	71-43-2	ND	30	ug/kg	12/17/96
Bromodichloromethane	75-27-4	ND	30	ug/kg	12/17/96
Bromoform	75-25-2	ND	30	ug/kg	12/17/96
Bromomethane	74-83-9	ND	50	ug/kg	12/17/96
2-Butanone	78-93-3	ND	500	ug/kg	12/17/96
Carbon Disulfide	75-15-0	ND	50	ug/kg	12/17/96
Carbon Tetrachloride	56-23-5	ND	30	ug/kg	12/17/96
Chlorobenzene	108-90-7	ND	30	ug/kg	12/17/96
Chloroethane	75-00-3	ND	50	ug/kg	12/17/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	50	ug/kg	12/17/96
Chloroform	67-66-3	ND	30	ug/kg	12/17/96
Chloromethane	74-87-3	ND	50	ug/kg	12/17/96
Dibromochloromethane	124-48-1	ND	30	ug/kg	12/17/96
1,1-Dichloroethane	75-43-3	ND	30	ug/kg	12/17/96
1,2-Dichloroethane	107-06-2	ND	30	ug/kg	12/17/96
1,1-Dichloroethene	75-35-4	ND	30	ug/kg	12/17/96
cis-1,2-Dichloroethene	156-59-2	ND	30	ug/kg	12/17/96
trans-1,2-Dichloroethene	156-60-5	ND	30	ug/kg	12/17/96
1,2-Dichloropropane	78-87-5	ND	30	ug/kg	12/17/96
cis-1,3-Dichloropropene	10061-01-5	ND	30	ug/kg	12/17/96
trans-1,3-Dichloropropene	10061-02-6	ND	30	ug/kg	12/17/96
Ethylbenzene	100-41-4	50 *	30	ug/kg	12/17/96
2-Hexanone	591-78-6	ND	300	ug/kg	12/17/96
Methylene Chloride	75-09-2	ND	100	ug/kg	12/17/96
4-Methyl-2-pentanone	108-10-1	ND	300	ug/kg	12/17/96
Styrene	100-42-5	ND	30	ug/kg	12/17/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	30	ug/kg	12/17/96
Tetrachloroethene	127-18-4	ND	30	ug/kg	12/17/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-14(B)-3.5
AEN LAB NO: 9612094-46
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	30	ug/kg	12/17/96
1,1,1-Trichloroethane	71-55-6	ND	30	ug/kg	12/17/96
1,1,2-Trichloroethane	79-00-5	ND	30	ug/kg	12/17/96
Trichloroethene	79-01-6	ND	30	ug/kg	12/17/96
Vinyl Acetate	108-05-4	ND	300	ug/kg	12/17/96
Vinyl Chloride	75-01-4	ND	50	ug/kg	12/17/96
Xylenes Total	1330-20-7	210 *	50	ug/kg	12/17/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/10/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/13/96
Anthracene	120-12-7	ND	330	ug/kg	12/13/96
Benzidine	92-87-5	ND	1600	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/13/96
Chrysene	218-01-9	ND	330	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-14(B)-3.5
AEN LAB NO: 9612094-46
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/13/96
Fluorene	86-73-7	ND	330	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/13/96
Isophorone	78-59-1	ND	330	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/13/96
Naphthalene	91-20-3	ND	330	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/13/96
Pyrene	129-00-0	ND	330	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	330	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/13/96
Phenol	108-95-2	ND	330	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/13/96

RLs elevated for EPA 8240 due to high levels of non-target compounds. Sample run dilute.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-14(B)-5.0
AEN LAB NO: 9612094-47
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	8.0		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/09/96
Arsenic	EPA 7060	3.5 *	0.5	mg/kg	12/10/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/09/96
Lead	EPA 6010	7 *	1	mg/kg	12/10/96
Zinc	EPA 6010	44 *	1	mg/kg	12/10/96
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	9,200 *	500	ug/kg	12/17/96
Benzene	71-43-2	ND	30	ug/kg	12/17/96
Bromodichloromethane	75-27-4	ND	30	ug/kg	12/17/96
Bromoform	75-25-2	ND	30	ug/kg	12/17/96
Bromomethane	74-83-9	ND	50	ug/kg	12/17/96
2-Butanone	78-93-3	800 *	500	ug/kg	12/17/96
Carbon Disulfide	75-15-0	ND	50	ug/kg	12/17/96
Carbon Tetrachloride	56-23-5	ND	30	ug/kg	12/17/96
Chlorobenzene	108-90-7	ND	30	ug/kg	12/17/96
Chloroethane	75-00-3	ND	50	ug/kg	12/17/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	50	ug/kg	12/17/96
Chloroform	67-66-3	ND	30	ug/kg	12/17/96
Chloromethane	74-87-3	ND	50	ug/kg	12/17/96
Dibromochloromethane	124-48-1	ND	30	ug/kg	12/17/96
1,1-Dichloroethane	75-43-3	ND	30	ug/kg	12/17/96
1,2-Dichloroethane	107-06-2	ND	30	ug/kg	12/17/96
1,1-Dichloroethene	75-35-4	ND	30	ug/kg	12/17/96
cis-1,2-Dichloroethene	156-59-2	ND	30	ug/kg	12/17/96
trans-1,2-Dichloroethene	156-60-5	ND	30	ug/kg	12/17/96
1,2-Dichloropropane	78-87-5	ND	30	ug/kg	12/17/96
cis-1,3-Dichloropropene	10061-01-5	ND	30	ug/kg	12/17/96
trans-1,3-Dichloropropene	10061-02-6	ND	30	ug/kg	12/17/96
Ethylbenzene	100-41-4	ND	30	ug/kg	12/17/96
2-Hexanone	591-78-6	ND	300	ug/kg	12/17/96
Methylene Chloride	75-09-2	ND	100	ug/kg	12/17/96
4-Methyl-2-pentanone	108-10-1	700 *	300	ug/kg	12/17/96
Styrene	100-42-5	ND	30	ug/kg	12/17/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	30	ug/kg	12/17/96
Tetrachloroethene	127-18-4	ND	30	ug/kg	12/17/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-14(B)-5.0
AEN LAB NO: 9612094-47
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	ND	30	ug/kg	12/17/96
1,1,1-Trichloroethane	71-55-6	ND	30	ug/kg	12/17/96
1,1,2-Trichloroethane	79-00-5	ND	30	ug/kg	12/17/96
Trichloroethene	79-01-6	ND	30	ug/kg	12/17/96
Vinyl Acetate	108-05-4	ND	300	ug/kg	12/17/96
Vinyl Chloride	75-01-4	ND	50	ug/kg	12/17/96
Xylenes Total	1330-20-7	130 *	50	ug/kg	12/17/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/10/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	12/13/96
Acenaphthylene	208-96-8	ND	330	ug/kg	12/13/96
Anthracene	120-12-7	ND	330	ug/kg	12/13/96
Benzidine	92-87-5	ND	1600	ug/kg	12/13/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	12/13/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	12/13/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	12/13/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	12/13/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	12/13/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	12/13/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	12/13/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	12/13/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	12/13/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	12/13/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	12/13/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	12/13/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	12/13/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	12/13/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	12/13/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	12/13/96
Chrysene	218-01-9	ND	330	ug/kg	12/13/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	12/13/96
Dibenzofuran	132-64-9	ND	330	ug/kg	12/13/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	12/13/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	12/13/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	12/13/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	12/13/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	12/13/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	12/13/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	12/13/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	12/13/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	12/13/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-14(B)-5.0
AEN LAB NO: 9612094-47
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	12/13/96
Fluoranthene	206-44-0	ND	330	ug/kg	12/13/96
Fluorene	86-73-7	ND	330	ug/kg	12/13/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	12/13/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	12/13/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	12/13/96
Hexachloroethane	67-72-1	ND	330	ug/kg	12/13/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	12/13/96
Isophorone	78-59-1	ND	330	ug/kg	12/13/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	12/13/96
Naphthalene	91-20-3	ND	330	ug/kg	12/13/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	12/13/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	12/13/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	12/13/96
Nitrobenzene	98-95-3	ND	330	ug/kg	12/13/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	12/13/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	12/13/96
Phenanthrene	85-01-8	ND	330	ug/kg	12/13/96
Pyrene	129-00-0	ND	330	ug/kg	12/13/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	12/13/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	12/13/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	12/13/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	12/13/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	12/13/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	12/13/96
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	12/13/96
2-Methylphenol	95-48-7	ND	330	ug/kg	12/13/96
4-Methylphenol	106-44-5	ND	330	ug/kg	12/13/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	12/13/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	12/13/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	12/13/96
Phenol	108-95-2	ND	330	ug/kg	12/13/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	12/13/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	12/13/96

RLs elevated for EPA 8240 due to high levels of target compounds. Sample run dilute.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

LEVINE-FRICKE-RECON

SAMPLE ID: GP-14(B)-7.5
AEN LAB NO: 9612094-48
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Soil pH measured in water	EPA 9045A	5.3		S.U.	12/10/96
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	12/09/96
Arsenic	EPA 7060	17 *	0.5	mg/kg	12/10/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	12/09/96
Lead	EPA 6010	6 *	1	mg/kg	12/10/96
Zinc	EPA 6010	45 *	1	mg/kg	12/10/96
Volatile Organic Compounds	**EPA 8240**				
Acetone	67-64-1	32,000 *	30000	ug/kg	12/17/96
Benzene	71-43-2	ND	1000	ug/kg	12/17/96
Bromodichloromethane	75-27-4	ND	1000	ug/kg	12/17/96
Bromoform	75-25-2	ND	1000	ug/kg	12/17/96
Bromomethane	74-83-9	ND	3000	ug/kg	12/17/96
2-Butanone	78-93-3	ND	30000	ug/kg	12/17/96
Carbon Disulfide	75-15-0	ND	3000	ug/kg	12/17/96
Carbon Tetrachloride	56-23-5	ND	1000	ug/kg	12/17/96
Chlorobenzene	108-90-7	ND	1000	ug/kg	12/17/96
Chloroethane	75-00-3	ND	3000	ug/kg	12/17/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	3000	ug/kg	12/17/96
Chloroform	67-66-3	ND	1000	ug/kg	12/17/96
Chloromethane	74-87-3	ND	3000	ug/kg	12/17/96
Dibromochloromethane	124-48-1	ND	1000	ug/kg	12/17/96
1,1-Dichloroethane	75-43-3	ND	1000	ug/kg	12/17/96
1,2-Dichloroethane	107-06-2	ND	1000	ug/kg	12/17/96
1,1-Dichloroethene	75-35-4	ND	1000	ug/kg	12/17/96
cis-1,2-Dichloroethene	156-59-2	ND	1000	ug/kg	12/17/96
trans-1,2-Dichloroethene	156-60-5	ND	1000	ug/kg	12/17/96
1,2-Dichloropropane	78-87-5	ND	1000	ug/kg	12/17/96
cis-1,3-Dichloropropene	10061-01-5	ND	1000	ug/kg	12/17/96
trans-1,3-Dichloropropene	10061-02-6	ND	1000	ug/kg	12/17/96
Ethylbenzene	100-41-4	11,000 *	1000	ug/kg	12/17/96
2-Hexanone	591-78-6	ND	10000	ug/kg	12/17/96
Methylene Chloride	75-09-2	ND	5000	ug/kg	12/17/96
4-Methyl-2-pentanone	108-10-1	ND	10000	ug/kg	12/17/96
Styrene	100-42-5	ND	1000	ug/kg	12/17/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	1000	ug/kg	12/17/96
Tetrachloroethene	127-18-4	ND	1000	ug/kg	12/17/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-14(B)-7.5
AEN LAB NO: 9612094-48
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Toluene	108-88-3	38,000 *	1000	ug/kg	12/17/96
1,1,1-Trichloroethane	71-55-6	ND	1000	ug/kg	12/17/96
1,1,2-Trichloroethane	79-00-5	ND	1000	ug/kg	12/17/96
Trichloroethene	79-01-6	ND	1000	ug/kg	12/17/96
Vinyl Acetate	108-05-4	ND	10000	ug/kg	12/17/96
Vinyl Chloride	75-01-4	ND	3000	ug/kg	12/17/96
Xylenes Total	1330-20-7	59,000 *	3000	ug/kg	12/17/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	12/10/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	1700	ug/kg	12/14/96
Acenaphthylene	208-96-8	ND	1700	ug/kg	12/14/96
Anthracene	120-12-7	ND	1700	ug/kg	12/14/96
Benzidine	92-87-5	ND	8000	ug/kg	12/14/96
Benzoic Acid	65-85-0	ND	8000	ug/kg	12/14/96
Benzo(a)anthracene	56-55-3	ND	1700	ug/kg	12/14/96
Benzo(b)fluoranthene	205-99-2	ND	1700	ug/kg	12/14/96
Benzo(k)fluoranthene	207-08-9	ND	1700	ug/kg	12/14/96
Benzo(g,h,i)perylene	191-24-2	ND	1700	ug/kg	12/14/96
Benzo(a)pyrene	50-32-8	ND	1700	ug/kg	12/14/96
Benzyl Alcohol	100-51-6	ND	3300	ug/kg	12/14/96
Bis(2-chloroethoxy)methane	111-91-1	ND	1700	ug/kg	12/14/96
Bis(2-choroethyl) Ether	111-44-4	ND	1700	ug/kg	12/14/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	1700	ug/kg	12/14/96
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	1700	ug/kg	12/14/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	1700	ug/kg	12/14/96
Butylbenzyl Phthalate	85-68-7	ND	1700	ug/kg	12/14/96
4-Chloroaniline	106-47-8	ND	3300	ug/kg	12/14/96
2-Chloronaphthalene	91-58-7	ND	1700	ug/kg	12/14/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	1700	ug/kg	12/14/96
Chrysene	218-01-9	ND	1700	ug/kg	12/14/96
Dibenzo(a,h)anthracene	53-70-3	ND	1700	ug/kg	12/14/96
Dibenzofuran	132-64-9	ND	1700	ug/kg	12/14/96
Di-n-butyl Phthalate	84-74-2	ND	1700	ug/kg	12/14/96
1,2-Dichlorobenzene	95-50-1	ND	1700	ug/kg	12/14/96
1,3-Dichlorobenzene	541-73-1	ND	1700	ug/kg	12/14/96
1,4-Dichlorobenzene	106-46-7	ND	1700	ug/kg	12/14/96
3,3'-Dichlorobenzidine	91-94-1	ND	3300	ug/kg	12/14/96
Diethyl Phthalate	84-66-2	ND	1700	ug/kg	12/14/96
Dimethyl Phthalate	131-11-3	ND	1700	ug/kg	12/14/96
2,4-Dinitrotoluene	121-14-2	ND	1700	ug/kg	12/14/96
2,6-Dinitrotoluene	606-20-2	ND	1700	ug/kg	12/14/96

LEVINE-FRICKE-RECON

SAMPLE ID: GP-14(B)-7.5
AEN LAB NO: 9612094-48
AEN WORK ORDER: 9612094
CLIENT PROJ. ID: 3042.95.04

DATE SAMPLED: 12/05/96
DATE RECEIVED: 12/06/96
REPORT DATE: 12/31/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-octyl Phthalate	117-84-0	ND	1700	ug/kg	12/14/96
Fluoranthene	206-44-0	ND	1700	ug/kg	12/14/96
Fluorene	86-73-7	ND	1700	ug/kg	12/14/96
Hexachlorobenzene	118-74-1	ND	1700	ug/kg	12/14/96
Hexachlorobutadiene	87-68-3	ND	1700	ug/kg	12/14/96
Hexachlorocyclopentadiene	77-47-4	ND	1700	ug/kg	12/14/96
Hexachloroethane	67-72-1	ND	1700	ug/kg	12/14/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	1700	ug/kg	12/14/96
Isophorone	78-59-1	ND	1700	ug/kg	12/14/96
2-Methylnaphthalene	91-57-6	ND	1700	ug/kg	12/14/96
Naphthalene	91-20-3	ND	1700	ug/kg	12/14/96
2-Nitroaniline	88-74-4	ND	8000	ug/kg	12/14/96
3-Nitroaniline	99-09-2	ND	8000	ug/kg	12/14/96
4-Nitroaniline	100-01-6	ND	8000	ug/kg	12/14/96
Nitrobenzene	98-95-3	ND	1700	ug/kg	12/14/96
N-Nitrosodiphenylamine	86-30-6	ND	1700	ug/kg	12/14/96
N-Nitrosodi-n-propylamine	621-64-7	ND	1700	ug/kg	12/14/96
Phenanthrene	85-01-8	ND	1700	ug/kg	12/14/96
Pyrene	129-00-0	ND	1700	ug/kg	12/14/96
1,2,4-Trichlorobenzene	120-82-1	ND	1700	ug/kg	12/14/96
4-Chloro-3-methylphenol	59-50-7	ND	1700	ug/kg	12/14/96
2-Chlorophenol	95-57-8	ND	1700	ug/kg	12/14/96
2,4-Dichlorophenol	120-83-2	ND	1700	ug/kg	12/14/96
2,4-Dimethylphenol	105-67-9	ND	1700	ug/kg	12/14/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	8000	ug/kg	12/14/96
2,4-Dinitrophenol	51-28-5	ND	8000	ug/kg	12/14/96
2-Methylphenol	95-48-7	ND	1700	ug/kg	12/14/96
4-Methylphenol	106-44-5	ND	1700	ug/kg	12/14/96
2-Nitrophenol	88-75-5	ND	1700	ug/kg	12/14/96
4-Nitrophenol	100-02-7	ND	8000	ug/kg	12/14/96
Pentachlorophenol	87-86-5	ND	8000	ug/kg	12/14/96
Phenol	108-95-2	ND	1700	ug/kg	12/14/96
2,4,5-Trichlorophenol	95-95-4	ND	1700	ug/kg	12/14/96
2,4,6-Trichlorophenol	88-06-2	ND	1700	ug/kg	12/14/96

RLs elevated for EPA 8270 due to high levels of non-target compounds; RLs elevated for EPA 8240 due to high levels of target compounds. Sample run dilute.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9612094

CLIENT PROJECT ID: 3042.95.04

Quality Control Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9612094
AEN LAB NO: 1210-BLANK
DATE ANALYZED: 12/10/96
INSTRUMENT: 13
MATRIX: SOIL

Method Blank

Analyte	CAS #	Result (ug/kg)	Reporting Limit (ug/kg)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Vinyl Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, Total	1330-20-7	ND	10
1,1,2-Trichloro-trifluoroethane	76-13-1	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9612094
AEN LAB NO: 1211-BLANK
DATE ANALYZED: 12/11/96
INSTRUMENT: 13
MATRIX: SOIL

Method Blank

Analyte	CAS #	Result (ug/kg)	Reporting Limit (ug/kg)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Vinyl Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, Total	1330-20-7	ND	10
1,1,2-Trichloro-trifluoroethane	76-13-1	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9612094
AEN LAB NO: 1212-BLANK
DATE ANALYZED: 12/12/96
INSTRUMENT: 13
MATRIX: SOIL

Method Blank

Analyte	CAS #	Result (ug/kg)	Reporting Limit (ug/kg)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Vinyl Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, Total	1330-20-7	ND	10
1,1,2-Trichloro-trifluoroethane	76-13-1	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9612094
AEN LAB NO: 1216-BLANK
DATE ANALYZED: 12/16/96
INSTRUMENT: 13
MATRIX: SOIL

Method Blank

Analyte	CAS #	Result (ug/kg)	Reporting Limit (ug/kg)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Vinyl Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, Total	1330-20-7	ND	10
1,1,2-Trichloro-trifluoroethane	76-13-1	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9612094
AEN LAB NO: 1217-BLANK
DATE ANALYZED: 12/17/96
INSTRUMENT: 13
MATRIX: SOIL

Method Blank

Analyte	CAS #	Result (ug/kg)	Reporting Limit (ug/kg)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Vinyl Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, Total	1330-20-7	ND	10
1,1,2-Trichloro-trifluoroethane	76-13-1	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9612094
INSTRUMENT: 13
MATRIX: SOIL

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery 1,2-Dichloroethane-d_4	Toluene-d_8	p-Bromofluorobenzene
12/10/96	GP-6-3.5	14	94	95	91
12/10/96	GP-7-2.5	15	106	105	83
12/10/96	GP-7-6.0	16	93	96	92
12/10/96	GP-7-7.0	17	96	93	92
12/10/96	GP-8-2.5	18	109	106	76
12/11/96	GP-8-5.5	19	107	90	83
12/11/96	GP-8-7.5	20	83	106	92
12/11/96	GP-9-2.5	21	92	94	92
12/11/96	GP-10-2.5	22	94	91	91
12/11/96	GP-10-5.5	23	78	89	87
12/11/96	GP-10-7.5	24	72	82	85
12/11/96	GP-11-2.5	25	79	94	76
12/11/96	GP-11-5.0	26	85	82	84
12/11/96	GP-11-7.5	27	91	88	83
12/11/96	GP-12-2.5	28	83	88	87
12/11/96	GP-12-5.0	29	85	88	91
12/11/96	GP-12-7.5	30	89	90	91
12/11/96	GP-13-2.5	31	94	100	83
12/12/96	GP-13-5.0	32	106	92	89
12/12/96	GP-13-7.5	33	86	85	77
12/12/96	GP-15-3.5	35	77	87	82
12/12/96	GP-15-5.0	36	99	96	92
12/13/96	GP-15-7.5	37	74	86	80
12/12/96	GP-6(b)-7.5	42	98	86	85
12/12/96	GP-9(b)-5.0	44	70	86	80
12/16/96	GP-9(b)-7.5	45	92	94	94
12/17/96	GP-14(b)-3.5	46	83	100	95
12/17/96	GP-14(b)-5.0	47	81	99	98
12/17/96	GP-14(b)-7.5	48	81	91	99
QC Limits:			70-121	81-117	74-121

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9612094
DATE ANALYZED: 12/10/96
SAMPLE SPIKED: 9612094-17
INSTRUMENT: 13
MATRIX: SOIL

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/kg)	Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
1,1-Dichloroethene	50	100	12	59-155	25
Trichloroethene	50	114	5	71-157	25
Benzene	50	118	10	37-151	25
Toluene	50	94	5	47-150	25
Chlorobenzene	50	103	2	37-160	25

DATE ANALYZED: 12/11/96
SAMPLE SPIKED: 9612094-29
INSTRUMENT: 13

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/kg)	Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
1,1-Dichloroethene	50	86	5	59-155	25
Trichloroethene	50	116	6	71-157	25
Benzene	50	109	<1	37-151	25
Toluene	50	96	3	47-150	25
Chlorobenzene	50	95	4	37-160	25

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9612094
AEN LAB NO: 1209-BLANK
DATE EXTRACTED: 12/09/96
DATE ANALYZED: 12/12/96
INSTRUMENT: 10
MATRIX: SOIL

Method Blank

Analyte	CAS #	Result (ug/kg)	Reporting Limit (ug/kg)
Acenaphthene	83-32-9	ND	330
Acenaphthylene	208-96-8	ND	330
Anthracene	120-12-7	ND	330
Benzidine	92-87-5	ND	1600
Benzoic Acid	65-85-0	ND	1600
Benzo(a)anthracene	56-55-3	ND	330
Benzo(b)fluoranthene	205-99-2	ND	330
Benzo(k)fluoranthene	207-08-9	ND	330
Benzo(g,h,i)perylene	191-24-2	ND	330
Benzo(a)pyrene	50-32-8	ND	330
Benzyl Alcohol	100-51-6	ND	660
Bis(2-chloroethoxy)methane	111-91-1	ND	330
Bis(2-chloroethyl)ether	111-44-4	ND	330
Bis(2-chloroisopropyl)ether	108-60-1	ND	330
Bis(2-ethylhexyl)phthalate	117-81-7	ND	330
4-Bromophenyl phenyl ether	101-55-3	ND	330
Butylbenzyl phthalate	85-68-7	ND	330
4-Chloroaniline	106-47-8	ND	660
2-Chloronaphthalene	91-58-7	ND	330
4-Chlorophenyl phenylether	7005-72-3	ND	330
Chrysene	218-01-9	ND	330
Dibenzo(a,h)anthracene	53-70-3	ND	330
Dibenzofuran	132-64-9	ND	330
Di-n-butylphthalate	84-74-2	ND	330
1,2-Dichlorobenzene	95-50-1	ND	330
1,3-Dichlorobenzene	541-73-1	ND	330
1,4-Dichlorobenzene	106-46-7	ND	330
3,3'-Dichlorobenzidine	91-94-1	ND	660
Diethylphthalate	84-66-2	ND	330
Dimethylphthalate	131-11-3	ND	330
2,4-Dinitrotoluene	121-14-2	ND	330
2,6-Dinitrotoluene	606-20-2	ND	330
Di-n-octylphthalate	117-84-0	ND	330

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9612094
AEN LAB NO: 1209-BLANK
DATE EXTRACTED: 12/09/96
DATE ANALYZED: 12/12/96
INSTRUMENT: 10
MATRIX: SOIL

Method Blank (Cont.)

Analyte	CAS #	Result (ug/kg)	Reporting Limit (ug/kg)
Fluoranthene	206-44-0	ND	330
Fluorene	86-73-7	ND	330
Hexachlorobenzene	118-74-1	ND	330
Hexachlorobutadiene	87-68-3	ND	330
Hexachlorocyclopentadiene	77-47-4	ND	330
Hexachloroethane	67-72-1	ND	330
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330
Isophorone	78-59-1	ND	330
2-Methylnaphthalene	91-57-6	ND	330
Naphthalene	91-20-3	ND	330
2-Nitroaniline	88-74-4	ND	1600
3-Nitroaniline	99-09-2	ND	1600
4-Nitroaniline	100-01-6	ND	1600
Nitrobenzene	98-95-3	ND	330
N-nitrosodiphenylamine	86-30-6	ND	330
N-nitroso-di-n-propylamine	621-64-7	ND	330
Phenanthrene	85-01-8	ND	330
Pyrene	129-00-0	ND	330
1,2,4-Trichlorobenzene	120-82-1	ND	330
4-Chloro-3-methylphenol	59-50-7	ND	330
2-Chlorophenol	95-57-8	ND	330
2,4-Dichlorophenol	120-83-2	ND	330
2,4-Dimethylphenol	105-67-9	ND	330
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600
2,4-Dinitrophenol	51-28-5	ND	1600
2-Methylphenol	95-48-7	ND	330
4-Methylphenol	106-44-5	ND	330
2-Nitrophenol	88-75-5	ND	330
4-Nitrophenol	100-02-7	ND	1600
Pentachlorophenol	87-86-5	ND	1600
Phenol	108-95-2	ND	330
2,4,5-Trichlorophenol	95-95-4	ND	330
2,4,6-Trichlorophenol	88-06-2	ND	330

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9612094
AEN LAB NO: 1210-BLANK
DATE EXTRACTED: 12/10/96
DATE ANALYZED: 12/13/96
INSTRUMENT: 10
MATRIX: SOIL

Method Blank

Analyte	CAS #	Result (ug/kg)	Reporting Limit (ug/kg)
Acenaphthene	83-32-9	ND	330
Acenaphthylene	208-96-8	ND	330
Anthracene	120-12-7	ND	330
Benzidine	92-87-5	ND	1600
Benzoic Acid	65-85-0	ND	1600
Benzo(a)anthracene	56-55-3	ND	330
Benzo(b)fluoranthene	205-99-2	ND	330
Benzo(k)fluoranthene	207-08-9	ND	330
Benzo(g,h,i)perylene	191-24-2	ND	330
Benzo(a)pyrene	50-32-8	ND	330
Benzyl Alcohol	100-51-6	ND	660
Bis(2-chloroethoxy)methane	111-91-1	ND	330
Bis(2-chloroethyl)ether	111-44-4	ND	330
Bis(2-chloroisopropyl)ether	108-60-1	ND	330
Bis(2-ethylhexyl)phthalate	117-81-7	ND	330
4-Bromophenyl phenyl ether	101-55-3	ND	330
Butylbenzyl phthalate	85-68-7	ND	330
4-Chloroaniline	106-47-8	ND	660
2-Chloronaphthalene	91-58-7	ND	330
4-Chlorophenyl phenylether	7005-72-3	ND	330
Chrysene	218-01-9	ND	330
Dibenzo(a,h)anthracene	53-70-3	ND	330
Dibenzofuran	132-64-9	ND	330
Di-n-butylphthalate	84-74-2	ND	330
1,2-Dichlorobenzene	95-50-1	ND	330
1,3-Dichlorobenzene	541-73-1	ND	330
1,4-Dichlorobenzene	106-46-7	ND	330
3,3'-Dichlorobenzidine	91-94-1	ND	660
Diethylphthalate	84-66-2	ND	330
Dimethylphthalate	131-11-3	ND	330
2,4-Dinitrotoluene	121-14-2	ND	330
2,6-Dinitrotoluene	606-20-2	ND	330
Di-n-octylphthalate	117-84-0	ND	330

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9612094
AEN LAB NO: 1210-BLANK
DATE EXTRACTED: 12/10/96
DATE ANALYZED: 12/13/96
INSTRUMENT: 10
MATRIX: SOIL

Method Blank (Cont.)

Analyte	CAS #	Result (ug/kg)	Reporting Limit (ug/kg)
Fluoranthene	206-44-0	ND	330
Fluorene	86-73-7	ND	330
Hexachlorobenzene	118-74-1	ND	330
Hexachlorobutadiene	87-68-3	ND	330
Hexachlorocyclopentadiene	77-47-4	ND	330
Hexachloroethane	67-72-1	ND	330
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330
Isophorone	78-59-1	ND	330
2-Methylnaphthalene	91-57-6	ND	330
Naphthalene	91-20-3	ND	330
2-Nitroaniline	88-74-4	ND	1600
3-Nitroaniline	99-09-2	ND	1600
4-Nitroaniline	100-01-6	ND	1600
Nitrobenzene	98-95-3	ND	330
N-nitrosodiphenylamine	86-30-6	ND	330
N-nitroso-di-n-propylamine	621-64-7	ND	330
Phenanthrene	85-01-8	ND	330
Pyrene	129-00-0	ND	330
1,2,4-Trichlorobenzene	120-82-1	ND	330
4-Chloro-3-methylphenol	59-50-7	ND	330
2-Chlorophenol	95-57-8	ND	330
2,4-Dichlorophenol	120-83-2	ND	330
2,4-Dimethylphenol	105-67-9	ND	330
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600
2,4-Dinitrophenol	51-28-5	ND	1600
2-Methylphenol	95-48-7	ND	330
4-Methylphenol	106-44-5	ND	330
2-Nitrophenol	88-75-5	ND	330
4-Nitrophenol	100-02-7	ND	1600
Pentachlorophenol	87-86-5	ND	1600
Phenol	108-95-2	ND	330
2,4,5-Trichlorophenol	95-95-4	ND	330
2,4,6-Trichlorophenol	88-06-2	ND	330

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9612094
DATE(S) EXTRACTED: 12/09/96; 12/10/96
INSTRUMENT: 10
MATRIX: SOIL

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery: 2-Fluoro-phenol	Phenol-d_5	Nitro-benzene-d_5	2-Fluoro-biphenyl	2,4,6-Tri-bromophenol	Terphenyl-d_{14}
12/13/96	GP-6-3.5	14	75	85	71	104	54	130
12/12/96	GP-7-2.5	15	64	68	59	96	92	109
12/13/96	GP-7-6.0	16	86	91	75	98	111	122
12/12/96	GP-7-7.0	17	73	75	69	102	102	123
12/12/96	GP-8-2.5	18	66	70	59	89	83	112
12/13/96	GP-8-5.5	19	83	93	75	133	113	97
12/13/96	GP-8-7.5	20	D	D	D	D	D	D
12/11/96	GP-9-2.5	21	D	D	D	D	D	D
12/12/96	GP-10-2.5	22	68	77	62	97	79	113
12/12/96	GP-10-5.5	23	79	81	70	99	101	119
12/14/96	GP-10-7.5	24	73	79	65	96	101	109
12/13/96	GP-11-2.5	25	95	100	89	117	120	130
12/13/96	GP-11-5.0	26	82	90	76	112	122	118
12/13/96	GP-11-7.5	27	90	98	82	116	129	107
12/13/96	GP-12-2.5	28	84	97	94	130	98	135
12/13/96	GP-12-5.0	29	86	88	80	106	107	131
12/13/96	GP-12-7.5	30	58	58	52	75	88	134
12/13/96	GP-13-2.5	31	85	76	70	108	80	114
12/13/96	GP-13-5.0	32	66	67	56	99	84	115
12/13/96	GP-13-7.5	33	78	85	72	105	122	125
12/13/96	GP-15-3.5	35	79	90	71	108	117	127
12/13/96	GP-15-5.0	36	86	87	79	101	113	126
12/13/96	GP-15-7.5	37	82	87	71	107	114	131
12/13/96	GP-6(b)-7.5	42	97	102	84	119	110	130
12/13/96	GP-9(b)-5.0	44	90	81	74	111	78	119
12/13/96	GP-9(b)-7.5	45	57	58	52	86	99	110
12/13/96	GP-14(b)-3.5	46	78	81	69	96	95	114
12/13/96	GP-14(b)-5.0	47	78	80	69	99	97	119
12/14/96	GP-14(b)-7.5	48	68	69	60	87	96	107
QC Limits:			40-108	43-116	35-99	59-137	43-148	71-153

D: Surrogates diluted out.

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9612094
DATE EXTRACTED: 12/09/96
DATE ANALYZED: 01/06/97
SAMPLE SPIKED: LCS
INSTRUMENT: 10
MATRIX: SOIL

Laboratory Control Sample Recovery

Analyte	Spike Added (ug/kg)	Percent Recovery	QC Limits Percent Recovery
Phenol	2940	66	41-125
2-Chlorophenol	2980	93	45-132
1,4-Dichlorobenzene	2970	85	24-126
N-Nitrosodi-n-propylamine	2750	93	60-129
1,2,4-Trichlorobenzene	3290	96	38-123
4-Chloro-3-methylphenol	2960	108	49-145
Acenaphthene	2790	93	50-129
4-Nitrophenol	2960	99	29-139
2,4-Dinitrotoluene	3810	106	53-127
Pentachlorophenol	2770	82	13-171
Pyrene	3580	108	40-130

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9612094
DATE EXTRACTED: 12/10/96
DATE ANALYZED: 12/13/96
SAMPLE SPIKED: LCS
INSTRUMENT: 10
MATRIX: SOIL

Laboratory Control Sample Recovery

Analyte	Spike Added (ug/kg)	Percent Recovery	QC Limits Percent Recovery
Phenol	2940	64	41-125
2-Chlorophenol	2980	75	45-132
1,4-Dichlorobenzene	2970	72	24-126
N-Nitrosodi-n-propylamine	2750	78	60-129
1,2,4-Trichlorobenzene	3290	88	38-123
4-Chloro-3-methylphenol	2960	93	49-145
Acenaphthene	2790	102	50-129
4-Nitrophenol	2960	78	29-139
2,4-Dinitrotoluene	3810	83	53-127
Pentachlorophenol	2770	78	13-171
Pyrene	3580	119	40-130

QUALITY CONTROL DATA

AEN JOB NO: 9612094
SAMPLE SPIKED: SAND
DATE(S) ANALYZED: 12/10-30/96
MATRIX: SOIL

Method Blank and Spike Recovery Summary

Analyte	Inst./ Method	Blank Result (mg/kg)	Spike Added (mg/kg)	Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
As, Arsenic	4000/7060	ND	10	104	4	77-141	15
Pb, Lead	V12/7420	ND	50	108	<1	80-119	11
Zn, Zinc	ICP/6010	ND	50	99	<1	90-115	10

*** END OF REPORT ***

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9612094

Project No.: 3042.95.04	Project Location: Emeryville, Ca.	Date: 12-6-96	Serial No.: Nº 1003
Project Name: Rifkin Property	Field Logbook No.:		
Sampler (Signature): Kenton Lee			Samplers: KAG

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	As, Pb, Zn 6000/7000	VOCs 8240	SVOCs 8270	pH	TCLP As, Pb, Zn, 8240, 8270		HOLD	RUSH	REMARKS
GP-1-2.5	12-5-96		01A	1	Soil	X	X	X	X	a			X	- composite all groups of a's, b's, c's, d's, e's, f's, g's, h's, i's for TCLP analysis.
GP-2-2.5	↓		02A	↓	↓	↓	↓	↓	↓	a			X	
GP-2-5.0			03A							b			X	
GP-2-7.5			04A							c			X	
GP-3-2.5			05A							a			X	- record liquid used for TCLP analysis
GP-3-5.5			06A							b			X	
GP-3-7.5			07A							c			X	
GP-4-2.5			08A							a			X	- store all samples for future analysis
GP-4-5.5			09A							b			X	
GP-4-7.5			10A							c			X	
GP-5-2.5			11A							a			X	- results to: Kenton Lee
GP-5-5.0			12A							b			X	
GP-5-7.5			13A							c			X	
GP-6-3.5			14A							d				Normal TAT 5-day
GP-7-2.5			15A							d				TCLP - 10 day
GP-7-6.0	↓		16A	↓	↓	↓	↓	↓	↓	e				

RELINQUISHED BY: (Signature) Kenton Lee	DATE 12-6-96	TIME 1435	RECEIVED BY: (Signature) Ronald C. Jensen	DATE 12/6/96	TIME 14:35
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector:
LEVINE•FRICKE•RECON
1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500

Analytical Laboratory: AEN TCLP work on AEN 9612102

Shipping Copy (White) Lab Copy (Yellow) File Copy (Pink) Field Copy (Goldenrod)

COC.CDR 101596RYL

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9612094

Project No.: 3042.95.04	Project Location: Emeryville, Ca.	Date: 12-6-96	Serial No.: Nº 1001
Project Name: Rifkin Property	Field Logbook No.:		
Sampler (Signature): Kenton Lee			Samplers: KAC

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	As, Pb, Zn 6000/7000	VOCs 8240	SVOCs 8270	pH	TCLP As, Pb, Zn 8240 8270		HOLD	RUSH	REMARKS
GP-7-7.0	12-5-96		17A	1	Soil	X	X	X	X	#f				
GP-8-2.5			18A							d				
GP-8-5.5			19A							e				
GP-8-7.5			20A							#f				
GP-9-2.5			21A							d				
GP-10-2.5			22A							d				
GP-10-5.5			23A							e				
GP-10-7.5			24A							f				
GP-11-2.5			25A							g				
GP-11-5.0			26A							h				
GP-11-7.5			27A							i				
GP-12-2.5			28A							g				
GP-12-5.0			29A							h				
GP-12-7.5			30A							i				
GP-13-2.5			31A							g				
GP-13-5.0	↓		32A	↓	↓	↓	↓	↓	↓	h				

RELINQUISHED BY: (Signature) Kenton Lee	DATE 12-6-96	TIME 1435	RECEIVED BY: (Signature) Ronald C. Jensen	DATE 12/6/96	TIME 14:35
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector:
LEVINE•FRICKE•RECON
1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500

Analytical Laboratory: AEN

Shipping Copy (White) Lab Copy (Yellow) File Copy (Pink) Field Copy (Goldenrod)

COC CDR 101596RYL

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9612094

Project No.: 3042.95.04	Project Location: Emeryville, Ca.	Date: 12-6-96	Serial No.: № 1002
Project Name: Rifkin Property	Field Logbook No.:		
Sampler (Signature): Kenton Shee			Samplers: KAG

SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	ANALYSES: As, Pb, Zn 6000/7000	VOCs 8240	SVOCs 8270	pH	TCLP As, Pb, Zn, 8340, 8270		HOLD	RUSH	REMARKS
GP-13-7.5	12-5-96		33A	1	Soil	X	X	X	X	i				
GP-14-8.0			34A									X		
GP-19-3.5			35A							g				
GP-15-5.0			36A							h				
GP-15-7.5			37A							i				
GP-1(b)-3.0			38A									X		
GP-1(b)-5.0			39A									X		
GP-1(b)-7.5			40A									X		
GP-6(b)-3.5			41A									X		
GP-6(b)-7.5			42A							f				
GP-9(b)-2.5			43A									X		
GP-9(b)-5.0			44A							e				
GP-9(b)-7.5			45A							f				
GP-14(b)-3.5			46A							g				
GP-14(b)-5.0			47A							h				
GP-14(b)-7.5			48A							i				

RELINQUISHED BY: (Signature) Kenton Shee	DATE 12-6-96	TIME 1435	RECEIVED BY: (Signature) Ronald C. Jensen	DATE 12/6/96	TIME 14:35
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector:
LEVINE•FRICKE•RECON
1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500

Analytical Laboratory: AEN

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COC.CDR 101596RYL

CHROMALAB, INC.

Environmental Services (SDB)

December 23, 1996 *Submission #:* 9612239

AMERICAN ENVIRONMENTAL NETWORK
Atten: Bill Svoboda
Project: I.D.#3042.95.04 *Project#:* P.O.#9612094
Received: December 18, 1996
re: One sample for Volatile Organics by GC/MS analysis.
Method: *SW846 METHOD 8240A Nov 1990*

Client Sample ID: **GP-3-2.5**
Spl#: 111340 *Matrix:* SOIL
Sampled: December 5, 1996 *Run#:* 4618 *Analyzed:* December 19, 1996

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
ACETONE	N.D.	48000	N.D.	--	484
BENZENE	N.D.	2400	N.D.	113	484
BROMODICHLOROMETHANE	N.D.	2400	N.D.	--	484
BROMOFORM	N.D.	2400	N.D.	--	484
BROMOMETHANE	N.D.	4800	N.D.	--	484
METHYL ETHYL KETONE	N.D.	48000	N.D.	--	484
CARBON DISULFIDE	N.D.	4800	N.D.	--	484
CARBON TETRACHLORIDE	N.D.	2400	N.D.	--	484
CHLOROBENZENE	N.D.	2400	N.D.	112	484
CHLOROETHANE	N.D.	4800	N.D.	--	484
2-CHLOROETHYLVINYLETHER	N.D.	4800	N.D.	--	484
CHLOROFORM	N.D.	2400	N.D.	--	484
CHLOROMETHANE	N.D.	4800	N.D.	--	484
DIBROMOCHLOROMETHANE	N.D.	2400	N.D.	--	484
1,1-DICHLOROETHANE	N.D.	2400	N.D.	--	484
1,2-DICHLOROETHANE	N.D.	2400	N.D.	--	484
1,1-DICHLOROETHENE	N.D.	2400	N.D.	105	484
1,2-DICHLOROETHENE (CIS)	N.D.	2400	N.D.	--	484
1,2-DICHLOROETHENE (TRANS)	N.D.	2400	N.D.	--	484
1,2-DICHLOROPROPANE	N.D.	2400	N.D.	--	484
CIS-1,3-DICHLOROPROPENE	N.D.	2400	N.D.	--	484
TRANS-1,3-DICHLOROPROPENE	N.D.	2400	N.D.	--	484
ETHYLBENZENE	N.D.	2400	N.D.	--	484
2-HEXANONE	N.D.	24000	N.D.	--	484
METHYLENE CHLORIDE	N.D.	9700	N.D.	--	484
4-METHYL-2-PENTANONE (MIBK)	N.D.	24000	N.D.	--	484
STYRENE	N.D.	2400	N.D.	--	484
1,1,2,2-TETRACHLOROETHANE	N.D.	2400	N.D.	--	484
TETRACHLOROETHENE	N.D.	2400	N.D.	--	484
TOLUENE	5900	2400	N.D.	111	484
1,1,1-TRICHLOROETHANE	N.D.	2400	N.D.	--	484
1,1,2-TRICHLOROETHANE	N.D.	2400	N.D.	--	484
TRICHLOROETHENE	N.D.	2400	N.D.	106	484
VINYL ACETATE	N.D.	24000	N.D.	--	484
VINYL CHLORIDE	N.D.	4800	N.D.	--	484
TOTAL XYLENES	N.D.	4800	N.D.	--	484

Chip Poalinelli
Operations Manager

Eric Tam
Laboratory Director

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

December 23, 1996 *Submission #:* 9612239

AMERICAN ENVIRONMENTAL NETWORK
Atten: Bill Svoboda
Project: I.D.#3042.95.04 *Project#:* P.O.#9612094
Received: December 18, 1996
re: One sample for Volatile Organics by GC/MS analysis.
Method: *SW846 METHOD 8240A Nov 1990*

Client Sample ID: **GP-3-5.5**
Spl#: 111341 *Matrix:* SOIL
Sampled: December 5, 1996 *Run#:* 4618 *Analyzed:* December 19, 1996

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
ACETONE	N.D.	100000	N.D.	--	1000
BENZENE	N.D.	5000	N.D.	113	1000
BROMODICHLOROMETHANE	N.D.	5000	N.D.	--	1000
BROMOFORM	N.D.	5000	N.D.	--	1000
BROMOMETHANE	N.D.	10000	N.D.	--	1000
METHYL ETHYL KETONE	N.D.	100000	N.D.	--	1000
CARBON DISULFIDE	N.D.	10000	N.D.	--	1000
CARBON TETRACHLORIDE	N.D.	5000	N.D.	--	1000
CHLOROBENZENE	N.D.	5000	N.D.	112	1000
CHLOROETHANE	N.D.	10000	N.D.	--	1000
2-CHLOROETHYLVINYLETHER	N.D.	10000	N.D.	--	1000
CHLOROFORM	N.D.	5000	N.D.	--	1000
CHLOROMETHANE	N.D.	10000	N.D.	--	1000
DIBROMOCHLOROMETHANE	N.D.	5000	N.D.	--	1000
1,1-DICHLOROETHANE	N.D.	5000	N.D.	--	1000
1,2-DICHLOROETHANE	N.D.	5000	N.D.	--	1000
1,1-DICHLOROETHENE	N.D.	5000	N.D.	105	1000
1,2-DICHLOROETHENE (CIS)	N.D.	5000	N.D.	--	1000
1,2-DICHLOROETHENE (TRANS)	N.D.	5000	N.D.	--	1000
1,2-DICHLOROPROPANE	N.D.	5000	N.D.	--	1000
CIS-1,3-DICHLOROPROPENE	N.D.	5000	N.D.	--	1000
TRANS-1,3-DICHLOROPROPENE	N.D.	5000	N.D.	--	1000
ETHYLBENZENE	N.D.	5000	N.D.	--	1000
2-HEXANONE	N.D.	50000	N.D.	--	1000
METHYLENE CHLORIDE	N.D.	20000	N.D.	--	1000
4-METHYL-2-PENTANONE (MIBK)	N.D.	50000	N.D.	--	1000
STYRENE	N.D.	5000	N.D.	--	1000
1,1,2,2-TETRACHLOROETHANE	N.D.	5000	N.D.	--	1000
TETRACHLOROETHENE	N.D.	5000	N.D.	--	1000
TOLUENE	140000	5000	N.D.	111	1000
1,1,1-TRICHLOROETHANE	N.D.	5000	N.D.	--	1000
1,1,2-TRICHLOROETHANE	N.D.	5000	N.D.	--	1000
TRICHLOROETHENE	N.D.	5000	N.D.	106	1000
VINYL ACETATE	N.D.	50000	N.D.	--	1000
VINYL CHLORIDE	N.D.	10000	N.D.	--	1000
TOTAL XYLENES	N.D.	10000	N.D.	--	1000

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CHROMALAB, INC.

Environmental Services (SDB)

December 23, 1996 *Submission #:* 9612239

AMERICAN ENVIRONMENTAL NETWORK
Atten: Bill Svoboda
Project: I.D.#3042.95.04 *Project#:* P.O.#9612094
Received: December 18, 1996
re: One sample for Volatile Organics by GC/MS analysis.
Method: *SW846 METHOD 8240A Nov 1990*

Client Sample ID: **GP-3-7.5**
Spl#: 111342 *Matrix:* SOIL
Sampled: December 5, 1996 *Run#:* 4618 *Analyzed:* December 19, 1996

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
ACETONE	N.D.	49000	N.D.	--	491
BENZENE	N.D.	2400	N.D.	113	491
BROMODICHLOROMETHANE	N.D.	2400	N.D.	--	491
BROMOFORM	N.D.	2400	N.D.	--	491
BROMOMETHANE	N.D.	4900	N.D.	--	491
METHYL ETHYL KETONE	N.D.	49000	N.D.	--	491
CARBON DISULFIDE	N.D.	4900	N.D.	--	491
CARBON TETRACHLORIDE	N.D.	2400	N.D.	--	491
CHLOROBENZENE	N.D.	2400	N.D.	112	491
CHLOROETHANE	N.D.	4900	N.D.	--	491
2-CHLOROETHYLVINYLETHER	N.D.	4900	N.D.	--	491
CHLOROFORM	N.D.	2400	N.D.	--	491
CHLOROMETHANE	N.D.	4900	N.D.	--	491
DIBROMOCHLOROMETHANE	N.D.	2400	N.D.	--	491
1,1-DICHLOROETHANE	N.D.	2400	N.D.	--	491
1,2-DICHLOROETHANE	N.D.	2400	N.D.	--	491
1,1-DICHLOROETHENE	N.D.	2400	N.D.	105	491
1,2-DICHLOROETHENE (CIS)	N.D.	2400	N.D.	--	491
1,2-DICHLOROETHENE (TRANS)	N.D.	2400	N.D.	--	491
1,2-DICHLOROPROPANE	N.D.	2400	N.D.	--	491
CIS-1,3-DICHLOROPROPENE	N.D.	2400	N.D.	--	491
TRANS-1,3-DICHLOROPROPENE	N.D.	2400	N.D.	--	491
ETHYLBENZENE	N.D.	2400	N.D.	--	491
2-HEXANONE	N.D.	24000	N.D.	--	491
METHYLENE CHLORIDE	N.D.	9800	N.D.	--	491
4-METHYL-2-PENTANONE (MIBK)	N.D.	24000	N.D.	--	491
STYRENE	N.D.	2400	N.D.	--	491
1,1,2,2-TETRACHLOROETHANE	N.D.	2400	N.D.	--	491
TETRACHLOROETHENE	N.D.	2400	N.D.	--	491
TOLUENE	3000	2400	N.D.	111	491
1,1,1-TRICHLOROETHANE	N.D.	2400	N.D.	--	491
1,1,2-TRICHLOROETHANE	N.D.	2400	N.D.	--	491
TRICHLOROETHENE	N.D.	2400	N.D.	106	491
VINYL ACETATE	N.D.	24000	N.D.	--	491
VINYL CHLORIDE	N.D.	4900	N.D.	--	491
TOTAL XYLENES	N.D.	4900	N.D.	--	491

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CHROMALAB, INC.

Environmental Services (SDB)

December 23, 1996 *Submission #:* 9612239

AMERICAN ENVIRONMENTAL NETWORK
Atten: Bill Svoboda
Project: I.D.#3042.95.04 *Project#:* P.O.#9612094
Received: December 18, 1996
re: One sample for Volatile Organics by GC/MS analysis.
Method: *SW846 METHOD 8240A Nov 1990*

Client Sample ID: **GP-4-5.5**
Spl#: 111344 *Matrix:* SOIL
Sampled: December 5, 1996 *Run#:* 4618 *Analyzed:* December 19, 1996

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
ACETONE	9600	9500	N.D.	--	94
BENZENE	N.D.	470	N.D.	113	94
BROMODICHLOROMETHANE	N.D.	470	N.D.	--	94
BROMOFORM	N.D.	470	N.D.	--	94
BROMOMETHANE	N.D.	950	N.D.	--	94
METHYL ETHYL KETONE	N.D.	9500	N.D.	--	94
CARBON DISULFIDE	N.D.	950	N.D.	--	94
CARBON TETRACHLORIDE	N.D.	470	N.D.	--	94
CHLOROBENZENE	N.D.	470	N.D.	112	94
CHLOROETHANE	N.D.	950	N.D.	--	94
2-CHLOROETHYLVINYLETHER	N.D.	950	N.D.	--	94
CHLOROFORM	N.D.	470	N.D.	--	94
CHLOROMETHANE	N.D.	950	N.D.	--	94
DIBROMOCHLOROMETHANE	N.D.	470	N.D.	--	94
1,1-DICHLOROETHANE	N.D.	470	N.D.	--	94
1,2-DICHLOROETHANE	N.D.	470	N.D.	--	94
1,1-DICHLOROETHENE	N.D.	470	N.D.	105	94
1,2-DICHLOROETHENE (CIS)	N.D.	470	N.D.	--	94
1,2-DICHLOROETHENE (TRANS)	N.D.	470	N.D.	--	94
1,2-DICHLOROPROPANE	N.D.	470	N.D.	--	94
CIS-1,3-DICHLOROPROPENE	N.D.	470	N.D.	--	94
TRANS-1,3-DICHLOROPROPENE	N.D.	470	N.D.	--	94
ETHYLBENZENE	N.D.	470	N.D.	--	94
2-HEXANONE	N.D.	4700	N.D.	--	94
METHYLENE CHLORIDE	N.D.	1900	N.D.	--	94
4-METHYL-2-PENTANONE (MIBK)	N.D.	4700	N.D.	--	94
STYRENE	N.D.	470	N.D.	--	94
1,1,2,2-TETRACHLOROETHANE	N.D.	470	N.D.	--	94
TETRACHLOROETHENE	N.D.	470	N.D.	--	94
TOLUENE	910	470	N.D.	111	94
1,1,1-TRICHLOROETHANE	N.D.	470	N.D.	--	94
1,1,2-TRICHLOROETHANE	N.D.	470	N.D.	--	94
TRICHLOROETHENE	N.D.	470	N.D.	106	94
VINYL ACETATE	N.D.	4700	N.D.	--	94
VINYL CHLORIDE	N.D.	950	N.D.	--	94
TOTAL XYLENES	N.D.	950	N.D.	--	94

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

December 23, 1996 *Submission #:* 9612239

AMERICAN ENVIRONMENTAL NETWORK
Atten: Bill Svoboda
Project: I.D.#3042.95.04 *Project#:* P.O.#9612094
Received: December 18, 1996
re: One sample for Volatile Organics by GC/MS analysis.
Method: *SW846 METHOD 8240A Nov 1990*

Client Sample ID: **GP-4-2.5**
Spl#: 111343 *Matrix:* SOIL
Sampled: December 5, 1996 *Run#:* 4618 *Analyzed:* December 19, 1996

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
BENZENE	N.D.	470	N.D.	113	94
BROMODICHLOROMETHANE	N.D.	470	N.D.	--	94
BROMOFORM	N.D.	470	N.D.	--	94
BROMOMETHANE	N.D.	940	N.D.	--	94
METHYL ETHYL KETONE	N.D.	9400	N.D.	--	94
CARBON DISULFIDE	N.D.	940	N.D.	--	94
CARBON TETRACHLORIDE	N.D.	470	N.D.	--	94
CHLOROBENZENE	N.D.	470	N.D.	112	94
CHLOROETHANE	N.D.	940	N.D.	--	94
2-CHLOROETHYLVINYLETHER	N.D.	940	N.D.	--	94
CHLOROFORM	N.D.	470	N.D.	--	94
CHLOROMETHANE	N.D.	940	N.D.	--	94
DIBROMOCHLOROMETHANE	N.D.	470	N.D.	--	94
1,1-DICHLOROETHANE	N.D.	470	N.D.	--	94
1,2-DICHLOROETHANE	N.D.	470	N.D.	--	94
1,1-DICHLOROETHENE	N.D.	470	N.D.	105	94
1,2-DICHLOROETHENE (CIS)	N.D.	470	N.D.	--	94
1,2-DICHLOROETHENE (TRANS)	N.D.	470	N.D.	--	94
1,2-DICHLOROPROPANE	N.D.	470	N.D.	--	94
CIS-1,3-DICHLOROPROPENE	N.D.	470	N.D.	--	94
TRANS-1,3-DICHLOROPROPENE	N.D.	470	N.D.	--	94
ETHYLBENZENE	730	470	N.D.	--	94
2-HEXANONE	N.D.	4700	N.D.	--	94
METHYLENE CHLORIDE	N.D.	1900	N.D.	--	94
4-METHYL-2-PENTANONE (MIBK)	8200	4700	N.D.	--	94
STYRENE	N.D.	470	N.D.	--	94
1,1,2,2-TETRACHLOROETHANE	N.D.	470	N.D.	--	94
TETRACHLOROETHENE	N.D.	470	N.D.	--	94
TOLUENE	14000	470	N.D.	111	94
1,1,1-TRICHLOROETHANE	N.D.	470	N.D.	--	94
1,1,2-TRICHLOROETHANE	N.D.	470	N.D.	--	94
TRICHLOROETHENE	N.D.	470	N.D.	106	94
VINYL ACETATE	N.D.	4700	N.D.	--	94
VINYL CHLORIDE	N.D.	940	N.D.	--	94
TOTAL XYLENES	4300	940	N.D.	--	94
ACETONE	N.D.	47000	N.D.	--	472

Chip Poalinelli
Operations Manager

Eric Tam
Laboratory Director

CHROMALAB, INC.

Environmental Services (SDB)

December 23, 1996 *Submission #:* 9612239

AMERICAN ENVIRONMENTAL NETWORK
Atten: Bill Svoboda
Project: I.D.#3042.95.04 *Project#:* P.O.#9612094
Received: December 18, 1996
re: One sample for Volatile Organics by GC/MS analysis.
Method: *SW846 METHOD 8240A Nov 1990*

Client Sample ID: **GP-4-7.5**
Spl#: 111345 *Matrix:* SOIL
Sampled: December 5, 1996 *Run#:* 4618 *Analyzed:* December 19, 1996

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
BENZENE	N.D.	490	N.D.	113	98
BROMODICHLOROMETHANE	N.D.	490	N.D.	--	98
BROMOFORM	N.D.	490	N.D.	--	98
BROMOMETHANE	N.D.	980	N.D.	--	98
METHYL ETHYL KETONE	N.D.	9800	N.D.	--	98
CARBON DISULFIDE	N.D.	980	N.D.	--	98
CARBON TETRACHLORIDE	N.D.	490	N.D.	--	98
CHLOROBENZENE	N.D.	490	N.D.	112	98
CHLOROETHANE	N.D.	980	N.D.	--	98
2-CHLOROETHYLVINYLETHER	N.D.	980	N.D.	--	98
CHLOROFORM	N.D.	490	N.D.	--	98
CHLOROMETHANE	N.D.	980	N.D.	--	98
DIBROMOCHLOROMETHANE	N.D.	490	N.D.	--	98
1,1-DICHLOROETHANE	N.D.	490	N.D.	--	98
1,2-DICHLOROETHANE	N.D.	490	N.D.	--	98
1,1-DICHLOROETHENE	N.D.	490	N.D.	105	98
1,2-DICHLOROETHENE (CIS)	N.D.	490	N.D.	--	98
1,2-DICHLOROETHENE (TRANS)	N.D.	490	N.D.	--	98
1,2-DICHLOROPROPANE	N.D.	490	N.D.	--	98
CIS-1,3-DICHLOROPROPENE	N.D.	490	N.D.	--	98
TRANS-1,3-DICHLOROPROPENE	N.D.	490	N.D.	--	98
ETHYLBENZENE	N.D.	490	N.D.	--	98
2-HEXANONE	N.D.	4900	N.D.	--	98
METHYLENE CHLORIDE	N.D.	2000	N.D.	--	98
4-METHYL-2-PENTANONE (MIBK)	N.D.	4900	N.D.	--	98
STYRENE	N.D.	490	N.D.	--	98
1,1,2,2-TETRACHLOROETHANE	N.D.	490	N.D.	--	98
TETRACHLOROETHENE	N.D.	490	N.D.	--	98
TOLUENE	1100	490	N.D.	111	98
1,1,1-TRICHLOROETHANE	N.D.	490	N.D.	--	98
1,1,2-TRICHLOROETHANE	N.D.	490	N.D.	--	98
TRICHLOROETHENE	N.D.	490	N.D.	106	98
VINYL ACETATE	N.D.	4900	N.D.	--	98
VINYL CHLORIDE	N.D.	980	N.D.	--	98
TOTAL XYLENES	N.D.	980	N.D.	--	98
ACETONE	N.D.	49000	N.D.	--	492

Chip Poalinelli
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Eric Tam
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CHROMALAB, INC.

Environmental Services (SDB)

December 23, 1996 *Submission #:* 9612239

AMERICAN ENVIRONMENTAL NETWORK
Atten: Bill Svoboda
Project: I.D.#3042.95.04 *Project#:* P.O.#9612094
Received: December 18, 1996
re: One sample for Volatile Organics by GC/MS analysis.
Method: *SW846 METHOD 8240A Nov 1990*

Client Sample ID: **GP-5-2.5**
Spl#: 111346 *Matrix:* SOIL
Sampled: December 5, 1996 *Run#:* 4618 *Analyzed:* December 19, 1996

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
ACETONE	N.D.	9600	N.D.	--	96
BENZENE	N.D.	480	N.D.	113	96
BROMODICHLOROMETHANE	N.D.	480	N.D.	--	96
BROMOFORM	N.D.	480	N.D.	--	96
BROMOMETHANE	N.D.	960	N.D.	--	96
METHYL ETHYL KETONE	N.D.	9600	N.D.	--	96
CARBON DISULFIDE	N.D.	960	N.D.	--	96
CARBON TETRACHLORIDE	N.D.	480	N.D.	--	96
CHLOROBENZENE	N.D.	480	N.D.	112	96
CHLOROETHANE	N.D.	960	N.D.	--	96
2-CHLOROETHYLVINYLETHER	N.D.	960	N.D.	--	96
CHLOROFORM	N.D.	480	N.D.	--	96
CHLOROMETHANE	N.D.	960	N.D.	--	96
DIBROMOCHLOROMETHANE	N.D.	480	N.D.	--	96
1,1-DICHLOROETHANE	N.D.	480	N.D.	--	96
1,2-DICHLOROETHANE	N.D.	480	N.D.	--	96
1,1-DICHLOROETHENE	N.D.	480	N.D.	105	96
1,2-DICHLOROETHENE (CIS)	N.D.	480	N.D.	--	96
1,2-DICHLOROETHENE (TRANS)	N.D.	480	N.D.	--	96
1,2-DICHLOROPROPANE	N.D.	480	N.D.	--	96
CIS-1,3-DICHLOROPROPENE	N.D.	480	N.D.	--	96
TRANS-1,3-DICHLOROPROPENE	N.D.	480	N.D.	--	96
ETHYLBENZENE	N.D.	480	N.D.	--	96
2-HEXANONE	N.D.	4800	N.D.	--	96
METHYLENE CHLORIDE	N.D.	1900	N.D.	--	96
4-METHYL-2-PENTANONE (MIBK)	N.D.	4800	N.D.	--	96
STYRENE	N.D.	480	N.D.	--	96
1,1,2,2-TETRACHLOROETHANE	N.D.	480	N.D.	--	96
TETRACHLOROETHENE	N.D.	480	N.D.	--	96
TOLUENE	N.D.	480	N.D.	111	96
1,1,1-TRICHLOROETHANE	N.D.	480	N.D.	--	96
1,1,2-TRICHLOROETHANE	N.D.	480	N.D.	--	96
TRICHLOROETHENE	N.D.	480	N.D.	106	96
VINYL ACETATE	N.D.	4800	N.D.	--	96
VINYL CHLORIDE	N.D.	960	N.D.	--	96
TOTAL XYLENES	1200	960	N.D.	--	96

Chip Poalinelli
Operations Manager

Eric Tam
Laboratory Director

CHROMALAB, INC.

Environmental Services (SDB)

December 23, 1996 *Submission #:* 9612239

AMERICAN ENVIRONMENTAL NETWORK
Atten: Bill Svoboda
Project: I.D.#3042.95.04 *Project#:* P.O.#9612094
Received: December 18, 1996
re: One sample for Volatile Organics by GC/MS analysis.
Method: *SW846 METHOD 8240A Nov 1990*

Client Sample ID: **GP-5-5.0**
Spl#: 111347 *Matrix:* SOIL
Sampled: December 5, 1996 *Run#:* 4618 *Analyzed:* December 19, 1996

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
ACETONE	N.D.	4700	N.D.	--	47
BENZENE	N.D.	240	N.D.	113	47
BROMODICHLOROMETHANE	N.D.	240	N.D.	--	47
BROMOFORM	N.D.	240	N.D.	--	47
BROMOMETHANE	N.D.	470	N.D.	--	47
METHYL ETHYL KETONE	N.D.	4700	N.D.	--	47
CARBON DISULFIDE	N.D.	470	N.D.	--	47
CARBON TETRACHLORIDE	N.D.	240	N.D.	--	47
CHLOROBENZENE	N.D.	240	N.D.	112	47
CHLOROETHANE	N.D.	470	N.D.	--	47
2-CHLOROETHYLVINYLETHER	N.D.	470	N.D.	--	47
CHLOROFORM	N.D.	240	N.D.	--	47
CHLOROMETHANE	N.D.	470	N.D.	--	47
DIBROMOCHLOROMETHANE	N.D.	240	N.D.	--	47
1,1-DICHLOROETHANE	N.D.	240	N.D.	--	47
1,2-DICHLOROETHANE	N.D.	240	N.D.	--	47
1,1-DICHLOROETHENE	N.D.	240	N.D.	105	47
1,2-DICHLOROETHENE (CIS)	N.D.	240	N.D.	--	47
1,2-DICHLOROETHENE (TRANS)	N.D.	240	N.D.	--	47
1,2-DICHLOROPROPANE	N.D.	240	N.D.	--	47
CIS-1,3-DICHLOROPROPENE	N.D.	240	N.D.	--	47
TRANS-1,3-DICHLOROPROPENE	N.D.	240	N.D.	--	47
ETHYLBENZENE	N.D.	240	N.D.	--	47
2-HEXANONE	N.D.	2400	N.D.	--	47
METHYLENE CHLORIDE	N.D.	950	N.D.	--	47
4-METHYL-2-PENTANONE (MIBK)	N.D.	2400	N.D.	--	47
STYRENE	N.D.	240	N.D.	--	47
1,1,2,2-TETRACHLOROETHANE	N.D.	240	N.D.	--	47
TETRACHLOROETHENE	N.D.	240	N.D.	--	47
TOLUENE	N.D.	240	N.D.	111	47
1,1,1-TRICHLOROETHANE	N.D.	240	N.D.	--	47
1,1,2-TRICHLOROETHANE	N.D.	240	N.D.	--	47
TRICHLOROETHENE	N.D.	240	N.D.	106	47
VINYL ACETATE	N.D.	2400	N.D.	--	47
VINYL CHLORIDE	N.D.	470	N.D.	--	47
TOTAL XYLENES	610	470	N.D.	--	47

Chip Poalinelli
Operations Manager

Eric Tam
Laboratory Director

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(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

December 23, 1996 *Submission #:* 9612239

AMERICAN ENVIRONMENTAL NETWORK
Atten: Bill Svoboda
Project: I.D.#3042.95.04 *Project#:* P.O.#9612094
Received: December 18, 1996
re: One sample for Volatile Organics by GC/MS analysis.
Method: *SW846 METHOD 8240A Nov 1990*

Client Sample ID: **GP-5-7.5**
Spl#: 111348 *Matrix:* SOIL
Sampled: December 5, 1996 *Run#:* 4618 *Analyzed:* December 19, 1996

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
ACETONE	N.D.	4500	N.D.	--	45
BENZENE	N.D.	230	N.D.	113	45
BROMODICHLOROMETHANE	N.D.	230	N.D.	--	45
BROMOFORM	N.D.	230	N.D.	--	45
BROMOMETHANE	N.D.	450	N.D.	--	45
METHYL ETHYL KETONE	N.D.	4500	N.D.	--	45
CARBON DISULFIDE	N.D.	450	N.D.	--	45
CARBON TETRACHLORIDE	N.D.	230	N.D.	--	45
CHLOROBENZENE	N.D.	230	N.D.	112	45
CHLOROETHANE	N.D.	450	N.D.	--	45
2-CHLOROETHYLVINYLETHER	N.D.	450	N.D.	--	45
CHLOROFORM	N.D.	230	N.D.	--	45
CHLOROMETHANE	N.D.	450	N.D.	--	45
DIBROMOCHLOROMETHANE	N.D.	230	N.D.	--	45
1,1-DICHLOROETHANE	N.D.	230	N.D.	--	45
1,2-DICHLOROETHANE	N.D.	230	N.D.	--	45
1,1-DICHLOROETHENE	N.D.	230	N.D.	105	45
1,2-DICHLOROETHENE (CIS)	N.D.	230	N.D.	--	45
1,2-DICHLOROETHENE (TRANS)	N.D.	230	N.D.	--	45
1,2-DICHLOROPROPANE	N.D.	230	N.D.	--	45
CIS-1,3-DICHLOROPROPENE	N.D.	230	N.D.	--	45
TRANS-1,3-DICHLOROPROPENE	N.D.	230	N.D.	--	45
ETHYLBENZENE	N.D.	230	N.D.	--	45
2-HEXANONE	N.D.	2300	N.D.	--	45
METHYLENE CHLORIDE	N.D.	910	N.D.	--	45
4-METHYL-2-PENTANONE (MIBK)	N.D.	2300	N.D.	--	45
STYRENE	N.D.	230	N.D.	--	45
1,1,2,2-TETRACHLOROETHANE	N.D.	230	N.D.	--	45
TETRACHLOROETHENE	N.D.	230	N.D.	--	45
TOLUENE	N.D.	230	N.D.	111	45
1,1,1-TRICHLOROETHANE	N.D.	230	N.D.	--	45
1,1,2-TRICHLOROETHANE	N.D.	230	N.D.	--	45
TRICHLOROETHENE	N.D.	230	N.D.	106	45
VINYL ACETATE	N.D.	2300	N.D.	--	45
VINYL CHLORIDE	N.D.	450	N.D.	--	45
TOTAL XYLENES	580	450	N.D.	--	45

Chip Poalinelli
Operations Manager

Eric Tam
Laboratory Director

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

December 23, 1996 *Submission #:* 9612239

AMERICAN ENVIRONMENTAL NETWORK

Atten: Bill Svoboda

Project: I.D.#3042.95.04 *Project#:* P.O.#9612094
Received: December 18, 1996

re: **Blank spike and duplicate** report for Volatile Organics by GC/MS analys

Method: SW846 METHOD 8240A Nov 1990

Matrix: SOIL
Lab Run#: 4618 *Analyzed:* December 19, 1996

Analyte	Spike Amount BSP (ug/Kg)	Spike Amount Dup (ug/Kg)	Found BSP (ug/Kg)	Found Dup (ug/Kg)	Spike Recov BSP (%)	Spike Recov Dup (%)	Control Limits	% RPD	% RPD Lim
BENZENE	100	100	113	110	113	110	69-129	2.69	20
CHLOROBENZENE	100	100	112	111	112	111	61-121	0.89	20
1,1-DICHLOROETHENE	100	100	105	100	105	100	65-125	4.88	20
TOLUENE	100	100	111	105	111	105	70-130	5.56	20
TRICHLOROETHENE	100	100	106	98.2	106	98.2	74-134	7.64	20

BS Smpl #: 111978
BSD Smpl #: 111980

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

December 23, 1996 *Submission #:* 9612239

AMERICAN ENVIRONMENTAL NETWORK

Atten: Bill Svoboda

Project: I.D.#3042.95.04 *Project#:* P.O.#9612094
Received: December 18, 1996

re: **Surrogate** report for 9 samples for Volatile Organics by GC/MS
Method: SW846 METHOD 8240A Nov 1990
Lab Run#: 4618
Matrix: SOIL

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
111340-1	GP-3-2.5	4-BROMOFLUOROBENZENE	99.7	74-121
111340-1	GP-3-2.5	D4-1,2-DICHLOROETHANE	105	70-121
111340-1	GP-3-2.5	D8-TOLUENE	98.1	81-117
111341-1	GP-3-5.5	4-BROMOFLUOROBENZENE	93.8	74-121
111341-1	GP-3-5.5	D4-1,2-DICHLOROETHANE	80.8	70-121
111341-1	GP-3-5.5	D8-TOLUENE	97.9	81-117
111342-1	GP-3-7.5	4-BROMOFLUOROBENZENE	102	74-121
111342-1	GP-3-7.5	D4-1,2-DICHLOROETHANE	99.4	70-121
111342-1	GP-3-7.5	D8-TOLUENE	100	81-117
111343-1	GP-4-2.5	4-BROMOFLUOROBENZENE	99.2	74-121
111343-1	GP-4-2.5	D4-1,2-DICHLOROETHANE	92.5	70-121
111343-1	GP-4-2.5	D8-TOLUENE	97.1	81-117
111343-2	GP-4-2.5	4-BROMOFLUOROBENZENE	91.7	74-121
111343-2	GP-4-2.5	D4-1,2-DICHLOROETHANE	89.5	70-121
111343-2	GP-4-2.5	D8-TOLUENE	95.7	81-117
111344-1	GP-4-5.5	4-BROMOFLUOROBENZENE	104	74-121
111344-1	GP-4-5.5	D4-1,2-DICHLOROETHANE	92.2	70-121
111344-1	GP-4-5.5	D8-TOLUENE	94.6	81-117
111345-1	GP-4-7.5	4-BROMOFLUOROBENZENE	101	74-121
111345-1	GP-4-7.5	D4-1,2-DICHLOROETHANE	94.3	70-121
111345-1	GP-4-7.5	D8-TOLUENE	103	81-117
111345-2	GP-4-7.5	4-BROMOFLUOROBENZENE	101	74-121
111345-2	GP-4-7.5	D4-1,2-DICHLOROETHANE	106	70-121
111345-2	GP-4-7.5	D8-TOLUENE	104	81-117
111346-1	GP-5-2.5	4-BROMOFLUOROBENZENE	97.3	74-121
111346-1	GP-5-2.5	D4-1,2-DICHLOROETHANE	96.4	70-121
111346-1	GP-5-2.5	D8-TOLUENE	100	81-117
111347-1	GP-5-5.0	4-BROMOFLUOROBENZENE	103	74-121
111347-1	GP-5-5.0	D4-1,2-DICHLOROETHANE	89.5	70-121
111347-1	GP-5-5.0	D8-TOLUENE	99.0	81-117

V056
QCSURR1229 CHIP 23-Dec-96 16:31

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

December 23, 1996

Submission #: 9612239

AMERICAN ENVIRONMENTAL NETWORK

Atten: Bill Svoboda

Project: I.D.#3042.95.04 *Project#:* P.O.#9612094
Received: December 18, 1996

re: **Surrogate** report for 9 samples for Volatile Organics by GC/MS
Method: SW846 METHOD 8240A Nov 1990
Lab Run#: 4618

111348-1	GP-5-7.5	4-BROMOFLUOROBENZENE	97.3	74-121
111348-1	GP-5-7.5	D4-1,2-DICHLOROETHANE	89.8	70-121
111348-1	GP-5-7.5	D8-TOLUENE	97.4	81-117

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
111976-1	*Reagent blank (MDB)*	4-BROMOFLUOROBENZENE	92.5	74-121
111976-1	*Reagent blank (MDB)*	D4-1,2-DICHLOROETHANE	92.4	70-121
111976-1	*Reagent blank (MDB)*	D8-TOLUENE	97.7	81-117
111978-1	*Spiked blank (BSP)*	4-BROMOFLUOROBENZENE	96.7	74-121
111978-1	*Spiked blank (BSP)*	D4-1,2-DICHLOROETHANE	80.6	70-121
111978-1	*Spiked blank (BSP)*	D8-TOLUENE	102	81-117
111980-1	*Spiked blank duplicate (BSD)*	4-BROMOFLUOROBENZENE	95.6	74-121
111980-1	*Spiked blank duplicate (BSD)*	D4-1,2-DICHLOROETHANE	100	70-121
111980-1	*Spiked blank duplicate (BSD)*	D8-TOLUENE	95.6	81-117

V056
QCSURR1229 CHIP 23-Dec-96 16:31

1220 Quarry Lane • Pleasanton, California 94566-4756
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[redacted]ting [redacted]ation: [redacted]39 [redacted]134 [redacted]18 [redacted] [redacted] [redacted] [redacted] [redacted] AEN [redacted] 31263 [redacted] Page 1 of 1 [redacted]

American Environmental Network
3440 Vincent Road, Pleasant Hill, CA 94523
Phone (510) 930-9090
FAX (510) 930-0256

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

1. Client: AEN
Address:
Contact: BILL SVOBODA
Alt. Contact: ROBIN BYARS

Lab Job Number:
Lab Destination: CHROMALAB, INC PLEASANTON
Date Samples Shipped: 12/18/96
Lab Contact:
Date Results Required: 12/20/96
Date Report Required: 12/20/96
Client Phone No.:
Client FAX No.:

Address Report To:
2. #1

Send Invoice To:
3. #1

Send Report To: (1) or 2 (Circle one)

Client P.O. No.: 9612094 Client Project I.D. No.: 3042.95.04

Sample Team Member (s)

ANALYSIS

SUBM #: 9612239 REP: SS
CLIENT: AEN
DUE: ~~(12/19/96)~~ 12/23/96 due Monday per Chip conversation to the client
REF #: 31263

Lab Number	Client Sample Identification	Air Volume	Date/ Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	8240	Comments / Hazards
	GP-3-2.5	—	12/05/96	8	COLD	1	JAR	X	PLEASE FAX RESULTS AS SOON AS AVAILABLE. INCLUDE P.O.# AND PROJECT I.D. # ON BOTH REPORT AND INVOICE.
	GP-3-5.5							X	
	GP-3-7.5							X	
	GP-4-2.5							X	
	GP-4-5.5							X	
	GP-4-7.5							X	
	GP-5-2.5							X	
	GP-5-5.0							X	
	GP-5-7.5							X	
	* RUN SAMPLES WITHIN HOLD TIME *								

RUSH

Relinquished by: (Signature) Lynn Gillespie	DATE 12-18-96	TIME 1400	Received by: (Signature) Surinder Sidhu DATE 12/18/96 TIME 14:00
Relinquished by: (Signature) Surinder Sidhu	DATE 12/18/96	TIME 1500	Received by: (Signature) DATE TIME
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature) Chris Rowley DATE 12/18/96 TIME 1506
Method of Shipment			Lab Comments

*Sample type (Specify): 1) 37mm 0.8 µm MCEF 2) 25mm 0.8 µm MCEF 3) 25mm 0.4 µm polycarb. filter
4) PVC filter, diam. ____ pore size ____ 5) Charcoal tube 6) Silica gel tube 7) Water (8) Soil 9) Bulk Sample
10) Other ____ 11) Other ____

COPIES: WHITE - JOB FILE YELLOW - PROJECT FILE PINK - CLIENT

CHROMALAB, INC.
SAMPLE RECEIPT CHECKLIST

Client Name AEN

Project 9612094

Reference/Subm # 31263/9612239

Checklist completed by: [signature] 12/19/96
Signature / Date

Date/Time Received 12/18/96 1400
Date Time

Received by Sunnolen S.

Carrier name

Logged in by MP 12/18/96
Initials / Date

Matrix Soil

Shipping container in good condition?			NA___	Yes✓ No___
Custody seals present on shipping container?	Intact___	Broken___	Yes___	No✓
Custody seals on sample bottles?	Intact___	Broken___	Yes___	No✓
Chain of custody present?			Yes✓	No___
Chain of custody signed when relinquished and received?			Yes✓	No___
Chain of custody agrees with sample labels?			Yes✓	No___
Samples in proper container/bottle?			Yes✓	No___
Samples intact?			Yes✓	No___
Sufficient sample volume for indicated test?			Yes✓	No___
VOA vials have zero headspace?			NA✓	Yes___ No___
Trip Blank received?			NA✓	Yes___ No___
All samples received within holding time?				Yes✓ No___

Container temperature? 6.1°C

pH upon receipt _____ pH adjusted _____ Check performed by: _____ NA✓

Any NO response must be detailed in the comments section below. If items are not applicable, they should be marked NA.

Client contacted? _____ Date contacted? _____

Person contacted? _____ Contacted by? _____

Regarding? _____

Comments: _____

Corrective Action: _____

SMPLRECD.CK

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9612094

Project No.: 3042.95.04	Project Location: Emeryville, Ca.	Date: 12-6-96	Serial No.: № 1003
Project Name: Rifkin Property	Field Logbook No.:		
Sampler (Signature): Kantan Jeer			Samplers: KAG

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	As, Pb, Zn 6000/17000	VOCs 8240	SVOCs 8270	pH	TCLP As, Ba, Zn, 1311, 8270		HOLD	RUSH	REMARKS
GP-1-2.5	12-5-96		01A	1	soil	X	X	X	X	a		X		- composite all groups of a's, b's, c's, d's, e's, f's, g's, h's, i's for TCLP analysis.
GP-2-2.5			02A							a		X		
GP-2-5.0			03A							b		X		
GP-2-7.5			04A							c		X		
GP-3-2.5			05A							a		X		- record liquid used for TCLP analysis
GP-3-5.5			06A							b		X		
GP-3-7.5			07A							c		X		
GP-4-2.5			08A							a		X		- store all samples for future analysis
GP-4-5.5			09A							b		X		
GP-4-7.5			10A							c		X		
GP-5-2.5			11A							a		X		- results to: Kantan Jeer
GP-5-5.0			12A							b		X		
GP-5-7.5			13A							c		X		
GP-6-3.5			14A							d				Normal TAT 5 days TCLP - 7 days
GP-7-2.5			15A							d				
GP-7-6.0			16A							e				

RELINQUISHED BY: (Signature) Kantan Jeer	DATE 12-6-96	TIME 1417	RECEIVED BY: (Signature) Ronald C. Jensen	DATE 12/6/96	TIME 14:35
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE•FRICKE•RECON
1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500

Analytical Laboratory: AEN TCLP work on AEN 9612102

Shipping Copy (White) Lab Copy (Yellow) File Copy (Pink) Field Copy (Goldenrod)

COC.CDR 101596RYL

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9612094

Project No.: 3042.95.04	Project Location: Emeryville, Ca.	Date: 12-6-96	Serial No.: № 1001
Project Name: Rifkin Property	Field Logbook No.:		
Sampler (Signature): Kenta Fea			Samplers: KAG

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	As, Pb, Zn 6000/7000	VOCs 8240	SVOCs 8270	pH	TCLP As, Pb, Zn, 8240 8270		HOLD	RUSH	REMARKS
GP-7-7.0	12-5-96		17A	1	Soil	X	X	X	X	af				
GP-8-2.5			18A							d				
GP-8-5.5			19A							e				
GP-8-7.5			20A							af				
GP-9-2.5			21A							d				
GP-10-2.5			22A							d				
GP-10-5.5			23A							e				
GP-10-7.5			24A							f				
GP-11-2.5			25A							g				
GP-11-5.0			26A							h				
GP-11-7.5			27A							i				
GP-12-2.5			28A							g				
GP-12-5.0			29A							h				
GP-12-7.5			30A							i				
GP-13-2.5			31A							g				
GP-13-5.0			32A							h				

RELINQUISHED BY: (Signature) Kenta Fea	DATE 12-6-96	TIME 1435	RECEIVED BY: (Signature) Ronald C. Jensen	DATE 12/6/96	TIME 19:35
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector:
LEVINE•FRICKE•RECON
1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500

Analytical Laboratory: AEN

Shipping Copy (White) Lab Copy (Yellow) File Copy (Pink) Field Copy (Goldenrod)

COC.CDR 101596RYL

Page 3 of 3

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9612094

Project No.: 3042.95.04	Project Location: Emeryville, Ca.	Date: 12-6-96	Serial No.: Nº 1002
Project Name: Rifkin Property	Field Logbook No.:		
Sampler (Signature): Kenton Lee			Samplers: KAG

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	As, Pb, Zn 6000/7000	VOCs 8240	SVOCs 8270	pH	TCLP As, Ba, Cr, Pb, Zn 1340 / 6010		HOLD	RUSH	REMARKS
GP-13-7.5	12-5-96		33A	1	Soil	X	X	X	X	i				
GP-14-8.0			34A									X		
GP-15-3.5			35A							g				
GP-15-5.0			36A							h				
GP-15-7.5			37A							i				
GP-1(b)-3.0			38A									X		
GP-1(b)-5.0			39A									X		
GP-1(b)-7.5			40A									X		
GP-6(b)-3.5			41A									X		
GP-6(b)-7.5			42A							f				
GP-9(b)-2.5			43A									X		
GP-9(b)-5.0			44A							e				
GP-9(b)-7.5			45A							f				
GP-14(b)-3.5			46A							g				
GP-14(b)-5.0			47A							h				
GP-14(b)-7.5			48A							i				

RELINQUISHED BY: (Signature) Kenton Lee	DATE 12-6-96	TIME 1435	RECEIVED BY: (Signature) Ronald Jensen	DATE 12/6/96	TIME 14:35
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector:
LEVINE•FRICKE•RECON
1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500

Analytical Laboratory: AEN

Shipping Copy (White) Lab Copy (Yellow) File Copy (Pink) Field Copy (Goldenrod)

COC.CDR 101596RYL

CHANGE ORDER REQUEST

AMERICAN ENVIRONMENTAL NETWORK (AEN)
3440 VINCENT ROAD
PLEASANT HILL, CA 94523

PHONE (510) 930-9090 FAX (510) 930-0256

DATE/TIME 12/18/96 COMPANY LF-Recon

AEN REP. Bill S CONTACT Keaton Gee

AEN PROJ NO. 961094 PROJECT 3042.95.04 1003
PROJ. # COC #

ADDITIONAL ANALYSIS ✓ CHANGED ANALYSIS ____ OTHER ____

(-01A) GP-1-2.5 (-02A) GP-2-2.5 (-03A) GP-2-5.0
(-04A) GP-2-7.5 (-05A) GP-3-2.5 (-06A) GP-3-5.5
(-07A) GP-3-7.5 (-08A) GP-4-2.5 (-09A) GP-4-5.5
(-10A) GP-4-7.5 (-11A) GP-5-2.5 (-12A) GP-5-5.0
(-13A) GP-5-7.5 (-39A) GP-1(6)-5.0 (-40A) GP-1(6)-7.5

As, Pb, Zn, pH

(-05A) GP3-2.5, (-13A) GP5-7.5, (-06A) GP3-5.5, (-07A) GP3-7.5, (-08A) GP4-2.5
(-09A) GP4-5.5, GP4-7.5 (-10A), GP5-2.5 (-11A), GP5-5.0 (-12A)

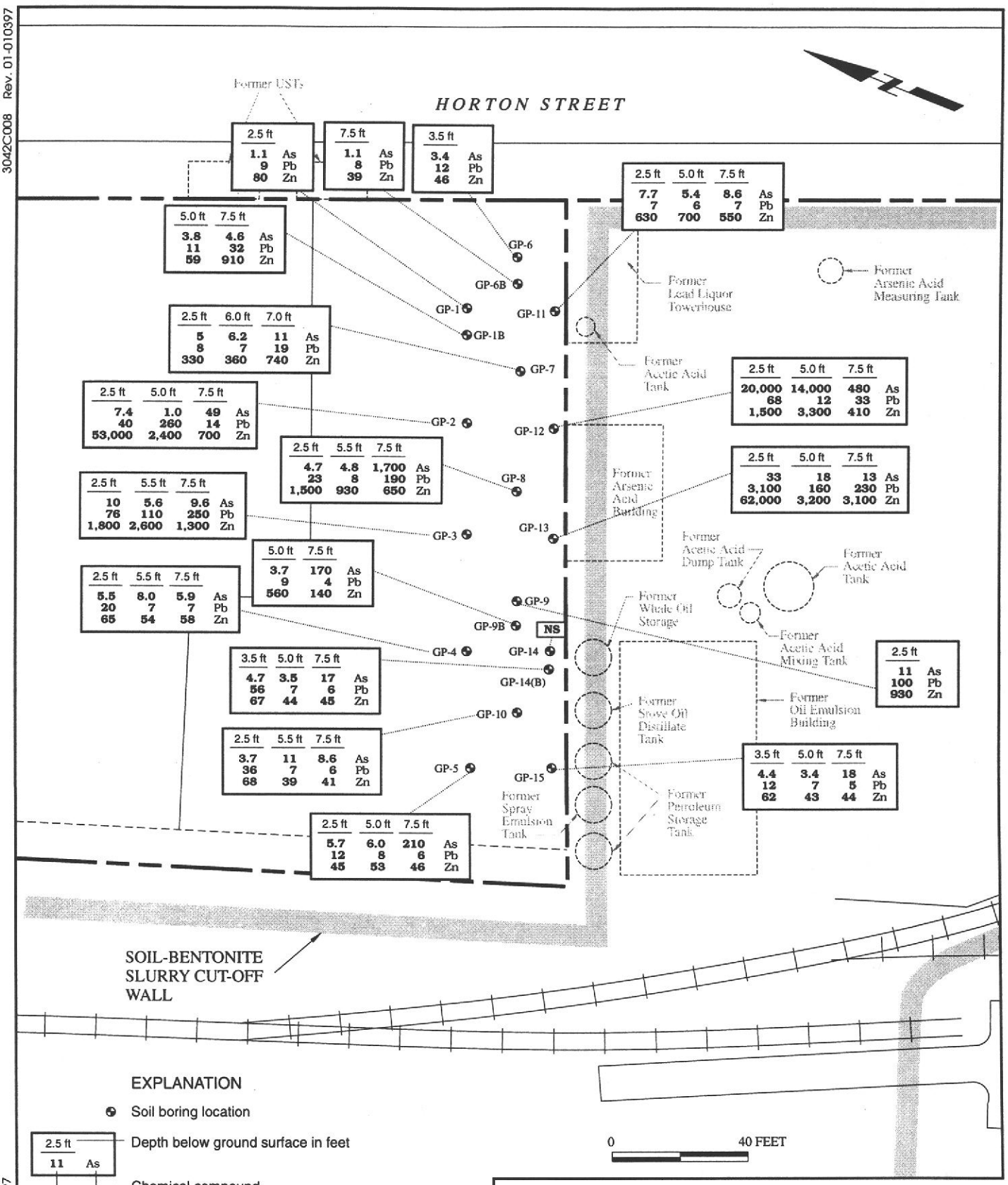
8240 *

~~Composite "a", "b", "c" analyze~~ * 8240 subbed to Chromalab 12/18/96

ACCEPTED - *The above specifications of this Change Order are satisfactory and are hereby accepted*

DATE OF ACCEPTANCE _____ *SIGNATURE* _____

PLEASE AUTHORIZE BY SIGNING REQUEST AND RETURN BY FAX



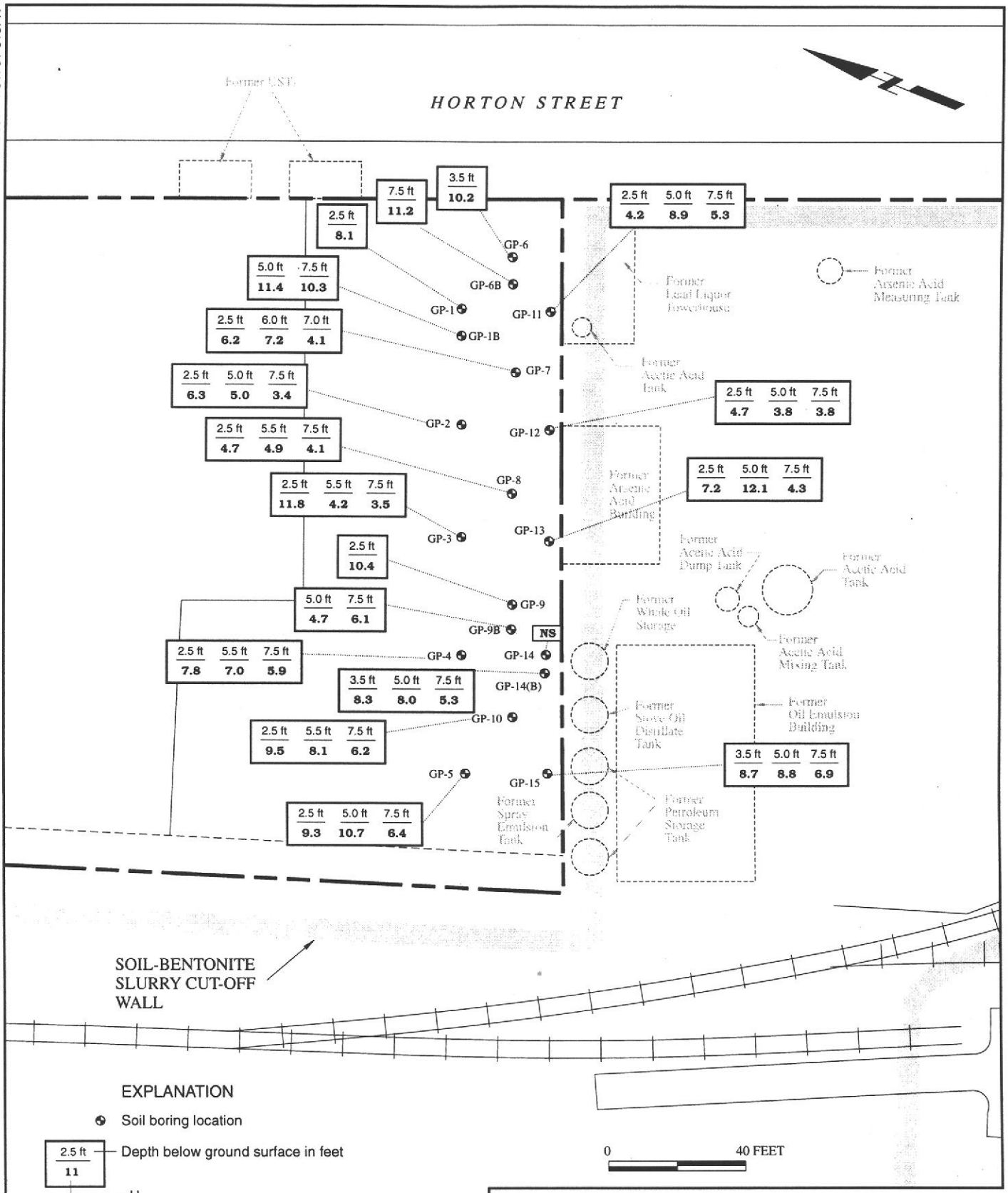
RIFKIN PROPERTY

Inorganic Compounds in Soil Samples

Levine-Fricke-Recon

Project No. 3042

Figure 1



Note: Soil samples collected by Levine-Fricke-Recon on December 5, 1996

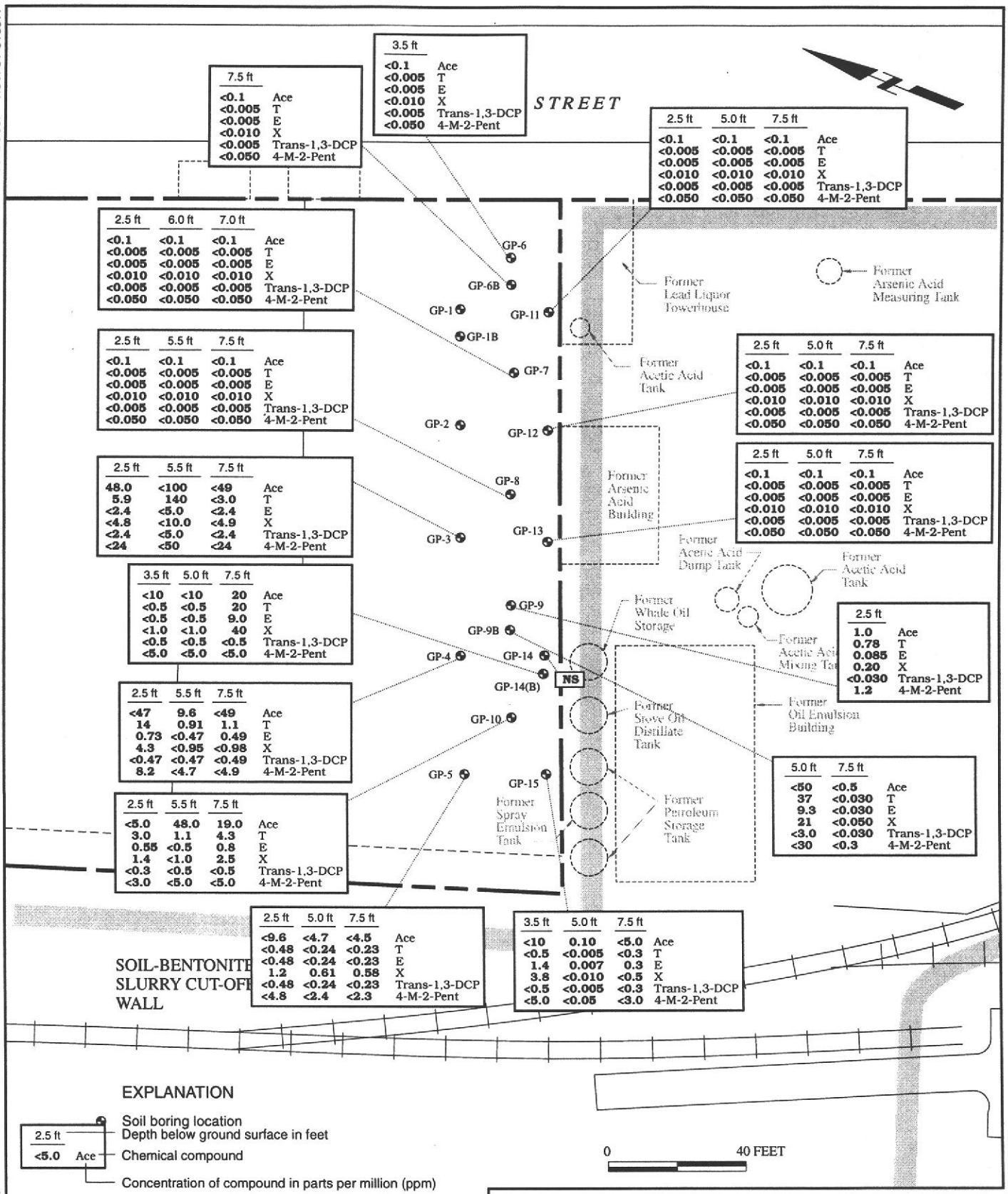
RIFKIN PROPERTY

PH of Soil Samples

Levine-Fricke-Recon

Project No. 3042

Figure 2



7.5 ft	
<0.1	Ace
<0.005	T
<0.005	E
<0.010	X
<0.005	Trans-1,3-DCP
<0.050	4-M-2-Pent

3.5 ft	
<0.1	Ace
<0.005	T
<0.005	E
<0.010	X
<0.005	Trans-1,3-DCP
<0.050	4-M-2-Pent

2.5 ft	5.0 ft	7.5 ft	
<0.1	<0.1	<0.1	Ace
<0.005	<0.005	<0.005	T
<0.005	<0.005	<0.005	E
<0.010	<0.010	<0.010	X
<0.005	<0.005	<0.005	Trans-1,3-DCP
<0.050	<0.050	<0.050	4-M-2-Pent

2.5 ft	6.0 ft	7.0 ft	
<0.1	<0.1	<0.1	Ace
<0.005	<0.005	<0.005	T
<0.005	<0.005	<0.005	E
<0.010	<0.010	<0.010	X
<0.005	<0.005	<0.005	Trans-1,3-DCP
<0.050	<0.050	<0.050	4-M-2-Pent

2.5 ft	5.5 ft	7.5 ft	
<0.1	<0.1	<0.1	Ace
<0.005	<0.005	<0.005	T
<0.005	<0.005	<0.005	E
<0.010	<0.010	<0.010	X
<0.005	<0.005	<0.005	Trans-1,3-DCP
<0.050	<0.050	<0.050	4-M-2-Pent

2.5 ft	5.5 ft	7.5 ft	
48.0	<100	<49	Ace
5.9	140	<3.0	T
<2.4	<5.0	<2.4	E
<4.8	<10.0	<4.9	X
<2.4	<5.0	<2.4	Trans-1,3-DCP
<24	<50	<24	4-M-2-Pent

3.5 ft	5.0 ft	7.5 ft	
<10	<10	20	Ace
<0.5	<0.5	20	T
<0.5	<0.5	9.0	E
<1.0	<1.0	40	X
<0.5	<0.5	<0.5	Trans-1,3-DCP
<5.0	<5.0	<5.0	4-M-2-Pent

2.5 ft	5.5 ft	7.5 ft	
<47	9.6	<49	Ace
14	0.91	1.1	T
0.73	<0.47	0.49	E
4.3	<0.95	<0.98	X
<0.47	<0.47	<0.49	Trans-1,3-DCP
8.2	<4.7	<4.9	4-M-2-Pent

2.5 ft	5.5 ft	7.5 ft	
<5.0	48.0	19.0	Ace
3.0	1.1	4.3	T
0.55	<0.5	0.8	E
1.4	<1.0	2.5	X
<0.3	<0.5	<0.5	Trans-1,3-DCP
<3.0	<5.0	<5.0	4-M-2-Pent

2.5 ft	5.0 ft	7.5 ft	
<0.1	<0.1	<0.1	Ace
<0.005	<0.005	<0.005	T
<0.005	<0.005	<0.005	E
<0.010	<0.010	<0.010	X
<0.005	<0.005	<0.005	Trans-1,3-DCP
<0.050	<0.050	<0.050	4-M-2-Pent

2.5 ft	5.0 ft	7.5 ft	
<0.1	<0.1	<0.1	Ace
<0.005	<0.005	<0.005	T
<0.005	<0.005	<0.005	E
<0.010	<0.010	<0.010	X
<0.005	<0.005	<0.005	Trans-1,3-DCP
<0.050	<0.050	<0.050	4-M-2-Pent

2.5 ft	
1.0	Ace
0.78	T
0.085	E
0.20	X
<0.030	Trans-1,3-DCP
1.2	4-M-2-Pent

5.0 ft	7.5 ft	
<50	<0.5	Ace
37	<0.030	T
9.3	<0.030	E
21	<0.050	X
<3.0	<0.030	Trans-1,3-DCP
<30	<0.3	4-M-2-Pent

2.5 ft	5.0 ft	7.5 ft	
<9.6	<4.7	<4.5	Ace
<0.48	<0.24	<0.23	T
<0.48	<0.24	<0.23	E
1.2	0.61	0.58	X
<0.48	<0.24	<0.23	Trans-1,3-DCP
<4.8	<2.4	<2.3	4-M-2-Pent

3.5 ft	5.0 ft	7.5 ft	
<10	0.10	<5.0	Ace
<0.5	<0.005	<0.3	T
1.4	0.007	0.3	E
3.8	<0.010	<0.5	X
<0.5	<0.005	<0.3	Trans-1,3-DCP
<5.0	<0.05	<3.0	4-M-2-Pent

EXPLANATION

2.5 ft
<5.0 Ace

- Soil boring location
- Depth below ground surface in feet
- Chemical compound
- Concentration of compound in parts per million (ppm)

NS Not sampled

Ace Acetone
T Toluene
E Ethylbenzene
X Total Xylenes
Trans-1,3-DCP Trans-1,3-Dichloropropene
4-M-2-Pent 4-Methyl-2-Pentanone

Note: Soil samples collected by Levine-Fricke-Recon on December 5, 1996. Compounds analyzed for using EPA Method 8240 that are not shown on this figure were below laboratory detection limits.

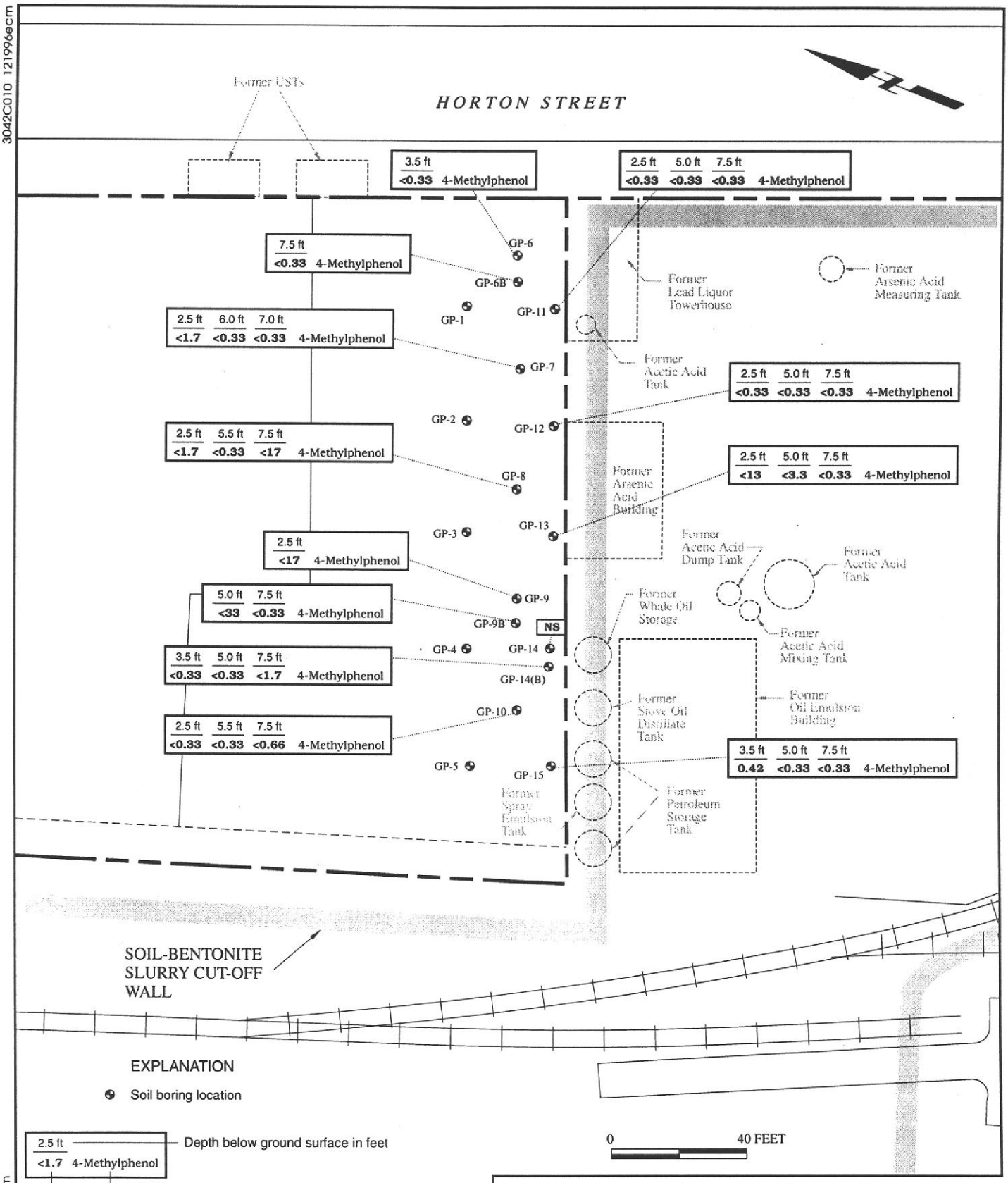
RIFKIN PROPERTY

Volatile Organic Compound Concentrations in Soil Samples

Levine-Fricke-Recon

Figure 3

Project No. 3042



Note: Soil samples collected by Levine-Fricke-Recon on December 5, 1996. Compounds analyzed for using EPA Method 8270 that are not shown on this figure were below laboratory detection limits.

RIFKIN PROPERTY

Semi-Volatile Organic Compound Concentrations in Soil Samples

Levine-Fricke-Recon

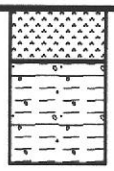
Figure 4

Project No. 3042

WELL CONSTRUCTION	LITHOLOGY	SAMPLE DATA

Depth, feet | Graphic Log | Description | Sample No. and Interval

GP-1



CONCRETE.

GRAVELLY SILT (ML), brownish yellow (10YR 4/6), slightly moist, loose, gravel up to 1-inch diameter.

Refusal, concrete.

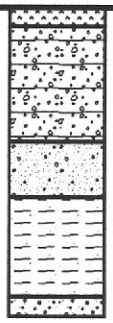
BOTTOM OF BORING AT 4.0 FEET.

GP-1-2.5'

5

10

GP-2



CONCRETE.

CLAYEY GRAVEL (GC), very dark gray (10YR 3/1), moist, dense, up to 1-inch diameter, minor sand, minor brick fragments.

GRAVELLY SAND (SW), pale yellow (2.5Y 7/4), moist, loose, coarse grained, gravel up to 1-inch diameter, chemical odor.

SANDY SILT (ML), pale yellow (2.5Y 7/4), moist, dense, sand fine grained, chemical odor.

ATD

SANDY GRAVEL (GW), very dark grayish brown (10YR 3/2), wet, up to 1-inch diameter, sand fine to coarse grained.

BOTTOM OF BORING AT 8.0 FEET.

GP-2-2.5'

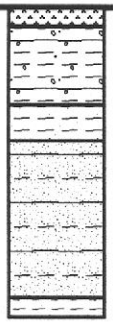
GP-2-5.0'

GP-2-7.5'

5

10

GP-3



CONCRETE.

GRAVELLY SILT (ML), brownish yellow (10YR 6/6), slightly moist, loose, gravel up to 1-inch diameter, wood fragments.

SANDY SILT (ML), very dark gray (10YR 3/1), moist, dense, sand fine grained, minor gravel.

CLAYEY SILTY SAND-SANDY SILTY CLAY (SW-CL), light olive brown (2.5Y 5/3), moist, dense, very low plasticity, sand fine grained.

ATD

SANDY SILT (ML), very dark grayish brown (10YR 5/2), wet, dense, sand fine grained.

BOTTOM OF BORING AT 8.0 FEET.

GP-3-2.5'

GP-3-5.5'

GP-3-7.5'

5

10

Date drilled: December 5, 1996
Drilling Company: Gregg Drilling
Driller: Paul
Sampling Method: Conituous Core
LF Geologist: Kenton Gee

EXPLANATION

- Clay
- Silt
- Sand
- Gravel

- Interval sampled using Continuous Core
- Sample retained for analysis
- ATD Water level encountered at time of drilling

Approved by: Michael Marsden 6536

LITHOLOGY AND SAMPLE DATA FOR SOIL BORINGS GP-1, GP-2 AND GP-3

Levine-Fricke-Recon

Project No. 3042

Rifkin Property

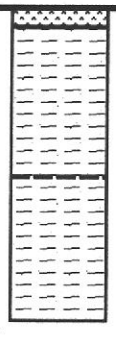
Figure

3042L014.CDR 013197

WELL CONSTRUCTION	LITHOLOGY	SAMPLE DATA

Depth, feet | Graphic Log | Description | Sample No. and Interval

GP-4



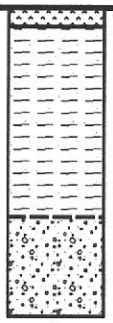
CONCRETE.
SANDY SILT (ML), very dark gray (10YR 3/1), slightly moist, dense, sand fine grained.

Color change to dark yellowish brown (10Yr 4/6).

BOTTOM OF BORING AT 8.0 FEET.

GP-4-2.5'
GP-4-5.5'
GP-4-7.5'

GP-5



CONCRETE.
SANDY SILT (ML), very dark gray (10YR 3/1), moist, dense, sand fine grained.

SANDY GRAVEL (GW), dark brown (10YR 4/3), slightly moist, loose, gravel up to 1/2-inch diameter, sand fine to coarse grained.

BOTTOM OF BORING AT 8.0 FEET.

GP-5-2.5'
GP-5-5.0'
GP-5-7.5'

GP-6

CONCRETE.
Void?

GRAVELLY SILTY SAND (SW), dark yellowish brown (10YR 4/4), slightly moist, loose, gravel up to 1-inch diameter, sand coarse grained.
Refusal, concrete.
BOTTOM OF BORING AT 4.0 FEET.

No Recovery
GP-6-3.5'

Date drilled: December 5, 1996
Drilling Company: Gregg Drilling
Driller: Paul
Sampling Method: Conituous Core
LF Geologist: Kenton Gee

EXPLANATION

- Clay
- Silt
- Sand
- Gravel

- Interval sampled using Continuous Core
- Sample retained for analysis
- ATD Water level encountered at time of drilling
- NR No Recovery

Approved by: Michael Marsden 6536

LITHOLOGY AND SAMPLE DATA FOR SOIL BORINGS GP-4, GP-5 AND GP-6

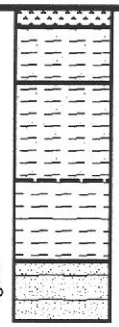
Levine-Fricke-Recon
Project No. 3042

Rifkin Property
Figure

3042L015.CDR 013197

WELL CONSTRUCTION	LITHOLOGY	SAMPLE DATA
Depth, feet / Graphic Log	Description	Sample No. and Interval

GP-7



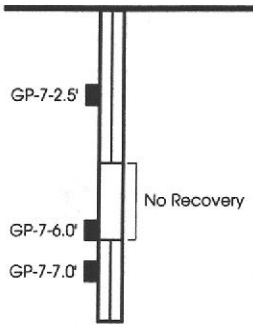
CONCRETE.
SANDY SILT (ML), very dark gray (10YR 3/1), slightly moist, dense, friable, sand fine grained, chemical odor.
SANDY SILT (ML), yellowish brown (10YR 5/6), slightly moist, loose, sand coarse grained.

CLAYEY SILT (ML), yellowish brown (10YR 5/6), moist, moderately dense.

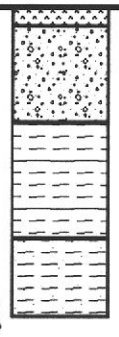
ATD

CLAYEY SAND (SW), pale yellow (2.5Y 7/4), wet, coarse grained.

BOTTOM OF BORING AT 8.0 FEET.



GP-8



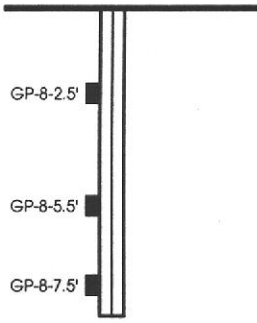
CONCRETE.
SANDY GRAVEL (GW), dark gray (10YR 4/1), slightly moist, loose, up to 1-inch diameter, sand fine to coarse grained, minor silt.

CLAYEY SILT (ML), dark gray (10YR 4/1), moist, dense, low plasticity.

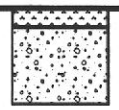
SANDY SILT (ML), grayish brown (10YR 5/2), moist, dense, sand fine grained.

ATD

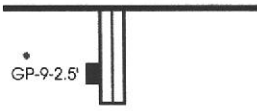
BOTTOM OF BORING AT 8.0 FEET.



GP-9



CONCRETE.
SANDY GRAVEL (GW), dark gray (10YR 4/1), slightly moist, loose, up to 1-inch diameter, sand fine to coarse grained.
Refusal, brick.
BOTTOM OF BORING AT 2.5 FEET.



Date drilled: December 5, 1996
Drilling Company: Gregg Drilling
Driller: Paul
Sampling Method: Conituous Core
LF Geologist: Kenton Gee

EXPLANATION

- Clay
- Silt
- Sand
- Gravel

- Interval sampled using Continuous Core
- Sample retained for analysis
- ATD Water level encountered at time of drilling
- NR No Recovery

Approved by: Michael Marsden 6536

LITHOLOGY AND SAMPLE DATA FOR SOIL BORINGS GP-7, GP-8 AND GP-9

Levine-Fricke-Recon

Project No. 3042

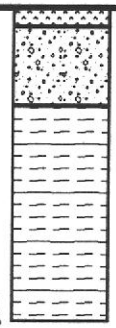
Rifkin Property

Figure

3042L016.CDR 013197

WELL CONSTRUCTION	LITHOLOGY	SAMPLE DATA
Depth, feet / Graphic Log	Description	Sample No. and Interval

GP-10



CONCRETE.
SANDY GRAVEL (GW), dark gray (10YR 3/1), slightly moist, loose, up to 1-inch diameter, sand fine to coarse grained.

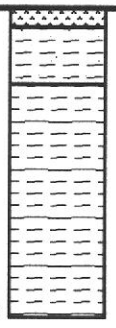
CLAYEY SILT (ML), very dark gray (10YR 3/1), slightly moist, dense, low plasticity, minor sand.

Increase in sand content, strong chemical odor.

BOTTOM OF BORING AT 8.0 FEET.

GP-10-2.5'
GP-10-5.5'
GP-10-7.5'

GP-11



CONCRETE.
SANDY SILT (ML), yellowish brown (10YR 5/6), slightly moist, loose, sand medium to coarse grained.

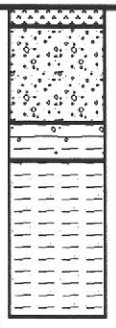
CLAYEY SILT (ML), dark yellowish brown (10YR 4/6), slightly moist, dense, low plasticity.

Very moist.

BOTTOM OF BORING AT 8.0 FEET.

GP-11-2.5'
GP-11-5.0'
GP-11-7.5'

GP-12



CONCRETE.
SANDY GRAVEL (GW), dark gray (10YR 3/1), slightly moist, loose, up to 1-inch diameter, sand fine to coarse grained.

GRAVELLY SILT (ML), very dark gray (10YR 3/1), slightly moist, loose, gravel up to 1-inch diameter, minor coarse sand.

SANDY SILT (ML), grayish brown (10YR 5/2), moist, dense, sand fine grained.

BOTTOM OF BORING AT 8.0 FEET.

GP-12-2.5'
GP-12-5.0'
GP-12-7.5'

Date drilled: December 5, 1996
Drilling Company: Gregg Drilling
Driller: Paul
Sampling Method: Conituous Core
LF Geologist: Kenton Gee

EXPLANATION

- Clay
- Silt
- Sand
- Gravel

- Interval sampled using Continuous Core
- Sample retained for analysis
- ATD: Water level encountered at time of drilling

Approved by: Michael Marsden 6536

LITHOLOGY AND SAMPLE DATA FOR SOIL BORINGS GP-10, GP-11 AND GP-12

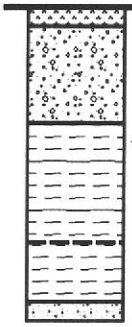
Levine-Fricke-Recon
Project No. 3042

Rifkin Property
Figure

3042L017.CDR 013197

WELL CONSTRUCTION	LITHOLOGY	SAMPLE DATA
Depth, feet / Graphic Log	Description	Sample No. and Interval

GP-13



CONCRETE.
SANDY GRAVEL (GW), dark gray (10YR 3/1), slightly moist, loose, up to 1-inch diameter, sand fine to coarse grained.

CLAYEY SILT (ML), dark gray (10YR 4/1), mottled with light yellowish brown (10YR 6/4), slightly moist, dense, low plasticity.

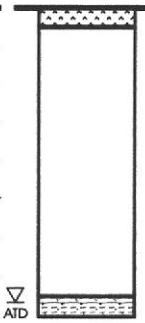
Decrease in clay content.

GRAVELLY SAND (SW), very dark gray (10YR 3/1), very moist, loose, very coarse grained, gravel up to 1/4-inch diameter.

BOTTOM OF BORING AT 8.0 FEET.

GP-13-2.5'
GP-13-5.0'
GP-13-7.5'

GP-14



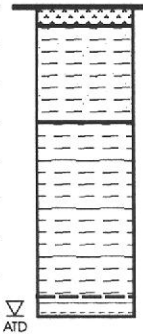
CONCRETE.
Void?

GRAVELLY SILT (ML), very dark gray (10YR 3/1), slightly moist, loose, gravel up to 1-inch diameter.

BOTTOM OF BORING AT 8.0 FEET.

No Recovery
GP-14-8.0'

GP-15



CONCRETE.
SANDY SILT (ML), very dark gray (10YR 3/1), moist, dense, sand fine to medium grained.

CLAYEY SILT (ML), very dark gray (10YR 3/1), moist, dense, low plasticity.

Strong chemical odor.

CLAYEY SILTY SAND (SC), very dark grayish brown (10YR 5/2), very moist, dense, fine grained.
BOTTOM OF BORING AT 8.0 FEET.

No Recovery
GP-15-3.5'
GP-15-5.0'
GP-15-7.5'

Date drilled: December 5, 1996
Drilling Company: Gregg Drilling
Driller: Paul
Sampling Method: Conituous Core
LF Geologist: Kenton Gee

EXPLANATION
- Clay
- Silt
- Sand
- Gravel

- Interval sampled using Continuous Core
- Sample retained for analysis
- ATD Water level encountered at time of drilling
- NR No Recovery

Approved by: Michael Marsden 6536

LITHOLOGY AND SAMPLE DATA FOR SOIL BORINGS GP-13, GP-14 AND GP-15

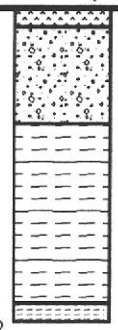
Levine-Fricke-Recon
Project No. 3042

Rifkin Property
Figure

3042L018.CDR 013197

WELL CONSTRUCTION	LITHOLOGY	SAMPLE DATA
Depth, feet / Graphic Log	Description	Sample No. and Interval

GP-9(B)



CONCRETE.
SANDY GRAVEL (GW), dark gray (10YR 4/1), slightly moist, loose, up to 1-inch diameter, sand fine to coarse grained.

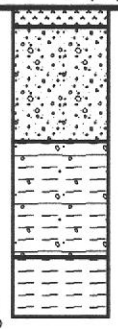
CLAYEY SILT (ML), very dark grayish brown (10YR 3/2), slightly moist, dense, low plasticity, chemical odor.

SANDY SILT (ML), very dark gray (10YR 3/1), very moist, dense, sand fine to medium grained.
BOTTOM OF BORING AT 8.0 FEET.

ATD

GP-9(B)-2.5'
GP-9(B)-5.0'
GP-9(B)-7.5'

GP-1(B)



CONCRETE.
SANDY GRAVEL (GW), brownish yellow (10YR 6/6), slightly moist, loose, up to 1-inch diameter, sand fine to coarse sand.

GRAVELLY SILT (ML), brownish yellow (10YR 6/6), slightly moist, loose, gravel up to 1-inch diameter, minor sand.

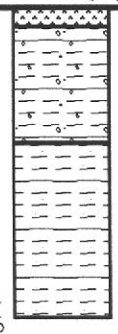
SILT (ML), dark red (10YR 3/6), moist, dense.

BOTTOM OF BORING AT 8.0 FEET.

ATD

GP-1(B)-3.0'
GP-1(B)-5.0'
GP-1(B)-7.5'

GP-6(B)



CONCRETE.
GRAVELLY SILT (ML), yellowish brown (10YR 5/6), slightly moist, moderately dense, gravel up to 1-inch diameter.

CLAYEY SANDY SILT (ML), dark yellowish brown (10YR 4/6), most, dense, low plasticity, sand fine to medium grained.

BOTTOM OF BORING AT 8.0 FEET.

ATD

GP-6(B)-3.5'
GP-6(B)-7.5'
No Recovery
No Recovery

Date drilled: December 5, 1996
Drilling Company: Gregg Drilling
Driller: Paul
Sampling Method: Conituous Core
LF Geologist: Kenton Gee

EXPLANATION

- Clay
- Silt
- Sand
- Gravel

- Interval sampled using Continuous Core
- Sample retained for analysis
- ATD Water level encountered at time of drilling
- NR No Recovery

Approved by:

LITHOLOGY AND SAMPLE DATA FOR SOIL BORINGS GP-9(B), GP-9(B) AND GP-6(B)

Levine-Fricke-Recon

Project No. 3042

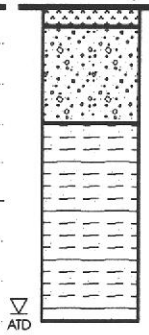
Rifkin Property

Figure

3042L019.CDR 013197

WELL CONSTRUCTION	LITHOLOGY	SAMPLE DATA
Depth, feet / Graphic Log	Description	Sample No. and Interval

GP-14(B)

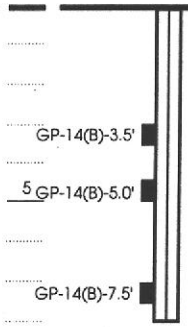


CONCRETE.

SANDY GRAVEL (GW), dark gray (10YR 3/1), slightly moist, loose, up to 1-inch diameter, sand fine to coarse grained.

CLAYEY SANDY SILT (ML), very dark grayish brown (10YR 3/2), slightly moist, dense, low plasticity, sand fine to medium grained.

BOTTOM OF BORING AT 8.0 FEET.



5

10

Date drilled: December 5, 1996
Drilling Company: Gregg Drilling
Driller: Paul
Sampling Method: Conituous Core
LF Geologist: Kenton Gee

EXPLANATION

Clay

Silt

Sand

Gravel

Interval sampled using Continuous Core

Sample retained for analysis

ATD Water level encountered at time of drilling

Approved by:

LITHOLOGY AND SAMPLE DATA FOR SOIL BORING GP-14(B)

Levine-Fricke-Recon

Project No. 3042

Rifkin Property

Figure

3042L020.CDR 013197

Appendix C

Revised Work Plan for Additional Soil and Groundwater Investigations, Dated March 28, 1997

Revised Work Plan for
Additional Soil and Groundwater Investigations
Rifkin Property
4525 to 4563 Horton Street
Emeryville, California

March 28, 1997
3042.95-004

Prepared for
The Sherwin-Williams Company
101 Prospect Avenue
Cleveland, Ohio 44115

Levine·Fricke·Recon
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

INTRODUCTION

This work plan is submitted per Sherwin-Williams' request for additional investigations of soil and groundwater at the Rifkin Property, located at 4525 to 4563 Horton Street in Emeryville, California. It describes the proposed scope of work for conducting these additional investigations at the Rifkin Property.

One of the goals of the work plan is to obtain necessary data to allow Chiron to move promptly forward with their building demolition. As a result, the work will be conducted in phases, with sampling in the southern area of the property taking highest priority before building demolition. This work was completed as described in Task 5 of the November 20, 1996, Work Plan (amended December 2, 1996). In addition, physical building constraints may require that the remaining work within the Rifkin building be conducted after building demolition. The schedule for drilling and sampling will be worked out with Chiron after approval of the scope of work.

OBJECTIVES

The primary objectives of the activities described in this work plan are to:

- conduct a visual analysis of the property, assess past industrial activities and review data from previous investigations in order to identify potential source areas for soil and groundwater contamination (*Task completed.*)
- verify the extent of the arsenic groundwater plume from the Sherwin-Williams property including assessment of whether arsenic is migrating in sand stringers beneath the currently installed wells RP-1 - RP-5
- confirm locations of other sources of contamination through selective sampling of soil and groundwater in order to fill in data gaps and/or confirm results from previous investigations
- define the extent of chemical migration in the vadose zone soil from the Sherwin-Williams property onto the Rifkin property at the southern Sherwin-Williams /Rifkin property boundary in order to determine whether soil removal is appropriate and, if so, to what extent (*Task completed.)*
- collect groundwater samples in wells upgradient from Rifkin and downgradient from the South BGR property (former Shell development property) to verify the extent of contaminated groundwater migration from the South BGR property onto the Rifkin property

SCOPE OF WORK

Based upon the objectives previously listed, the proposed scope of work includes the following tasks:

- Task 1: Site Walk and Review of Historical Data *(Task completed.)*
- Task 2: Pre-Field Work Activities
- Task 3: CPT Borings
- Task 4: Soil and Groundwater Sampling at CPT Boring Locations
- Task 5: Soil Sampling in the Vicinity of the Southern Sherwin-Williams/Rifkin Property Boundary *(Task completed.)*
- Task 6: Installation, Development, and Sampling of Monitoring Wells
- Task 7: Report Preparation

Detailed descriptions of the services to be provided under each work task are presented below.

Task 1: Site Walk and Review of Historical Data

(Task 1 has been completed. For more information about the scope of work, refer to Levine·Fricke·Recon Inc.'s November 20, 1996 Work Plan.)

Task 2: Pre-Field Work Activities

The appropriate permits will be obtained from the City of Emeryville and from Alameda County Flood Control and Water Conservation District (Zone 7) before subsurface investigations and monitoring well installation activities begin. These permits would include any well drilling permits, as well as access right-of-way for drilling in Horton Street or the adjacent sidewalk.

A private underground utility locator will identify the locations of subsurface structures and utility lines at each proposed CPT and monitoring well location before subsurface investigation activities commence. Underground Services Alert (USA) also will be notified before initiation of subsurface investigations and well installation activities, so that the locations of public utilities can be identified.

Task 3: CPT Borings

An estimated 18 CPT borings will be drilled at the Rifkin Property under the supervision of a LFR geologist where deemed necessary. Based on preliminary review of the site data, LFR has tentatively identified these locations, as shown in Figure 1. CPT borings will be extended to a depth of 30 ft bgs, and the data collected from the

CPT borings will be used to select discrete intervals in the subsurface to collect soil and groundwater samples as described in Task 4.

CPT provides identification of lithologic units, using an instrumented probe with a conical tip and friction sleeve, to measure various geologic, geotechnical, and hydrologic parameters. This is accomplished by correlating resistance on the cone tip, frictional resistance along the cylindrical friction sleeve, probe inclination, and pore water pressure. The data generated from the CPT measurements will be used to identify changes in subsurface lithology and aid in assessing potential intervals in the subsurface for the collection of soil and groundwater samples.

The CPT probe, which is attached to a string of steel pipe segments, will be pushed into the ground using a truck-mounted hydraulic ram with a maximum reaction of 25 tons. The probe will be advanced at an approximate rate of 2 centimeters per second, while measurements are recorded continuously and relayed directly to an on-board computer. Lithologic and hydrologic data based on cone tip resistance, sleeve friction, probe inclination, and pore water pressure measured by the cone-tipped probe are printed out by the computer as the probe advances. Upon completion, the CPT boring will be grouted through a tremie pipe immediately after the probe is removed from the ground.

Drilling all the CPT borings prior to building demolition may not be feasible due to physical building constraints. As a result, LFR will drill the CPT borings after demolition.

Task 4: Soil and Groundwater Sampling at CPT Boring Locations

The lithologic and hydrologic data will be reviewed after completion of the CPT borings, in order to determine discrete soil and groundwater sampling intervals at each CPT boring location.

Under the supervision of a LFR geologist, a hydraulically driven push-rod sampling rig will be used to collect a soil sample (if deemed necessary) at two different depths above the groundwater table at each CPT location. The boring location for the push-rod sampling rig will be within an approximate 1-foot radius of each CPT boring location.

At each boring location, following collection of the soil samples, a discrete groundwater sampling tool will be attached to the hydraulically driven push-rod sampling rig and groundwater samples will be collected from below the groundwater surface. At each boring location, two groundwater samples will be collected within the A-zone groundwater at the site. One of the groundwater samples will be collected between the top of the groundwater surface and 15 feet below ground surface (bgs); the other groundwater sample will be collected between 15 feet bgs and 30 feet bgs. Where appropriate, samples will be collected where sand intervals are identified in the boring.

Soil Sampling Field Methods

Boreholes will be advanced by hydraulically driving a 1-1/2 inch diameter core-rod, lined with brass tubes inside a 1-5/8 inch diameter hollow steel sampling tube. This sampling system allows soil samples to be collected from a selected interval. When the desired sampling depth is reached in each boring, the lowermost sample will be preserved by placing aluminum foil-lined plastic caps over the ends of the brass tubes; the samples will then be stored in a chilled cooler. Each sample will be labeled with the borehole identification and depth of the sample, the time and date of sample collection, the analysis requested, and the name of the individual who collected the sample.

The soil sample collected above for chemical analyses will be lithologically described using the Unified Soil Classification System. Lithologic descriptions will be recorded in the field on borehole log forms. Soil samples collected from the well borings for lithologic description will be field screened, using an organic vapor meter (OVM), for the presence of VOCs. Additional soil samples will be collected for possible chemical analysis based on visible staining and/or high OVM measurements.

All downhole testing and sampling equipment will be decontaminated between locations using a steam cleaner.

Investigation derived soil waste will be placed in 55-gallon drums and stored on the Sherwin-Williams property. Selected soil samples will be composited and the TCLP will be determined for arsenic, lead, zinc, VOCs and SVOCs. An appropriate disposal site will be determined based on the analytical results.

Groundwater Sampling Field Methods

The 1-1/2 inch rods will be removed from the boring for collection of a groundwater sample, in order to obtain groundwater samples at a discrete depth. A discrete interval sampling tool will then be inserted and the 1-5/8-inch-diameter rods will be removed. The discrete groundwater sampling tool will then collect a groundwater sample in appropriate containers. Filled sample bottles will be labeled, stored on ice in a cooler, and submitted to the analytical laboratory. Chain-of-custody forms will accompany the shipment of samples. After sample collection, the completed boreholes will be backfilled to the ground surface with neat cement grout containing a maximum of 3 to 5 percent bentonite.

All downhole testing and sampling equipment will be decontaminated between locations using a steam cleaner.

Wastewater generated during steam cleaning and other activities will be discharged into the GWETS at Sherwin-Williams.

Laboratory Analysis

Soil and groundwater samples will be submitted to American Environmental Network of Pleasant Hill, a California-certified laboratory, for chemical analysis on a standard laboratory turnaround schedule of two weeks. Soil and groundwater samples will be analyzed for arsenic, lead, and zinc using EPA Method 6000/7000 series, SVOCs using EPA 8270, VOCs using EPA Method 8240, TPHg using EPA Method 5030 GCFID, TPHd using EPA Method 3510/3550, and for pH. Soil samples will also be analyzed for PCBs using EPA Method 8080. The groundwater samples will be filtered in the laboratory prior to all metals analyses.

Task 5: Soil Sampling in the Vicinity of the Southern Sherwin-Williams/Rifkin Property Boundary

(Task 5 has been completed. For more information about the scope of work, refer to Levine·Fricke·Recon Inc.'s November 20, 1996 Work Plan, with modifications to Task 5 described in the December 2, 1996 letter to the RWQCB.)

Task 6: Installation, Development, and Sampling of Monitoring Wells

Installation of Monitoring Wells

Four A-zone monitoring wells will be completed to a depth of 15 to 20 feet bgs at the locations shown on Figure 1. The locations of these monitoring wells may be adjusted based on the historical site data review under Task 1 and the CPT results under Task 4.

All wells will be installed by the hollow-stem auger drilling method. All augers and sampling equipment will be steam cleaned before use at each well location. Soil samples will be collected continuously, and will be used to characterize the subsurface lithology. Soil samples and drill cuttings will be monitored with an organic vapor meter (OVM) to test for the presence of volatile organic compounds (VOCs) in the soil for health and safety purposes.

Monitoring wells will be completed with 2-inch diameter polyvinyl chloride (PVC) casing in an 8-inch diameter borehole, with a maximum of 10 feet of slotted screen

After the well casing has been placed in the completed borehole, the well annulus opposite the perforated interval will be backfilled with clean sand to a height of approximately 2 feet above the top of the perforations. The grain-size distribution of the sand pack will be selected to be compatible with the selected slot size of the well screen. Approximately 2 feet of bentonite pellets will be placed above the sand pack to isolate the perforated interval from material above and inhibit the entrance of grout into the sand pack. A cement-bentonite grout will be placed in the remainder of the borehole. A locking cover will then be placed over the top of the casing to protect the integrity of the well.

Soil cuttings generated during drilling will be stored in 55-gallon drums and left on site until an appropriate disposal method is determined pending analytical results.

Top-of-casing measurements and horizontal location for the new wells will be collected by a licensed surveyor.

Development and Sampling of Monitoring Wells

Collection of water-level measurements and development of the newly-installed wells will take place following installation.

The groundwater level measurements will be measured from the top of the casing to the groundwater surface using an electronic water-level probe attached to a measuring tape graduated to 0.01 foot intervals.

The newly installed wells will be developed by bailing, swabbing, and pumping to remove sediment from around the well and to enhance hydraulic communication with the surrounding formation.

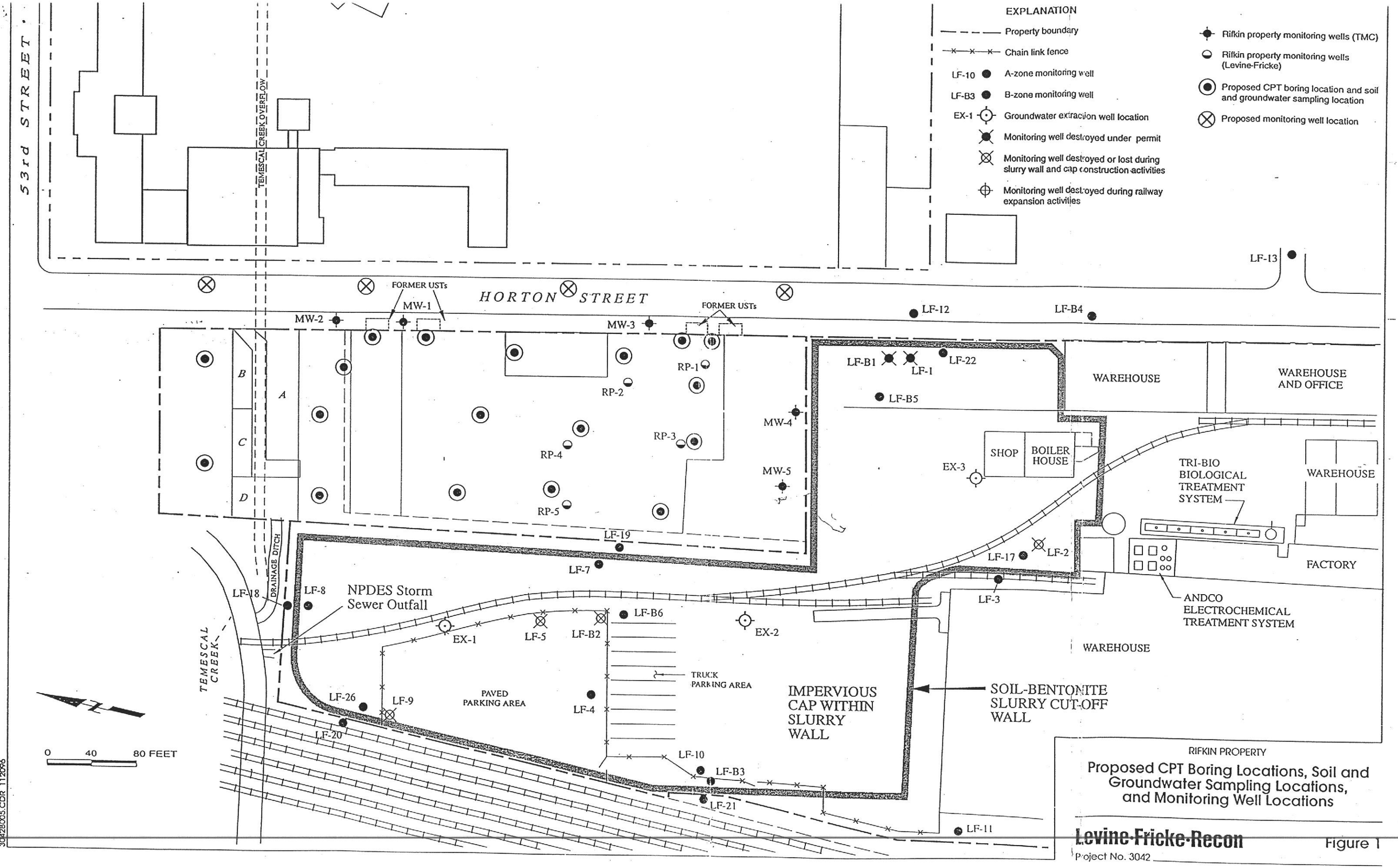
During well development, approximately 10 well volumes of water will be removed from each well. Specific conductance, pH, and temperature will be measured during this purging process to aid in evaluation of groundwater quality. Observations concerning quantity and clarity of water withdrawn will be recorded during this process. After well development, the water level in the well will be measured. All developing and sampling equipment will be steam cleaned before use at each well.

Groundwater samples will be collected from the new wells and submitted to American Environmental Network for analysis of arsenic using EPA Method 6000/7000 series, VOCs using EPA Method 8240, TPHg using EPA Method 5030 GCFID, TPHd using EPA Method 3510/3550, and SVOCs using EPA 8270.

Groundwater generated from the well development and sampling activities will be discharged to the Sherwin-Williams GWETS.

Task 7: Data Report Preparation

A data report will be prepared summarizing investigation activities. The report will include a description of site activities conducted, results of chemical analysis (foundation materials, soil, and groundwater) presented in tabular form, site maps showing concentrations of chemicals detected in foundation materials, soil and groundwater, data collected during CPT activities, lithologic logs prepared during soil and groundwater sampling activities, and laboratory data reports.



RIFKIN PROPERTY

Proposed CPT Boring Locations, Soil and Groundwater Sampling Locations, and Monitoring Well Locations

Levine-Fricke-Recon

Project No. 3042

Figure 1

30428005.CDR 112096

ID	Task Name
1	**Workplan**
2	Draft Workplan
3	Deliver to RWQCB
4	RWQCB Review
5	Final Workplan
6	Deliver to and acceptance by RWQCB
7	**Eval. Current Site Cond.**
8	Riew existing reports
9	Prepare summary of info.
10	**Eval. Human-made Conduits.**
11	Review of engineering plans
12	Well survey
13	Geophysical survey
14	Prepare summary of info.
15	Workplan Addendum
16	Deliver addendum to RWQCB
17	Review and acceptance by RWQCB
18	**Access Agreements and Permiting**
19	Rifkin Property
20	Southern Pacific Railroad
21	Meyers Drum Property
22	Harcros Property
23	Temescal Creek
24	**Rifkin Property Investigation**
25	Pre-field work activities (utility clearance)
26	CPT borings
27	Soil and Groundwater sampling
28	Monitoring well-install, develop, and sample
29	Prepare summary of info.
30	**Northwestern Area Investigation**
31	Sediment sampling
32	Piezometer installation
33	Outfall mapping and inspection
34	Tidal study
35	Ballast sampling
36	**Southern Area Investigation**
37	EnviroCore borings
38	Monitoring well installation
39	**B-Zone Investigation**
40	CPT borings
41	EnviroCore borings
42	Monitoring well installation
43	**Inside Slurry Wall Investigation**
44	piezomter installation
45	**Report**
46	Data Evaluation
47	Risk Management Evaluation
48	Report prep

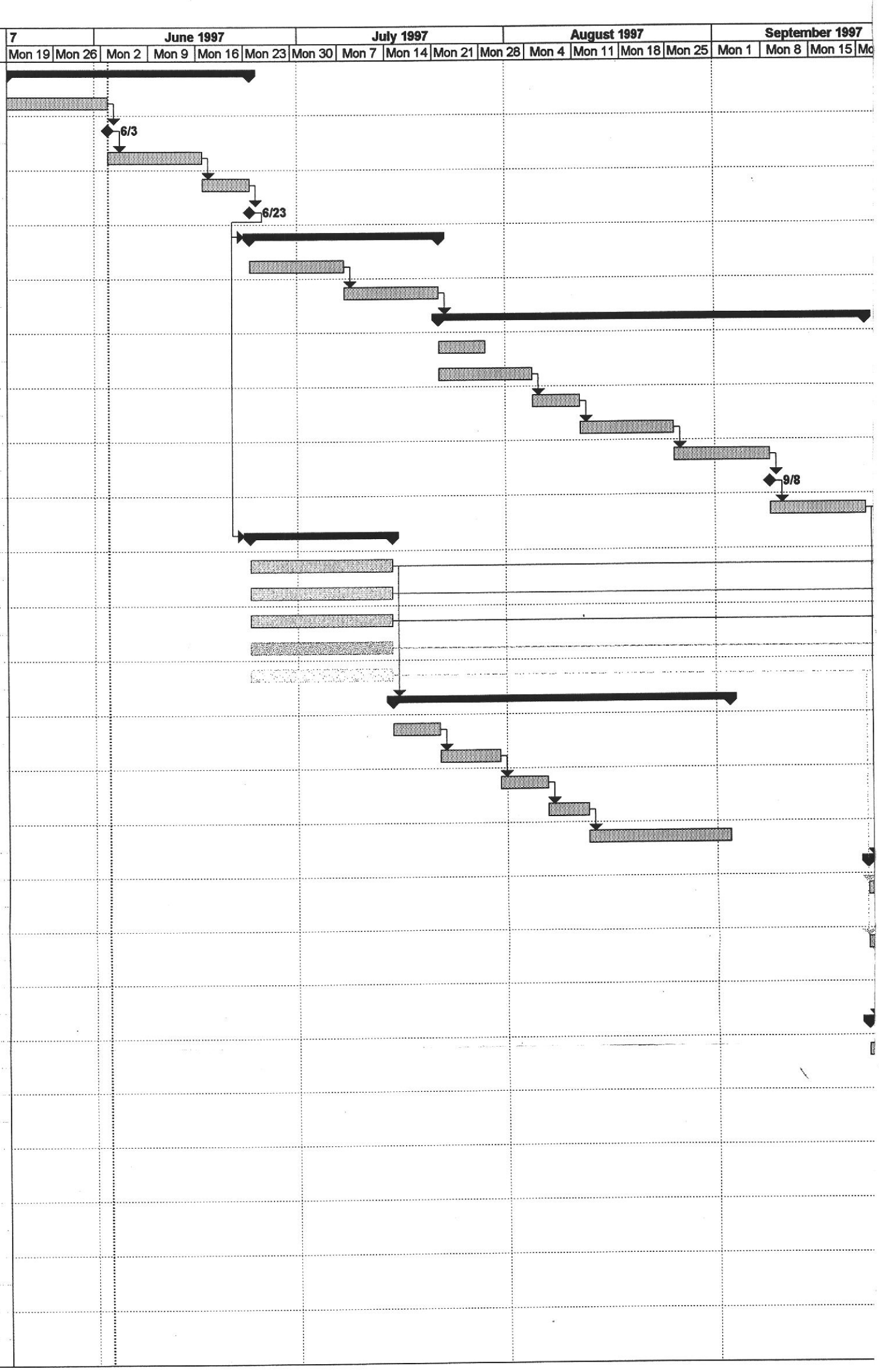
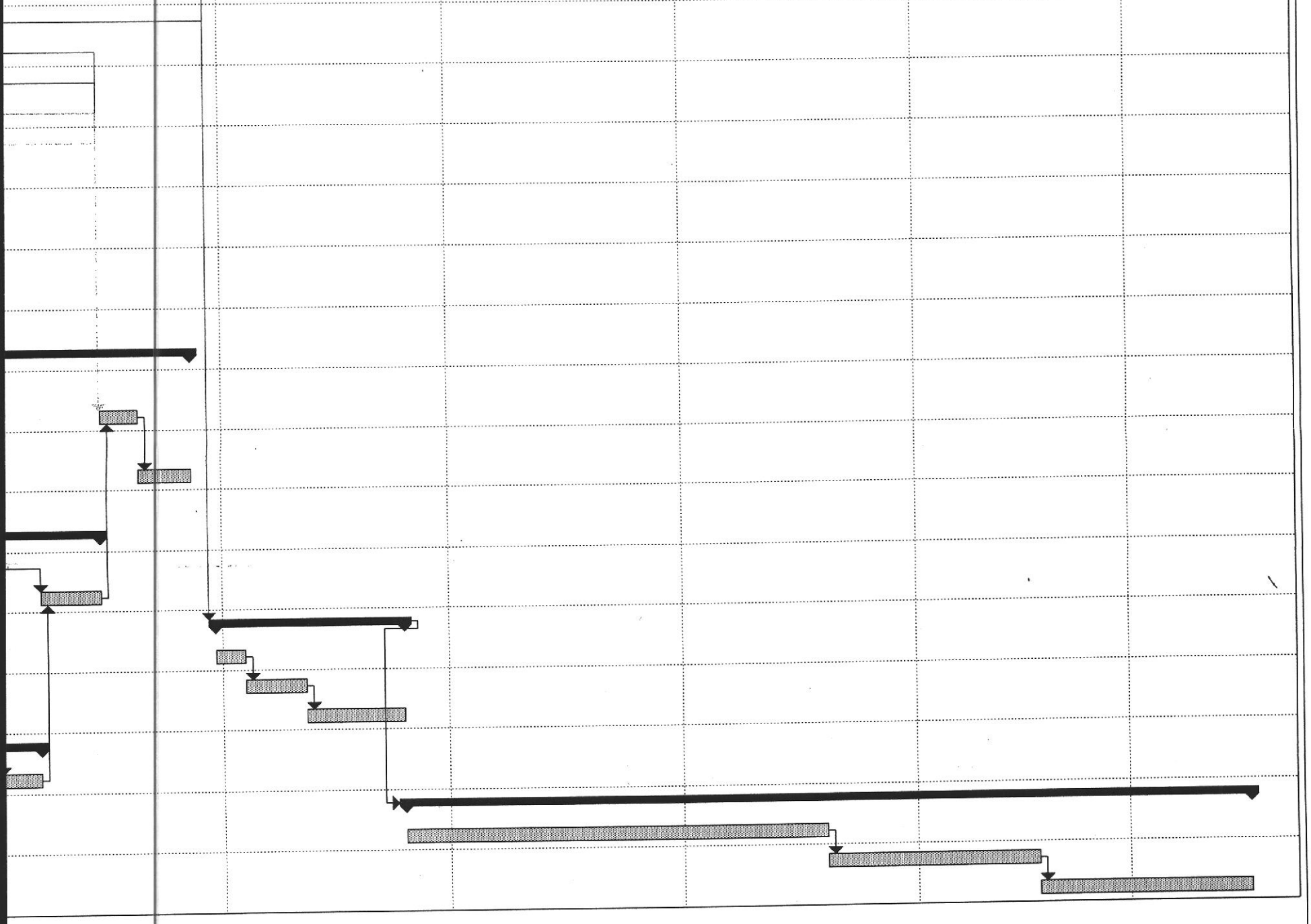


Figure 8. Work Pla

October 1997				November 1997				December 1997				January 1998				February 1998				March 1998		
9	Mon 6	Mon 13	Mon 20	Mon 27	Mon 3	Mon 10	Mon 17	Mon 24	Mon 1	Mon 8	Mon 15	Mon 22	Mon 29	Mon 5	Mon 12	Mon 19	Mon 26	Mon 2	Mon 9	Mon 16	Mon 23	Mon 2	Mon 9	Mon 16



tation Schedule

Appendix D

Work Plan for Expansion of Existing Groundwater Remedial System, Dated November 7, 1996

November 7, 1996

3042.95-005

via Federal Express

Mr. Sumadhu Arigala
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster St., Suite 500
Oakland, California 94612

Subject: Work Plan for Expansion of Existing Groundwater Remedial System on Former Rifkin Property, Emeryville, California

Dear Sum:

Levine·Fricke·Recon Inc. (LFR; formerly Levine·Fricke and Recon Environmental) has prepared this work plan on behalf of the Sherwin-Williams Company (Sherwin-Williams). This work plan presents the scope of work associated with the expansion of the existing groundwater remedial system on the former Rifkin Property in Emeryville, California ("the Site"). The existing groundwater remedial system is currently in operation at the Sherwin-Williams facility adjacent to the Site. The existing groundwater remedial system consists of a groundwater extraction and treatment system (GWETS) operated in conjunction with a slurry wall that serves as a physical hydraulic barrier to contain affected groundwater at the Sherwin-Williams facility.

For the purposes of this work plan, a remedial option has been proposed for immediate implementation at the Site (Figure 1). The selected remedial option consists of an expansion of the existing Sherwin-Williams GWETS to the Site to act as a hydraulic barrier, as well as extraction of contaminated groundwater. This expansion requires the installation of three groundwater extraction wells, conveyance piping for extracted groundwater, supplied air to operate the groundwater extraction pumps, and associated equipment and appurtenances such as well vaults and valves.

The GWETS expansion will be installed during the period of property development after the demolition of the Rifkin building but prior to construction of the surface parking lot.

TASKS

The scope of work associated with the expansion of the existing groundwater remedial system includes the following tasks:

- groundwater flow modeling
- engineering design for GWETS expansion
- extraction well installation and development
- regulatory interface and permitting
- system construction

- start up of expanded GWETS
- disposal of waste soils from well installation
- project management and reporting

Task 1: Groundwater Flow Modeling

The objective of this task is to delineate the required area of capture for the proposed groundwater extraction wells in order to contain the arsenic plume at the Site. The selection of the proposed locations of the groundwater extraction wells was based on the limited access for well placement due to physical constraints and plans for future development of the Site. Existing data will be analyzed and used to create a two-dimensional groundwater flow model. The model will simulate capture areas to evaluate two different extraction well pumping schemes. A short memorandum will be prepared to describe the results of the model simulations and the estimated area of capture for each scheme.

Task 2: Engineering Design for GWETS Expansion

This task includes the following activities:

- layout and design of a conveyance piping network for supplied air and extracted groundwater, which will be connected to the existing GWETS
- specification of pneumatic extraction well pumps, valves, pulse counters, piping, hoses, and other appurtenances
- design of wellheads and junction boxes
- design of connection to existing GWETS
- design of trenches, backfill, and resurfacing as necessary
- design of modifications to the existing GWETS
- preparation of engineering plans and specifications

Task 3: Extraction Well Installation and Development

A subcontractor who locates underground utilities will identify the locations of subsurface structures and utility lines in the vicinity of each proposed well location before drilling activities begin.

Three A-zone extraction wells (EX-4, EX-5, and EX-6) will be completed to a depth of approximately 25 feet below ground surface (bgs) using the hollow-stem auger drilling method. Soil samples will be collected continuously for characterization of subsurface lithology. Soil samples and drill cuttings will be monitored with an organic vapor meter (OVM) to assess for the presence of volatile organic compounds (VOCs) in the soil for health and safety purposes. Drilling and sampling equipment will be steam cleaned before use at each well location.

A-zone extraction wells will be completed with 5-inch-diameter stainless steel casings in 10-inch-diameter boreholes, with a maximum of 20 feet of slotted screen extending from approximately 5 to 25 feet bgs. After a well casing has been placed in a completed borehole, the well annulus opposite the perforated interval will be backfilled with clean sand to approximately 2 feet above the top of the perforations. The grain-size distribution of the sand pack will be selected for compatibility with the selected slot size of the well screen. Approximately 2 feet of bentonite pellets will be placed above the sand pack to isolate the perforated interval from material above and inhibit the entrance of grout into the sand pack. A cement-bentonite grout will be placed in the remainder of the borehole. A locking, traffic-bearing cover will then be placed over the top of the casing to protect the integrity of the well.

Soil cuttings generated during drilling will be stored at the Sherwin-Williams site in 55-gallon drums until an appropriate disposal method can be determined pending analytical results.

Top-of-casing measurements and horizontal location for the new extraction wells will be recorded by a licensed surveyor. Collection of water-level measurements and development of the newly installed wells will occur after well installation. Groundwater levels will be measured from the top of the casing to the groundwater surface using an electronic water-level probe attached to a measuring tape graduated to 0.01-foot intervals.

The newly installed wells will be developed by bailing, swabbing, and pumping to remove sediment from around the well and to enhance hydraulic communication with the surrounding formation.

During well development, approximately 10 well volumes of water will be purged from each well. Specific conductance, pH, and temperature will be measured and observations concerning the quantity and clarity of purged water will be recorded during purging to assist in the evaluation of groundwater quality. After well development, the water level in the well will be measured. All developing and sampling equipment will be steam cleaned before use at each well.

Groundwater generated from well development will be discharged into the existing groundwater treatment system.

Task 4: Regulatory Interface and Permitting

This task includes preparation of permit applications and other documents, coordination with agency representatives, response to agency comments, and addressing regulatory issues that arise during construction and design of the system expansion.

These will include: (1) permits from the Alameda County Flood Control and Water Conservation District (Zone 7) before drilling and installation of the proposed extraction wells begins; and (2) a building permit (if required) from the City of Emeryville. The California Regional Water Quality Control Board (RWQCB) will be notified of the GWETS expansion; however, modification to the NPDES permit is not expected to be required because the overall treatment system flow should not exceed 12 gallons per minute.

Task 5: System Construction

This task includes preparation of bid and contract documents, selection of a general contractor to install the expansion to the existing GWETS, preparation of a health and safety plan, installation of the GWETS expansion at the Site, and monitoring of construction activities.

The general contractor will install the well vaults and junction boxes, pneumatic extraction well pumps and other wellhead components, valves, piping, hoses, and connection to the existing GWETS. A construction engineer will be at the Site for the start of construction work and periodically during field construction activities. The construction engineer will monitor the contractor's work to verify that the requirements of the contract documents are fulfilled.

The construction engineer will prepare construction reports describing the progress of the contractor's work, equipment, personnel, weather conditions, and other pertinent information applicable to construction. The construction engineer will also prepare correspondence to the contractor regarding technical and contractual issues, as necessary. Photographs will be taken to further document the progress of the contractor's work. The resident engineer will review shop drawings and submittal data on materials and equipment supplied by the contractor to confirm that these items comply with the specifications.

Task 6: Start Up of Expanded GWETS

This task will provide for the start up of the expanded GWETS. Engineering technicians will implement necessary modifications to the existing GWETS prior to start up of the expanded GWETS. Necessary modifications may include the installation of additional filters and valves, and the implementation of control modifications at the treatment system.

Upon start up, technicians will observe the condition and flow rate of groundwater extracted from each of the new extraction wells at the Site. Influent samples will be collected from each well and submitted to a California-certified laboratory for analysis. Based on this data, operational parameters at the treatment system will be adjusted to maintain effective treatment of groundwater from the expanded extraction system. Increased operation and maintenance will be required during this initial start-up period.

Task 7: Disposal of Waste Soils from Well Installation

This task will provide for the characterization and disposal of waste soils that will be produced during the construction of the expanded GWETS.

Soil cuttings generated during well installation will be stored on-site in 55-gallon drums. A composite sample will be collected from the drums and analyzed by a California-certified laboratory for characterization. An appropriate disposal method for the soil will be determined based on the analytical results.

This task will not provide for the disposal of waste soils from trenching activities on the Rifkin Property. It is assumed that trenching will be performed in relatively shallow soils above groundwater at the Site and that activities at the Sherwin-Williams facility have not impacted these soils. The waste soil from trenching activities will be utilized for backfill of the piping to be placed in the trench.

Task 8: Project Management and Reporting

This task will allow for project management and reporting associated with the expansion of the GWETS. Typical project management tasks include scheduling, project oversight, client updates, additional regulatory interface, budget management and cost tracking, subcontractor and vendor management, and interface with Chiron Corporation. The reports to be prepared include a GWETS expansion construction report and a start-up report for the expanded GWETS for submittal to the RWQCB.

Please feel free to contact me at (510) 652-4500 or Dave Gustafson of Sherwin-Williams at (216) 566-3144 if you have any comments or questions about this work plan.

Sincerely,

Mark D. Knox

Mark D. Knox, P.E.
Principal Engineer

Enclosure

cc: Dennis Mishek, RWQCB
Steve Morse, RWQCB
Susan Hugo, Alameda County Health Agency
Ric Notini, Chiron
Vera Nelson, EKI
Dave Gustafson, Sherwin-Williams
Larry Mencin, Sherwin-Williams

FOUNDATION FOR FUTURE HIGHRISE BUILDING

FOUNDATION FOR PARKING GARAGE

HORTON STREET

WAREHOUSE

SHOP

BOILER HOUSE

EX-3

HORTON STREET BY-PASS

CONNECTION TO EXISTING EXTRACTION PIPING BACK TO TREATMENT SYSTEM

TEMESCAL CREEK

EX-2

EX-1

IMPERVIOUS CAP WITHIN SLURRY WALL

EXTRACTION PIPING

NPDES STORM SEWER OUTFALL

WAREHOUSE

SLURRY WALL COMPLETED IN 1994

EXPLANATION

- Existing slurry wall
- Pile cap
- Property boundary
- Proposed extraction piping
- Existing extraction piping
- Containment area ground-water extraction well location
- Proposed ground-water extraction well
- Extraction piping/air line junction

0 30 60 FEET

C:\ACAD12\3042\OPTION-4.DWG GM 022896

Figure 1 :
EXPANSION OF EXISTING GROUNDWATER REMEDIAL SYSTEM ON FORMER RIFKIN PROPERTY

Project No. 3042

LEVINE·FRICKE
ENGINEERS, HYDROGEOLOGISTS, & APPLIED SCIENTISTS

APPENDIX E

STANDARD OPERATING PROCEDURES

1.0 INTRODUCTION

This appendix provides detailed descriptions of Standard Operating Procedures (SOPs) to be used during the field investigation to be conducted at the Site. These SOPs are intended to be used by the field investigation team for field activities conducted at the Site. The Work Plan describes the specific field activities that will be performed at the Site. This appendix is to be read in conjunction with the Work Plan and the other appendices in the Work Plan.

2.0 CONE PENETRATION TESTING BORINGS

Cone penetration testing (CPT) borings will be advanced to assess physical characteristics of the following shallow and deeper sediments at the Site. Data collected from CPT borings are used to identify lithologic units using an instrumented probe, with a conical tip and friction sleeve. These devices measure various geologic, geotechnical, and hydrologic parameters, by correlating resistance on the cone tip; frictional resistance along the cylindrical friction sleeve; probe inclination; and pore water pressure. The data generated from the CPT borings will be used to identify changes in subsurface lithology.

The CPT probe, which is attached to a string of steel pipe segments, will be advanced using a truck-mounted, hydraulic ram with a maximum reaction of 25 tons. The probe will be advanced at an approximate rate of 2 centimeters per second, while measurements are recorded continuously and relayed directly to an on-board computer. Lithologic and hydrologic data based on cone tip resistance, sleeve friction, probe inclination, and pore water pressure measured by the cone-tipped probe are printed out by the computer as the probe advances. When the desired depth is reached, the CPT probe and the string of steel pipe segments will be removed from the borehole and the open CPT boring will be grouted to approximately 1 to 2 feet bgs with a cement/bentonite slurry using a tremie pipe. The remainder of the boring will be filled with topsoil or pavement to provide an even surface.

For CPT borings drilled into deeper zones, the "grout collar" method of backfilling the boring will be used as an extra precautionary measure, in an attempt to prevent potentially affected materials in shallow groundwater from being transported to deeper groundwater zones during the advancement of the CPT boring. The "grout collar" method is implemented by placing a rubber seal at the ground surface of the borehole. Grout is then injected from the CPT tip as the CPT cone and rods are advanced through the sediments. Grout is also injected as the CPT cone and rods are removed from the borehole to approximately 1 to 2 feet bgs with a cement/bentonite slurry using a tremie pipe. The remainder of the boring will be filled with topsoil or pavement to provide an even surface.

3.0 SOIL BORING AND SOIL SAMPLING PROCEDURES USING THE HOLLOW-STEM AUGER DRILLING METHOD

Soil borings will be advanced using the hollow-stem auger drilling method. All equipment that will be used in the borehole during the drilling process will be washed with high pressure hot water (steam cleaned) before use at each investigation location.

3.1 Soil Boring Drilling Procedures

The hollow-stem auger drilling method consists of a truck-mounted, drill rig rotating tubular steel augers into the soil. The augers consist of a hollow axle with steel flights spirally welded on the outside. A hollow drill bit is attached to the first auger that is advanced into the soil. The hole in this bit is plugged during drilling with a solid steel plug or a continuous core barrel soil sampler. As the augers are rotated into the soil, the sediments encountered in the middle of the boring are forced into the continuous core barrel sampler, and the sediments encountered on the outer edges of the bit and lead auger are cut and conveyed to the ground surface via the outer flights of the auger. The continuous core barrel which is connected to the drill rig by steel drill rods or cable, is extracted from the bit and lead auger whenever a new section of auger is added (typically every 5 feet), or more often depending on the soil sampling procedures and on the recovery success experienced. This drilling method allows soil sampling and completion of the monitoring well to be conducted inside the augers while the boring remains open. The augers are slowly removed from the borehole as the monitoring well casing, sand, bentonite, and/or grout are added from the bottom up.

After all of the soil samples have been collected and the lithology of the boring is logged, the boring will be abandoned and sealed with a cement/bentonite slurry. Depending on the total depth of the boring the slurry will be pumped into the boring through a tremie pipe placed in the bottom of the boring or poured into the top of the open boring, and the boring will be filled to approximately 1 to 2 feet bgs. The remainder of the boring will be filled with topsoil or pavement to be provide an even surface.

3.2 Soil Sampling

Subsurface soil samples will be collected during hollow-stem-auger drilling for chemical analysis, physical parameter analysis, field screening for organic vapors using a photoionization detector (PID), and/or lithologic description. Soil samples to be analyzed for their physical parameters or the presence of chemicals will be collected using a continuous core barrel sampler and/or a modified California sampler lined with clean clear acetate or brass tubes. Soil samples collected for field screening and lithologic description will be collected in an unlined continuous core barrel sampler.

During drilling, soil samples will be collected on a continuous basis using a nominal 60-inch-long continuous core barrel of appropriate diameter. At locations where soil

samples may be retained for laboratory analyses, the continuous core barrel will be lined with 6-inch-long clear acetate or brass tubes. Continuous soil samples will be collected as the soil boring is advanced. The shoe of the sample barrel will extend out in front of the lead auger bit as the boring is advanced, allowing the sample barrel to be filled with relatively undisturbed material during the drilling process.

When the continuous core barrel is extracted from the borehole, each core will be opened to expose the acetate or brass tubes. The core will be examined and lithologically logged. Soil will be lithologically logged either by extruding the soil from the tube or, if the sediment cannot be extruded, examining and logging both ends of the tube. Samples retained for chemical or physical analysis will be capped.

Soil samples for possible laboratory analysis and/or lithologic description will be collected at regular intervals, to be determined by the project manager, using a split-spoon sampler at borings drilled using the hollow-stem-auger drilling method. The split spoon sampler will be either 18 or 24 inches long and either 2 or 3 inches in diameter. The sampler will be lined with either a brass, stainless steel, or butyl sampling tube. The choice of sample tube will be determined based on the analyses requested. To collect the samples, the sampler will be driven 18 or 24 inches into undisturbed soil using a nominal 140 pound hammer dropped 30 inches. Blow counts required to drive the sampler 6-inches will be recorded on the lithologic log form. Samples will be handled and retained using the same methods described for samples collected using the core barrel.

4.0 ENVIROCORE SAMPLING

Soil and groundwater samples are proposed to be collected using the EnviroCore sampling method. Samples will be collected by pushing hollow steel rods into the subsurface using a hydraulic jack hammer system. The hollow rods consist of an inner sampling rod and an outer rod, which serves as a temporary drive casing. During soil and groundwater sampling, these two sets of rods will be nested together and driven into the soil simultaneously. The inner sampling rod will obtain and retrieve the soil cores. The outer rod will remain in place during sampling to prevent collapse of the boring.

4.1 Soil Sampling

Soil samples for lithologic description and possible chemical analysis will be collected from the borings advanced using the EnviroCore technique. Samples collected during drilling will be screened for organic vapors using a PID and described using the Unified Soil Classification System. The PID readings and soil descriptions will be recorded on field boring log forms.

Soil samples will be collected for lithologic description and possible chemical analysis using a clean 3-foot-long sample barrel attached to the inner sampling rods. Dependent on the analyses requested, the sample barrel will be lined with either a brass, stainless, or butyrate liner. After the sample barrel has been driven 3 feet into the soil, the soil sample will be retrieved using a hydraulic winch. After sample retrieval, a new, clean sample barrel will be attached and the inner rods will be placed back into the borehole. Additional 3-foot-sections of inner and outer rods will then be attached and the sampler driven another 3 feet into the soil.

After collection, the soil sample contained in the liners will be removed from the sampler. The sample will be visually inspected and logged by cutting open the butyrate liner at specific intervals. The soil sample liners retained for chemical analysis will be immediately sealed with Teflon tape, fastened with a plastic cap, labeled, and placed into a chilled ice chest for transport to the analytical laboratory following strict chain-of-custody protocols.

After the desired depth has been reached, the borehole will be sealed with cement/bentonite grout. The grout will be pumped into the borehole through a small tube inserted into the outer rods. The outer rods and tubing will then be removed as the grout fills the borehole from the bottom to the ground surface.

4.2 Groundwater Sampling: First Encountered Groundwater

When the first groundwater bearing zone is encountered during EnviroCore sampling, the sample barrel and inner rods will be removed and the drive casing will be pulled up approximately 3 feet to allow groundwater to flow into the borehole. A grab groundwater sample will then be collected by lowering a clean Teflon or stainless steel bailer into the groundwater.

Groundwater samples will be poured from the bailer into laboratory-supplied sample containers, labeled with the boring identification number, the time and date of collection, the analysis requested, and the name of the sampler. The samples will be stored in a chilled ice chest, and maintained under strict chain-of-custody protocols until submitted to the analytical laboratory.

4.3 Groundwater Sampling: Deeper Groundwater

When the deeper groundwater bearing zones are encountered during EnviroCore sampling, samples are proposed to be collected in the following manner: At each deeper interval, the sample barrel and inner rods will be removed and nominal 1-inch diameter polyvinyl chloride (PVC) well casing and screen (5 to 10 feet in length) will be inserted through the drive casing to the base of the boring. The drive casing will be pulled up approximately 3 feet to allow groundwater to flow into the PVC screen. A grab groundwater sample will then be collected by lowering a clean Teflon or stainless steel bailer into the PVC casing.

Groundwater samples will be poured from the bailer into laboratory-supplied sample containers, labeled with the boring identification number, the time and date of collection, the analysis requested, and the name of the sampler. The samples will be stored in a chilled ice chest, and maintained under strict chain-of-custody protocols until submitted to the analytical laboratory

5.0 LITHOLOGIC LOGGING AND DOCUMENTATION

Continuous soil cores and soil samples will be collected for lithologic description. Soil type and characteristics will be examined and described by a geologist or engineer, who will maintain a complete record of these descriptions on a lithologic log. Sediments will be described in accordance with the Unified Soil Classification System. At a minimum, the following information will be recorded, as appropriate, on the log:

- project name and location
- soil boring location
- sampling depth
- sediment classification
- sediment color
- moisture condition of the sediment
- percentage of fine-grained material (clay and silt), sand, and/or gravel, if it is present
- sediment odor (if noticed incidentally and consistent with health and safety precautions)
- PID or flame ionization detector (FID) field measurements
- descriptive comments, including obstacles encountered or other drilling difficulties
- depth to first encountered groundwater
- depth to stabilized groundwater (if possible)
- depth of fill material (if present)
- depth to bedrock (if encountered)
- supervising geologist/engineer's signature and date

A California Registered Geologist or Professional Engineer will review and approve the lithologic logs.

5.1 Field Screening of Soil Samples

Selected soil samples will be field screened for the presence of organic vapors. The concentration of organic vapors will be measured with portable field monitoring equipment and will provide semi-quantitative data. Portable field monitoring equipment may include, but is not restricted to, a PID or an organic vapor analyzer (OVA) equipped with a FID.

The selected soil sample will be placed in a glass jar or plastic bag. The lid of each jar will have a hole slightly larger than the PID or FID probe. After the jar with the soil sample is shaken and allowed to stabilize for approximately 5 minutes, the PID or FID probe will be inserted into the hole in the lid and through the aluminum foil sheet. If the plastic bag is used, the soil sample will be shaken and allowed to stabilize for approximately 5 minutes, and the PID or FID probe will be placed directly through the bag. The maximum reading detected by the PID or FID will be noted in the bound field log book and on the lithologic logs.

5.2 Soil Sampling For Laboratory Analyses

The continuous core barrel sampler and modified California sampler will be decontaminated in accordance with the procedures in this Appendix. Only new, clean sample tubes will be used for sample collection.

Soil sampling for laboratory analyses will be performed in accordance with ASTM Method D-4547. For example, the modified California sampler (or continuous core barrel sampler) will be opened without being shaken, the liners will be separated from each other using a clean, flat tool such as a putty knife, and then removed from the sampler.

Samples will be selected for chemical analysis based on lithology, visual observations, and field instrument readings. Final decisions regarding the submittal of soil samples for fixed laboratory analysis will be based on site conditions. Teflon tape will be placed on both ends of the soil sample tubes selected for chemical analysis and a plastic cap will be sealed over each end of the tube. The sample will then be labeled and placed in an ice-chilled cooler for shipment to the laboratory under strict chain-of-custody protocol described below.

6.0 GROUNDWATER MONITORING WELL INSTALLATION PROCEDURES

Groundwater monitoring wells are currently anticipated to be installed in first encountered groundwater and deeper groundwater. All wells will be installed by the hollow-stem auger drilling method. Deeper wells will be double-cased with conductor casing installed to seal the shallow sediments.

6.1 Groundwater Monitoring Wells: First Encountered Groundwater

When the nominal 8- or 10-inch diameter borings are advanced to the desired depth, monitoring wells will be constructed in them by placing the well casing and screen inside the hollow-stem auger. Materials used to fill the annular space between the well casing and the borehole wall, consisting of filter sand, bentonite, and cement/bentonite grout, will be added as the hollow-stem augers are removed from the boring. This process will ensure that the boring remains open and well materials are properly placed in the boring.

The annular space between the well casing and the inside of the hollow-stem augers will act as a tremie pipe for the placement of the sand pack and bentonite pellets. The cement seal will be pumped into place through a tremie pipe.

Well casings will be constructed of 2-inch diameter PVC pipe. Well screens will consist of continuous slot PVC. The sand filter pack size and the size of the well screen slots will be selected to minimize passage of sand filter pack material through the screen and inhibit movement of fine-grained material from the formation into the well. The filter pack will extend no more than 2 feet above the top of the screened interval. Approximately 2 feet of bentonite pellets will be placed on top of the filter pack and the remaining annular space above the sand pack will be completely filled by tremie grouting or pouring with a cement/bentonite seal, for the entire length of the borehole. A locking well cap will then be placed over the top of the casing to protect the integrity

6.2 Groundwater Monitoring Wells: Deeper Groundwater

The deeper monitoring wells will be double-cased using the hollow-stem auger method. A 12-inch-diameter borehole will be drilled to the top of the fine-grained interval which separates the shallow and deeper water-yield intervals. An 8-inch-diameter steel conductor casing will be placed in the borehole and pushed approximately one foot into the fine-grained interval to prevent potentially affected shallow groundwater from being conveyed into the deeper groundwater during well construction. The conductor casing will be assembled using carbon steel welded together in the field to the required length. The conductor casing will be cemented in place using a neat cement grout with approximately 5 percent bentonite. The cement grout will be allowed to set for approximately 24 hours before drilling resumes.

After the conductor casing annular seal grout has cured, the water or drilling material inside the conductor casing will be pumped out, and the conductor casing will be flushed with potable water. When the flushing process is completed, the remaining water will be pumped out of the conductor casing. A boring will then be drilled with 6-inch hollow-stem augers through the conductor casing into the deeper zone, estimated to be 40 feet bgs. The deeper monitoring wells will then be completed with 2-inch-diameter PVC casing, with a maximum of 10 feet of slotted screen to approximately 40 feet bgs using methods as described for the shallow wells.

7.0 MONITORING WELL DEVELOPMENT

All newly installed wells will be developed a minimum of 12 hours after well installation. Wells will be developed by first surging the screened interval using a surge block and then bailing the well to remove the suspended sediment. This process will be repeated until the well shows significant decrease in sediment.

Wells will then be purged with 2-inch submersible pumps. During well development, field parameters (pH, temperature, conductivity, and turbidity) will be monitored at every purge volume. Well development will be discontinued when pH, temperature, and conductivity have stabilized (within 15 percent of the previous measurement), and the purge water contains relatively little sediment. Information will be recorded on water quality sampling information forms.

Groundwater purged during well development will be temporarily stored on site and pumped through the on-site groundwater treatment system. Pumps and other downhole equipment will be decontaminated between wells by steam cleaning.

8.0 GROUNDWATER SAMPLING

Groundwater samples will be collected from each well installed during the investigation. Existing site monitoring wells are sampled on a quarterly basis, as part of the periodic monitoring program. As new wells are installed, they may be added to the periodic monitoring program. Monitoring wells will be sampled no sooner than 24 hours after well development.

Well Purging. To assure representative sample collection, the monitoring wells will be purged of three to five well casing volumes of water using a 2-inch diameter submersible pump or by hand bailing with a stainless steel bailer, before sampling. The purging pumps will be fitted with backflow prevention valves to prevent purge water from re-entering the wells when the pump is turned off. The tubing fitted to the pump will be laboratory grade polyethylene, and will be dedicated to the specific well in which it is used. Cumulative discharge from each well will be determined either manually (e.g., by periodically filling a bucket of known volume), or through the use of a flow meter attached to the pump's discharge tubing.

Hand bailing will be performed by slowly lowering the bailer into the well on new, or dedicated nylon cord, to the point where the bailer fills with water. The bailer will then be removed from the well and discharged into a container of known volume. This process will be repeated until the desired amount of water has been purged from the well.

Samples will be collected from the discharge during purging and measured for pH, temperature, and specific conductance. These samples will be collected after approximately one well casing volume of groundwater has been purged. The sample

containers in which these field parameters will be measured are wide-mouthed jars. If the pH, temperature, and specific conductance stabilize to within 15 percent for two successive samples after three well casing volumes of groundwater are removed, and the water is relatively clear or free of sediment, purging will stop and the groundwater sample will be collected. If the field parameters have not stabilized after five well volumes have been removed, purging will stop and the water samples will be collected. The field parameters will be recorded on the water quality sampling information form. Purged water will temporarily be stored on site and pumped into the on-site groundwater treatment system.

Samples will be collected from the monitoring wells as soon as a sufficient volume of water has recovered in the well and no more than two hours after purging. If a well is pumped dry during purging, it will be allowed to recover to 80 percent of the original volume (or after maximum of 2 hours) and will be sampled. The time required to purge a well will be recorded on the water quality sampling sheet.

Sample Collection. Following well purging, the pumps, tubing, and safety line will be removed from the well. Groundwater will be sampled using a clean Teflon, stainless steel, or new disposable polyethylene bailer. The bailer will be lowered into the well using a new length of nylon rope.

The final depth to water at the time of sample collection will be recorded on a water quality sampling information form.

The samples will be placed in appropriate sample containers, capped, labeled, and stored in a sample cooler that has been chilled to 4 degrees Celsius. The samples will be transported to the analytical laboratory following the protocol established in these SOPs.

Samples designated for laboratory analysis will be collected in appropriate laboratory-supplied containers. Collected samples will be recorded on the water quality sampling information forms. All samples will be labeled with the collector's initials, a unique sample identification number (well identification), time of sampling, date, location, sample type, analytical method, and preservative used. Complete chain-of-custody forms will accompany the samples to the designated laboratory.

9.0 SAMPLE CUSTODY AND DOCUMENTATION

Sample custody and documentation consists of proper sample identification, completed sample labels and sample collection data forms, and completed chain-of-custody forms. These forms will be completed using indelible ink.

Field documentation is described in detail below.

9.1 Sample Containers, Preservation, and Holding Times

The appropriate sample containers and preservation will be used. All sample vials and bottles containing preservatives will be labeled by the laboratory before samples are collected. With the exception of samples that require special handling and preservation, all samples will be stored in coolers chilled to 4 degrees Celsius for shipment to the appropriate analytical laboratory. Sample containers will not be reused. All samples will be analyzed by the analytical laboratory before the holding time for the specific chemical analysis is exceeded.

9.3 Sample Labels

A sample label will be completed and attached to each sample container for every sample collected. Labels consist of a waterproof material backed with a water-resistant adhesive. Labels are to be filled out using waterproof ink, and are to contain at least the following information:

- sampling date and time
- sample identification number
- investigation location
- preservatives, if any
- sampler's initials
- analyses to be conducted

9.4 Groundwater Sample Collection Data Forms

During ground well development, well purging, groundwater sampling, and water-level measurement field activities, appropriate field log forms will be completed by the individual collecting the data for each monitoring well. These forms will contain pertinent project and well location information.

The following information will be entered on the sample collection data form at the time of sampling:

- project name and number
- investigation location
- well identification number
- sampler's initials
- time and date of sampling
- sampling method

- sample identification number
- volume of each sample container
- laboratory analyses requested
- purged volume
- well depth and diameter
- observable water conditions (e.g., color, odor [if noticed incidentally and consistent with health and safety precautions], clarity)
- groundwater level before and after sampling
- field conditions (e.g., recent precipitation, ambient temperature)
- equipment used
- indicator parameter measurements (pH, temperature, specific conductance, turbidity)

9.5 Chain of Custody

chain-of-custody will be prepared for groups of samples collected at a given location on a given day. Each chain-of-custody will be prepared in quadruplicate and will accompany every shipment of samples to the laboratory.

Two of the four copies (white and green) will accompany the samples to the laboratory. The yellow copy will be kept in the QA/QC file, and the pink copy will be retained in the project file. The chain-of-custody form makes provision for documenting sample integrity and the identity of any persons involved in sample transfer. Information entered on the chain-of-custody will consist of the following:

- project name and number
- field logbook number
- chain-of-custody serial number
- project location
- sample numbers
- sampler/recorder's signature
- date and time of collection of each sample
- collection location
- sample type
- analyses requested
- inclusive dates of possession
- name of person receiving the sample
- laboratory sample number
- date of receipt of sample
- name, address, and telephone number of laboratory

9.6 Sample Shipment

The method of shipment may be hand delivery by field personnel, laboratory courier, or commercial shipping services (such as UPS or Federal Express). The method of sample shipment will be noted on the chain-of-custody. If samples to be kept cool are to be held for longer than 24 hours, the samples will be placed in a refrigerator or similar insulated cooling container and maintained at 4 degrees Celsius.

9.7 Laboratory Custody Procedures

The laboratory will designate a sample custodian, who will accept custody of the shipped samples and check that the information on the sample label matches that on the chain-of-custody form(s). The custodian will then enter the appropriate data into the laboratory sample tracking system. The custodian will use the sample number on the sample label or will assign a unique laboratory number to each sample. The custodian will then transfer the sample(s) to the proper analyst(s) or store the sample(s) under refrigeration (if required) until they are analyzed.

Laboratory personnel are responsible for the care and custody of samples from the time they are received until the sample is exhausted or disposed of. Disposal of unused samples will be the responsibility of the laboratory and must comply with all applicable federal, state, and local environmental regulations. All data sheets and laboratory records will be retained as permanent documentation.

10.0 DECONTAMINATION PROCEDURES

10.1 Equipment Decontamination

All equipment used during investigation/remedial activities that could come into contact with potentially chemically affected materials will be thoroughly cleaned, before and after each use, by washing with high pressure hot water and/or washing with Alconox (a laboratory-grade detergent) and rinsing with deionized, distilled, or fresh water. Decontamination procedures may be modified and/or revised based upon the data obtained.

In between soil sampling intervals, the soil samplers will be cleaned with an Alconox solution and potable water. Before each drilling operation, any portions of the rig that may come in contact with sampling materials will be washed with high pressure hot water.

Groundwater sampling and field equipment will be decontaminated as follows:

- Accessible exterior and interior portions of groundwater pumps will be washed using high pressure hot water or washed with an Alconox solution before use at

each sampling location. Unreachable interior pump areas will be cleaned either by flushing near-boiling clean water through the pump and discharge lines (bladder pump), or by flushing the pump and discharge lines with an Alconox solution and rinsing with clean water.

- Teflon or stainless steel bailers will be washed with high pressure hot water or washed with an Alconox solution and rinsed with clean water before use at each sampling location. Bailer ropes will be replaced after use in each boring or well/piezometer and, while in use, will be protected from contact with the ground or chemically affected equipment and/or skin.
- Well screens will be washed with high pressure hot water before use. A new well screen will be used at each location.

11.0 SITE SURVEYING

A ground survey will be conducted by a land surveyor licensed in the State of California. A survey and mapping coordinate system will be developed, which will include the establishment of a permanent benchmark at the Site. Site base and vicinity maps will be produced from existing site maps and site surveying activities. The survey and mapping system will be based on a grid system. Horizontal control will be based on the California Coordinate System.

All existing and new groundwater monitoring wells, extraction wells, soil borings, CPT boring locations, and other investigation locations or other pertinent investigation features will be located in both the vertical (z) and both horizontal (x, y) planes. The horizontal control will be surveyed to the nearest half (0.5) of a foot. The vertical control will be surveyed to the nearest hundredth (0.01) of a foot. In addition, the elevations of tops of well casings and tops of well monument covers will be established to the nearest hundredth (0.01) of a foot at each monitoring well. The tops of well casings will be clearly marked with a surveyed punch mark on the north side of the top of the casing of each of the monitoring wells.

12.0 TIDAL INFLUENCE MONITORING

Tidal influence monitoring well selection and field methods and data collection are discussed in the following sections.

Monitoring Well Selection and Field Methods

For each test, a temporary surface water monitoring station will be constructed to monitor changes in the water level in Temescal Creek. Barometric pressure and published tide tables for San Francisco Bay will be included in the analysis of the tidal study data.

The criteria used to select monitoring wells for the tidal influence monitoring are proximity to Temescal Creek and existing slurry wall and well location, depth, and subsurface lithology.

Water levels in the wells and surface water station, will be measured using pressure transducers and automated data loggers and electric water level sounding instruments. Water levels will be recorded periodically over a continuous 72-hour period.

Water Level Data Evaluation

The water level data collected during the tests will be evaluated by constructing hydrographs for each monitoring location. These locations will be compared with the surface water monitoring station and the published tide tables for the San Francisco Bay hydrograph.