Phase II Environmental Site Assessment

Former Remington Rand Facility

180 Johnson Street
Middletown,
Connecticut

Prepared for **Economic Development Committee**
Middletown, Connecticut

Prepared by ***VHB*/Vanasse Hangen Brustlin, Inc.**
Watertown, Massachusetts

June 1997

Vanasse Hangen Brustlin, Inc.

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Environmental Services

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June 27, 1997

Ref: 40163

Mr. Gerald Daley, Chairman
Economic Development Committee
The City of Middletown
P.O. Box 1300, Municipal Office Building
245 Dekoven Drive
Middletown, CT 06457-1300

Re: Phase II Environmental Site Assessment
Former Remington Rand Facility
180 Johnson Street, Middletown, CT

Dear Mr. Daley:

Vanasse Hangen Brustlin, Inc. (VHB) is pleased to submit this final report that summarizes Phase II investigation activities and findings for the property captioned above (Site). This report was prepared in accordance with the terms of the City of Middletown's Purchase Order No. 059465 (RFP No. 9697-049). Our submittal is made before the 45-day contractual deadline and fulfills our professional obligations under the current agreement.

Phase II site assessment findings of particular importance to the City's North End redevelopment plans include:

- Adverse environmental impacts at the Site associated with landfill leachate migration from the Municipal Landfill were not identified in the overburden aquifer during this investigation. Water table elevations indicate that local groundwater flows northeasterly toward the Municipal Landfill and adjacent wetland area.

- Ten soil contaminant release areas and two groundwater impact areas have been identified at the Site which will require additional response actions pursuant to the DEP's Remediation Standard Regulations (RSRs). The RSRs provide the City flexibility in addressing existing environmental conditions through contaminated soil excavation, on-site contaminated soil treatment and reuse, and/or institution of Environmental Land Use Restrictions (ELURs) where soil cleanup activities would be prohibitively expensive or technically infeasible.

- Groundwater test results reported solvent constituent concentrations in monitoring wells MW-1, MW-4, and MW-5. Additional investigation activities will be required to assess whether groundwater impacts have resulted from potential on-site migration from hydrologically upgradient property(ies) or past on-site solvent storage. To resolve this issue, we recommend that the City install additional groundwater monitoring wells along the Site's western and southwestern property lines to determine if off-Site solvent release(s) have impacted the Site.

VHB

- A preliminary estimate of probable remediation costs has been developed which projects soil cleanup expenditures at approximately $1.4 million, including environmental engineering fees, anticipated laboratory analytical costs, and a 30% contingency. We have based our soil remediation cost estimate upon achieving applicable RSR Residential Direct Exposure Criteria and Pollutant Mobility Criteria; however, the application of RSR Industrial/Commercial Direct Exposure Criteria and institution of ELURs will reduce actual soil remediation costs incurred during Site redevelopment activities.

VHB appreciates the opportunity to participate in this important urban redevelopment project. As discussed during the June 9 Economic Development Committee meeting, we offer to meet with the Committee at a future date to discuss project-related issues. Please contact David Carlson (617/924-1770, extension 1320) or me with any questions you may have regarding this project. We look forward to providing continuing support to the City on this project.

Very truly yours,

VANASSE HANGEN BRUSTLIN, INC.

James L. Fuda

James L. Fuda, P.E.
Principal

David A. Carlson

David A. Carlson, L.S.P.
Senior Project Manager

JLF/rjr

CC: Alan Hanscom, VHB
File

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Prepared for **Economic Development Committee**
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June 1997

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1

Executive Summary

At the request of the City of Middletown acting through the Economic Development Committee (City), Vannasse Hangen Brustlin, Inc. (VHB) provided environmental consulting services for the Former Remington Rand facility located at 180 Johnson Street in Middletown, Connecticut (Site). VHB undertook a Phase II Environmental Site Assessment in accordance with the Connecticut Transfer Act Site Assessment Standard to support the City's due diligence activities related to the prospective property acquisition.

Suspect areas of environmental concern at the Site were previously identified during a Phase I Site assessment conducted by Soil Science and Environmental Services, Inc. of Cheshire, Connecticut. The Phase II investigation was conducted to assess subsurface conditions associated with suspect contaminant sources, identify regulated building components, inventory miscellaneous containers of hazardous and special wastes, and develop estimates of probable remediation costs.

Based on the results of the subsurface investigation, localized areas of residual soil and groundwater contamination exist at the Site in the vicinity of known and suspect contaminant sources. Laboratory analytical testing confirmed contaminant concentrations that exceed applicable DEP soil and groundwater standards in the following underground storage tank (UST), aboveground storage tank (AST), and waste disposal areas:

- *Right-Of-Way Waste Disposal Area* - Residual TPH, arsenic, copper, and lead contamination in soil/fill.
- *UST 2 Area* - Residual total petroleum hydrocarbons (TPH) contamination in soil. A UST was reported in this area; however, a concrete pad and subsurface piping prevented access to further investigate the UST under the current scope of services.
- *UST 4 Area* - Residual TPH contamination in soil and VOC and zinc contamination in groundwater. The existence of a 500-gallon single-wall steel UST has been confirmed.
- *Suspect UST 5 Area* - Residual TPH contamination in soil at a depth of four to 12 feet indicates that UST(s) may be present within this area.
- *AST 2 Area* - Residual TPH and arsenic contamination in soil.

- *Railroad Spur Waste Disposal Area* - Residual TPH, SVOC, and arsenic contamination in waste disposal area and copper and zinc contamination in groundwater.
- *Electrical Transformers* - Residual PCB contamination in soil beneath Transformer 2 and Transformer 4.
- *Surficial Stained Soil Areas 1 and 2* - Residual TPH and SVOC contamination.

The following regulated building components and miscellaneous containers of hazardous and special waste were also identified at the Site:

- Asbestos containing thermal pipe insulation, floor tile, and insulation on electrical equipment;
- Lead-based paint on fire doors, door jambs, window casings, brick and wood walls, and exterior siding;
- PCB-containing electrical equipment consisting of four electrical transformers, fluorescent light ballasts, and electrical switches. The electrical transformers belong to Northeast Utilities who is responsible for their maintenance and disposal;
- Mercury-containing fluorescent tubes and mercury-vapor lamps located throughout the buildings; and
- Residual heavy metal dust located on window sills, floors, and other horizontal surfaces within the interiors of Buildings 4, 5, and 10.

Phase II site assessment findings of particular importance to the City's North End redevelopment plans include:

- Adverse environmental impacts at the Site associated with landfill leachate migration from the Municipal Landfill were not identified in the overburden aquifer during this investigation. Water table elevations indicate that local groundwater flows northeasterly toward the Municipal Landfill and adjacent wetland area.
- Groundwater test results reported solvent constituent concentrations in monitoring wells MW-1, MW-4, and MW-5. Additional investigation activities will be required to assess whether groundwater impacts have resulted from potential on-site migration from hydrologically upgradient property(ies) or past on-site solvent storage. To resolve this issue, it is recommended that the City install additional groundwater monitoring wells along the Site's western and southwestern property lines to determine if off-site solvent release(s) have impacted the Site.
- Ten soil contaminant release areas and two groundwater impact areas have been identified at the Site which will require additional response actions

pursuant to the DEP's Remediation Standard Regulations (RSRs). The RSRs provide the City flexibility in addressing existing environmental conditions through contaminated soil excavation, on-site contaminated soil treatment and reuse, and/or institution of Environmental Land Use Restrictions (ELURs) where soil cleanup activities would be prohibitively expensive or technically unfeasible.

- A preliminary estimate of probable remediation costs has been developed which projects soil cleanup expenditures at approximately $1.4 million, including engineering fees, anticipated laboratory analytical costs, and a 30% contingency. Soil remediation cost estimates are based upon achieving applicable RSR Residential Direct Exposure Criteria and Pollutant Mobility Criteria; however, the application of RSR Industrial/Commercial Direct Exposure Criteria and institution of ELURs will reduce actual soil remediation costs incurred during Site redevelopment activities.

This report was prepared on behalf of the City and is subject to the terms and conditions of the Agreement between the City and VHB and the Limitations provided in Appendix A.

2 Introduction

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This report was prepared on behalf of the City and is subject to the terms and conditions of the Agreement between the City and VHB and the Limitations provided in Appendix A.

Site Location and Description

The Site is located at 180 Johnson Street in Middletown, Connecticut in an industrial redevelopment zoned area. The Site is bound by the Middletown Landfill to the north, undeveloped wetlands and the Mattabesset River to the east, railroad right-of-way and E.I.S. Division of Standard Motor Products to the south, and the Hubert E. Butler Construction Company and the Coginchaug River to the west.

The Site includes approximately 10.5 acres with approximately 190,00 square feet of building area. The majority of the Site buildings were constructed from 1897 to 1934. Currently, the Site is serviced by City water, sanitary sewer, natural gas, telephone, and electric utilities. The Phase I report identified that a portion of the Site though may be connected to an on-site septic system located in the vicinity of the right-of-way.

The Site topography is fairly flat with surface elevations generally sloping towards the Mattabesset River to the northeast. The Site is located within the Mattabesset and Coginchaug River drainage basin which are tributaries to the Connecticut River located to the east.

Summary of Previous Environmental Site Assessment Activities

Soil Science and Environmental Services of Cheshire, Connecticut prepared a Phase I Environmental Site Assessment report, dated April 6, 1993 (Phase I Report). The following environmental concerns were summarized in the report:

- Four suspect existing or former underground storage tank locations;
- Two aboveground storage tanks;
- Five electrical transformers;
- Waste disposal area within a right-of-way;
- Interior floor drains and inlet structures;
- Miscellaneous containers of hazardous and special wastes;
- Suspect asbestos and lead-based paint;
- Suspect polychlorinated biphenyl-containing equipment; and
- Surficial stained soils and stressed vegetation.

Past industrial activities reported at the Site included the manufacturing of bicycles, automobiles, typewriters, and metal goods. Industrial wastes, including ink, carbon, wax, oil, detergents, acetone, dye, and nickel, have been historically discharged to the Mattabesset River and the City sewer system.

3

Test Pit and Hand Auger Investigations

VHB conducted limited subsurface investigations to obtain information about known and suspect contaminant sources and residual concentrations of oil and hazardous materials (OHM) in soil and groundwater at the Site. This phase of the investigation included the excavation of test pits using a backhoe and investigating surficial soil using a hand auger. Test pitting was conducted on May 15 and May 16, 1997 by P.F. Civetti General Contractor, Inc. of West Springfield, Massachusetts and hand auguring was performed on May 21, 1997 by VHB. VHB directed all excavation activities, observed soil conditions, screened soil samples, and collected soil samples. Photographs illustrating the investigation activities are presented in Appendix B.

Suspect soil samples were field screened using a photo-ionization detector (PID) calibrated to an isobutylene standard. Samples were field screened using a standard methodology for the jar headspace analytical screening procedure which measures total volatile organic compounds (TVOCs). Soil samples submitted for laboratory analyses were collected, based upon elevated headspace readings, marked changes in soil strata, or, in the absence of overt evidence of oil or hazardous material (OHM) contamination, proximity to the apparent water table.

Right-Of-Way Waste Disposal Area

A series of test pits were excavated using a Case 580 backhoe to observe and document the nature and extent of fill material previously identified within Northeast Utilities overhead electric right-of-way (ROW) located in the Site's eastern sector. Each test pit was excavated through the existing fill material to the interface with the underlying natural soil layer. Eleven test pits were excavated within the ROW to depths ranging from four to ten feet below existing grade. Test pits were designated as ROW/TP-1 to ROW/TP-11. Test pit logs are included in Appendix C.

Fill materials consisting of white ash, metal, glass, cinders, and some brick were identified in test pits ROW/TP-1 through ROW/TP-5 and ROW/TP-8. The ash fill layer extended from ground surface to 2-5 feet below grade. Various ash layers of suspect prussian blue and green material were observed within these test pits. No overt evidence

(visual or olfactory) of OHM was observed within these six test pits. Reddish-brown silty soil with some clay was observed beneath the fill layer within each test pit. Soil samples were collected from ROW/TP-1 and ROW/TP-3 and submitted for analysis for 13 priority pollutant metals and semi-volatile organic compounds (SVOCs) by EPA Method 8270 in accordance with the site investigation work plan. VHB also submitted soil samples for total cyanide analysis with prior City approval.

Fill materials containing melted rock/metal/slag, glass, metal, and some brick were identified in test pits ROW/TP-6, ROW/TP-7, and ROW/TP-9. The fill extended from ground surface to five to seven feet below grade. Mild petroleum odors were observed within TP-7. Oil saturated soil was observed in TP-9 from 6.5 to 8.5 feet below grade. Soil samples were collected from ROW/TP-6, ROW/TP-7, and ROW/TP-9 and submitted for analysis for total petroleum hydrocarbons (TPH) by EPA Method 418.1, 13 priority pollutant metals, SVOCs by EPA Method 8270, and volatile organic compounds (VOCs) by EPA Method 8240.

Fill materials were encountered in test pit ROW/TP-10 which consisted of glass, metal, and some brick. No ash material was observed within this test pit. Fill was observed from ground surface to a depth of two feet. Strong solvent/motor oil odors were observed from a depth of four to six feet below grade within this test pit. Dark brown silty clay was observed from six to seven feet. No solvent or motor oil odors were observed at this depth. Soil samples were collected from ROW/TP-10 and submitted for analysis TPH by EPA Method 418.1, 13 priority pollutant metals, SVOCs by EPA Method 8270, and VOCs by EPA Method 8240.

Fill material were observed in ROW/TP-11 to a depth of three to four feet below grade. Fill consisted of alternating layers of brown, white, and gray plastic resin. The plastic resin had apparently been poured on the surface, solidified and covered with additional fill. The plastic resin did not extend past the three foot depth horizon. Soil samples were collected from ROW/TP-11 and submitted for analysis TPH by EPA Method 418.1 and SVOCs by EPA Method 8270.

Representative soil samples were collected from test pits ROW/TP-1, ROW/TP-3, ROW/TP-6, ROW/TP-7, and ROW/TP-9 to ROW/TP-11 to characterize right-of-way fill materials. Similar fill materials identified in adjacent test pits ROW/TP-2, ROW/TP-4, ROW/TP-5, and ROW/TP-8 were not sampled in accordance with the RFP.

Underground Storage Tank Investigation

To investigate for the presence of underground storage tanks (USTs) and to help identify subsurface impacts within existing and former UST locations, test pits were excavated within the four existing/former UST locations identified in the Phase I Report.

UST 1 Area

Three test pits were excavated within in the vicinity of suspect UST 1, as shown on Figure 2. The three test pits are designated as UST1/TP-1 to UST1/TP-3. Test pits UST1/TP-1 and UST1/TP-3 were excavated to a depth of approximately four feet. Groundwater was encountered at a depth of four feet in both test pits. No overt evidence of OHM releases were observed in either test pit. PID field screening results from a soil sample collected at the groundwater interface within UST1/TP-1 did not detect any TVOC concentrations. Test pit UST1/TP-2 was terminated at a depth of two feet after encountering an undocumented two-inch steel pipe.

No soil samples were collected for analyses from these test pits. No existing USTs or evidence of former USTs were observed within the test pits excavated within this area of the Site.

UST 2 Area

One test pit was excavated near suspect UST 2 (see Figure 2). Site constraints (i.e., concrete slab, subsurface electric, water, and steam lines), permitted the excavation of only one test pit (UST2/TP-1) to a depth of approximately 6.5 feet where groundwater was encountered. At a depth of five to seven feet below grade, strong gasoline odors were encountered within a light gray silty sand layer. PID field screening results from a sample collected at a depth of six feet identified a TVOC concentration of 75 parts per million (ppm).

No USTs were located within the test pit; however, subsurface contamination indicates that a UST may exist near UST2/TP-1 test pit location. Soil samples were collected from UST2/TP-1 and submitted for analysis for TPH by EPA Method 418.1, VOCs by EPA Method 8240, and total lead.

During the attempted excavation of a test pit near suspect UST 2, approximately ten, six-inch long by two-inch diameter artillery shells were identified, as shown in Photograph 3 included in Appendix B. Following VHB's report of the discovery to City officials, the Middletown Police and Connecticut State Police responded to the Site. The artillery shells were identified as tank artillery shells used during World War II. The shells contained no explosive charge and were deemed to be harmless.

UST 3 Area

Three test pits (UST3/TP-1 to UST3/TP-3) were excavated in the vicinity of suspect UST 3 (see Figure 2). Test pit UST3/TP-1 was excavated to a depth of approximately six feet. Groundwater was not encountered within this test pit. Rock and melted rock/metal/slag was observed from zero to two feet below grade. Mild tar odors were also observed throughout the zero to two foot depth interval. From two to four feet

below grade, a very hard, dark black tar layer was encountered. Natural soil was encountered from a depth of four to six feet.

Soil samples were collected from UST3/TP-1 from within the rock/slag fill layer and within the tar later and submitted for analysis for TPH by EPA Method 418.1, SVOC by EPA Method 8270, 13 priority pollutant metals, and polychlorinated biphenyls (PCB) by EPA Method 8080.

Within this area of the Site, four concrete tank cradles were identified which formerly supported two aboveground storage tanks (ASTs). Two test pits were excavated between the cradles. Reddish brown silty soil with some clay was observed in both test pits to a depth of six feet. No overt evidence of OHM was observed within these two test pits. No existing USTs or evidence of former USTs were observed within the test pits excavated in this area of the Site.

UST 4 Area

One test pit (UST4/TP-1) was excavated adjacent to an existing fill pipe near UST 4. The test pit identified one 500 gallon single-walled steel UST which was full of water. The water in the tank did not display any sheens or odors. The UST's proximity to adjacent building, steam lines, and concrete pad prevented the excavation of additional test pits around the remaining sides of the tank.

Light brown fine silty sand was encountered to a depth of eight feet in the UST4/TP-1 test pit. No overt evidence of OHM was observed within the zero to eight foot depth interval. From a depth of eight to nine feet below grade, light brown fine to medium sand with strong gasoline/solvent odors was observed. Groundwater was encountered at a depth of eight feet. PID field screening results from a sample collected at a depth of eight to nine feet identified a TVOC concentration of 492 ppm. Sheens were observed on groundwater entering the test pit. Soil samples were collected from UST4/TP-1 and submitted for analysis for TPH by EPA Method 418.1, VOC by EPA Method 8020, and total lead.

Electrical Transformers

Four active pole-mounted electrical transformers and the location of one former pole-mounted electrical transformer were identified on the Site. Surficial soil samples (0 to 1 foot) were collected beneath each of the five existing/former transformer locations. Each sample collected was composited from four discrete sample locations beneath each transformer. Composite soil samples collected were submitted for analysis for PCBs by EPA Method 8080.

Sampling of electrical transformer oil was not conducted since the transformers were connected to the power grid. Based on the age of the transformers, it is likely that the transformer oil contains PCBs.

On June 9, 1997, VHB contacted Northeast Utilities to confirm ownership of the existing transformers. Based on information made available to VHB, the transformers located at the Site belong to Northeast Utilities. Northeast Utilities is responsible for transformer maintenance and disposal.

Aboveground Storage Tank Investigation

Two aboveground storage tanks (ASTs) were identified to the east of the Building 7, as shown on Figure 2. The tanks are 1,000 and 20,000-gallon single-walled steel vessels (AST 1 and AST 2, respectively). The 1,000-gallon AST contains four inches (approximately 50 gallons) of No. 2/No. 4 fuel oil and sludge. The 20,000-gallon AST contains four feet (approximately 6,500 gallons) of No. 4 fuel oil and sludge.

Surficial soil conditions (0-1 foot) were assessed by collecting soil samples with a hand auger beneath each AST. No stained soil was observed beneath AST 1. Fuel oil-saturated soil was observed at the south end of AST 2. The AST 2 impacted soil area was limited to an approximate 20 square foot area and a depth of approximately one foot. No soil samples were submitted for laboratory analyses from this location.

Surficial Stained Soil

Two surficial stained soil areas with stressed vegetation were observed south of the Main Building (see Figure 2). Soil samples were collected in Areas 1 and 2 using a hand auger from a depth of zero to one foot. Stained soil within Area 1 was identified to a depth of two feet below grade with an approximate area of 1,500 square feet. The soil within Area 1 consisted of black, fine to medium with coal ash/slag.

Surficial soil conditions in Area 2 were similar as to Area 1. Stained soil within Area 2 continued to a depth of two feet below grade within an approximate area of 250 square feet. One composite sample was collected from each surficial stained area and submitted for analysis for SVOC by EPA Method 8270, 13 priority pollutant metals, and PCBs by EPA Method 8080.

4

Soil Boring and Groundwater Monitoring Well Installations

To further assess release conditions identified during the test pit investigation program, GeoProbe® soil borings were advanced within suspect contaminant source areas at the Site. A total of 25 soil borings, designated as B-1 to B-25, were advanced near identified areas of environmental concern. Soil boring locations are shown on Figure 2. Soil boring advancement and groundwater monitoring well installation activities were conducted on May 20 and May 21, 1997 by Technical Drilling Services (TDS) of Leominster, Massachusetts. VHB directed the field investigation, observed soil conditions, screened soil samples, and collected soil and groundwater samples. Photographs illustrating the soil boring advancement and groundwater monitoring well installation activities are presented in Appendix B.

GeoProbe Soil Sampling

Soil borings were advanced by a van-mounted GeoProbe®, enabling continuous sampling from ground surface to approximately 12 feet below grade. Soil samples were collected by the GeoProbe® using one- and two-inch diameter stainless steel core barrels with dedicated acetate sleeve liners. Soil samples were collected to characterize existing soil conditions during each boring advancement. Soil boring logs are included in Appendix C.

Various soil samples were field screened using a photo-ionization detector (PID) calibrated to an isobutylene standard. Samples were field screened using a standard methodology for the jar headspace analytical screening procedure. Field screening results are summarized in the soil boring reports included in Appendix C. Soil samples submitted for laboratory analyses were collected from depth intervals that indicated elevated headspace readings, marked changes in soil strata, or, in the absence of overt evidence of oil or hazardous material (OHM) contamination, proximity to the apparent water table.

In general, native soil at the Site consists of a light brown fine to medium sand with some silts to a depth of 10 to 12 feet. A light brown silty clay layer was observed throughout the Site at a depth of 12 feet and greater. The following findings were made during soil boring advancement activities:

- Fill materials were observed from ground surface to 4-6 feet below grade within the right-of-way area and at soil boring location B-10.
- Mild solvent odors were observed at a depth of eight to 12 feet in soil borings B-1, B-2, and B-3. PID screening results from the 10 to twelve foot depth interval ranged from 3.3 to 7.2 parts per million (ppm). As indicated by field screening results, the solvent odors were not observed at the groundwater interface, but were generally observed below encountered groundwater just above the clay confining layer.
- Soil boring B-4 identified fill to depths of four feet. Strong gasoline odors (PID result of 142 ppm) were observed at an approximate depth of two feet and strong motor oil odors (PID result of 39 ppm) were observed at a depth of six to ten feet below grade. The clay layer was encountered at a depth of 11.5 feet.
- Soil borings B-5, B-6, and B-7 were advanced near a suspect UST location. Strong gasoline odors, with associated PID screening results up to 138 ppm, were observed at a depth of six to ten feet below grade in soil boring B-5. Mild gasoline odors, with associated PID screening result up to 4 ppm, were observed in soil boring B-7 and no odors were observed in B-6. Soil samples were not submitted from B-6.
- Soil boring B-8 was advanced within the right-of-way. Fill materials consisting of ash, coal, and metal were observed in B-8, similar to fill observed within adjacent test pits. Mild gasoline/solvent odors were observed from six to twelve feet below grade. PID screening results within this depth interval ranged from 4 to 22 ppm.
- Soil boring B-9 was advanced on the north side of the concrete containment system surrounding the 20,000-gallon AST near the Site's eastern perimeter. Fuel oil-saturated soil (No. 4 or No. 6 fuel oil) was observed from a depth of eight to twelve feet below grade.
- A heavy tar layer was observed at a depth of six feet in soil boring B-10. Fill material containing coal, coal ash, slag, and metal was observed to a depth of six feet similar to fill observed in the nearby test pit UST3/TP-1.
- Soil borings B-11 to B-17 did not indicate any overt evidence of oil or hazardous materials. Soil samples were not submitted from soil borings B-14 and B-17.
- Soil borings B-18, B-21, B-22, B-24 displayed strong gasoline/diesel fuel odors from four to ten feet below grade. PID screening results for these four soil borings ranged from 5 to 224 ppm. Soil boring B-23 did not display any gasoline/diesel fuel odors. Based on soil boring data, a magnetometer survey was conducted between borings B-18 and B-23. Survey results identified an area that may contain one or more undocumented USTs. This area is identified as suspect UST 5, as shown on Figure 2.

- No overt evidence of OHM was observed in soil borings B-19 and B-20. Soil boring B-25 identified an organic septic sludge at a depth of eight to ten feet below grade. No other indication of OHM was observed within soil boring B-25.

Following sample collection and preservation on ice, soil samples were submitted to a Connecticut-certified laboratory and analyzed for selected target analytes. Based on field observations, the samples were submitted for TPH, VOCs, SVOCs, metals, and/or PCBs.

Groundwater Monitoring Well Installation and Sampling

Phase II investigation activities included the installation and sampling of six overburden groundwater monitoring wells (see Figure 2). Groundwater sampling was conducted to assess the potential adverse impacts to local groundwater quality from the identified contaminant source areas and the potential migration of leachate from the adjacent municipal landfill.

The six monitoring wells (MW-1 to MW-6) were installed to depths of 12 to 16 feet below grade within soil borings B-3, B-7, B-8, B-10, B-14, and B-18. Each well was constructed of 3/4-inch diameter PVC well materials with ten feet of screen. A sand pack was placed from the soil boring terminus to one foot above the screen followed by a clay bentonite seal. Each well was either capped and locked with a protective riser pipe or a flush-mounted road box. Each well was completed at a depth (approximately 12 feet) that was consistent with penetrating less than six to twelve inches of the silty clay soil confining layer observed throughout the Site. None of the soil borings penetrated throughout the entire thickness of the identified confining layer.

On May 27, 1997, VHB purged and sampled the six monitoring wells. Three to five well volumes of groundwater were removed from the wells prior to sampling. After well stabilization, groundwater samples were collected using dedicated disposable bailers for VOC sample collection. A peristaltic pump equipped with dedicated teflon tubing for each of the site monitoring wells was used to collect samples for analyses of the remainder of the groundwater parameters. Groundwater sample collection was performed in accordance with the USEPA Region I Low Stress (low flow) Purging and Sampling Procedures for the Collection of Groundwater Samples from Monitoring Wells, dated July 30, 1996. All groundwater samples were preserved on ice and delivered to a Connecticut-certified laboratory for chemical analyses.

In addition to sampling the six wells for TPH, VOCs, SVOCs, PCBs, metals, and herbicides, monitoring wells MW-3 and MW-5 were sampled for landfill leachate parameters (i.e., BOD 5-day, chloride, nitrate, ammonia, total iron, total manganese, total dissolved solids, total suspended solids, pH, specific conductance, and alkalinity) in accordance with the Request for Proposal (RFP) prepared by City of Middletown.

Groundwater Elevations and Flow Direction

On June 12, 1997, the casings for all six monitoring wells were surveyed to determine groundwater elevations. As shown on Figure 2, an assumed datum of 100 feet was set at a utility pole #8400 located near the Johnson Street entrance to the Site. All measurements are based on this assumed datum. The following data were recorded during groundwater gauging and wellhead surveying activities:

Monitoring Well	Existing Ground Surface Elevation (feet)	Depth to Groundwater from Ground Surface (feet)
MW-1	96.2	90.2
MW-2	96.9	89.62
MW-3	93.2	86.01
MW-4	96.5	87.27
MW-5	97.6	89.53
MW-6	95.4	91.0

Note: Apparent water table elevations were gauged on May 27, 1997.

Apparent water table elevations vary from approximately four to nine feet below ground surface across the Site. Triangulation of apparent water table elevations between groundwater monitoring wells indicates that local groundwater flows across the Site in an easterly to northeasterly direction.

5

Soil and Groundwater Analytical Results

This section summarizes the soil and groundwater analytical results related to subsurface investigation activities at the Site. Soil and groundwater laboratory analytical results were compared to applicable standards established by the Connecticut Department of Environmental Protection Remediation Standard Regulations (RSR), Section 22a-133k to help assess regulatory compliance issues for the Site.

Soil Analytical Results

All soil analytical results are summarized in Tables 1 and 2. Applicable RSR Residential Direct Exposure Criteria, Industrial/Commercial Direct Exposure Criteria, and Pollutant Mobility Criteria for GB areas (RSR standards) are listed in Tables 1 and 2. Laboratory analytical reports are included in Appendix D.

Right-Of-Way Disposal Area

Eleven soil samples were submitted for analysis for various target analytes from within the right-of-way waste disposal area located in the northeastern sector of the Site. TPH, arsenic, lead, and copper concentrations were reported above applicable RSR standards in samples ROW/TP-06/3'-4', ROW/TP-07/2'-3', ROW/TP-09/6'-8', ROW/TP-10/4'-6', B-4/0'02', B-4/8'-10', and B-08/8'-10'.

Underground Storage Tank Release Areas

Three release areas in the vicinity of existing or suspect former UST locations were identified during test pitting and GeoProbe® activities. Laboratory results for soil samples UST2/TP-01/6' and B-5/6'-8', collected from suspect UST 2 area, reported TPH concentrations ranging from 4,490 milligrams per kilogram (mg/kg) to 9,380 mg/kg which exceeds applicable RSR standards.

Laboratory results for soil sample UST4/TP-01/8', collected from the existing UST 4 area, reported a TPH concentration of 37,700 mg/kg which also exceeds applicable RSR standards.

Laboratory analytical results for soil sample B-18/5'-7', reported a TPH concentration of 5,200 mg/kg. Additional soil borings (B-21, B-22, and B-24), advanced for initial delineation purposes near B-18, identified characteristically similar strong petroleum odors and elevated field headspace results. Based on the overt evidence of a release, a magnetometer was used to help identify the potential presence of a nearby UST source. As shown on Figure 2, the area south of B-18 was identified as a possible location of one or more undocumented UST(s).

Railroad Spur Waste Disposal Area

A waste disposal area was identified within the southeastern corner of the Site (see Figure 2). Soil samples collected from within this area, UST3/TP-01/0'-2', UST3/TP-01/3'-4', and B-10/6'-7', identified TPH, SVOCs, arsenic, copper, lead, nickel, and thallium concentrations that exceed their respective RSR standard, as shown in Tables 1 and 2.

Electrical Transformers

Surficial soil samples were collected from beneath each of the four existing and one former electrical transformer location. PCB concentrations were reported to range from 0.383 mg/kg to 1.68 mg/kg. All five PCB concentrations reported are below the RSR Industrial/Commercial Direct Exposure Criterion of 10 mg/kg; however, PCB concentrations from two of the five samples (Tran-2 and Tran-4) exceeds the RSR Residential Direct Exposure Criterion of 1 mg/kg.

Aboveground Storage Tank Release Area

Laboratory analytical results for soil boring, B-9, advanced north of the 20,000-gallon fuel oil AST, reported a TPH concentration of 62,500 mg/kg and an arsenic concentration of 42.9 mg/kg at a depth of nine to 11 feet below grade. Both the TPH and arsenic concentrations exceed their respective RSR standards. The release identified in B-9 may be associated with the AST; however, surficial soil observations directly beneath the AST were inconclusive.

Surficial Stained Soil Areas

Surficial soil samples (Sur-1 and Sur-2) were collected from a depth of zero to one feet within the two surficial stained areas. As shown in Table 2, arsenic and various semi-volatile organic compounds (SVOC) were reported at concentrations which exceed their respective RSR standards.

SPLP Soil Sample Results

In accordance with the RFP, the Synthetic Precipitation Leaching Procedure (SPLP) was performed on soil samples which were reported to contain metal concentrations that exceed the "20 times" rule for leachability when compared to applicable RSR GB Pollutant Mobility Criteria (PMC) standards. Based on the reported metal results, 12 samples contained metal concentrations which exceed 20 times the applicable PMC. The 12 soil samples were reanalyzed for 13 priority pollutant metals by SPLP. The results are summarized in Table 4. Based on the reported SPLP metal results, three samples (UST3/TP-1/0-2', ROW/TP-6/3'-4', and B-10/6'-7') contained nickel and/or lead concentrations which exceeded the applicable PMC.

Groundwater Analytical Results

Groundwater analytical results are summarized in Table 3. RSR Surface Water Protection Criteria, Residential Volatilization Criteria, and Industrial/Commercial Volatilization Criteria (RSR standards) are shown in Table 3. Laboratory analytical reports are included in Appendix D.

Right-Of-Way Waste Disposal Area

Monitoring well MW-3 was installed within the right-of-way to assess groundwater impacts associated with fill materials located within the right-of-way and the potential migration of leachate from the adjacent municipal landfill. Significant findings include:

- No RSR standards were exceeded in monitoring well MW-3 installed within the right-of-way.
- Based on the reported results for landfill leachate parameters, no indications of landfill leachate impacts to Site groundwater were observed in MW-3.

Underground Storage Tank Release Areas

Monitoring wells MW-1, MW-2, and MW-6 were installed in the presumed downgradient position with respect to confirmed and suspect UST locations, as shown on Figure 2. Significant findings include:

- Monitoring well MW-1 was installed to the south of the Quonset Building. As shown in Table 3, trichloroethylene, 1,1-dichloroethylene, and vinyl chloride and zinc exceeded their respective RSR standards.

- No RSR standards were exceeded in monitoring well MW-2 installed to the north of suspect UST 2.

- No RSR standards were exceeded in monitoring well MW-6 installed to the north of suspect UST 5.

Waste Disposal Area

Monitoring well MW-4 was installed within the waste disposal area located in the southeast corner of the property. Reported copper and zinc concentrations exceeded applicable RSR standards.

Suspect Landfill Leachate Area

Monitoring well MW-5 was installed in the northern corner of the Site to assess potential groundwater impacts associated with the migration of leachate from the adjacent municipal landfill. The following significant results are noted:

- No RSR standards were exceed in monitoring well MW-5.

- Based on the reported results for landfill leachate parameters, no indications of landfill leachate impacts to Site groundwater were observed in MW-5.

6

Regulated Building Components and Hazardous Materials Inventory

VHB conducted an environmental building audit at the Site to identify regulated building components and the presence of other regulated hazardous materials. The following materials were identified:

- Asbestos-containing materials (ACM);
- Building components coated with Lead-Based Paint (LBP);
- Items which contain Polychlorinated Biphenyls (PCBs);
- Mercury-containing lamps/tubes;
- Equipment which contain chlorofluorocarbons (CFCs); and
- Miscellaneous containers of oil and other hazardous materials (OHM).

An interview with the caretaker of the property, Mr. John Erickson was performed prior to commencing the inspection. Mr. Erickson provided information related to locations of suspect asbestos-containing materials (ACM), suspect lead-based paint (LBP), and locations of abandoned miscellaneous oil and hazardous materials (OHM).

Asbestos Material Inspection

A comprehensive building inspection was performed in all accessible interior and exterior areas of all structures located at the site. Pursuant to the RFP from the City of Middletown, three samples of all suspect friable (easily crumbled or crushed to powder by hand pressure) and nonfriable ACM were collected in analyzed for asbestos content. If a material was determined to contain greater than 1 percent asbestos, it is considered an ACM pursuant to State of Connecticut Department of Health Services regulations located at Chapter 19a-332a-1(h). Mr. Tim Downey of VHB performed the inspection and is certified by the DHS as an Asbestos Inspector/Management Planner (000062).

Bulk sample analysis was performed using Polarized Light Microscopy with Dispersion Staining (PLM/DS) in accordance with EPA protocol (Title 40 CFR,

"Interim Method for the Determination of Asbestos in Bulk Insulation Samples", October, 1987) by Hygeia Proscience, Inc. laboratory located in Woburn, Massachusetts. A total of 63 samples of suspect ACM were collected and submitted for laboratory analyses. Each suspect material was assigned a homogeneous area (HA) number. A homogeneous area as defined by EPA is an area of surfacing material, thermal system insulation or miscellaneous material that is uniform in color and texture and materials appeared to have been installed at the same time. Samples of the following suspect materials were collected and submitted for analysis:

- Floor tiles and associated mastic adhesives or paper backings;
- Spray-applied fireproofings/insulations;
- Sheet rock/joint compounds;
- Interior fire door insulations;
- Floor and ceiling plasters;
- Paper-type pipe insulation;
- Block-type pipe insulation;
- Cementitious wall board (transite) ;
- Roof flashing cements;
- Plaster;
- Asphaltic roofing materials; and
- Asphaltic roofing shingles.

Asbestos sample locations are shown on Figures 3a, 3b, and 3c.

Asbestos Sampling Inspection Results

The following materials were determined to contain greater than one percent asbestos:

- Interior fire door insulation (2 doors);
- Paper-type pipe insulation (1,825 linear feet);
- Block-type pipe insulation (715 linear feet);
- Plaster (125 square feet);
- Transite electrical switches (260 square feet); and
- Floor tiles (9"x 9") and associated mastics (2,200 square feet).

A summary table of suspect and identified ACM at the facility are included in Appendix E along with the laboratory analytical results.

Lead-Based Paint Inspection

A lead inspection was performed using the State of Connecticut, Department of Health Services regulations (Chapter 19a-111) as a guideline. The surface of each different painted building component was tested for total lead concentration. Toxicity Characteristic Leaching Procedure (TCLP) testing of selected LBP-coated building materials was not performed during the assessment.

The interior surfaces of the buildings were visually inspected for surfaces coated with paint to identify different colors of paint, approximate quantities of building components coated with paint, and locations of the painted components. The survey was performed with an X-Ray Fluorescence (XRF) spectrum analyzer. A Niton Corporation (Model XL-309; Serial # 278) was used to determine lead in paint concentrations during this inspection. The concentrations were reported as milligrams per square centimeter (mg/cm^2) of surface area. The XRF uses a radioactive source which excites lead atoms when present. As the atoms return to their normal state, they emit x-rays that are characteristic of lead, if present. The XRF identifies and quantifies these x-rays to provide a lead concentration in mg/cm^2 of surface area. LBP was also inspected to provide the demolition/renovation contractor with information to take appropriate actions to protect employees and the environment (OSHA, 29 CFR, Part 1926.62, "Lead Exposure in Construction").

Lead-Based Paint Inspection Results

Building components testing greater than 2.5 mg/cm^2 should be segregated from general construction/demolition debris and recycled at appropriately licensed facilities and or disposed as RCRA-hazardous waste, as these materials generally do not pass hazardous waste characterization analysis. The following materials are recommended for segregation:

- Fire doors
- Door jambs
- Window sashes
- Window casings
- Doors
- Walls (brick and wood)
- Stairwell newel posts
- Inside stairwell walls
- Exterior shed
- Exterior siding
- Metal hand rails
- Concrete equipment pad
- Metal hot water tank
- Overhead garage doors
- Red structural beams

Locations and quantities of the above listed building components are identified in the summary table included in Appendix F.

Detectable levels of lead (> 0.1 and < 1.2 mg/cm^2) were identified on several other building components. A summary table of LBP field testing results at the facility are included in Appendix F, along with the laboratory analytical results. This information should be provided in bidding documents for any demolition or renovation work scheduled to occur. Employees who are occupationally exposed to LBP at or above the OSHA Action Level of 30 micrograms per cubic meter of air (μg/m^3) must receive hazardous waste training in accordance with OSHA, 29 CFR, Part 1910.120 ("Hazard Communication Standard").

Polychlorinated Biphenyl and Mercury-Containing Equipment

The following quantities of PCB-containing light ballasts and mercury-containing light bulbs were observed:

Building #	Ballasts	Bulbs (four-foot long bulbs)
1A, 1st Floor	18	58
1A, 2nd Floor	73	104
1B, 1st Floor	18	43
1B, 2nd Floor	59	96
1C, 1st Floor	33	63
1C, 2nd Floor	25	39
2	10	18
3	1	2
4	16	32
5	9	6
6, 1st Floor	8	16
6, 2nd floor	9	18
7	5	10
8, 1st Floor	59	31
8, 2nd Floor	21	41
Hall between 8 & 1C (1st & 2nd floor)	3	7
9, 1st Floor	19	33
9, 2nd Floor	24	53
11A to 11D	81	187
Total	**491 ± PCB Ballasts**	**857 ± Four Foot Long Bulbs**

In addition to the four-foot mercury-containing fluorescent tubes, a total of 12 mercury vapor lights were identified in buildings 1C, 2, and 3.

Interior Drainage Inlet Structures

Based on the results of the Phase I Report prepared by Soil Science and Environmental Services, Inc. and the RFP, a "black liquid sludge" was observed in various floor drains and trenches located in buildings 5, 10, and the addition between buildings 1 and 8. The location of the addition was interpreted by VHB to be building 12 as labeled by VHB. Accessible interior floor drains, inlet structures, and trenches were observed throughout every room. No indication of OHM were observed in any structure inspected, with the exception Quonset Building. The following observations and structures were observed (see Figure 2):

Building #	Quantity Observed	Observation
5	Six circular floor drains	No staining, sludge, or fluids observed within drainage inlet structures observed.
7	Two circular floor drains	No staining, sludge, or fluids observed within drain inlet structures observed.
10	One concrete vault and one square floor drain	Concrete vault was dry with a clean soil bottom. Floor drain filled to top with water. No sheens or odors on water. Sediments within drain did not display evidence of oil or hazardous materials.
11B	Three circular floor drains	No staining, sludge, or fluids observed within drain inlet structures observed.
11D	One circular floor drain	Visual staining and olfactory evidence of oil and hazardous materials discharged to floor drain.
12	Two square floor drains	No staining, sludge, or fluids observed within drain inlet structures observed.
Quonset Building	One square floor drain	Drain contained overt and olfactory evidence of oil and hazardous materials. Drain structure did not appear to have an outlet pipe or a solid base.

Many rooms contained equipment used by tenants. Additional drains may be present, but were not observed during the site walk since access was obstructed.

The floor drain identified within the Quonset Building was sampled for TPH, PCBs, and herbicides. TPH and PCB concentrations were reported at 148 mg/kg and 0.383 mg/kg, respectively. Both concentrations are below their respective DEP Industrial Soil Standards. Herbicides concentrations were not reported above laboratory method detection limits.

Metal Dust

Wipe samples were collected from various surfaces within rooms nickel plating, metal casting, and carbon coating operations were historically conducted. Wipe samples were collected from the following locations:

Building #	Quantity	Wipe Sample Location
4	2	East and west window sill
5	3	East window sill, top of fire door, and top of electrical switch
10	3	Floor, north and south window sill

Wipe samples were submitted for analysis for 13 priority pollutant metals. As shown in Table 4, antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc were reported above laboratory method detection limits in many of the wipe samples submitted. The Connecticut Department of Public Health (DPH) has established a 500 microgram per square centimeter (ug/cm^2) standard for lead wipe samples collected to assess indoor air quality. Lead results for wipe samples collected in Buildings 4, 5, and 10 were reported well below the 500 ug/cm^2 lead standard. No similar DPH or other DEP standards exist for the remaining 13 priority pollutant metals.

Hazardous Materials Inventory

During the Site reconnaissance, VHB identified abandoned miscellaneous quantities of OHM containers throughout the buildings that would require removal prior to any scheduled building demolition or renovation. In general, the following materials were identified:

- Motor oil
- Solvents
- Greases
- Oils
- Roof sealant
- Corrosive liquids
- PCB fluids
- Pressurized paint cans
- Liquid cleaners
- Fuel oil
- Insecticides/herbicides
- Pressurized gas cylinders
- Latex and oil-based paints
- CFC-containing equipment

A full inventory of quantities of each type of material and location is included in Appendix G. Materials were inventoried if it was apparent that they were abandoned and not in use by tenants. Following departure of various tenants, OHM quantities will most likely change and an updated inventory should be compiled.

7

Regulatory Compliance Issues

The Phase II Environmental Site Assessment identified soil and groundwater impacts at the Site that require response actions in accordance with Connecticut Department of Environmental Protection (DEP) Remediation Standard Regulations (RSR) Section 22a-133k. Environmental impacts at the Site have been attributed to past industrial/commercial work practices, known and suspect on-site contaminant sources, and/or activities on adjacent properties.

Laboratory test results for soil and groundwater samples collected during Phase II investigation activities were compared to applicable RSR standards to assess whether residual contaminant concentrations pose an unacceptable risk to human health associated with direct exposure (i.e., dermal contact, ingestion, or inhalation) or the environment associated with pollutants migrating from soil to groundwater. Although VHB understands that the City intends for the Site to remain in industrial/commercial use, the RSRs require comparison of soil and groundwater test results to applicable residential as well as industrial/commercial cleanup standards. This section outlines DEP environmental compliance options and associated remediation alternatives to address the identified contaminant release areas at the Site.

Soil and Groundwater Cleanup Objectives

DEP Residential Direct Exposure Criteria, Industrial/Commercial Direct Exposure Criteria, and Pollutant Mobility Criteria for GB Areas (RSR standards) apply to the Site's soil. Residential Direct Exposure Criteria for soil apply to the Site since the RSRs require, whenever feasible, a reduction in residual soil contaminant concentrations to levels that pose no significant human health risk. Under circumstances where remediation activities are prohibitively expensive or technically unfeasible, the Site owner has the option to institute an Environmental Land Use Restriction (ELUR; ref. RSR Section 22a-133q-1) limiting future Site use solely for industrial/commercial purposes.

DEP Surface Water Protection Criteria, Residential Volatilization Criteria, and Commercial/Industrial Volatilization Criteria (RSR standards) apply to the Site's Class GB groundwater. Although groundwater is not used as a private or public water supply or other resource, groundwater analytical results have been compared to residential volatilization criteria for reasons similar to those noted above.

Soil Contaminant Releases

Based upon comparisons to applicable RSR standards, VHB identified ten soil contaminant release areas during the Phase II Environmental Site Assessment activities requiring further action in accordance with RSR provisions. The following section discusses how each identified soil contaminant release area may be addressed under the RSRs and suggest appropriate soil management strategies. Preliminary estimates of probable remediation costs associated with each release area are presented in the Chapter 8.

Right-Of-Way (ROW) Waste Disposal Area

Three characteristically different fill materials — coal ash, slag-like melted metal/glass, and variable layered plastic resin/darkly stained soil — were identified within the ROW waste disposal area. Test pits ROW/TP-1 through ROW/TP-5 identified coal ash containing a granulated matrix with detected inorganic concentrations below applicable RSR standards (i.e., Residential and Industrial/Commercial Direct Exposure Criteria and Pollutant Mobility Criteria). Test pits ROW/TP-6 through TP-9 identified slag-like materials with concentrations of total petroleum hydrocarbon (TPH), arsenic, copper, and lead above applicable RSR standards. Test pit ROW/TP-10 and Boring B-4 identified variable layered plastic resins and impacted soil containing residual TPH concentrations in soil above the corresponding RSR standard.

Lead, measured by the Synthetic Precipitation Leaching Procedure (SPLP), was the only one of the 13 priority pollutant metals that exceeded the applicable Pollutant Mobility Criterion for GB Areas (PMCs; ref. Table 1, Test Pit ROW/TP-6 soil result). No corresponding groundwater impacts above applicable RSR standards were identified at nearby Monitoring Well MW-3 located in the central portion of the ROW waste disposal area.

Based upon current information, two compliance options for management of ROW fill materials containing soil contaminant concentrations above applicable RSR standards gave been identified. The first option includes soil excavation and off-site disposal of contaminated soil at a Subtitle C RCRA landfill. This remediation approach is appropriate if the City chose to use the ROW area for parking since existing compressible fill materials would have to be excavated and replaced to meet geotechnical load bearing requirements. Contaminated fill removal activities at the Site will eliminate exceedances of applicable RSR Residential Direct Exposure Criteria and PMCs, resulting in unrestricted future use of the ROW area.

The alternative option includes pursuit of a variance from the DEP under exemptions provided for Widespread Polluted Fill or Engineered Control of Polluted Soil under RSR Sections 2(f)(1) and 2(f)(2), respectively. This approach will require the City to restrict access to (e.g., by fencing the impacted area) or limit direct human contact (e.g., by paving the area) with contaminated soil. RSR provisions will require the City

to institute an Environmental Land Use Restriction (ELUR) on the ROW area, representing an encumbrance on the Site.

UST 2 Area

Historic gasoline release(s) from the UST 2 area will require soil remediation in accordance with the RSRs. Phase II investigation activities identified residual TPH soil concentrations above applicable RSR standards from six to ten feet below grade at Test Pit UST 2/TP-1 and Soil Boring B-5; however, no corresponding groundwater impacts above applicable RSR groundwater standards were reported at Monitoring Well MW-2. Note that investigation activities in this area were hampered by unexpected subsurface obstructions associated with buried concrete and undocumented piping; therefore, the presence of a UST(s) could not be confirmed.

Based upon currently available information, excavation and recycling of contaminated soil as well as removal and disposal of UST 2 (if encountered) to meet applicable RSR Residential Direct Exposure Criteria would avoid the need to institute an ELUR in the UST 2 Area. Alternatively, soil remediation activities may be restricted to excavation of contaminated soil to levels below applicable RSR standards, with application of ELURs, to help reduce Site redevelopment costs.

UST 4 Area

Phase II investigation activities identified a limited area where residual TPH soil concentrations exceed applicable RSR Residential and Industrial/Commercial Direct Exposure Criteria (six to ten feet below grade at Test Pit UST 4/TP-1). Visual and olfactory observations of subsurface soil at Soil Borings B-1 through B-3 also indicate the presence of solvent constituents. These observations were confirmed by soil analytical data reporting low-level trichloroethylene concentrations. A discussion of environmental compliance pathways to address groundwater impacts follows in Chapter 8.

Based upon currently available information, excavation and recycling of contaminated soil, as well as removal and disposal of UST 4, to meet applicable RSR Residential Direct Exposure Criteria would avoid the need to institute an ELUR in the UST 4 Area. Alternatively, soil remediation activities may be restricted to excavation of contaminated soil to levels below applicable RSR standards, with application of ELURs, to help reduce costs.

Suspect UST 5 Area

Previously undocumented gasoline/diesel fuel release condition(s) were identified during the advancement of soil borings in the northern section of the Site. Analytical results for Soil Boring B-18 reported residual TPH concentrations in soil above applicable RSR standards. The laboratory analytical data were corroborated by field

headspace screening results which indicated elevated total volatile organic compound (TVOC) concentrations from four to eleven feet below grade in Soil Borings B-21, B-22, and B-24 advanced to help identify the extent of contamination. Further delineation of the limits of release will be required to estimate the actual volume of contaminated soil.

AST 2 Area

VHB identified contaminated fill from zero to eight feet below grade overlying a No. 4/ No. 6 fuel oil release observed from approximately eight to eleven feet below grade at Soil Boring B-9. The highest TPH concentration in soil encountered during the Phase II investigation was also reported at B-9, exceeding all applicable RSR standards. Laboratory test results for fill material reported arsenic concentrations in soil above applicable RSR Residential and Industrial/ Commercial Direct Exposure Criteria.

Extensive excavation and off-site and disposal of contaminated soil to meet applicable RSR standards would prevent further migration of the No. 4/No. 6 fuel oil release and avoid the need to institute an ELUR in the UST 2 Area. Heavily vegetated ground cover and sloping topography prevented further contaminant delineation in the AST 2 area.

Railroad Spur Waste Disposal Area

Historic waste disposal practices near a railroad spur line in the southern sector of the Site will require soil remediation in accordance with the RSR. Phase II investigation activities identified residual soil concentrations of TPH, various semi-volatile organic compounds (SVOCs), arsenic, copper, lead, nickel, and thallium above applicable RSR Residential and/or Industrial/Commercial Direct Exposure Criteria from zero to approximately eight feet below grade at Test Pit UST 3/TP-1 and Soil Boring B-10.

SPLP analytical results for the Test Pit UST 3/TP-1 and Soil Boring B-10 soil samples reported nickel and lead concentrations, respectively, above applicable Pollutant Mobility Criteria for GB Areas (PMC). No other 13 priority pollutant metals measured by SPLP exceeded applicable PMCs. Groundwater quality data for this area is discussed in Chapter 8.

Based upon the limited environmental data currently available, extensive excavation and disposal of contaminated soil to meet applicable RSR Residential Direct Exposure Criteria would avoid the need to institute an ELUR in this area. Alternatively, soil remediation activities may be restricted to excavation of contaminated soil to levels below applicable RSR Industrial/Commercial Exposure Criteria, with application of ELURs, to help reduce Site redevelopment costs. Based upon current information, the estimate of probable remediation costs associated with the railroad spur waste disposal area may increase as additional environmental data is obtained. Additional contaminant delineation is recommended prior to implementing Site cleanup activities to more accurately estimate actual soil remediation costs.

Surficial Stained Soil Areas

Laboratory analytical results reported TPH, SVOC, and/or arsenic concentrations in two stained soil areas, located southeast of the former Remington Rand manufacturing building, that exceed applicable RSR Residential and/or Industrial/Commercial Direct Exposure Criteria. Limited excavation and recycling or disposal of surficial contaminated soil to a depth of approximately two feet below grade conducted to meet applicable RSR Residential Direct Exposure Criteria would avoid the need to institute an ELUR in these areas. Alternatively, soil remediation activities may be restricted to excavation of contaminated soil to levels below applicable RSR Industrial/Commercial Exposure Criteria.

Electrical Transformer Installations

Polychlorinated biphenyl (PCB) concentrations in soil were reported above the applicable RSR Residential Direct Exposure Criterion at two of the existing/former electrical transformer installations at the Site. Soil remediation activities associated with these electrical transformer locations are the responsibility of Northeast Utilities who owns and maintains all electrical transformer installations at the Site. The City should provide Northeast Utilities with the results of the surficial soil samples and request that Northeast Utilities conduct supplemental assessment activities to determine PMC compliance and appropriate soil remediation activities to reduce PCB-contaminated soil concentrations at the Site below the applicable RSR Residential Direct Exposure Criterion.

Groundwater Contaminant Releases

Based upon comparisons to applicable Surface Water Protection Criteria, Residential Volatilization Criteria, and Industrial/Commercial Volatilization Criteria (RSR standards), VHB identified two groundwater contaminant release areas during the Phase II Environmental Site Assessment activities requiring further action pursuant to the RSR.

UST 4 Area

Groundwater impacts from dissolved solvent constituent (i.e., trichloroethylene, 1,1-dichloroethylene, and vinyl chloride) concentrations above applicable RSR Volatilization Criteria were identified at Monitoring Well MW-1. Laboratory analytical results for Monitoring Wells MW-4 and MW-5 also reported trichloroethylene, chlorobenzene, and/or chloroethane concentration in groundwater below applicable RSR standards. Phase II investigation activities did not identify an on-Site source of solvent contamination. Determination of an appropriate DEP environmental compliance pathway to address groundwater impacts identified at

Monitoring Well MW-1 will require additional investigation. Based on the Site's easterly to northeasterly groundwater flow, existing contaminant distribution data suggest the following possible explanations for groundwater impacts identified near UST 4:

- Site impacts associated with a potential off-Site solvent release(s): VHB understands that solvent release(s) have occurred at property(ies) located hydrologically upgradient from the Site and migrated along preferential pathways (i.e., subsurface utility corridors, etc.) to the Site. Installation and sampling of additional groundwater monitoring wells along the Site's western and southwestern property lines will help determine if off-Site solvent release(s) have impacted the Site.

  Should such off-Site release condition(s) exist, the responsible party(ies) would be obligated to conduct environmental site assessment activities and comply with applicable DEP regulations. Under this scenario, the Site owner would be afforded limited protection as an innocent landowner under the Connecticut General Statutes (ref. Section 22a-452d as amended by Public Act 95-190 Section 7). Remediation costs would be incurred by the property owner(s) responsible for such release condition(s).

- Potential past on-site solvent storage in UST 4: Further investigation may confirm past solvent storage in UST 4. Periodic collection and analysis of groundwater samples at the Site will document natural attenuation of solvent concentrations in groundwater over time.

  If further investigation does not confirm the existence of an on-Site solvent source, additional groundwater sampling results may establish that dissolved solvent constituents are decreasing over time. Given plans to demolish the Quonset Building located near Monitoring Well MW-1, the City may choose to pursue an exemption from meeting the volatilization criteria under RSR Section 3(c)(5)(A)(ii) since natural attenuation, absent continuing release condition(s), will likely reduce solvent constituent concentrations within five years.

Railroad Spur Waste Disposal Area

Laboratory analytical results for the Monitoring Well MW-4 groundwater sample reported dissolved copper and zinc concentrations above applicable Surface Water Protection (SWP) Criteria. Based upon current information, copper and zinc concentrations in groundwater appear to be leaching from overlying contaminated fill material (cf. Table 1, Test Pit UST 3/TP-1 soil results). Removal of contaminated fill material from the railroad spur waste disposal area are expected to result in a corresponding reduction in dissolved contaminant concentrations over time.

8

Preliminary Estimates of Probable Remediation Costs

Based on a limited number of test pits, soil borings, groundwater monitoring wells and laboratory analytical data, VHB presents the following preliminary estimates of probable remediation costs for the identified contaminant release areas. The estimates are based upon the performance of contaminated soil remediation activities to achieve applicable RSR Remediation Direct Exposure Criteria. This approach has generated conservative estimates of probable remediation costs which would be reduced if the City chose to institute Environmental Land Use Restrictions (ELURs) at one or more identified contaminant release area(s).

Estimated remediation costs outlined in this chapter include the excavation, loading, transport, and backfill of all excavations, plus other incidental costs for laboratory analyses, environmental engineering support, documentation, and contingency funding. The estimate does not include labor and expenses associated with public involvement activities, project status presentations, site surveying, geotechnical design, and responses to DEP audits. Table 5 summarizes the preliminary estimates of probable remediation costs discussed in this section.

Underground Storage Tank Removals

One 500 ± gallon UST has been confirmed at UST 4. USTs were not identified in suspect UST areas 1, 2, and 3. For budgetary purposes, it is assumed that two 5,000-gallon fuel oil USTs exist that have not been documented. The following cost breakdown has estimated to remove up to three USTs:

UST 2 Area, 1000-gallon UST	$2,500
UST 4 Area, 500-gallon UST	$1,500
UST 5 Area, 2- 5,000-gallon UST	$9,000
Subtotal	$13,000

The above costs include the management and disposal of tank contents, and the excavation, cleaning, removal, and recycling of the tank.

Contaminated soil has been identified within three existing/former UST areas, as shown on Figure 2. Based on field observations and reported laboratory analytical results, the following cost breakdown alternatives have been estimated to excavate, load, transport and on-site asphalt batch or off-site recycle the contaminated soil:

UST 2 Area - 200 c.y. of contaminated soil..... $12,000
UST 4 Area - 60 c.y. of contaminated soil..... $3,600
UST 5 Area - 3,000 c.y. of contaminated soil $180,000

Subtotal..... $195,600

Cost savings may be realized under this item if on-site asphalt batching can be utilized.

Aboveground Storage Tank Removals

One 1,000-gallon aboveground storage tank (AST) with 50 gallon of fuel oil and one 20,000-gallon AST with 6,500 gallons of fuel oil have been identified. The following cost breakdown has been estimated to remove and dispose of the ASTs and tank contents:

1,000-gallon AST..... $1,000
20,000-gallon AST..... $13,000

Subtotal..... $14,000

Estimated costs include the management and disposal of any tank contents, as well as the cleaning, removal, and recycling of the tanks.

Right-Of-Way Waste Disposal Area

Based on the test pits TP-6 to TP-9 excavated and the reported soil analytical results, approximately 1,500 cubic yards of contaminated fill materials exist within the ROW. Due to the nature of the fill material encountered, the remediation alternative includes excavation, loading, and off-site disposal at a Subtitle C RCRA lined hazardous waste landfill.

Excavation and off-site disposal of 1,500 c.y. of RCRA soil $450,000

Test pit ROW/TP-10 and soil boring B-4 identified a TPH within the right-of way. Due to the nature of the contaminated soil encountered, the remediation alternative includes excavation, loading, and off-site asphalt batch recycling.

Excavation and off-site recycling of 600 c.y. of soil $36,000

AST 2 Release Area

Soil boring B-9 identified separate phase No. 4/No. 6 oil at a depth of nine to 11 feet and arsenic concentrations from zero to eleven feet below grade. Based on the soil boring advanced and the reported soil analytical results, approximately 500 cubic yards of contaminated fill and soil materials. It is important to note that the separate phase oil was observed in this area and contaminant mobility over time will impact an increasing volume of soil. Due to the nature of the soil and fill material encountered, the remediation alternative includes excavation, loading, and off-site asphalt batch recycling.

AST 2 - 500 c.y. of contaminated soil $30,000

Railroad Spur Waste Disposal Area

Approximately 450 cubic yards of contaminated soil are anticipated within the waste disposal area identified adjacent to soil boring B-10. Due to the nature of the fill material encountered, the preferred and cost effective remediation alternative is excavation, loading, and off-site disposal at a Subtitle C RCRA lined hazardous waste landfill.

Railroad Waste Disposal Area - 450 c.y. of contaminated soil .$135,000

Surficial Stained Soil

Approximately 130 cubic yards of contaminated soil are anticipated within the two surficial stained soil areas. Due to the nature of the fill material encountered, the remediation alternative includes the excavation, loading, off-site recycling at an asphalt batch recycling plant.

Surficial Stained Soil - 130 c.y. of contaminated soil $7,800

Electrical Transformers

Management of four existing PCB-containing transformers and of PCB-impacted soil at two electrical transformer installations (Transformers 2 and 4) is the responsibility of Northeast Utilities. No costs will be incurred by the City associated with any transformer removal, soil remediation activities, or with any DEP response actions.

Asbestos-Containing Materials

ACM located within the two buildings scheduled for demolition (Quonset Building and Boiler Room) must be removed prior to the start of demolition activities. The estimated cost to remove ACM from these two buildings is $6,000. In buildings where renovation activities are proposed, ACM must be removed from areas that may be disturbed during renovation. Based on initial observations, approximately $8,000 of ACM abatement activities will be necessary to remove damaged ACM within buildings which are anticipated to be renovated.

If ACM is left in place outside of areas that may be disturbed during renovation, an In-Place Operations and Maintenance (O&M) Plan must be developed and implemented when the building is occupied pursuant to OSHA (ref. Title 29 CFR, Chapter 1910.1101). The plan must define which ACM should be repaired or removed and periodically inspected. This information is dependent on proposed renovation plans. The estimated cost to prepare an O&M Program for the facility is $4,000.

The estimated cost to remove all identified ACM from each building at the Site, except the roof flashing cement, is $42,000. If all ACM is removed, no O&M Program would be necessary.

Alternative 1: Abatement from buildings to be demolished, partial abatement from buildings to remain, and preparation of O&M Program

Abatement from buildings to be demolished	$6,000
Partial abatement from buildings to remain	$8,000
Preparation of O&M plan	$4,000
Subtotal	$18,000

Alternative 2: Full abatement of all ACM

ACM Abatement	$42,000

Lead-Based Paint

Lead-based paint (LBP) building components should be removed and segregated prior to the start of demolition activities. In those buildings where renovation activities will disturb LBP, LBP must be removed prior to renovation activities. An O&M Plan must be produced and implemented when the building is occupied pursuant to OSHA located at Title 29 CFR, Chapter 1910.1025. This includes assessing what LBP should be repaired in-place and periodically inspected or

removed and will be dependent on the renovation plans. The estimated cost to prepare an O&M program for the facility is $2,500.

The estimated cost to segregate and recycle or dispose all LBP-coated building components as RCRA-hazardous waste is $20,000. In addition, approximately $8,000 will be necessary to repair (prepare and repaint) damaged LBP-coated building components. Therefore, the estimated cost to remove all LBP located in the Quonset Building and the Boiler Room, and repair damaged LBP-coated building components in the structures to remain, and prepare the O&M Plan is $30,500.

Note that metal building components coated with LBP may be recycled at a metal recycling dealer who accepts LBP-coated metal building components.

RCRA-hazardous waste disposal	$20,000
Prepare and paint damaged LBP	$8,000
Preparation of O&M plan	$4,000
Subtotal	$18,000

Containers of Oil and Hazardous Materials

Based on the quantities of OHM containers included in Appendix G, the estimated cost to remove and recycle/dispose of current inventoried materials is $20,000. This estimate also includes the removal of all mercury-containing bulbs and PCB-containing light ballasts. Once the existing tenants vacate and an additional inventory is compiled, the cost estimate to remove OHM containers may change.

Management of OHM Containers	$20,000

Engineering and Laboratory Analytical Allowance

Environmental engineering fees will include the preparation of contract documents for remediation activities, on-site representation and documentation during cleanup, and report preparation for submittal to DEP.

Environmental Engineering	$75,000

During remediation activities, specific soil samples will be collected and submitted for laboratory analyses in accordance with applicable RSR provisions. Additional soil sampling will be required to further delineate contaminant release areas, close contaminated soil excavation areas, and characterize contaminated soil stockpiles before shipment to appropriate permitted recycling/disposal facilities. Additional

groundwater sampling is also anticipated to determine whether the Site has been impacted by on-site or off-site solvent releases.

Laboratory Analytical Allowance $50,000

Summary of Probable Remediation Cost Estimate

Based upon site investigation limitations and previously stated assumptions, the following estimate of probable remediation costs to address identified release conditions under the current RSRs has been developed for the Site. Please note that this summary represents a conservative estimate of probable remediation costs. Soil remediation to meet applicable Industrial/Commercial Direct Exposure Criteria and associated institution of ELURs will significantly reduce Site redevelopment costs incurred during RSR compliance activities. Table 5 summarizes the preliminary estimates of probable remediation costs discussed in this section.

Underground Storage Tank Removals/Soil Management $208,600
Aboveground Storage Tank Removals $14,000
Right-Of-Way Waste Disposal Area $486,000
AST 2 Release Area $30,000
Railroad Spur Waste Disposal Area $135,000
Surficial Stained Soil $7,800
Asbestos-Containing Materials, *Alternative 2:* $42,000
Lead-Based Paint $18,000
Containers of Oil and Hazardous Materials $20,000
Environmental Engineering Support $75,000
Laboratory Analytical Allowance $50,000

Subtotal $1,086,400

30% Contingency $325,900

TOTAL $1,412,300

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Summary of Findings

The Phase II Environmental Site Assessment activities were conducted to help identify the nature and extent of residual contamination, associated with the generation, storage, and use of oil and hazardous materials at the Site. Based upon available environmental data, this report also identifies potential environmental liabilities that may be incurred upon Site acquisition. The subsurface investigation was performed to help evaluate subsurface conditions in the immediate vicinity of previously identified areas of environmental concern, including former and existing UST locations, existing AST locations and fill areas.

Based on the results of the subsurface investigation, localized areas of residual soil and groundwater contamination exist at the Site in association with previously and newly identified contaminant sources. Laboratory analytical testing confirmed contaminant concentrations that exceed applicable RSR soil and groundwater standards in the following areas associated with underground storage tanks (USTs), aboveground storage tanks (ASTs), and waste disposal sites:

- *Right-Of-Way Waste Disposal Area* - Residual TPH, arsenic, copper, and lead contamination in soil/fill.
- *UST 2 Area* - Residual total petroleum hydrocarbons (TPH) contamination in soil. A UST was reported in this area; however, a concrete pad and subsurface piping prevented access to further investigate the UST under the current scope of services.
- *UST 4 Area* - Residual TPH contamination in soil and VOC and zinc contamination in groundwater. The existence of a 500-gallon single-wall steel UST has been confirmed.
- *Suspect UST 5 Area* - Residual TPH contamination in soil at a depth of four to 12 feet indicates that UST(s) may be present within this area.
- *AST 2 Area* - Residual TPH and arsenic contamination in soil.
- *Railroad Spur Waste Disposal Area* - Residual TPH, SVOC, and arsenic contamination in waste disposal area and copper and zinc contamination in groundwater.
- *Electrical Transformers* - Residual PCB contamination in soil beneath Transformer 2 and Transformer 4.
- *Surficial Stained Soil Areas 1 and 2* - Residual TPH and SVOC contamination.

Regulated building components and miscellaneous containers of hazardous and special waste were also identified at the Site. Regulated building components consist of the following:

- Asbestos containing materials associated with thermal pipe insulation, floor tile, and electrical equipment;
- Lead-based paint associated with fire doors, door jambs, window casings, brick and wood walls, and exterior siding;
- PCB-containing electrical equipment. Four electrical transformers identified at belong to Northeast Utilities who is responsible for their maintenance and disposal;
- Mercury-containing lights associated with fluorescent light fixtures located throughout the buildings; and
- Residual metal dust located on window sills, floors, and other horizontal surfaces within the interiors of Buildings 4, 5, and 10.

Phase II site assessment findings of particular importance to the City's North End redevelopment plans include:

- Adverse environmental impacts at the Site associated with landfill leachate migration from the Municipal Landfill were not identified in the overburden aquifer during this investigation. Water table elevations indicate that local groundwater flows northeasterly toward the Municipal Landfill and adjacent wetland area.
- Groundwater test results reported solvent constituent concentrations in monitoring wells MW-1, MW-4, and MW-5. Additional investigation activities will be required to assess whether groundwater impacts have resulted from potential on-site migration from hydrologically upgradient property(ies) or past on-site solvent storage. To resolve this issue, it is recommended that the City install additional groundwater monitoring wells along the Site's western and southwestern property lines to determine if off-site solvent release(s) have impacted the Site.
- Ten soil contaminant release areas and two groundwater impact areas have been identified at the Site which will require additional response actions pursuant to the DEP's Remediation Standard Regulations (RSRs). The RSRs provide the City flexibility in addressing existing environmental conditions through contaminated soil excavation, on-site contaminated soil treatment and reuse, and/or institution of Environmental Land Use Restrictions (ELURs) where soil cleanup activities would be prohibitively expensive or technically unfeasible.
- A preliminary estimate of probable remediation costs has been developed which projects soil cleanup expenditures at approximately $1.4 million, including engineering fees, anticipated laboratory analytical costs, and a 30% contingency. Soil remediation cost estimates are based upon achieving

applicable RSR Residential Direct Exposure Criteria and Pollutant Mobility Criteria; however, the application of RSR Industrial/Commercial Direct Exposure Criteria and institution of ELURs will reduce actual soil remediation costs incurred during Site redevelopment activities.

References

Phase I Environmental Site Assessment, former Remington Rand Facility, Soil Science and Environmental Services, Inc., April 6, 1993.

City of Middletown, Request for Proposal #9697-049.

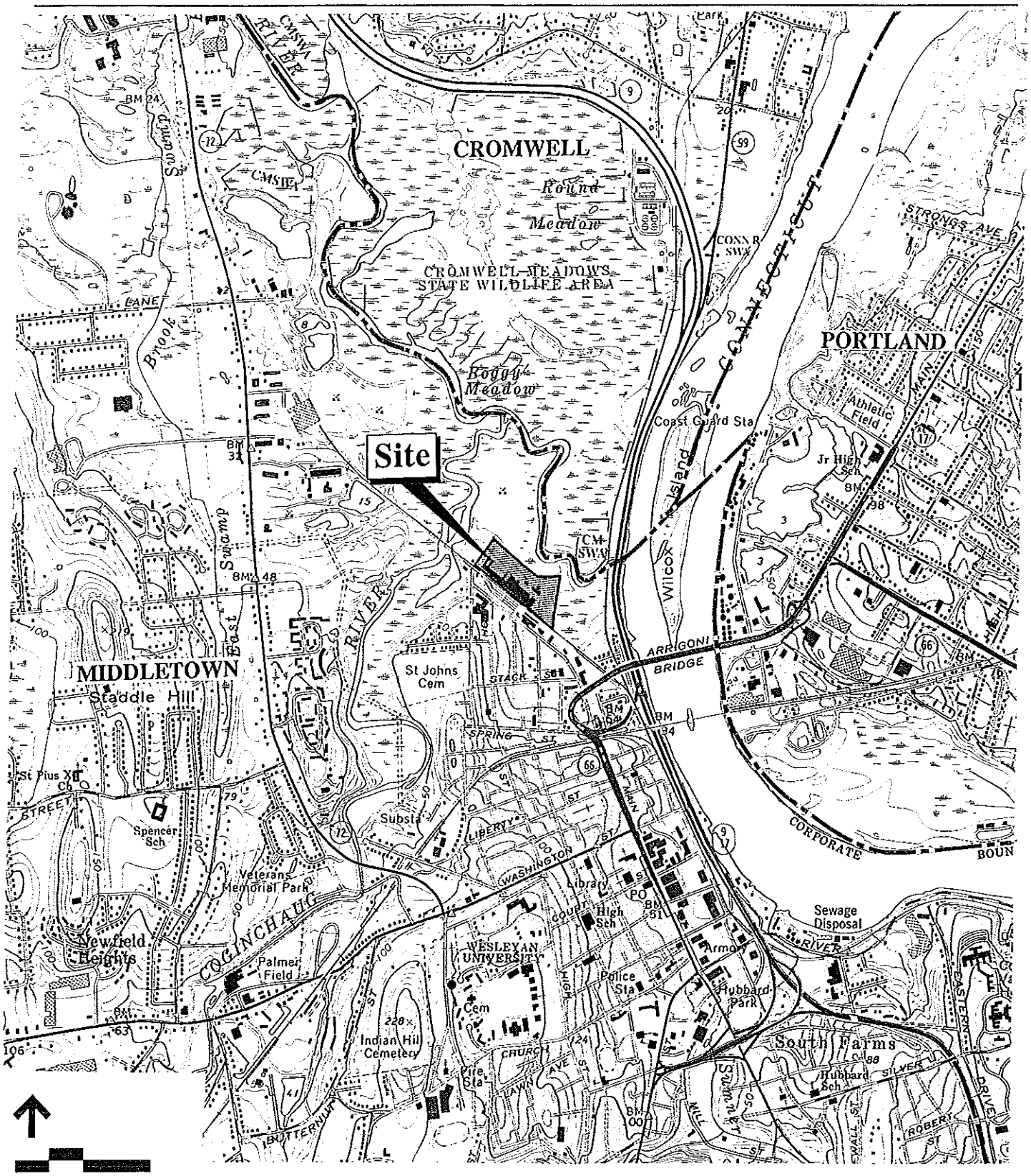
City of Middletown, Topographic Map with drainage Systems and Inland Wetlands Superimposed, Scale 1"=100', April 17, 1980.

Sanborn Fire Insurance Map, Middletown, Connecticut, 1924.

State of Connecticut Regulation of Department of Environmental Protection concerning Remediation Standard.

United States Department of the Interior Geological Survey Quadrangle, Middletown, Connecticut, 1965, Revised 1992.

Figures



Source: USGS Quadrangle Middletown, CT

Vanasse Hangen Brustlin, Inc.

Site Location Map

Figure 1

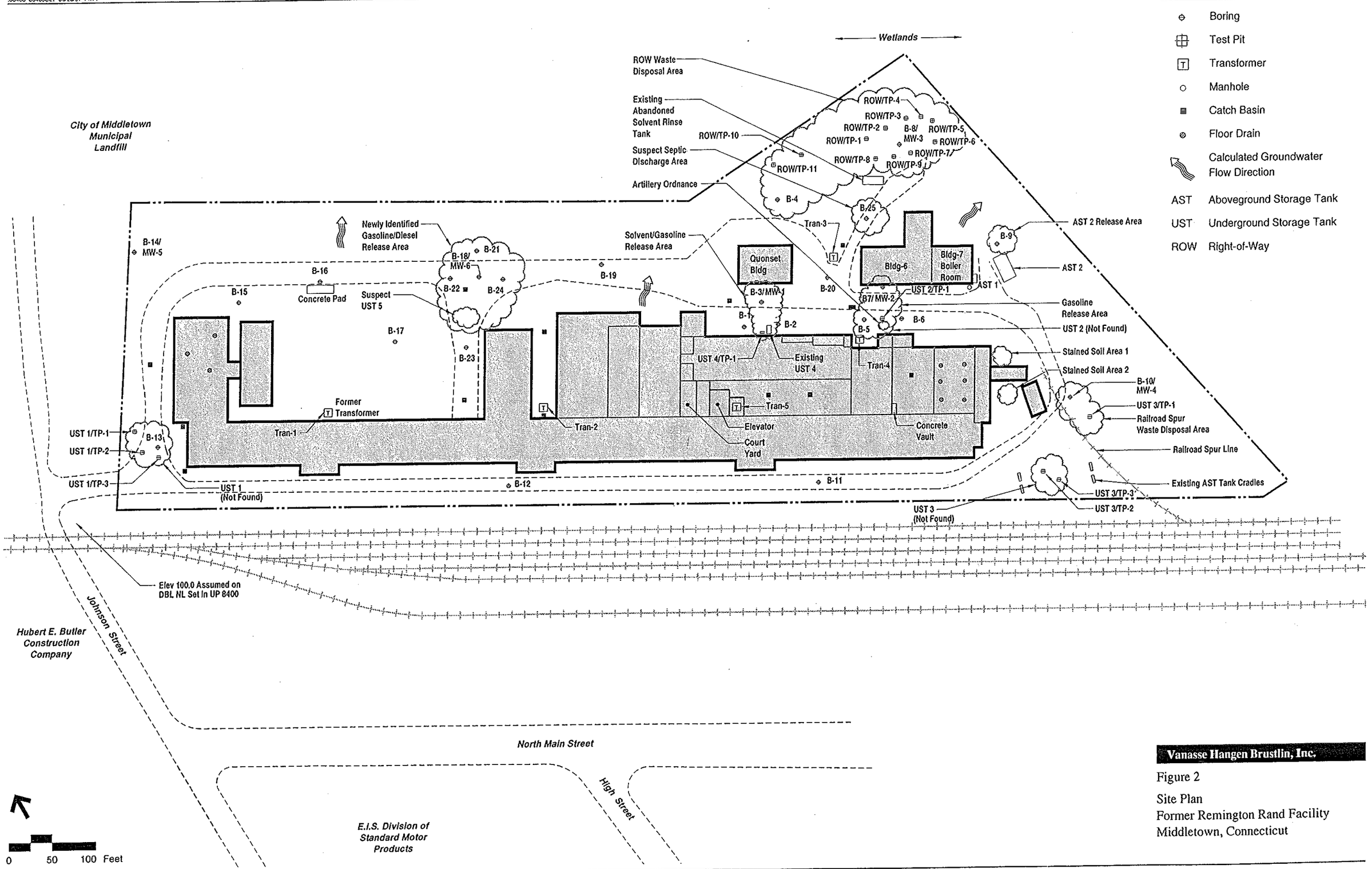


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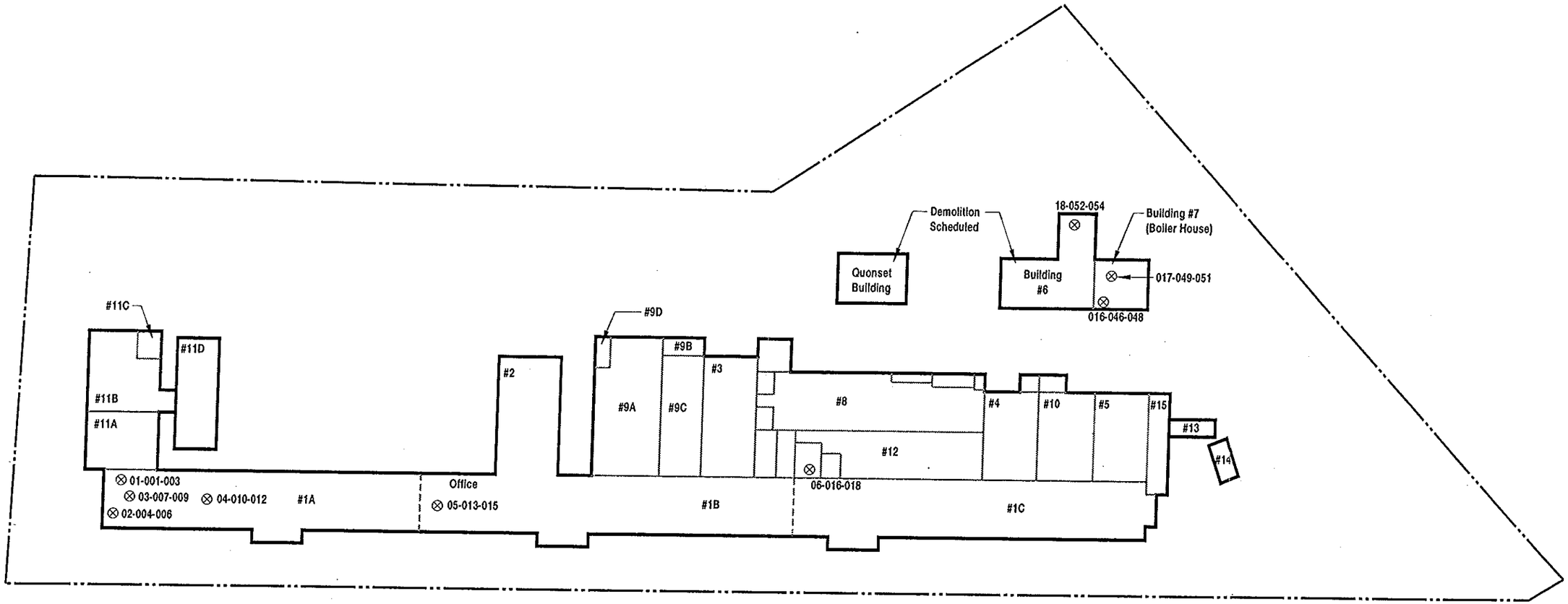
Figure 2

Site Plan
Former Remington Rand Facility
Middletown, Connecticut



0 50 100 Feet

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Figure 3a

Suspect ACM Sampling Locations
First Floor
Former Remington Rand Facility
Middletown, Connecticut

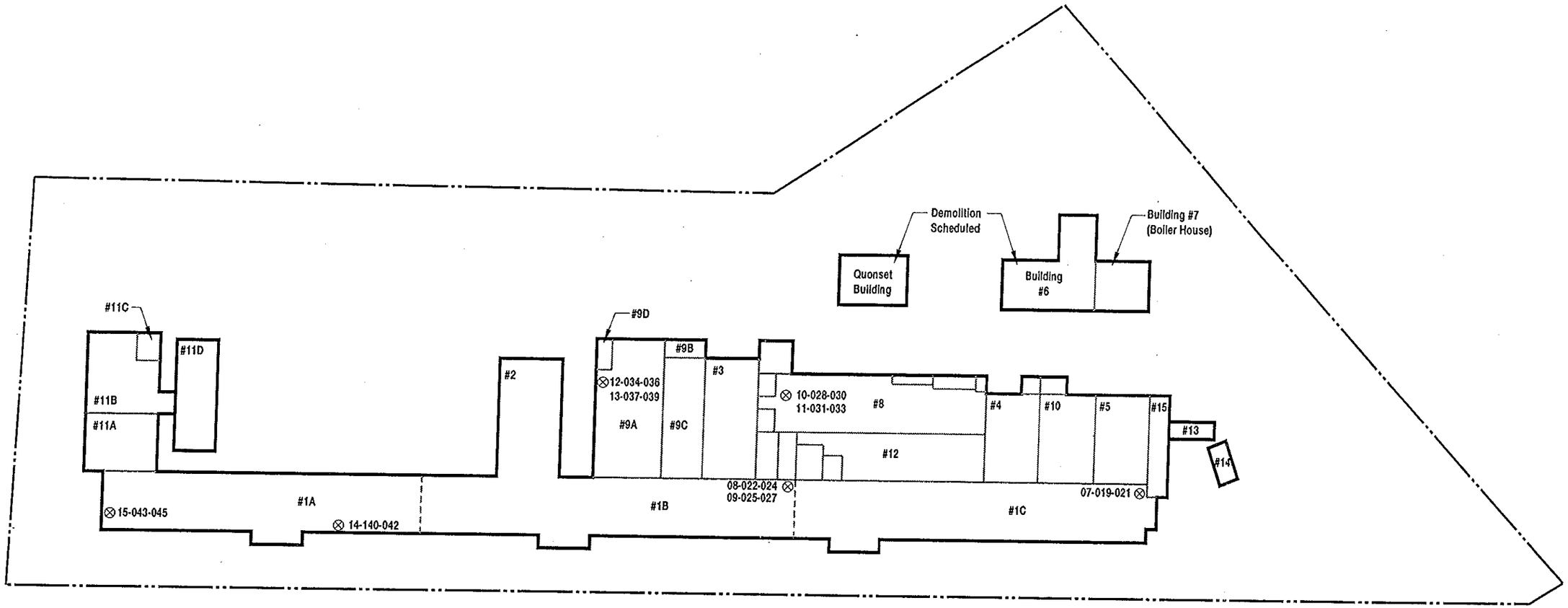

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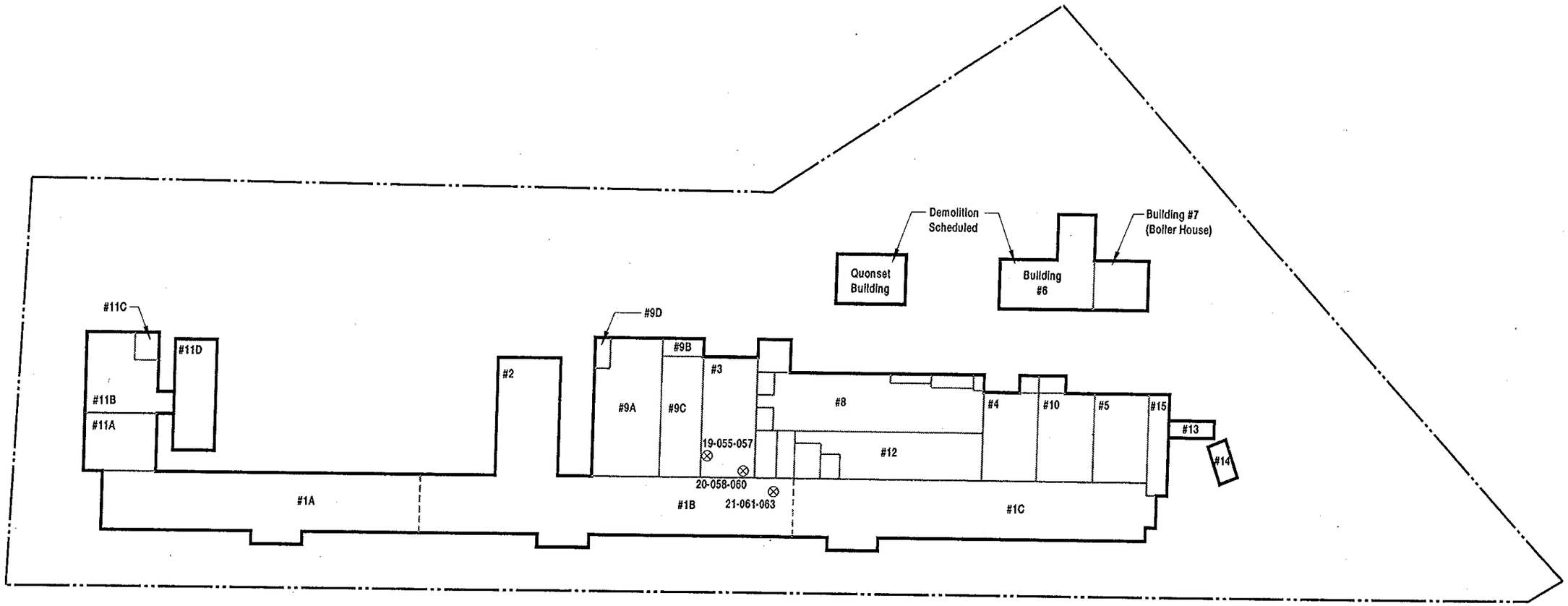
Figure 3b

Suspect ACM Sampling Locations
Second Floor
Former Remington Rand Facility
Middletown, Connecticut



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Vanasse Hangen Brustlin, Inc.

Figure 3c

Suspect ACM Sampling Locations
Third Floor
Former Remington Rand Facility
Middletown, Connecticut

Table 1 Test Pit Soil Sampling Results
Former Remington Rand Facility, 180 Johnson Street, Middletown, CT

Parameter	Source Area / Sample Identification	ROW TP-1	ROW TP-3	ROW TP-6	ROW TP-7	ROW TP-9	ROW TP-10	ROW TP-11	UST 2 TP-1	UST 3 TP-1	UST 3 TP-1	UST 4 TP-1	Residential Direct Exposure Criteria	Industrial/Commercial Direct Exposure Criteria	GB Pollutant Mobility Criteria
EPA Test	Sample Depth Interval	0'-2'	0'-2'	3'-4'	2'-3'	6'-8'	4'-6'	3'-4'	6'	0'-2'	3'-4'	8'			
VOC 8020	1,2-Dichlorobenzene	ns	ns	ns	ns	ns	ns	ns	~	ns	ns	0.159	500		
	Benzene	ns	ns	ns	ns	ns	ns	ns	~	ns	ns	0.089	21		
	Ethylbenzene	ns	ns	ns	ns	ns	ns	ns	0.41	ns	ns	3.59	500		
	Toluene	ns	ns	ns	ns	ns	ns	ns	~	ns	ns	0.349	500		
	Xylene	ns	ns	ns	ns	ns	ns	ns	0.574	ns	ns	3.53	500		
VOC 8240	2-Hexanone	ns	ns	ns	ns	~	20.1	ns	ns	ns	ns	ns	nl		
	Ethylbenzene	ns	ns	ns	ns	~	0.55	ns	ns	ns	ns	ns	500		
	Xylene	ns	ns	ns	ns	~	3.5	ns	ns	ns	ns	ns	500		
TPH 418.1	Various Hydrocarbons	ns	ns	ns	38,200	3,000	7,450	35.2	9,380	ns	830	37,700	500	2,500	2,500
SVOC 8270	2-Methylnaphthalene	~	ns	~	~	~	~	~	ns	ns	129	ns	nl		
	Acenaphthene	~	ns	~	~	~	~	~	ns	ns	146	ns	nl		
	Anthracene	~	ns	~	~	~	~	~	ns	ns	316	ns	1,000		
	Benzo(a)pyrene	~	ns	~	~	~	~	~	ns	ns	400	ns	1	1	1
	Bis(2-ethylhexyl)phthalate	~	ns	~	~	~	3.6	~	ns	ns	~	ns	44		
	Chyrsene	~	ns	~	~	~	~	~	ns	ns	548	ns	nl		
	Dibenzofuran	~	ns	~	~	~	~	~	ns	ns	73.3	ns	nl		
	Fluoranthene	~	ns	~	~	~	~	~	ns	ns	1,270	ns	1,000	2,500	
	Fluorene	~	ns	~	~	~	~	~	ns	ns	85.3	ns	1,000		56
	Indeno(1,2,3-cd)pyrene	~	ns	~	~	~	~	~	ns	ns	163	ns	nl		
	Naphthalene	~	ns	~	~	~	~	~	ns	ns	76.7	ns	1,000		
	Phenanthrene	~	ns	~	~	~	~	~	ns	ns	1,270	ns	1,000	2,500	40
	Pyrene	~	ns	~	~	~	~	~	ns	ns	1,130	ns	1,000	2,500	40
13 PP Metals	Antimony	~	ns	6.23	~	ns	~	ns	ns	~	ns	ns	27		
	Arsenic	~	ns	36.1	28.9	ns	~	ns	ns	87.3	ns	ns	10	10	
	Beryllium	0.33	ns	0.25	0.25	ns	0.44	ns	ns	0.18	ns	ns	2		
	Cadmium	2.54	ns	17.1	7.9	ns	0.14	ns	ns	3.1	ns	ns	34		
	Chromium*	36.6	ns	272	188	ns	14.1	ns	ns	99.8	ns	ns	3,900		
	Copper	180	ns	1,420	29,500	ns	24.4	ns	ns	16,300	ns	ns	2,500	76,000	
	Lead	163	ns	9,130	1,240	ns	7.44	ns	ns	518	ns	ns	500	1,000	
	Mercury	0.082	ns	~	0.059	ns	~	ns	ns	0.31	ns	ns	20		
	Nickel	14.4	ns	434	179	ns	38.3	ns	ns	5,160	ns	ns	1,400	7,500	
	Selenium	~	ns	5.77	15.2	ns	~	ns	ns	85.1	ns	ns	340		
	Silver	34.3	ns	1.93	~	ns	~	ns	ns	~	ns	ns	340		
	Thallium	~	ns	~	~	ns	~	ns	ns	56.2	ns	ns	5.4	160	
	Zinc	905	ns	1,400	17,800	ns	237	ns	ns	2,950	ns	ns	20,000		
Cyanide		ns	1.2	ns	ns	ns	ns	ns	ns	ns	ns	ns	1,400		
SPLP Metals	Chromium	~	ns	0.09	~	ns	~	ns	ns	~	ns	ns			0.5
	Copper	~	ns	~	0.09	ns	~	ns	ns	0.16	ns	ns			13
	Lead	~	ns	0.31	~	ns	~	ns	ns	~	ns	ns			0.15
	Nickel	~	ns	~	0.28	ns	0.08	ns	ns	1.87	ns	ns			1
	Zinc	0.19	ns	0.3	5.45	ns	0.3	ns	ns	1.47	ns	ns			50
Lead 6010		ns	ns	ns	ns	ns	ns	ns	3.5	ns	ns	5.48	500		
PCBs 8080	Various Arochlors	ns	ns	ns	ns	ns	ns	ns	ns	ns	~	ns			

Notes: All analytical results are listed in milligrams per kilogram (mg/kg), roughly equivalent to parts per million (ppm), unless otherwise noted.
SPLP analytical results are listed in milligrams per liter (mg/l), roughly equivalent to parts per million (ppm).
ns, where present, indicates that no sample was collected for the corresponding laboratory analysis.
Results appearing **bold typeface** were reported at concentrations that exceed the applicable CTDEP soil cleanup standard.
nl, where present, indicates that a corresponding CTDEP standard is not listed.
~, where present, indicates the result is less than the laboratory method detection limit.
* Based upon historic waste disposal activities, unstable hexavalent chromium is not likely to be present.

Table 2 Soil Boring and Surface Soil Sampling Results
Former Remington Rand Facility, 180 Johnson Street, Middletown, CT

Parameter	Sample Identification	B-1	B-2	B-3	B-4	B-4	B-5	B-7	B-8	B-9	B-10	B-11	B-12	B-13	B-15	B-16	B-18	Quon-1	Tran-1	Tran-2	Tran-3	Tran-4	Tran-5	Sur-1	Sur-2	Residential Direct Exposure Criteria	Industrial/Commercial Direct Exposure Criteria	GB Pollutant Mobility Criteria
EPA Test	Sample Depth Interval	10'-12'	10'-12'	10'-12'	0-2'	8'-10'	6'-8'	10'-11'	8'-10'	9'-11'	6'-7'	4'-6'	4'-6'	6'-8'	7'-8'	5'-6'	5'-7'	0-1'	0-1'	0-1'	0-1'	0-1'	0-1'	0-1'	0-1'			
VOC 8240	Trichloroethylene	0.058	-	0.029	-	-	-	-	-	ns	ns	ns	ns	ns	-	ns	-	ns	ns	ns	ns	ns	ns	ns	ns	56		
	Xylene	-	-	-	0.84	-	-	-	-	ns	ns	ns	ns	ns	-	ns	-	ns	ns	ns	ns	ns	ns	ns	ns	500		
TPH 418.1	Various Hydrocarbons	37.7	-	47.6	12,300	4,870	4,490	46.2	4,920	62,500	10,400	34.2	25.8	33.5	-	29	5,200	148	ns	ns	ns	ns	ns	1,330	147	500	2,500	2,500
SVOC 8270	2,4-Dimethylphenol	ns	ns	ns	ns	-	ns	ns	-	-	210	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	-	-	nl		
	2-Methylnaphthalene	ns	ns	ns	ns	-	ns	ns	-	10.7	1,000	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	-	-	nl		
	2-Methylphenol (o-cresol)	ns	ns	ns	ns	-	ns	ns	-	-	122	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	-	-	nl		
	3- & 4-Methylphenol (m&p-cresol)	ns	ns	ns	ns	-	ns	ns	-	-	92	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	-	-	nl		
	Acenaphthene	ns	ns	ns	ns	-	ns	ns	-	-	528	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	-	-	nl		
	Acenaphthylene	ns	ns	ns	ns	-	ns	ns	-	-	556	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	-	1.36	1,000		84
	Anthracene	ns	ns	ns	ns	-	ns	ns	-	-	1,500	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	-	2.18	1,000	2,500	
	Benzo(a)anthracene	ns	ns	ns	ns	-	ns	ns	-	-	1,560	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	-	11.7	1	7.8	
	Benzo(a)pyrene	ns	ns	ns	ns	-	ns	ns	-	-	1,380	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	-	14.3	1	1	1
	Benzo(b)fluoranthene	ns	ns	ns	ns	-	ns	ns	-	-	1,200	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	10.4	15	1	7.8	
	Benzo(g,h,i)perylene	ns	ns	ns	ns	-	ns	ns	-	-	-	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	-	6.67	nl		
	Benzo(k)fluoranthene	ns	ns	ns	ns	-	ns	ns	-	-	830	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	-	13.1	8.4	78	56
	Chrysene	ns	ns	ns	ns	-	ns	ns	-	-	1,590	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	-	14.7	nl		
	Di-n-butylphthalate	ns	ns	ns	ns	-	ns	ns	-	-	11.2	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	-	-	1,000		
	Dibenzo(a,h)anthracene	ns	ns	ns	ns	-	ns	ns	-	-	184	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	-	1.83	nl		
	Dibenzofuran	ns	ns	ns	ns	-	ns	ns	-	-	1,000	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	-	0.37	nl		
	Fluoranthene	ns	ns	ns	ns	-	ns	ns	-	-	4,680	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	13.5	21.3	1,000		
	Fluorene	ns	ns	ns	ns	0.43	ns	ns	-	-	1,640	ns	ns	ns	ns	-	2.11	ns	ns	ns	ns	ns	ns	-	0.56	1,000	2,500	56
	Indeno(1,2,3-cd)pyrene)	ns	ns	ns	ns	-	ns	ns	-	-	684	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	-	10	nl		
	Naphthalene	ns	ns	ns	ns	-	ns	ns	-	-	3,700	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	-	-	1,000	2,500	
	Phenanthrene	ns	ns	ns	ns	1.69	ns	ns	1.27	-	6,540	ns	ns	ns	ns	-	2.17	ns	ns	ns	ns	ns	ns	-	9.57	1,000	2,500	40
	Phenol	ns	ns	ns	ns	-	ns	ns	-	-	68.7	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	-	-	1,000		
	Pyrene	ns	ns	ns	ns	-	ns	ns	-	-	3,440	ns	ns	ns	ns	-	-	ns	ns	ns	ns	ns	ns	-	25.1	1,000	2,500	40
13 PP Metals	Arsenic	ns	ns	ns	ns	5.07	ns	ns	-	42.9	11.7	ns	ns	ns	ns	ns	-	ns	ns	ns	ns	ns	ns	10.4	18	10	10	
	Beryllium	ns	ns	ns	ns	0.53	ns	ns	0.55	0.15	-	ns	ns	ns	ns	ns	0.42	ns	ns	ns	ns	ns	ns	0.36	0.47	2		
	Cadmium	ns	ns	ns	ns	0.06	ns	ns	0.07	0.26	2.82	ns	ns	ns	ns	ns	0.06	ns	ns	ns	ns	ns	ns	0.98	0.45	34		
	Chromium*	ns	ns	ns	ns	14.8	ns	ns	13.9	4.42	18.2	ns	ns	ns	ns	ns	10.9	ns	ns	ns	ns	ns	ns	45.8	118	3,900		
	Copper	ns	ns	ns	ns	14.8	ns	ns	13.4	75.8	69.4	ns	ns	ns	ns	ns	13	ns	ns	ns	ns	ns	ns	2,400	506	2,500		
	Lead	ns	ns	ns	ns	7.84	ns	ns	8.54	44.4	296	ns	ns	ns	ns	ns	7.51	ns	ns	ns	ns	ns	ns	266	132	500		
	Mercury	ns	ns	ns	ns		ns	ns		0.044		ns	ns	ns	ns	ns	-	ns	ns	ns	ns	ns	ns	0.073	0.27	20		
	Nickel	ns	ns	ns	ns	12.4	ns	ns	10.9	11.6	39.8	ns	ns	ns	ns	ns	12.5	ns	ns	ns	ns	ns	ns	37	84.2	1,400		
	Selenium	ns	ns	ns	ns		ns	ns	5.5	8.8		ns	ns	ns	ns	ns	6.07	ns	ns	ns	ns	ns	ns	9.34	15.3	340		
	Zinc	ns	ns	ns	ns	39.7	ns	ns	26.5	21.2	1,300	ns	ns	ns	ns	ns	27.5	ns	ns	ns	ns	ns	ns	944	127	20,000		
SPLP Metals	Copper	ns	ns	ns	ns	-	ns	ns	-	0.26	0.3	ns	ns	ns	ns	ns	-	ns	ns	ns	ns	ns	ns	1.07	0.73			13
	Lead	ns	ns	ns	ns	-	ns	ns	-	-	1.37	ns	ns	ns	ns	ns	-	ns	ns	ns	ns	ns	ns	-	-			0.15
	Nickel	ns	ns	ns	ns	-	ns	ns	-	-	0.16	ns	ns	ns	ns	ns	-	ns	ns	ns	ns	ns	ns	-	0.33			1
	Zinc	ns	ns	ns	ns	0.35	ns	ns	0.76	0.26	6.55	ns	ns	ns	ns	ns	0.15	ns	ns	ns	ns	ns	ns	3.12	1.1			50
PCBs 8080	Various Arochlors	ns	ns	ns	ns	ns	ns	ns	ns	ns	0.746	ns	ns	ns	ns	ns	ns	0.383	0.154	1.02	0.762	1.68	0.609	-	-	1	10	
Herbicides 8150		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	-	ns	ns	ns	ns	ns	ns	ns			

Notes: All analytical results are listed in milligrams per kilogram (mg/kg), roughly equivalent to parts per million (ppm), unless otherwise noted.
SPLP analytical results are listed in milligrams per liter (mg/l), roughly equivalent to parts per million (ppm).
ns, where present, indicates that no sample was collected for the corresponding laboratory analysis.
Results appearing bold typeface were reported at concentrations that exceed the applicable CTDEP soil cleanup standard.
nl, where present, indicates that a corresponding CTDEP standard is not listed.
-, where present, indicates the result is less than the laboratory method detection limit.
* Based upon historic waste disposal activities, unstable hexavalent chromium is not likely to be present.

Table 3 Groundwater Monitoring Well Results
Former Remington Rand Facility, 180 Johnson Street, Middletown, CT

Parameter EPA Test	Sample Identification	Well MW-1	Well MW-2	Well MW-3	Well MW-4	Well MW-5	Well MW-6	Surface Water Protection Criteria	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
VOC 8240	Trichloroethylene	**0.275**	–	–	0.037	0.0167	–	2.34	**0.219**	0.54
	1,1 Dichloroethylene	**0.0031**	–	–	–	–	–	0.096	**0.001**	0.006
	cis-1,2-Dichloroethylene	0.0716	–	–	–	–	–	nl	nl	
	t-1,2Dichloroethylene	0.0012	–	–	–	–	–	nl	nl	
	Vinyl Chloride	0.0179	–	–	–	–	–	157.5	**0.002**	**0.002**
	Methyl Tert-Butyl Ether	–	2.11	–	–	–	–	nl	50	
	Methylene Chloride	–	0.061	–	–	–	–	48	50	
	Chlorobenzene	–	–	–	–	0.0037	–	420	1.8	
	Chloroethane	–	–	–	–	0.0145	–	nl	nl	
TPH 418.1	Various Hydrocarbons	–	0.65	8.93	–	–	16.1	nl		
SVOC 8270	Various Compounds	–	–	–	–	–	–			
13 PP Metals	Cadmium	0.003	–	–	–	–	–	0.006		
	Copper	–	–	0.0015	**0.0824**	0.0028	0.0016	**0.048**		
	Nickel	0.014	0.059	0.009	0.284	0.012	–	0.88		
	Zinc	**0.213**	0.02	0.118	**0.298**	0.022	0.014	**0.123**		
PCBs 8080	Various Arochlors	–	–	–	–	–	–			
Herbicides 8150		–	–	–	–	–	–			
BOD 5-day		ns	ns	–	ns	2.8	ns	nl		
Chloride		ns	ns	5.4	ns	6.6	ns	nl		
Nitrate		ns	ns	–	ns	–	ns	nl		
Ammonia		ns	ns	1.96	ns	–	ns	nl		
Total Iron		ns	ns	15	ns	138	ns	nl		
Total Maganese		ns	ns	18.9	ns	49.8	ns	nl		
TDS		ns	ns	468	ns	280	ns	nl		
TSS		ns	ns	76	ns	520	ns	nl		
pH		ns	ns	6.45	ns	6.07	ns	nl		
Conductivity	(uohms/cm)	ns	ns	740	ns	520	ns	nl		
Alkalinity		ns	ns	390	ns	300	ns	nl		

Notes: Unless otherwise indicated, all analytical results are listed in milligrams per liter (mg/L), roughly equivalent to parts per million (ppm).
ns, where present, indicates that no sample was collected for the corresponding laboratory analysis.
Results appearing **bold typeface** were reported at concentrations that exceed the applicable CTDEP groundwater cleanup standard.
nl, where present, indicates that a corresponding CTDEP standard is not listed.
–, where present, indicates the result is less than the laboratory method detection limit.

Table 4 Wipe Sampling Results
Former Remington Rand Facility, 180 Johnson Street, Middletown, CT

Parameter EPA Test	Source Area Sample Identification Location in Room	Wipe 10-F Floor	Wipe 10-NW North Sill	Wipe 10-SW South Sill	Wipe 4-EW East Sill	Wipe 4-WW West Sill	Wipe 5-ES Electric Switch	Wipe 5-EW East Sill	Wipe 5-FD Fire Door	CT DPH Standard
13 PP Metals	Antimony	~	~	~	0.07	~	0.09	~	0.12	
	Arsenic	0.42	0.47	0.33	0.58	0.83	0.37	0.36	0.62	
	Beryllium	0.003	0.004	0.007	0.03	0.004	0.002	0.003	0.005	
	Cadmium	0.07	0.079	0.144	0.102	0.135	8.44	0.211	0.203	
	Chromium	0.651	0.627	1.94	4.05	2.15	0.428	0.301	0.779	
	Copper	1.02	1.26	2.86	1.71	3.6	0.717	1.01	1.55	
	Lead	2.57	5.15	7.25	3.81	26.1	6.23	6.66	37.7	500
	Mercury	0.0052	0.007	0.016	0.004	0.019	0.006	0.0044	0.072	
	Nickel	0.495	0.502	0.952	1.11	4.03	0.2	0.292	0.595	
	Selenium	~	0.13	0.16	~	0.5	~	~	0.13	
	Silver	0.02	~	0.02	0.06	0.48	~	0.02	~	
	Thallium	~	~	~	~	~	~	~	~	
	Zinc	7.92	10.5	12.2	9.35	46.1	19.2	10.6	46	

Notes: All analytical results are listed in micrograms per square centimeter (ug/cm^2).
~, where present, indicates the result is less than the laboratory method detection limit.

Table 5: Summary of Estimates of Probable Remediation Costs, Former Remington Rand Facility, 180 Johnson Street, Middletown, CT

Source Area	Remedial Action Alternative	Volume of Contaminated Soil (cubic yards)	Estimated Cost	Comments/Assumptions
ROW Waste Disposal Area (TP-6 to TP-9)	Soil excavation and disposal at a RCRA landfill	1,500	$450,000	Institution of an ELUR in the ROW will reduce soil remediation costs
ROW Waste Disposal Area (TP-11 and B-4)	Soil excavation and off-site asphalt batching	600	$36,000	Institution of an ELUR in the ROW will reduce soil remediation costs
UST Area 2	Soil excavation and off-site asphalt batching	200	12,000	UST was not identified; further investigation of source and extent of release is warranted
UST Area 4	Soil excavation and off-site asphalt batching	60	3,600	Further investigation of potential on-site solvent storage is warranted
UST Area 5	Soil excavation and off-site asphalt batching	3,000	180,000	Extent of contamination is not fully delineated; further investigation is recommended
AST 2 Release Area	Soil excavation and off-site asphalt batching	500	30,000	Extent of contamination is not fully delineated; separate phase oil is present; further investigation is warranted
Railroad Spur Waste Disposal Area	Soil excavation and disposal at a RCRA landfill	450	135,000	Extent of contamination is not fully delineated; further investigation is warranted
Electrical Transformers	Soil excavation and off-site asphalt batching	60	No Cost	Additional testing and remediation of PCB-impacted soil is recommended; Northeast Utilities is responsible for additional RSR activities
Surficial Stained Soil Areas	Soil excavation and off-site asphalt batching	130	7,800	Pursuit of Residential Direct Exposure Criteria is recommended for this area
UST Removals	Tank removal and disposal	NA	13,000	
AST Removals	Tank removal and disposal	NA	14,000	
Asbestos	Removal and off-site disposal	NA	42,000	Most conservative cost estimate is presented here
Lead-Based Paint	Removal and off-site disposal	NA	18,000	
Containers of OHM	Consolidation and off-site recycling/disposal	NA	20,000	Current tenants should be required to appropriately managed OHM upon vacating premises
Analytical Allowance	NA	NA	50,000	
Engineering Allowance	NA	NA	75,000	
Subtotal			$1,086,400	
30% Contingency			$325,900	
TOTAL			**$1,412,300**	

Appendix A
Limitations

Limitations

Former Remington Rand Facility
180 Johnson Street
Middletown, Connecticut

- This report has been prepared for the sole and exclusive use of the City of Middletown Economic Development Committee (Client) and is subject to and issued in connection with the Agreement and the provisions thereof. Any use or reliance upon information provided in this report, without the specific written authorization of Client and VHB, shall be at User's sole risk.

- In conducting this assessment, VHB has obtained and relied upon information from multiple sources to form certain conclusions regarding potential environmental issues at and in the vicinity of the subject parcel(s). Except as otherwise noted, VHB has not verified the accuracy or completeness of such information.

- The objectives of the assessment described in this report were to observe the physical characteristics of the subject parcels(s) with respect to evidence of past or present use, storage and/or disposal of oil or hazardous materials, as defined in applicable state and federal environmental law and regulations, and to gather information regarding current and past operations and environmental conditions at and in the vicinity of the subject parcel(s).

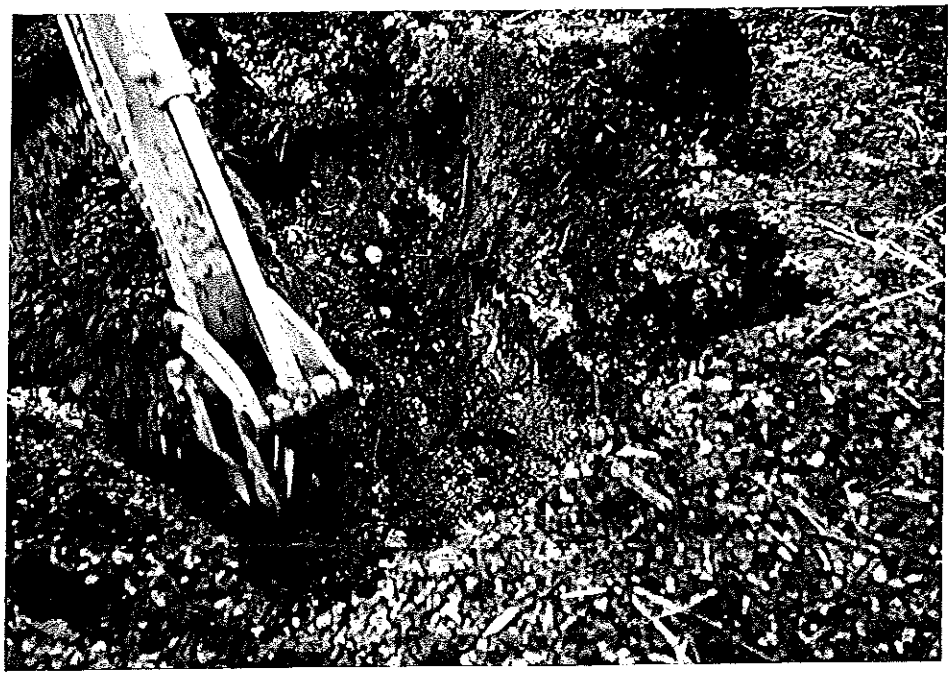
- No attempt has been made to assess the compliance status of any past or present Owner or Operator of the Site with any federal, state or local laws or regulations.

- The findings, observations and conclusions presented in this report, including the extent of subsurface explorations and other tests, are limited by the scope of services outlined in our Agreement. Furthermore, the assessment has been performed in accordance with generally accepted engineering practices. No other warranty, expressed or implied, is made.

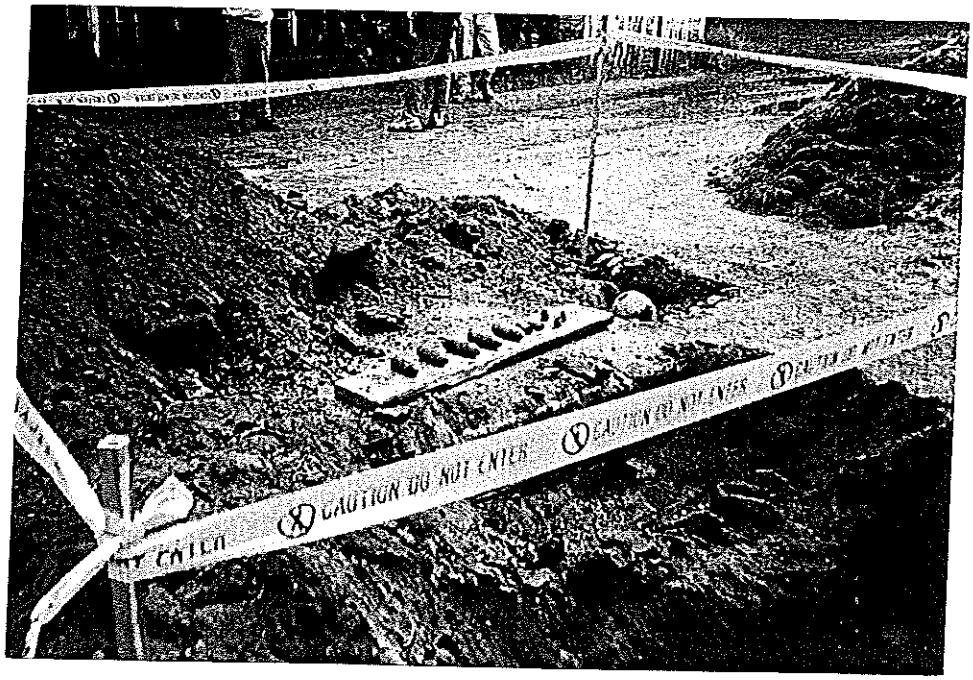
- The assessment presented in this report is based solely upon information gathered to date, including a limited number of subsurface explorations made on the dates indicated. Should further environmental or other relevant information be developed at a later date, Client should bring the information to the attention of VHB as soon as possible. Based upon an evaluation, VHB may modify the report and its conclusions.

Appendix B
Site Photographs

Photograph 1: Suspect UST Area 1, Test Pit Excavation

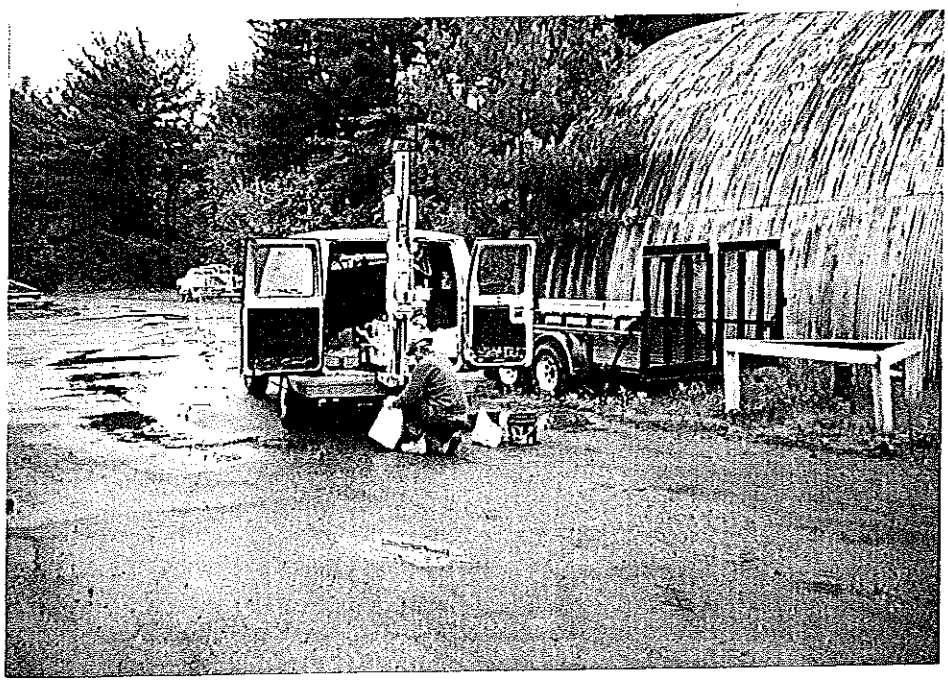


Photograph 2: Test Pit Excavation Within Right-of-Way

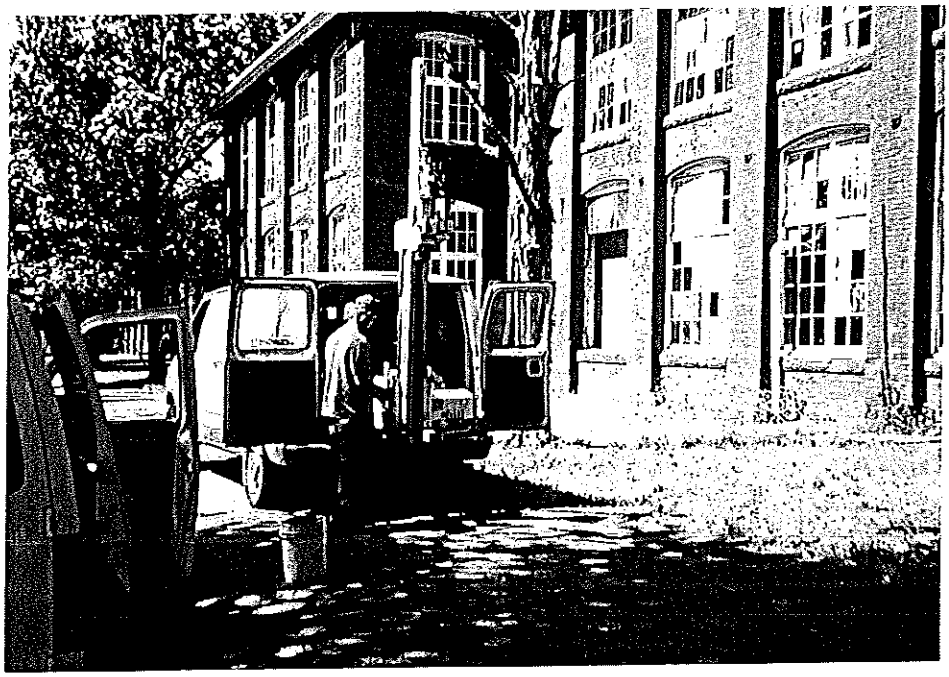


Photograph 3: World War II Ordinance Within Suspect UST Area 2

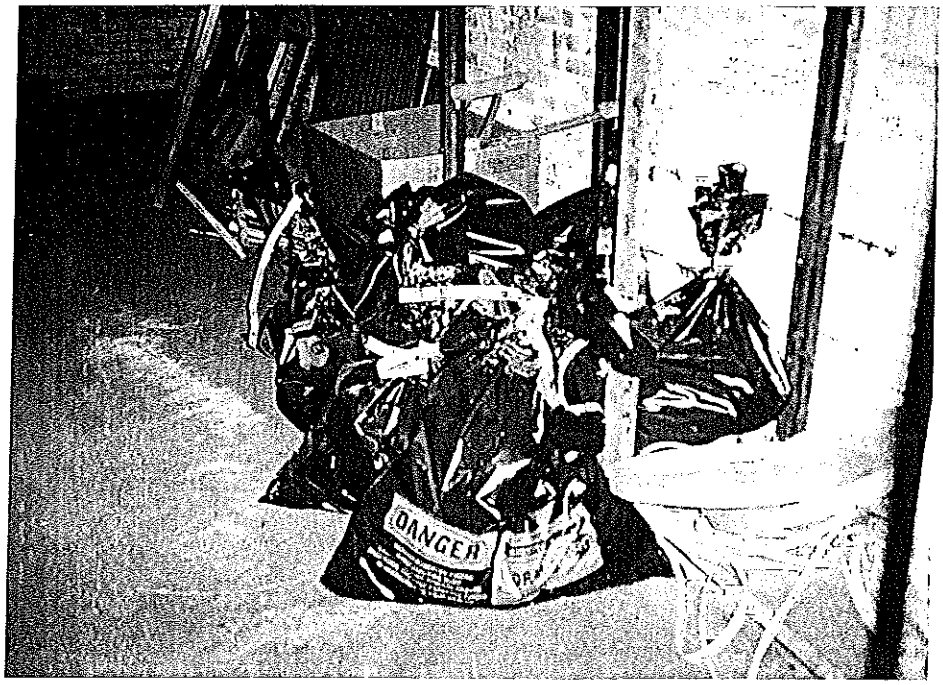
Photograph 4: GeoProbe® Soil Boring B-17



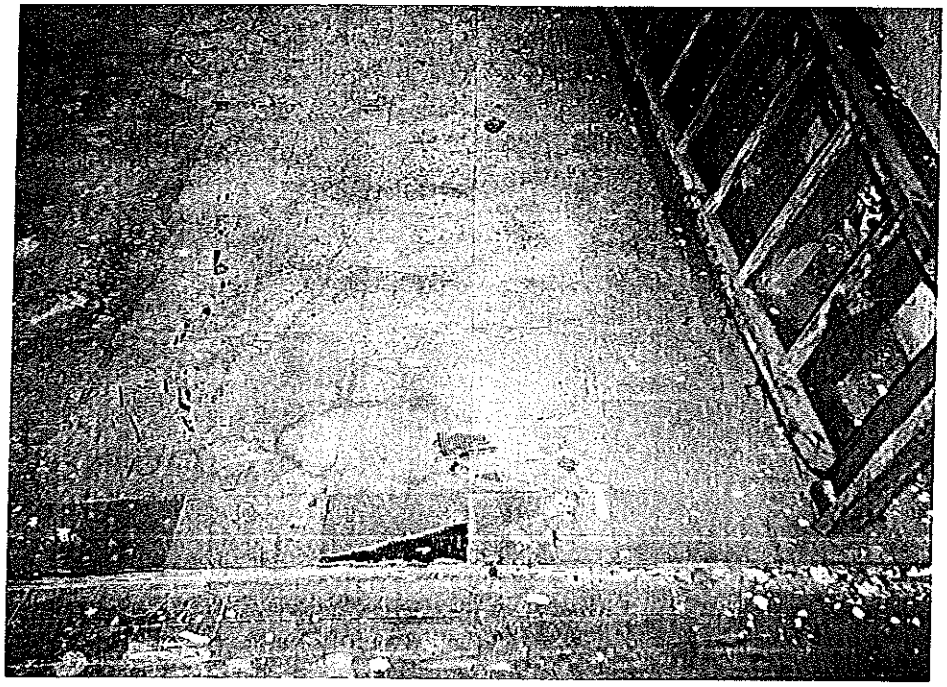
Photograph 5: GeoProbe® Soil Boring B-3/MW-1



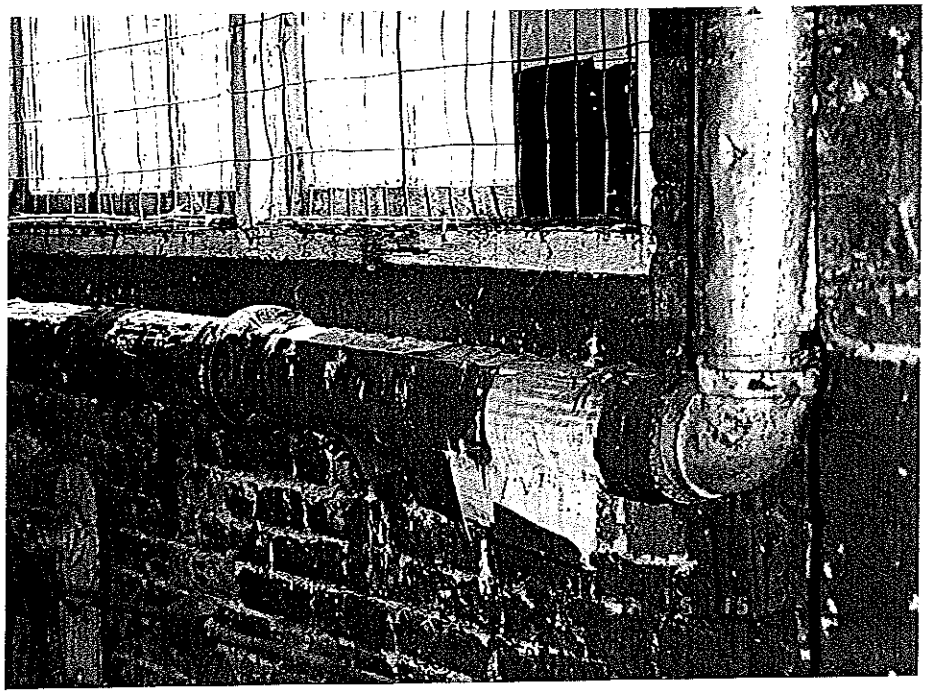
Photograph 6: GeoProbe® Soil Boring B-11



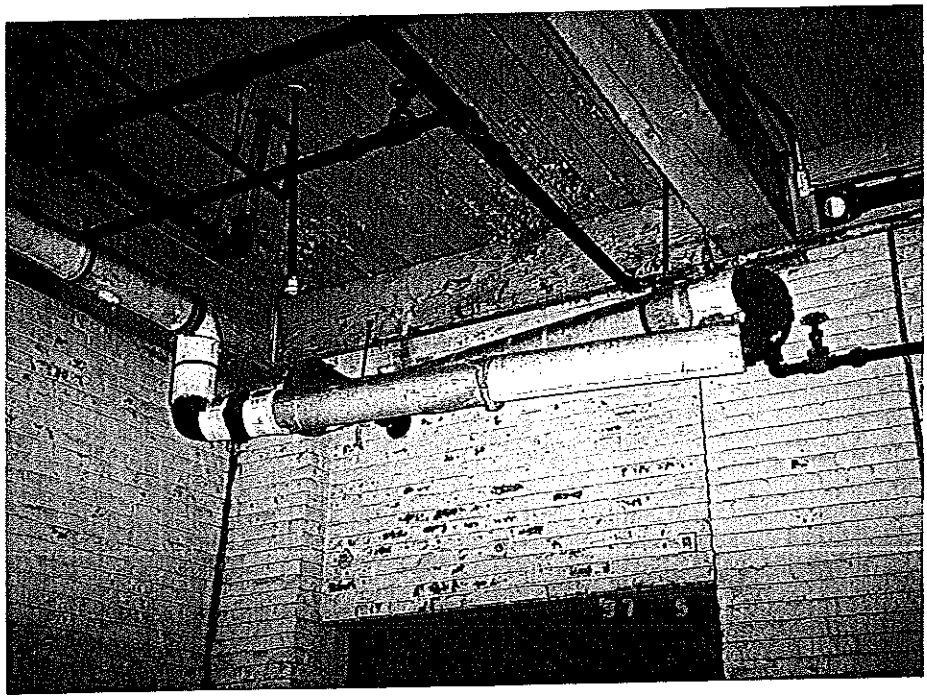
Photograph 7: Bags of Asbestos Within Room #1C



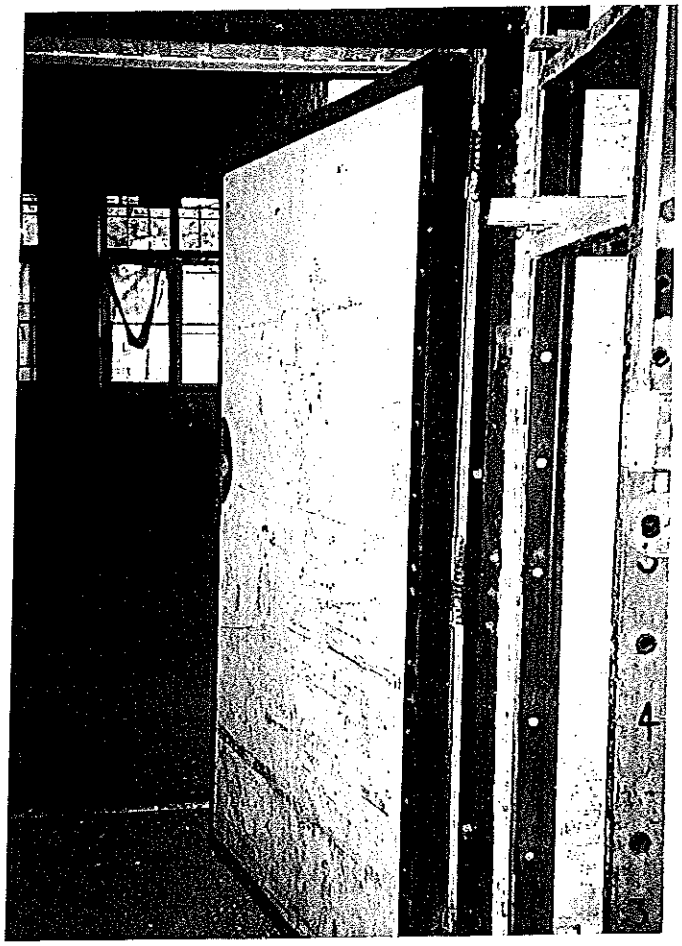
Photograph 8: Suspect Asbestos-Containing Floor Tile



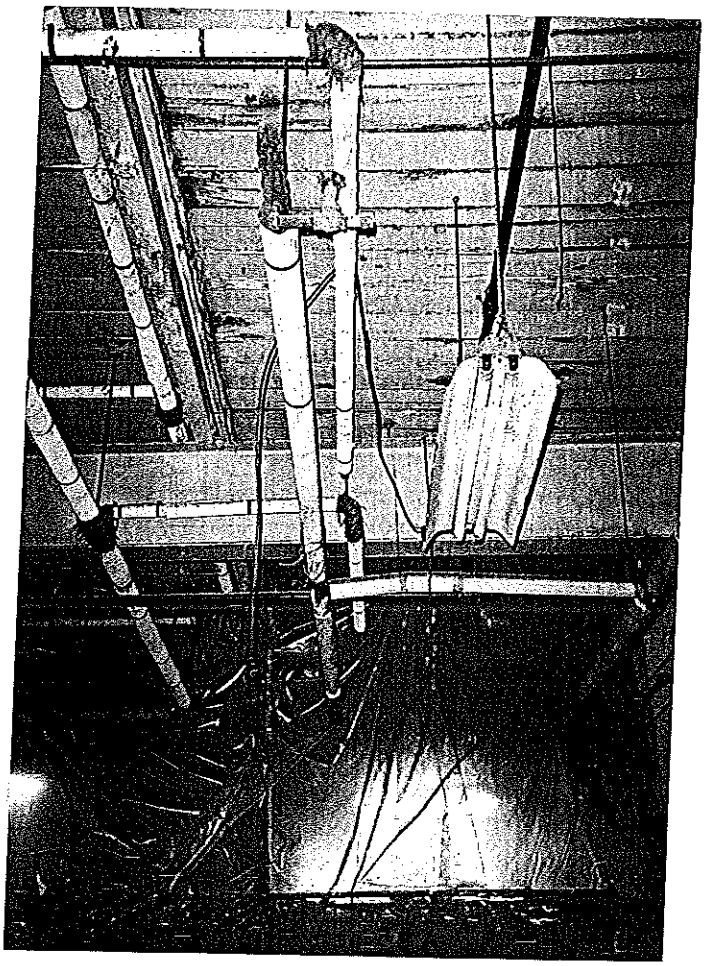
Photograph 9: Asbestos Pipe Insulation in Boiler Room #7



Photograph 10: Asbestos Pipe Insulation in Room #8

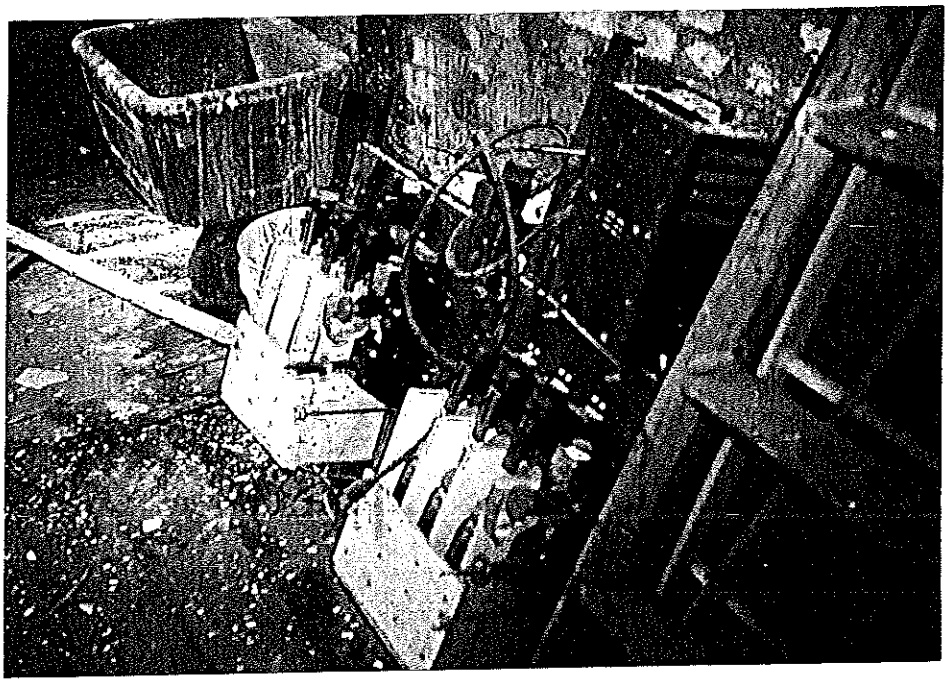


Photograph 11: Fire Door Containing Asbestos in Room #1C

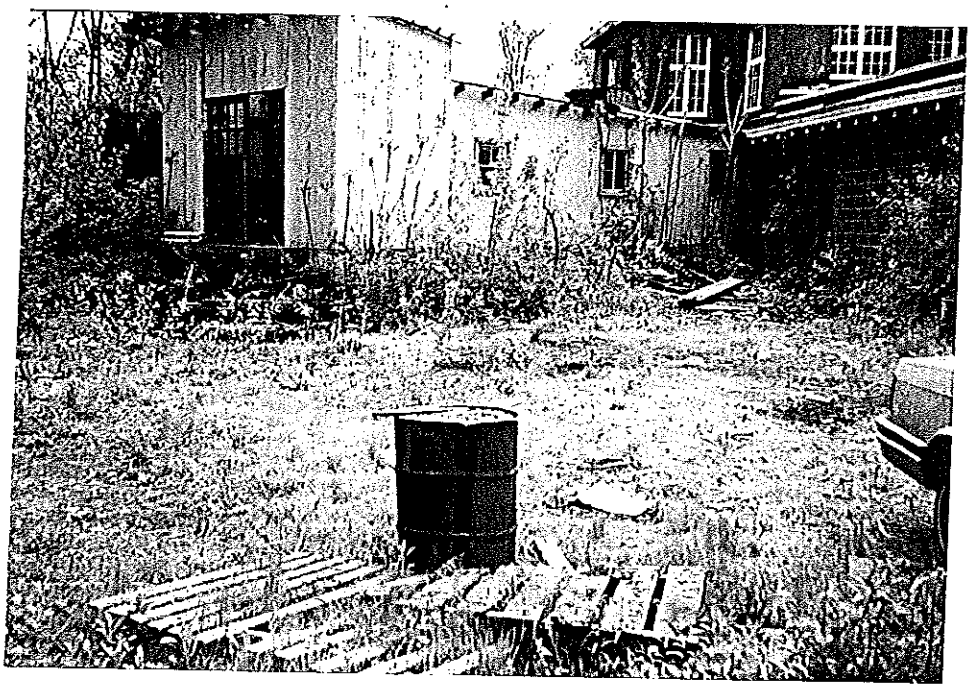


Photograph 12: Asbestos Pipe Insulation, and Fluorescent Light Fixture in Room #6a

Photograph 13: Mercury Vapor Lights Within Room #1C

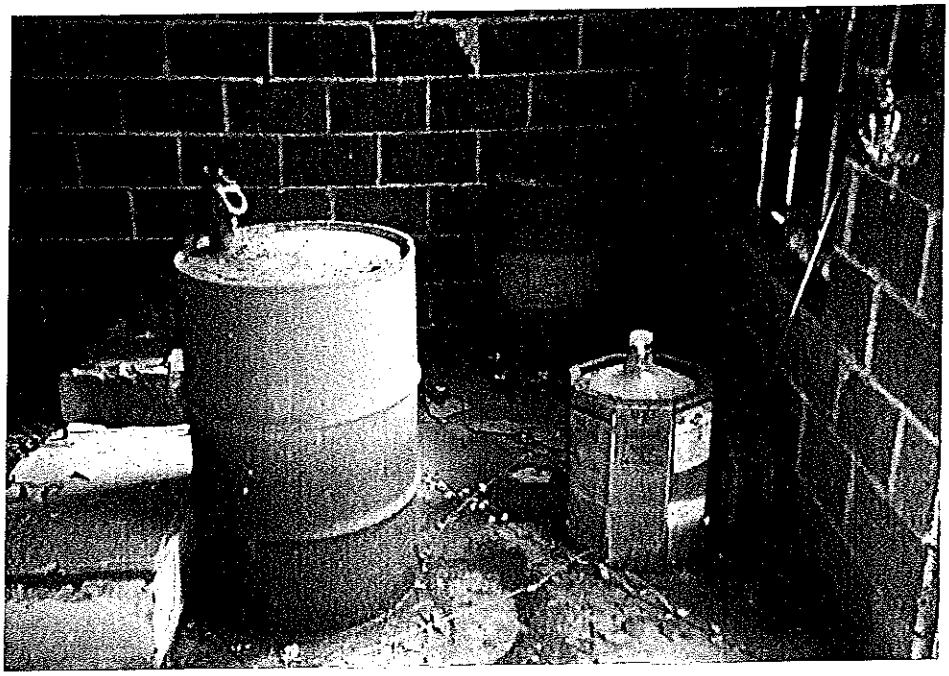


Photograph 14: Electric Circuit Breaker Containing PCB Fluids and Asbestos



Photograph 15: 55-Gallon Drum of Waste Oil/Water Adjacent to Room #15

Photograph 16: Miscellaneous Containers of Paint in Boiler Room #7



Photograph 17: Glass Container of HCl and Unknown Drums of Liquids

Photograph 18: Miscellaneous Containers of Insecticides and Pesticides in Room #6

Appendix C
Test Pit and Soil Boring Logs

VHB

Test Pit Log

Date: 5/15/97
Client: City of Middletown
Location: Former Remington Rand Facility
180 Johnson Street, Middletown, CT
VHB Eng.: Marc Richards
Contractor: Civetti Excavation

Job Number: 40163
Test Pit No.: UST1, TP-1
Ground Elev.:
Equipment: Case 580 Backhoe

Sample #	Depth	Soil Description	Excav. Effort	Remarks
		Dark black fine to medium sand.	E	Fill
	1	Reddish brown silty soil, some gravel.	E	
	2			
	3	Light brown fine to medium sand.	E	Groundwater at 3.5 to 4 feet. No sheens or odors on groundwwater.
	4			

Legend

F = Fine M = Medium C = Coarse
F/M = Fine to Medium F/C = Fine to Coarse
V. = Very Lt. = Light Dk. = Dark
Gr. = Grey Br. = Brown Yel. = Yellow Org. = Orange
U.S.C. Code = Unified Soil Classification

Trace (Tr.) 0-10%
Little (Li.) 10-20%
Some (So.) 20-35%
And (&) 35-50%

Excavation Effort:
E = Easy
M = Moderate
D = Difficult

Groundwater

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VHB

Test Pit Log

Date: 5/15/97
Client: City of Middletown
Location: Former Remington Rand Facility
180 Johnson Street, Middletown, CT
VHB Eng.: Marc Richards
Contractor: Civetti Excavation

Job Number: 40163
Test Pit No.: UST1, TP-2
Ground Elev.:
Equipment: Case 580 Backhoe

Sample #	Depth	Soil Description	Excav. Effort	Remarks
		Dark black fine to medium sand.	E	Fill
	1	Reddish brown silty soil, some gravel.	E	Stopped excavating due to a 2-inch steel pipe at base of excavation.
	2			

Legend

F = Fine M = Medium C = Coarse
F/M = Fine to Medium F/C = Fine to Coarse
V. = Very Lt. = Light Dk. = Dark
Gr. = Grey Br. = Brown Yel. = Yellow Org. = Orange
U.S.C. Code = Unified Soil Classification

Trace (Tr.) 0-10%
Little (Li.) 10-20%
Some (So.) 20-35%
And (&) 35-50%

Excavation Effort:
E = Easy
M = Moderate
D = Difficult

Groundwater

VHB

Test Pit Log

Date: 5/15/97
Client: City of Middletown
Location: Former Remington Rand Facility
180 Johnson Street, Middletown, CT
VHB Eng.: Marc Richards
Contractor: Civetti Excavation

Job Number: 40163
Test Pit No.: UST1, TP-3
Ground Elev.:
Equipment: Case 580 Backhoe

Sample #	Depth	Soil Description	Excav. Effort	Remarks
		Dark black fine to medium sand.	E	Fill
	1	Reddish brown silty soil, some gravel.	E	
	2			
	3	Light brown fine to medium sand.	E	Groundwater at 3.5 to 4 feet. No sheens or odors on groundwwater.
	4			

Legend

F = Fine M = Medium C = Coarse
F/M = Fine to Medium F/C = Fine to Coarse
V. = Very Lt. = Light Dk. = Dark
Gr. = Grey Br. = Brown Yel. = Yellow Org. = Orange
U.S.C. Code = Unified Soil Classification

Trace (Tr.) 0-10%
Little (Li.) 10-20%
Some (So.) 20-35%
And (&) 35-50%

Excavation Effort:
E = Easy
M = Moderate
D = Difficult

Groundwater

VHB

Test Pit Log

Date: 5/15/97
Client: City of Middletown
Location: Former Remington Rand Facility
180 Johnson Street, Middletown, CT
VHB Eng.: Marc Richards
Contractor: Civetti Excavation

Job Number: 40163
Test Pit No.: UST2, TP-1
Ground Elev.:
Equipment: Case 580 Backhoe

Sample #	Depth	Soil Description	Excav. Effort	Remarks
	1, 2, 3, 4, 5	Reddish brown silty soil, some clay.	E	
	6	Light grey silty sand. Strong gasoline odors.	E	Groundwater at 6.5 feet.
	7			

Legend

F = Fine M = Medium C = Coarse
F/M = Fine to Medium F/C = Fine to Coarse
V. = Very Lt. = Light Dk. = Dark
Gr. = Grey Br. = Brown Yel. = Yellow Org. = Orange
U.S.C. Code = Unified Soil Classification

Trace (Tr.) 0-10%
Little (Li.) 10-20%
Some (So.) 20-35%
And (&) 35-50%

Excavation Effort:
E = Easy
M = Moderate
D = Difficult

Groundwater

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VHB — Test Pit Log

Date: 5/15/97
Client: City of Middletown
Location: Former Remington Rand Facility
180 Johnson Street, Middletown, CT
VHB Eng.: Marc Richards
Contractor: Civetti Excavation

Job Number: 40163
Test Pit No.: UST3, TP-1
Ground Elev.:
Equipment: Case 580 Backhoe

Sample #	Depth	Soil Description	Excav. Effort	Remarks
	1	Melted rock/metal/slag material. Some metal filings.	D	Fill, mild tar odors.
	2	Very hard black tar material.	D	Fill
	3			
	4	Dark brown silty soil, some gravel.	M	Natural
	5			
	6			

Legend

F = Fine M = Medium C = Coarse
F/M = Fine to Medium F/C = Fine to Coarse
V. = Very Lt. = Light Dk. = Dark
Gr. = Grey Br. = Brown Yel. = Yellow Org. = Orange
U.S.C. Code = Unified Soil Classification

Trace (Tr.) 0-10%
Little (Li.) 10-20%
Some (So.) 20-35%
And (&) 35-50%

Excavation Effort:
E = Easy
M = Moderate
D = Difficult

▽ Groundwater

VHB

Test Pit Log

Date: 5/15/97
Client: City of Middletown
Location: Former Remington Rand Facility
180 Johnson Street, Middletown, CT
VHB Eng.: Marc Richards
Contractor: Civetti Excavation

Job Number: 40163
Test Pit No.: UST3, TP-2
Ground Elev.:
Equipment: Case 580 Backhoe

Sample #	Depth	Soil Description	Excav. Effort	Remarks
	1 2 3 4 5 6	Reddish brown silty soil, some clay.	E	No odors or indications of oil and/or hazardous materials throughout test pit.

Legend

F = Fine M = Medium C = Coarse
F/M = Fine to Medium F/C = Fine to Coarse
V. = Very Lt. = Light Dk. = Dark
Gr. = Grey Br. = Brown Yel. = Yellow Org. = Orange
U.S.C. Code = Unified Soil Classification

Trace (Tr.) 0-10%
Little (Li.) 10-20%
Some (So.) 20-35%
And (&) 35-50%

Excavation Effort:
E = Easy
M = Moderate
D = Difficult

Groundwater

VHB

Test Pit Log

Date: 5/15/97
Client: City of Middletown
Location: Former Remington Rand Facility
180 Johnson Street, Middletown, CT
VHB Eng.: Marc Richards
Contractor: Civetti Excavation

Job Number: 40163
Test Pit No.: UST3, TP-3
Ground Elev.:
Equipment: Case 580 Backhoe

Sample #	Depth	Soil Description	Excav. Effort	Remarks
	1 2 3 4 5 6	Reddish brown silty soil, some clay.	E	No odors or indications of oil and/or hazardous materials throughout test pit.

Legend

F = Fine M = Medium C = Coarse
F/M = Fine to Medium F/C = Fine to Coarse
V. = Very Lt. = Light Dk. = Dark
Gr. = Grey Br. = Brown Yel. = Yellow Org. = Orange
U.S.C. Code = Unified Soil Classification

Trace (Tr.) 0-10%
Little (Li.) 10-20%
Some (So.) 20-35%
And (&) 35-50%

Excavation Effort:
E = Easy
M = Moderate
D = Difficult

Groundwater

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VHB

Test Pit Log

Date: 5/15/97
Client: City of Middletown
Location: Former Remington Rand Facility
180 Johnson Street, Middletown, CT
VHB Eng.: Marc Richards
Contractor: Civetti Excavation

Job Number: 40163
Test Pit No.: UST4, TP-1
Ground Elev.:
Equipment: Case 580 Backhoe

Sample #	Depth	Soil Description	Excav. Effort	Remarks
	1 2 3 4 5 6 7	Light brown fine silty sand. No odors.	E	
	8 9	Light brown fine to medium sand. Saturated. Strong gasoline /solvent odors.	E	Sheens on groundwater.

Legend

F = Fine M = Medium C = Coarse
F/M = Fine to Medium F/C = Fine to Coarse
V. = Very Lt. = Light Dk. = Dark
Gr. = Grey Br. = Brown Yel. = Yellow Org. = Orange
U.S.C. Code = Unified Soil Classification

Trace (Tr.) 0-10%
Little (Li.) 10-20%
Some (So.) 20-35%
And (&) 35-50%

Excavation Effort:
E = Easy
M = Moderate
D = Difficult

Groundwater

VHB Test Pit Log

Date: 5/16/97
Client: City of Middletown
Location: Former Remington Rand Facility
180 Johnson Street, Middletown, CT
VHB Eng.: Marc Richards
Contractor: Civetti Excavation

Job Number: 40163
Test Pit No.: ROW, TP-1
Ground Elev.:
Equipment: Case 580 Backhoe

Sample #	Depth	Soil Description	Excav. Effort	Remarks
	1	Fill, ash, metal, glass. White, blue and green layers within ash.	E	Fill
	2	Dark brown silty soil. No gravel.	E	Natural
	3			
	4			

Legend

F = Fine M = Medium C = Coarse
F/M = Fine to Medium F/C = Fine to Coarse
V. = Very Lt. = Light Dk. = Dark
Gr. = Grey Br. = Brown Yel. = Yellow Org. = Orange
U.S.C. Code = Unified Soil Classification

Trace (Tr.) 0-10%
Little (Li.) 10-20%
Some (So.) 20-35%
And (&) 35-50%

Excavation Effort:
E = Easy
M = Moderate
D = Difficult

Groundwater

VHB Test Pit Log

Date: 5/16/97
Client: City of Middletown
Location: Former Remington Rand Facility
180 Johnson Street, Middletown, CT
VHB Eng.: Marc Richards
Contractor: Civetti Excavation

Job Number: 40163
Test Pit No.: ROW, TP-2
Ground Elev.:
Equipment: Case 580 Backhoe

Sample #	Depth	Soil Description	Excav. Effort	Remarks
	1 2	Fill, ash, cinders, glass, metal, brick.	E	Fill
	3	Reddish brown silty soil, some clay.	E	Natural
	4			

Legend

F = Fine M = Medium C = Coarse
F/M = Fine to Medium F/C = Fine to Coarse
V. = Very Lt. = Light Dk. = Dark
Gr. = Grey Br. = Brown Yel. = Yellow Org. = Orange
U.S.C. Code = Unified Soil Classification

Trace (Tr.) 0-10%
Little (Li.) 10-20%
Some (So.) 20-35%
And (&) 35-50%

Excavation Effort:
E = Easy
M = Moderate
D = Difficult

Groundwater

VHB

Test Pit Log

Date: 5/16/97
Client: City of Middletown
Location: Former Remington Rand Facility
180 Johnson Street, Middletown, CT
VHB Eng.: Marc Richards
Contractor: Civetti Excavation

Job Number: 40163
Test Pit No.: ROW, TP-3
Ground Elev.:
Equipment: Case 580 Backhoe

Sample #	Depth	Soil Description	Excav. Effort	Remarks
	1, 2, 3	Fill, ash, cinders, glass, metal, brick. Suspect blue deposits throughout ash fill.	E	Fill
	4, 5	Reddish brown silty soil, some clay.	E	Natural
	6			

Legend

F = Fine M = Medium C = Coarse
F/M = Fine to Medium F/C = Fine to Coarse
V. = Very Lt. = Light Dk. = Dark
Gr. = Grey Br. = Brown Yel. = Yellow Org. = Orange
U.S.C. Code = Unified Soil Classification

Trace (Tr.) 0-10%
Little (Li.) 10-20%
Some (So.) 20-35%
And (&) 35-50%

Excavation Effort:
E = Easy
M = Moderate
D = Difficult

Groundwater

VHB

Test Pit Log

Date: 5/16/97
Client: City of Middletown
Location: Former Remington Rand Facility
180 Johnson Street, Middletown, CT
VHB Eng.: Marc Richards
Contractor: Civetti Excavation

Job Number: 40163
Test Pit No.: ROW, TP-4
Ground Elev.:
Equipment: Case 580 Backhoe

Sample #	Depth	Soil Description	Excav. Effort	Remarks
	1 2 3 4 5	Fill, ash, cinders, glass, metal, brick. Suspect blue deposits throughout ash fill.	E	Fill
	6	Reddish brown silty soil, some clay.	E	Natural

Legend

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F/M = Fine to Medium F/C = Fine to Coarse
V. = Very Lt. = Light Dk. = Dark
Gr. = Grey Br. = Brown Yel. = Yellow Org. = Orange
U.S.C. Code = Unified Soil Classification

Trace (Tr.) 0-10%
Little (Li.) 10-20%
Some (So.) 20-35%
And (&) 35-50%

Excavation Effort:
E = Easy
M = Moderate
D = Difficult

Groundwater

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VHB

Test Pit Log

Date: 5/16/97
Client: City of Middletown
Location: Former Remington Rand Facility
180 Johnson Street, Middletown, CT
VHB Eng.: Marc Richards
Contractor: Civetti Excavation

Job Number: 40163
Test Pit No.: ROW, TP-5
Ground Elev.:
Equipment: Case 580 Backhoe

Sample #	Depth	Soil Description	Excav. Effort	Remarks
	1, 2, 3	Fill, ash, cinders, glass, metal, brick. Suspect blue deposits throughout ash fill.	E	Fill
	4, 5	Reddish brown silty soil, some clay.	E	Natural

Legend

F = Fine M = Medium C = Coarse
F/M = Fine to Medium F/C = Fine to Coarse
V. = Very Lt. = Light Dk. = Dark
Gr. = Grey Br. = Brown Yel. = Yellow Org. = Orange
U.S.C. Code = Unified Soil Classification

Trace (Tr.) 0-10%
Little (Li.) 10-20%
Some (So.) 20-35%
And (&) 35-50%

Excavation Effort:
E = Easy
M = Moderate
D = Difficult

Groundwater

VHB

Test Pit Log

Date: 5/16/97
Client: City of Middletown
Location: Former Remington Rand Facility
180 Johnson Street, Middletown, CT
VHB Eng.: Marc Richards
Contractor: Civetti Excavation

Job Number: 40163
Test Pit No.: ROW, TP-6
Ground Elev.:
Equipment: Case 580 Backhoe

Sample #	Depth	Soil Description	Excav. Effort	Remarks
	1 2 3 4 5 6	Fill, no ash, glass, metal, brick. Melted rock/metal/slag material.	D	Fill
	7 8	Reddish brown silty soil, some clay.	E	Natural

Legend

F = Fine M = Medium C = Coarse
F/M = Fine to Medium F/C = Fine to Coarse
V. = Very Lt. = Light Dk. = Dark
Gr. = Grey Br. = Brown Yel. = Yellow Org. = Orange
U.S.C. Code = Unified Soil Classification

Trace (Tr.) 0-10%
Little (Li.) 10-20%
Some (So.) 20-35%
And (&) 35-50%

Excavation Effort:
E = Easy
M = Moderate
D = Difficult

Groundwater

VHB Test Pit Log

Date: 5/16/97
Client: City of Middletown
Location: Former Remington Rand Facility
180 Johnson Street, Middletown, CT
VHB Eng.: Marc Richards
Contractor: Civetti Excavation

Job Number: 40163
Test Pit No.: ROW, TP-7
Ground Elev.:
Equipment: Case 580 Backhoe

Sample #	Depth	Soil Description	Excav. Effort	Remarks
	1, 2, 3, 4	Fill, some ash, glass, metal, brick. Melted rock/metal/slag material. Mild petroleum odors.	D	Fill
	5, 6	Reddish brown silty soil, some clay.	E	Natural

Legend

F = Fine M = Medium C = Coarse
F/M = Fine to Medium F/C = Fine to Coarse
V. = Very Lt. = Light Dk. = Dark
Gr. = Grey Br. = Brown Yel. = Yellow Org. = Orange
U.S.C. Code = Unified Soil Classification

Trace (Tr.) 0-10%
Little (Li.) 10-20%
Some (So.) 20-35%
And (&) 35-50%

Excavation Effort:
E = Easy
M = Moderate
D = Difficult

Groundwater

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VHB

Test Pit Log

Date: 5/16/97
Client: City of Middletown
Location: Former Remington Rand Facility
180 Johnson Street, Middletown, CT
VHB Eng.: Marc Richards
Contractor: Civetti Excavation

Job Number: 40163
Test Pit No.: ROW, TP-8
Ground Elev.:
Equipment: Case 580 Backhoe

Sample #	Depth	Soil Description	Excav. Effort	Remarks
	1 2 3 4	Fill, some ash, glass, metal, brick. Some suspect blue deposits.	E	Fill
	5 6	Reddish brown silty soil, some clay.	E	Natural

Legend

F = Fine M = Medium C = Coarse
F/M = Fine to Medium F/C = Fine to Coarse
V. = Very Lt. = Light Dk. = Dark
Gr. = Grey Br. = Brown Yel. = Yellow Org. = Orange
U.S.C. Code = Unified Soil Classification

Trace (Tr.) 0-10%
Little (Li.) 10-20%
Some (So.) 20-35%
And (&) 35-50%

Excavation Effort:
E = Easy
M = Moderate
D = Difficult

Groundwater

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VHB

Test Pit Log

Date: 5/16/97
Client: City of Middletown
Location: Former Remington Rand Facility
180 Johnson Street, Middletown, CT
VHB Eng.: Marc Richards
Contractor: Civetti Excavation

Job Number: 40163
Test Pit No.: ROW, TP-9
Ground Elev.:
Equipment: Case 580 Backhoe

Sample #	Depth	Soil Description	Excav. Effort	Remarks
	1, 2, 3, 4, 5, 6	Fill, no ash, glass, metal, brick. Melted rock/metal/slag material.	M	Fill
	7, 8	Black, medium silty sand. Heavy oil saturated	E	
	9, 10	Very tight, plastic, light brown clay, moist.	E	Natural

Legend

F = Fine M = Medium C = Coarse
F/M = Fine to Medium F/C = Fine to Coarse
V. = Very Lt. = Light Dk. = Dark
Gr. = Grey Br. = Brown Yel. = Yellow Org. = Orange
U.S.C. Code = Unified Soil Classification

Trace (Tr.) 0-10%
Little (Li.) 10-20%
Some (So.) 20-35%
And (&) 35-50%

Excavation Effort:
E = Easy
M = Moderate
D = Difficult

Groundwater

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VHB

Test Pit Log

Date: 5/16/97
Client: City of Middletown
Location: Former Remington Rand Facility
180 Johnson Street, Middletown, CT
VHB Eng.: Marc Richards
Contractor: Civetti Excavation

Job Number: 40163
Test Pit No.: ROW, TP-10
Ground Elev.:
Equipment: Case 580 Backhoe

Sample #	Depth	Soil Description	Excav. Effort	Remarks
	1	Fill, no ash, glass, metal, brick. No blue deposits.	E	Fill
	2	Light brown silty soil, some gravel and clay.	E	
	3			
	4	Light brown silty soil, some gravel and clay. Strong solvent/motor oil odors.	E	
	5			
	6	Dark brown silty soil, some clay. No odors.	E	Natural, water flowing in at 6 feet.
	7			

Legend

F = Fine M = Medium C = Coarse
F/M = Fine to Medium F/C = Fine to Coarse
V. = Very Lt. = Light Dk. = Dark
Gr. = Grey Br. = Brown Yel. = Yellow Org. = Orange
U.S.C. Code = Unified Soil Classification

Trace (Tr.) 0-10%
Little (Li.) 10-20%
Some (So.) 20-35%
And (&) 35-50%

Excavation Effort:
E = Easy
M = Moderate
D = Difficult

Groundwater

VHB

Test Pit Log

Date: 5/16/97
Client: City of Middletown
Location: Former Remington Rand Facility
180 Johnson Street, Middletown, CT
VHB Eng.: Marc Richards
Contractor: Civetti Excavation

Job Number: 40163
Test Pit No.: ROW, TP-11
Ground Elev.:
Equipment: Case 580 Backhoe

Sample #	Depth	Soil Description	Excav. Effort	Remarks
		Topsoil	E	
	1	Alternating layers of brown, white, and grey plastic resin. No odors.	E	Fill
	2			
	3	Dark black silty soil. No odors.	E	Suspect
	4	Light brown silty soil, some gravel and clay.	E	
	5			
	6	Dark brown silty soil, some clay. No odors.	E	Natural
	7			

Legend

F = Fine M = Medium C = Coarse
F/M = Fine to Medium F/C = Fine to Coarse
V. = Very Lt. = Light Dk. = Dark
Gr. = Grey Br. = Brown Yel. = Yellow Org. = Orange
U.S.C. Code = Unified Soil Classification

Trace (Tr.) 0-10%
Little (Li.) 10-20%
Some (So.) 20-35%
And (&) 35-50%

Excavation Effort:
E = Easy
M = Moderate
D = Difficult

Groundwater

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # 40163

Boring #:

B-1

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/20/97
Weather: Cloudy, misting

Boring Depth 12'
Depth to Ground Water 7'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-2'	S-1	na	41/48	0	light brown fine silty sand
2-4'	S-2	na	--	0	light brown fine silty sand
4-6'	S-3	na	48/48	0	light brown fine silty sand
6-8'	S-4	na	--	0	light brown fine silty sand, wet
8-10'	S-5	na	48/48	0	light brown fine silty sand, saturated
10-12'	S-6	na	--	6.2	10-11.5', light brown fine silty sand, saturated, mild solvent odors. 11.5-12', light brown tight clay. No odors in clay.

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # 40163

Boring #:

B-2

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/20/97
Weather: Cloudy, misting

Boring Depth 12'
Depth to Ground Water 6'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-2'	S-1	na	48/48	0	2" of coal/coal ash fill, light brown fine silty sand
2-4'	S-2	na	--	0	light brown fine silty sand
4-6'	S-3	na	48/48	0	light brown fine silty sand, wet at 6'
6-8'	S-4	na	--	0	light brown medium to coarse sand, saturated, no odors
8-10'	S-5	na	48/48	0	light brown medium to coarse sand, saturated, no odors
10-12'	S-6	na	--	7.2	light brown medium to coarse sand, saturated, mild solvent odors. Tight clay at 12'. No odors in clay.

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # 40163

Boring #:

MW-1/B-3

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/20/97
Weather: Clear, Sunny

Boring Depth 12'
Depth to Ground Water 6'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-2'	S-1	na	30/48	0	3" of dark brown fine to medium sand. Light brown fine silty sand.
2-4'	S-2	na	--	0	light brown fine silty sand
4-6'	S-3	na	30/48	0	light brown fine sand, wet at 6'
6-8'	S-4	na	--	0	light brown fine sand, saturated, no odors
8-10'	S-5	na	48/48	3.3	light brown fine to medium sand, mild solvent odors, saturated
10-12'	S-6	na	--	not sampled	medium to coarse sand, mild solvent odors, very tight clay at 11.5'
					Monitoring well set at 12'
					10 feet of screen
					Sand pack to one foot above screen
					One foot clay bentonite seal

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # 40163

Boring #:

B-4

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/20/97
Weather: Clear, Sunny

Boring Depth 12'
Depth to Ground Water 8'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-2'	S-1	na	32/48	142	fill, fine to medium sand, some brick and gravel, strong petroleum odors at 2'
2-4'	S-2	na	--	0	fill, stratified plastic resin, alternating layers and colors of plactic, no odors
4-6'	S-3	na	30/48	0	fine to medium sand, some coal/coal ash, no odors
6-8'	S-4	na	--	3.5	fine to medium sand, moist at 8', dark black fine silty sand at 7 to 8 feet. Strong motor oil odors.
8-10'	S-5	na	33/48	39	Fine to medium dark black sand from 8 to 9 feet. Strong motor oil odors. Tight light brown clay from 9 to 10 feet. No odors in clay. Saturated.
10-12'	S-6	na	--	0	Medium to coarse sand, mild solvent odors, very tight clay at 11.5'. Saturated.

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # **40163**

Boring #:

B-5

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/20/97
Weather: Clear, Sunny

Boring Depth 12'
Depth to Ground Water 7'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-2'	S-1	na	35/48	0	light brown fine silty sand
2-4'	S-2	na	--	0	light brown fine silty sand
4-6'	S-3	na	34/48	0	light brown fine silty sand
6-8'	S-4	na	--	138	light gray fine to medium sand, wet at 7'. Strong gasoline odors.
8-10'	S-5	na	33/48	137	light gray fine to medium sand. Strong gasoline odors. Saturated.
10-12'	S-6	na	--	0	Tight clay, light brown, no odors.

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # **40163**

Boring #:

B-6

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/20/97
Weather: Clear, Sunny

Boring Depth 12'
Depth to Ground Water 7-8'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-2'	S-1	na	32/48	0	Coal, slag, and gravel fil to 0.5'. Fine to medium sand from 0.5' to 2'
2-4'	S-2	na	--	0	Light brown fine to medium sand, no odors
4-6'	S-3	na	5/8	0	Light brown fine to medium sand, no odors
6-8'	S-4	na	--	0	Light brown fine to medium sand, no odors. Wet at 7.5'
8-10'	S-5	na	5/8	0	Light brown fine sand, saturated, no odors.
10-12'	S-6	na	--	0	Light brown fine sand, saturated, no odors. Clay at 12'.

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # 40163

Boring #:

MW-2/B-7

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/20/97
Weather: Clear, Sunny

Boring Depth 12'
Depth to Ground Water 7-8'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-2'	S-1	na	30/48	0	Fine silty sand, some brick, light brown to dark brown.
2-4'	S-2	na	--	0	Light to dark brown fine silty sand.
4-6'	S-3	na	24/48	0	Fine to medium sand, some gravel. No odors.
6-8'	S-4	na	--	0	Fine to medium sand, some gravel. No odors. satuated at 7 to 8 feet.
8-10'	S-5	na	30/48	0	Medium to coarse sand, some gravel. No odors. Saturated.
10-12'	S-6	na	--	4	Medium to coarse sand, some gravel. Mild odors. Saturated.
					Monitoring well set at 12'
					10 feet of screen
					Sand pack to one foot above screen
					One foot clay bentonite seal above sand.

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # **40163**

Boring #:

MW-3/B-8

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/20/97
Weather: Clear, Sunny

Boring Depth 12'
Depth to Ground Water 9'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-2'	S-1	na	32/48	0	Ash, coal residue, medium sand, some metal filings.
2-4'	S-2	na	--	0	Ash, coal residue, medium sand, some metal filings.
4-6'	S-3	na	30/48	4	Tight light brown silty clay, mild solvent/gasoline odors.
6-8'	S-4	na	--	22	Light gray fine silty sand. Gasoline/solvent odors. Moist at 8'.
8-10'	S-5	na	30/48	15	Light gray fine silty sand. Gasoline/solvent odors. Saturated.
10-12'	S-6	na	--	10	Fine silty sand, some gravel. Mild gasoline/solvent odors.
					Monitoring well set at 12'
					10 feet of screen
					Sand pack to one foot above screen
					One foot clay bentonite seal above sand.

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # 40163

Boring #:

B-9

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/20/97
Weather: Clear, Sunny

Boring Depth 14'
Depth to Ground Water 9'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-2'	S-1	na	18/24	0	Coal, ash, medium sand.
2-4'	S-2	na	12/24	0	Coal, ash, medium sand.
4-6'	S-3	na	12/24	0	Coal, ash, medium sand.
6-8'	S-4	na	10/24	0	Coal, ash, medium sand.
8-10'	S-5	na	16/24	--*	Light brown medium sand from 8 to 9 feet. Dark black No. 4 to No 6 fuel oil stained soil from 9 to 10 feet.
10-12'	S-6	na	24/24	--*	Heavy oil-saturated soil from 10 to 11 feet. Oil is migrating in to light brown tight silty fine sand from 11 to 12'.
12-14'	S-7	na	24/24	0	Light brown tight silty fine sand. No oil.
					* Due to limited soil, no samples were PID field screened from 8 to 12 feet.

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # 40163

Boring #:

MW-4/B-10

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/20/97
Weather: Clear, Sunny

Boring Depth 16'
Depth to Ground Water 10'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-4'	S-1	na	12/48	ns	Coal, coal ash, metal filings, slag
4-8'	S-2	na	12/48	ns	Fine silty sand. A 6 inch thick layer of heavy tar was observed at 6 feet.
8-12'	S-3	na	48/48	ns	Fine to medium sand, moist
12-16'	S-4	na	48/48	ns	Medium to coarse sand, saturated. Tight clay at 16 feet.
					Monitoring well set at 16'
					10 feet of screen
					Sand pack to one foot above screen
					One foot clay bentonite seal

PPM = Parts Per Million
NS = Not Sampled
NSR = No Sample Recovered
NA = Not Applicable

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # 40163

Boring #:

B-11

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/20/97
Weather: Clear, Sunny

Boring Depth 8'
Depth to Ground Water 4'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-2'	S-1	na	24/24	ns	Coal/coal ash and slag fill to 1 foot. Light brown fine silty sand from 1 to 2 feet.
2-4'	S-2	na	4/24	0	Light brown fine silty sand. Moist at 4 feet.
4-6'	S-3	na	20/24	0	Light brown fine to medium sand. Saturated.
6-8'	S-4	na	24/24	ns	Light brown fine to medium sand. Saturated.

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable
NS = Not Sampled

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # 40163

Boring #:

B-12

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/20/97
Weather: Clear, Sunny

Boring Depth 8'
Depth to Ground Water 4'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-2'	S-1	na	20/24	ns	Coal/coal ash and slag fill to 1 foot. Light brown fine silty sand from 1 to 2 feet.
2-4'	S-2	na	22/24	0	Light brown fine silty sand. Wet at 4 feet.
4-6'	S-3	na	18/24	0	Light brown fine to medium sand. Saturated.
6-8'	S-4	na	20/24	0	Light brown fine to medium sand. Silty clay at 8 feet.

PPM = Parts Per Million
NS = Not Sampled
NSR = No Sample Recovered
NA = Not Applicable

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # 40163

Boring #:

B-13

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/20/97
Weather: Clear, Sunny

Boring Depth 8'
Depth to Ground Water 4'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-4'	S-1	na	30/48	0	Six inches of gravel fill beneath asphalt. Fine silty sand. Moist at 4 feet.
4-8'	S-2	na	30/48	1.5	Light brown silty fine sand from 4 to 6 feet. Tight silty clay from 6 to 8 feet, Saturated.

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable
NS = Not Sampled

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # 40163

Boring #:

MW-5/B-14

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/21/97
Weather: Clear, Sunny

Boring Depth 12'
Depth to Ground Water 4'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-4'	S-1	na	33/48	ns	Light brown fine silty sand. Moist at 3.5 feet.
4-8'	S-2	na	40/48	ns	Light brown fine silty sand, saturated.
8-12'	S-3	na	37/48	ns	Medium to coarse sand from 8 to 10 feet. Tight clay from 10 to 12 feet. Saturated.
					Monitoring well set at 13'
					10 feet of screen
					Sand pack to one foot above screen
					One foot clay bentonite seal

PPM = Parts Per Million
NS = Not Sampled
NSR = No Sample Recovered
NA = Not Applicable

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # **40163**

Boring #:

B-15

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/21/97
Weather: Clear, Sunny

Boring Depth 12'
Depth to Ground Water 4'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-4'	S-1	na	36/48	0	Coal/coal ash, slag (0-4"). Light brown fine silty sand. Wet at 4 feet.
4-8'	S-2	na	40/48	1.8	Fine silty sand from 4 to 6 feet. Saturated. Fine sand from 6 to 8 feet. Mild organic odor at 7 to 8 feet.
8-12'	S-3	na	35/48	0	Fine sand from 8 to 10 feet. Tight clay from 10 to 12 feet. Saturated.

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable
NS = Not Sampled

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # **40163**

Boring #:

B-16

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/21/97
Weather: Clear, Sunny

Boring Depth 8'
Depth to Ground Water 4'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-4'	S-1	na	32/48	0	Gravel (0-6"). Light orange/brown silty fine sand. Wet at 3.5 to 4 feet.
4-8'	S-2	na	34/48	2.2	Very tight light brown fine silty sand. Mild organic odor. Saturated.

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable
NS = Not Sampled

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # 40163

Boring #:

B-17

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/21/97
Weather: Clear, Sunny

Boring Depth 12'
Depth to Ground Water 4'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-4'	S-1	na	32/48	0	Light brown fine silty sand. Moist at 4 feet.
4-8'	S-2	na	35/48	0	Light brown fine silty sand. Saturated.
8-12'	S-3	na	24/48	0	Light brown fine silty sand. Saturated. Clay at 12 feet.

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable
NS = Not Sampled

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # 40163

Boring #:

MW-6/B-18

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/21/97
Weather: Clear, Sunny

Boring Depth 12'
Depth to Ground Water 5'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-2'	S-1	na	30/48	5	Metal filings, fine to medium sand, some gravel.
2-4'	S-2	na	--	224	Light gray fine sand. Strong gasoline/diesel odors.
4-6'	S-3	na	35/48	200	Light gray fine sand. Strong gasoline/diesel odors. Wet.
6-8'	S-4	na	--	62	Light gray fine to medium sand. Strong gasoline/diesel odors. Saturated.
8-10'	S-5	na	33/48	119	Light gray fine to medium sand. Strong gasoline/diesel odors. Saturated.
10-12'	S-6	na	--	0	Light gray fine to medium sand. Strong gasoline/diesel odors from 10 to 11 feet. Tight light brown clay from 11 to 12'. No odors in clay.
					Monitoring well set at 12'
					10 feet of screen
					Sand pack to one foot above screen
					One foot clay bentonite seal

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable
NS = Not Sampled

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # 40163

Boring #:

B-19

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/21/97
Weather: Clear, Sunny

Boring Depth 12'
Depth to Ground Water 5'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-4'	S-1	na	36/48	ns	Light brown fine to medium sand.
4-8'	S-2	na	36/48	ns	Light brown fine to medium sand. Saturated
8-12'	S-3	na	38/48	ns	Light brown medium to coarse sand from 8 to 11 feet. Light brown tight clay from 11 to 12 feet.

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable
NS = Not Sampled

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # 40163

Boring #:

B-20

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/21/97
Weather: Clear, Sunny

Boring Depth 12'
Depth to Ground Water 5'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-4'	S-1	na	30/48	0	Gravel fill to 0.5'. Light brown fine sand.
4-8'	S-2	na	32/48	0	Light brown fine to medium sand. Saturated.
8-12'	S-3	na	48/48	0	Fine to medium sand, saturated. Very silty fine sand at 12 feet.

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable
NS = Not Sampled

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # 40163

Boring #:

B-21

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/21/97
Weather: Clear, Sunny

Boring Depth 8'
Depth to Ground Water 5'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-4'	S-1	na	34/48	ns	Coal, coal ash, light brown fine sand. No odors.
4-8'	S-2	na	35/48	184	Fine to medium sand with strong gasoline/diesel odors from 4 to 7 feet. Silty sandy clay with mild gasoline/diesel odors from 7 to 8 feet.

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable
NS = Not Sampled

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # **40163**

Boring #:

B-22

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/21/97
Weather: Clear, Sunny

Boring Depth 8'
Depth to Ground Water 5'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-4'	S-1	na	26/48	ns	Coal, slag, ash, brick, and fine to medium sand to 3 feet. Dark brown fine silty sand from 3 to 4 feet.
4-8'	S-2	na	30/48	173	Light gray fine to medium sand with strong petroleum odors from 4 to 7 feet. Fine silty sand with mild petroleum odors from 7 to 8 feet.

PPM = Parts Per Million
NS = Not Sampled
NSR = No Sample Recovered
NA = Not Applicable

Vanasse Hangen Brustlin, Inc.

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VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # 40163

Boring #:

B-23

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/21/97
Weather: Clear, Sunny

Boring Depth 8'
Depth to Ground Water 5'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-4'	S-1	na	32/48	ns	Dark brown fine silty sand.
4-8'	S-2	na	30/48	ns	Light gray fine silty sand. No petroleum odors. Saturated.

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable
NS = Not Sampled

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # 40163

Boring #:

B-24

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/21/97
Weather: Clear, Sunny

Boring Depth 8'
Depth to Ground Water 5'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-3'	S-1	na	32/48	ns	Coal, coal ash, fine silty sand.
3-4'	S-2	na	--	196	Fine to medium sand. Strong petroleum odors.
4-7'	S-3	na	30/48	204	Fine to medium sand. Strong petroleum odors. Saturated.
7-8'	S-4	na	--	20	Fine silty sand. Mild petroleum odors.

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable
NS = Not Sampled

VHB Soil Boring Report

Site Data:

Former Remington Rand Facility
180 Johnson Road
Middletown, CT

Project # 40163

Boring #:

B-25

Driller: TDS
Drill Rig: GeoProbe
Technique: Direct Push
Date: 5/21/97
Weather: Clear, Sunny

Boring Depth 12'
Depth to Ground Water 6'
VHB Representative Marc Richards

Depth	Sample #	Blow Counts	Recovery (in/in)	PID (PPM)	Field Classification And Remarks
0-2'	S-1	na	48/48	0	Coal and fine sand.
2-4'	S-2	na	--	0	Fine silty sand.
4-8'	S-3	na	35/48	0	Fine silty sand, some clay. Saturated.
8-10'	S-4	na	30/48	0	Dark black organic septic sludge. No oil or hazardous material odors. Saturated.
10-12'	S-5	na	--	0	Tight light brown fine silty sand. No septic sludge.

PPM = Parts Per Million
NSR = No Sample Recovered
NA = Not Applicable
NS = Not Sampled

Appendix D
Soil, Groundwater, and Wipe Sample Laboratory Analytical Results

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ANALYTICAL LABORATORY

39 Spruce Street • 2nd Floor • East Longmeadow, MA 01028 • FAX 413/525-6405 • TEL. 413/525-2332

VANASSE HANGEN BRUSTLIN, INC.
101 WALNUT STREET
WATERTOWN, MA 02272
ATTN: MARC RICHARDS

REPORT DATE: 05/29/97

PURCHASE ORDER NUMBER: 40163
PROJECT NUMBER: PRJ.# 40163

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-29603
JOB NUMBER: 29603

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report

PROJECT LOCATION: MIDDLETOWN, CT

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
UST3/TP-1/0-2'	97B08803	SOIL	BURN PIT	metals(13pp)socp
UST3/TP-1/3-4'	97B08804	SOIL	BURN PIT	8270-soil bn-2
UST3/TP-1/3-4'	97B08804	SOIL	BURN PIT	8270-soil bn1
UST3/TP-1/3-4'	97B08804	SOIL	BURN PIT	8270-soil-acid
UST3/TP-1/3-4'	97B08804	SOIL	BURN PIT	pcb - soil
UST3/TP-1/3-4'	97B08804	SOIL	BURN PIT	tph gc 8100m

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

AIHA 308
MASSACHUSETTS MA100
CONNECTICUT PH-0567
NEW YORK ELAP 10899
OHIO (ENVIRO. LEAD) # 10005
NEW HAMPSHIRE 2516
AIHA ELLAP (LEAD) 6838
MAINE (POTABLE/NON-POTABLE)
VERMONT DOH (LEAD) No. 15036
RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document.

Edward Denson 5/30/97
SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director

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ANALYTICAL LABORATORY

39 Spruce Street • 2nd Floor • East Longmeadow, MA 01028 • FAX 413/525-6405 • TEL. 413/525-2332

MARC RICHARDS
VANASSE HANGEN BRUSTLIN, INC.
101 WALNUT STREET
WATERTOWN, MA 02272

Purchase Order Number: 40163
Project Number: PRJ.# 40163

Project Location: MIDDLETOWN, CT
Date Received: 05/15/97

LIMS-BAT #: LIMS-29603
Job Number: 29603
Sample Matrix: SOIL

Sampled: 05/15/97
BURN PIT
UST3/TP-1/3-4'

	Units	97B08804	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	mg/kg	146	05/24/97	WSD	13.3		
Acenaphthylene	mg/kg	BDL	05/24/97	WSD	13.3		
Aniline	mg/kg	ND	05/24/97	WSD	13.3		
Anthracene	mg/kg	316	05/24/97	WSD	13.3		
Benzidene	mg/kg	ND	05/24/97	WSD	93.3		
Benzoic Acid	mg/kg	ND	05/24/97	WSD	40.0		
Benzo(a)anthracene	mg/kg	ND	05/24/97	WSD	13.3		
Benzo(a)pyrene	mg/kg	400	05/24/97	WSD	26.7		
Benzo(b)fluoranthene	mg/kg	ND	05/24/97	WSD	13.3		
Benzo(g,h,i)perylene	mg/kg	BDL	05/24/97	WSD	40.0		
Benzo(k)fluoranthene	mg/kg	ND	05/24/97	WSD	26.7		
Benzyl Alcohol	mg/kg	ND	05/24/97	WSD	26.7		
Bis(2-chloroethoxy)methane	mg/kg	ND	05/24/97	WSD	13.3		
Bis(2-chloroethyl)ether	mg/kg	ND	05/24/97	WSD	13.3		
Bis(2-chloroisopropyl)ether	mg/kg	ND	05/24/97	WSD	13.3		
Bis(2-ethylhexyl)phthalate	mg/kg	ND	05/24/97	WSD	13.3		
4-Bromophenylphenylether	mg/kg	ND	05/24/97	WSD	13.3		
Butylbenzylphthalate	mg/kg	ND	05/24/97	WSD	26.7		
4-Chloroaniline	mg/kg	ND	05/24/97	WSD	26.7		
2-Chloronaphthalene	mg/kg	ND	05/24/97	WSD	13.3		
4-Chlorophenylphenylether	mg/kg	ND	05/24/97	WSD	13.3		
Chrysene	mg/kg	548	05/24/97	WSD	26.7		
Dibenzofuran	mg/kg	73.3	05/24/97	WSD	13.3		
Dibenz(a,h)anthracene	mg/kg	ND	05/24/97	WSD	26.7		
1,2-Dichlorobenzene	mg/kg	ND	05/24/97	WSD	13.3		
1,3-Dichlorobenzene	mg/kg	ND	05/24/97	WSD	13.3		
1,4-Dichlorobenzene	mg/kg	ND.	05/24/97	WSD	13.3		
3,3'-Dichlorobenzidine	mg/kg	ND	05/24/97	WSD	26.7		
Diethylphthalate	mg/kg	ND	05/24/97	WSD	13.3		
Dimethylphthalate	mg/kg	ND	05/24/97	WSD	26.7		
Di-n-butylphthalate	mg/kg	ND	05/24/97	WSD	13.3		
Di-n-octylphthalate	mg/kg	ND	05/24/97	WSD	26.7		

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163
Project Number: PRJ.# 40163

LIMS-BAT #: LIMS-29603
Job Number: 29603
Sample Matrix: SOIL

Sampled: 05/15/97
BURN PIT
UST3/TP-1/3-4'

	Units	97808804	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-Dinitrotoluene	mg/kg	ND	05/24/97	WSD	13.3		
2,6-Dinitrotoluene	mg/kg	ND	05/24/97	WSD	13.3		
1,2-Diphenylhydrazine	mg/kg	ND	05/24/97	WSD	13.3		
Fluoranthene	mg/kg	1270	05/24/97	WSD	13.3		
Fluorene	mg/kg	85.3	05/24/97	WSD	13.3		
Hexachlorobenzene	mg/kg	ND	05/24/97	WSD	13.3		
Hexachlorobutadiene	mg/kg	ND	05/24/97	WSD	13.3		
Hexachlorocyclopentadiene	mg/kg	ND	05/24/97	WSD	13.3		
Hexachloroethane	mg/kg	ND	05/24/97	WSD	13.3		
Indeno(1,2,3-cd)pyrene	mg/kg	163	05/24/97	WSD	13.3		
Isophorone	mg/kg	ND	05/24/97	WSD	13.3		
2-Methylnaphthalene	mg/kg	129	05/24/97	WSD	13.3		
Naphthalene	mg/kg	76.7	05/24/97	WSD	13.3		
2-Nitroaniline	mg/kg	ND	05/24/97	WSD	13.3		
3-Nitroaniline	mg/kg	ND	05/24/97	WSD	13.3		
4-Nitroaniline	mg/kg	ND	05/24/97	WSD	13.3		
Nitrobenzene	mg/kg	ND	05/24/97	WSD	13.3		
N-Nitrosodimethylamine	mg/kg	ND	05/24/97	WSD	13.3		
N-Nitrosodiphenylamine	mg/kg	ND	05/24/97	WSD	13.3		
N-Nitroso-di-n-propylamine	mg/kg	ND	05/24/97	WSD	13.3		
Phenanthrene	mg/kg	1270	05/24/97	WSD	13.3		
Pyrene	mg/kg	1130	05/24/97	WSD	40.0		
Pyridine	mg/kg	ND	05/24/97	WSD	13.3		
1,2,4-Trichlorobenzene	mg/kg	ND	05/24/97	WSD	13.3		

Analytical Method(s):

SW846 8270

SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163
Project Number: PRJ.# 40163

LIMS-BAT #: LIMS-29603
Job Number: 29603
Sample Matrix: SOIL

Sampled: 05/15/97
BURN PIT
UST3/TP-1/3-4'

	Units	97808804	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	mg/kg	ND	05/24/97	WSD	26.7		
2-Chlorophenol	mg/kg	ND	05/24/97	WSD	13.3		
2,4-Dichlorophenol	mg/kg	ND	05/24/97	WSD	13.3		
2,4-Dimethylphenol	mg/kg	ND	05/24/97	WSD	53.3		
4,6-Dinitro-2-methylphenol	mg/kg	ND	05/24/97	WSD	13.3		
2,4-Dinitrophenol	mg/kg	ND	05/24/97	WSD	13.3		
2-Methylphenol (o-cresol)	mg/kg	BDL	05/24/97	WSD	13.3		
3- & 4-Methylphenol (m&p-cresol)	mg/kg	BDL	05/24/97	WSD	13.3		
2-Nitrophenol	mg/kg	ND	05/24/97	WSD	13.3		
4-Nitrophenol	mg/kg	BDL	05/24/97	WSD	13.3		
Pentachlorophenol	mg/kg	ND	05/24/97	WSD	13.3		
Phenol	mg/kg	BDL	05/24/97	WSD	13.3		
2,4,5-Trichlorophenol	mg/kg	ND	05/24/97	WSD	13.3		
2,4,6-Trichlorophenol	mg/kg	ND	05/24/97	WSD	13.3		

Analytical Method(s):

SW846 8270

SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163
Project Number: PRJ.# 40163

LIMS-BAT #: LIMS-29603
Job Number: 29603
Sample Matrix: SOIL

Sampled: 05/15/97
BURN PIT
UST3/TP-1/0-2'

	Units	97808803	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	mg/kg	ND	05/22/97	KLF	24.8		
Arsenic	mg/kg	87.3	05/22/97	KLF	4.95		
Beryllium	mg/kg	0.18	05/22/97	KLF	0.10		
Cadmium	mg/kg	3.10	05/22/97	KLF	0.05		
Chromium	mg/kg	99.8	05/22/97	KLF	0.35		
Copper	mg/kg	16300	05/22/97	KLF	0.10		
Lead	mg/kg	518	05/22/97	KLF	2.48	1000	P
Mercury	mg/kg	0.310	05/21/97	APP	0.020		
Nickel	mg/kg	5160	05/22/97	KLF	0.25		
Selenium	mg/kg	85.1	05/22/97	KLF	4.95		
Silver	mg/kg	ND	05/22/97	KLF	4.95		
Thallium	mg/kg	56.2	05/22/97	KLF	9.90		
Zinc	mg/kg	2950	05/22/97	KLF	0.50		

Analytical Method(s):

Antimony
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Arsenic
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Beryllium
SW846 3050/6010

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SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Cadmium
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Chromium
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Copper
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Lead
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Mercury
SW846 3050/7471

SAMPLES ARE DIGESTED WITH ACIDS AND THEN ANALYZED BY
COLD VAPOR (FLAMELESS) ATOMIC ABSORPTION SPECTROPHOTOMETRY

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Nickel
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Selenium
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Silver
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Thallium
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Zinc
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

MDL = Method Detection Limit
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SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163
Project Number: PRJ.# 40163

LIMS-BAT #: LIMS-29603
Job Number: 29603
Sample Matrix: SOIL

Sampled: 05/15/97
BURN PIT
UST3/TP-1/3-4'

	Units	97B08804	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
PCB 1221	mg/kg	ND	05/23/97	MFF			
PCB 1232	mg/kg	ND	05/23/97	MFF			
PCB 1242/1016	mg/kg	ND	05/23/97	MFF			
PCB 1248	mg/kg	ND	05/23/97	MFF			
PCB 1254	mg/kg	ND	05/23/97	MFF			
PCB 1260	mg/kg	ND	05/23/97	MFF			
Total PCB	mg/kg	ND	05/23/97	MFF	0.481		

Analytical Method(s):

SW846 8080

SAMPLES ARE EXTRACTED INTO HEXANE AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION.

MDL = Method Detection Limit
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NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163
Project Number: PRJ.# 40163

LIMS-BAT #: LIMS-29603
Job Number: 29603
Sample Matrix: SOIL

Sampled: 05/15/97
BURN PIT
UST3/TP-1/3-4'

	Units	97B08804	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
OTHER HYDROCARBONS	MG/KG	830	05/20/97	JB	420		

Analytical Method(s):

MODIFIED SW846 8100

SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE AND ANALYZED BY GAS CHROMATROGRAPHY WITH FLAME IONIZATION DETECTION (FID). ALL PEAKS ELUTING IN THE PETROLEUM FUEL REGION ARE QUANTITATED AS #2 FUEL OIL.

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NM = Not Measured

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The following notes were attached to the reported analysis:

Sample: 97B08803

Analysis: Antimony
ELEVATED METHOD DETECTION LIMIT DUE TO MATRIX INTERFERENCES.

Sample: 97B08803

Analysis: Silver
ELEVATED METHOD DETECTION LIMIT DUE TO MATRIX INTERFERENCES.

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 05/28/97 | Lims Bat #: LIMS-29603 |

QC Batch Number: GC/ECD-1286

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-07891	PCB 1232	Blank	0.000	mg/kg	
	PCB 1242/1016	Blank	0.000	mg/kg	
	PCB 1254	Blank	0.000	mg/kg	
	PCB 1260	Blank	0.000	mg/kg	
	PCB 1248	Blank	0.000	mg/kg	
	PCB 1221	Blank	0.000	mg/kg	
	Total PCB	Blank	<0.025	mg/kg	
	Dibutylchlorendate (	Blank	106.5	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 05/28/97 Lims Bat #: LIMS-29603

QC Batch Number: GC/FID-0762

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-07835	OTHER HYDROCARBONS	Blank	<8.3	MG/KG	
	OTHER HYDROCARBONS	Blank	<8.3	mg/kg dry wt.	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 05/28/97 | Lims Bat #: LIMS-29603 |

QC Batch Number: GCMS/SEMI-0731

Sample Id	Analysis	QC Analysis	Values	Units	Limits
97808804	Phenol - D6 mg/kg re	Surrogate Recovery	88.0	%	24.0-113.0
	Nitrobenzene - D5 mg	Surrogate Recovery	80.0	%	23.0-120.0
	2-Fluorobipheny mg/k	Surrogate Recovery	91.0	%	25.0-121.0
	2,4,6-Tribromophenol	Surrogate Recovery	98.0	%	19.0-122.0
	Terphenyl - D14 mg/k	Surrogate Recovery	60.0	%	18.0-137.0
	2-Fluorophenol mg/kg	Surrogate Recovery	85.5	%	30.0-115.0
BLANK-07915	1,4-Dichlorobenzene	Blank	<0.33	mg/kg	
	Naphthalene	Blank	<0.33	mg/kg	
	1,2-Dichlorobenzene	Blank	<0.33	mg/kg	
	1,3-Dichlorobenzene	Blank	<0.33	mg/kg	
	Acenaphthene	Blank	<0.33	mg/kg	
	Acenaphthylene	Blank	<0.33	mg/kg	
	Aniline	Blank	<0.33	mg/kg	
	Anthracene	Blank	<0.33	mg/kg	
	Benzidene	Blank	<2.33	mg/kg	
	Benzo(a)anthracene	Blank	<0.33	mg/kg	
	Benzo(a)pyrene	Blank	<0.67	mg/kg	
	Benzo(b)fluoranthene	Blank	<0.33	mg/kg	
	Benzo(g,h,i)perylene	Blank	<1.00	mg/kg	
	Benzoic Acid	Blank	<1.00	mg/kg	
	Benzyl Alcohol	Blank	<0.67	mg/kg	
	Bis(2-chloroethyl)et	Blank	<0.33	mg/kg	
	Bis(2-chloroethoxy)m	Blank	<0.33	mg/kg	
	Bis(2-chloroisopropy	Blank	<0.33	mg/kg	
	Bis(2-ethylhexyl)pht	Blank	<0.33	mg/kg	
	4-Bromophenylphenyle	Blank	<0.33	mg/kg	
	Butylbenzylphthalate	Blank	<0.67	mg/kg	
	4-Chloroaniline	Blank	<0.67	mg/kg	
	2-Chloronaphthalene	Blank	<0.33	mg/kg	
	4-Chlorophenylphenyl	Blank	<0.33	mg/kg	
	Chrysene	Blank	<0.67	mg/kg	
	Dibenz(a,h)anthracen	Blank	<0.67	mg/kg	
	Dibenzofuran	Blank	<0.33	mg/kg	
	3,3'-Dichlorobenzidi	Blank	<0.67	mg/kg	
	Diethylphthalate	Blank	<0.33	mg/kg	
	Dimethylphthalate	Blank	<0.67	mg/kg	
	Di-n-butylphthalate	Blank	<0.33	mg/kg	
	2,4-Dinitrotoluene	Blank	<0.33	mg/kg	
	2,6-Dinitrotoluene	Blank	<0.33	mg/kg	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 05/28/97 Lims Bat #: LIMS-29603

QC Batch Number: GCMS/SEMI-0731

Sample Id	Analysis	QC Analysis	Values	Units	Limits
	1,2-Diphenylhydrazin	Blank	<0.33	mg/kg	
	Di-n-octylphthalate	Blank	<0.67	mg/kg	
	Fluoranthene	Blank	<0.33	mg/kg	
	Fluorene	Blank	<0.33	mg/kg	
	Hexachlorobenzene	Blank	<0.33	mg/kg	
	Hexachlorobutadiene	Blank	<0.33	mg/kg	
	Hexachlorocyclopenta	Blank	<0.33	mg/kg	
	Hexachloroethane	Blank	<0.33	mg/kg	
	Indeno(1,2,3-cd)pyre	Blank	<0.33	mg/kg	
	Isophorone	Blank	<0.33	mg/kg	
	2-Methylnaphthalene	Blank	<0.33	mg/kg	
	2-Nitroaniline	Blank	<0.33	mg/kg	
	3-Nitroaniline	Blank	<0.33	mg/kg	
	Nitrobenzene	Blank	<0.33	mg/kg	
	N-Nitrosodimethylami	Blank	<0.33	mg/kg	
	N-Nitroso-di-n-propy	Blank	<0.33	mg/kg	
	N-Nitrosodiphenylami	Blank	<0.33	mg/kg	
	Phenanthrene	Blank	<0.33	mg/kg	
	Pyrene	Blank	<1.00	mg/kg	
	1,2,4-Trichlorobenze	Blank	<0.33	mg/kg	
	4-Chloro-3-methylphe	Blank	<0.67	mg/kg	
	2-Chlorophenol	Blank	<0.33	mg/kg	
	2,4-Dichlorophenol	Blank	<0.33	mg/kg	
	2,4-Dimethylphenol	Blank	<1.33	mg/kg	
	4,6-Dinitro-2-methyl	Blank	<0.33	mg/kg	
	2,4-Dinitrophenol	Blank	<0.33	mg/kg	
	2-Methylphenol (o-cr	Blank	<0.33	mg/kg	
	3- & 4-Methylphenol	Blank	<0.33	mg/kg	
	2-Nitrophenol	Blank	<0.33	mg/kg	
	4-Nitrophenol	Blank	<0.33	mg/kg	
	Phenol	Blank	<0.33	mg/kg	
	2,4,5-Trichloropheno	Blank	<0.33	mg/kg	
	2,4,6-Trichloropheno	Blank	<0.33	mg/kg	
	Pentachlorophenol	Blank	<0.33	mg/kg	
	Pyridine	Blank	<0.33	mg/kg	
	Benzo(k)fluoranthene	Blank	<0.67	mg/kg	
	4-Nitroaniline	Blank	<0.33	mg/kg	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: HG-0491

Sample Id	Analysis	QC Analysis	Values	Units	Limits
97B08803	Mercury	Sample Amount	0.310	mg/kg	
		Duplicate Value	0.329	mg/kg	
		Duplicate RPD	5.961	%	
LFBLANK-03934	Mercury	Lab Fort Blank Amt.	0.200	mg/kg	
		Lab Fort Blk. Found	0.230	mg/kg	
		Lab Fort Blk. % Rec.	115.000	%	
		Dup Lab Fort Bl Amt.	0.200	mg/kg	
		Dup Lab Fort Bl. Fnd	0.230	mg/kg	
		Dup Lab Fort Bl %Rec	115.000	%	
		Lab Fort Blank Range	0.000	units	
		Lab Fort Bl. Av. Rec	115.000	%	
	Mercury	Lab Fort Blank Amt.	0.200	mg/kg dry wt.	
		Lab Fort Blk. Found	0.230	mg/kg dry wt.	
		Lab Fort Blk. % Rec.	115.000	%	
		Dup Lab Fort Bl Amt.	0.200	mg/kg dry wt.	
		Dup Lab Fort Bl. Fnd	0.230	mg/kg dry wt.	
		Dup Lab Fort Bl %Rec	115.000	%	
		Lab Fort Blank Range	0.000	units	
		Lab Fort Bl. Av. Rec	115.000	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 05/28/97 | Lims Bat #: LIMS-29603 |

QC Batch Number: ICP-1808

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-03948	Silver	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	68.20	mg/kg	
		Lab Fort Blk. % Rec.	68.20	%	
	Arsenic	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	82.90	mg/kg	
		Lab Fort Blk. % Rec.	82.90	%	
	Barium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	93.34	mg/kg	
		Lab Fort Blk. % Rec.	93.34	%	
	Beryllium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	87.65	mg/kg	
		Lab Fort Blk. % Rec.	87.65	%	
	Cadmium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	83.45	mg/kg	
		Lab Fort Blk. % Rec.	83.45	%	
	Chromium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	87.75	mg/kg	
		Lab Fort Blk. % Rec.	87.75	%	
	Copper	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	88.00	mg/kg	
		Lab Fort Blk. % Rec.	88.00	%	
	Nickel	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	87.48	mg/kg	
		Lab Fort Blk. % Rec.	87.48	%	
	Lead	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	86.70	mg/kg	
		Lab Fort Blk. % Rec.	86.70	%	
	Antimony	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	76.65	mg/kg	
		Lab Fort Blk. % Rec.	76.65	%	
	Selenium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	83.15	mg/kg	
		Lab Fort Blk. % Rec.	83.15	%	
	Thallium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	83.75	mg/kg	
		Lab Fort Blk. % Rec.	83.75	%	
	Zinc	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	81.66	mg/kg	
		Lab Fort Blk. % Rec.	81.66	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 05/28/97 | Lims Bat #: LIMS-29603 |

QC Batch Number: ICP-1808

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-03949	Silver	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	72.90	mg/kg	
		Lab Fort Blk. % Rec.	72.90	%	
	Arsenic	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	83.80	mg/kg	
		Lab Fort Blk. % Rec.	83.80	%	
	Barium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	92.18	mg/kg	
		Lab Fort Blk. % Rec.	92.18	%	
	Beryllium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	87.25	mg/kg	
		Lab Fort Blk. % Rec.	87.25	%	
	Cadmium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	84.35	mg/kg	
		Lab Fort Blk. % Rec.	84.35	%	
	Chromium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	87.80	mg/kg	
		Lab Fort Blk. % Rec.	87.80	%	
	Copper	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	88.04	mg/kg	
		Lab Fort Blk. % Rec.	88.04	%	
	Nickel	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	88.28	mg/kg	
		Lab Fort Blk. % Rec.	88.28	%	
	Lead	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	87.10	mg/kg	
		Lab Fort Blk. % Rec.	87.10	%	
	Antimony	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	75.20	mg/kg	
		Lab Fort Blk. % Rec.	75.20	%	
	Selenium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	86.15	mg/kg	
		Lab Fort Blk. % Rec.	86.15	%	
	Thallium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	84.80	mg/kg	
		Lab Fort Blk. % Rec.	84.80	%	
	Zinc	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	82.62	mg/kg	
		Lab Fort Blk. % Rec.	82.62	%	

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FAX (413) 525-6405

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01028

Client Name: Vanasse Hanga Brustlin
Attn: Marc Richards
Address: 101 Walnut St.
Watertown, MA 02272
Site Location: Middletown, ~~MA~~ CT
Sampled: By: Marc Richards
Call Results: Yes ___ No X
Fax Results: Yes X No ___

Telephone: 617-924-1770
Batch #: 29603
Project #: 40163
Client P.O. #: 40163
Fax #: 617-923-2336

Analysis Required

Field Sample I.D.	Sample Description	Lab #	DATE SAMPLED Start Date/Time	DATE SAMPLED Stop Date/Time	Composite	Grab	MATRIX WASTE WATER	MATRIX GROUND WATER	MATRIX DKG WATER	MATRIX Soil	MATRIX Air	MATRIX *Other	Preservative (Use Code)	Container (Use Code)	TPH 8100M	SVOC 8270	13 Priority Pollutant Metals	PCB 8080						
OST3/TP1/0-2'	Burn Pit	97B08803		5/15	X					X							X							
OST3/TP-1/3-4'	Burn Pit	1 08804		5/15	X					X					X	X		X						

CONTAINER CODE
P: PLASTIC (___ Size) V = 40 ml vial G = Glass (___ size) A = 1000 ml Amber 0 = Other ___

PRESERVATIVE CODE:
I = ICED N = HNO_3 H = HCl S = NaOH T = $Na_2S_2O_3$ O = OTHER ___

Relinquished by: (Signature)	Date Time	Received by: (Signature)
[signature]	1630 5-15-97	W.R. Withington
W.R. Withington	1745 5-15-97	Edward Benson

Turnaround Requested: ___ 24-Hour ___ 48-Hour X Normal
___ Other ___ Date Required

Remarks/Comments: logged in by KMS.

*MATRIX OTHER ___

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VANASSE HANGEN BRUSTLIN, INC.
101 WALNUT STREET
WATERTOWN, MA 02272
ATTN: MARC RICHARDS

REPORT DATE: 05/29/97

PURCHASE ORDER NUMBER: 40163
PROJECT NUMBER: 40163

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-29602
JOB NUMBER: 29602

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report

PROJECT LOCATION: MIDDLETOWN, CT

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
QUON-1	97B08801	SOIL	FLOOR DRAIN	pcb - soil
QUON-1	97B08801	SOIL	FLOOR DRAIN	tph (mg/kg)
TRAN-1	97B08795	SOIL	TRANSFORMER	pcb - soil
TRAN-2	97B08796	SOIL	TRANSFORMER	pcb - soil
TRAN-3	97B08797	SOIL	TRANSFORMER	pcb - soil
TRAN-4	97B08798	SOIL	TRANSFORMER	pcb - soil
TRAN-5	97B08799	SOIL	TRANSFORMER	pcb - soil
UST4-8'	97B08800	SOIL	UST #4	8020 - solid
UST4-8'	97B08800	SOIL	UST #4	pb (mg/kg) aa
UST4-8'	97B08800	SOIL	UST #4	tph (mg/kg)

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	SUBCONTRACTOR LABORATORY
QUON-1	97B08802	SOIL	FLOOR DRAIN	herbicides-soil	SUBCONTRACTED

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

AIHA 308
MASSACHUSETTS MA100
CONNECTICUT PH-0567
NEW YORK ELAP 10899
OHIO (ENVIRO. LEAD) # 10005
NEW HAMPSHIRE 2516
AIHA ELLAP (LEAD) 6838
MAINE (POTABLE/NON-POTABLE)
VERMONT DOH (LEAD) No. 15036
RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document.

Edward Denson 5/30/97

SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director

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MARC RICHARDS
VANASSE HANGEN BRUSTLIN, INC.
101 WALNUT STREET
WATERTOWN, MA 02272

05/29/97

Purchase Order Number: 40163
Project Number: 40163

Project Location: MIDDLETOWN, CT
Date Received: 05/15/97

LIMS-BAT #: LIMS-29602
Job Number: 29602
Sample Matrix: SOIL

Sampled: 05/15/97
UST #4
UST4-8'

	Units	97808800	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Benzene	ug/kg	89.1	05/21/97	MFF	20.0		
Chlorobenzene	ug/kg	ND	05/21/97	MFF	50.0		
1,2-Dichlorobenzene	ug/kg	159	05/21/97	MFF	50.0		
1,3-Dichlorobenzene	ug/kg	ND	05/21/97	MFF	50.0		
1,4-Dichlorobenzene	ug/kg	ND	05/21/97	MFF	50.0		
Ethyl Benzene	ug/kg	3590	05/21/97	MFF	50.0		
Methyl tert-Butyl Ether (MTBE)	ug/kg	ND	05/21/97	MFF	50.0		
Toluene	ug/kg	349	05/21/97	MFF	50.0		
p&m-Xylene	ug/kg	ND	05/21/97	MFF	100		
o-Xylene	ug/kg	3530	05/21/97	MFF	50.0		

Analytical Method(s):

SW846 8020

CONCENTRATION BY PURGE AND TRAP FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PHOTOIONIZATION DETECTION.

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29602
Job Number: 29602
Sample Matrix: SOIL

Sampled: 05/15/97
FLOOR DRAIN
QUON-1

	Units	97808802	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-D	mg/kg	ND	05/20/97	SW	0.10		
2,4,5-TP	mg/kg	ND	05/20/97	SW	0.02		

Analytical Method(s):
SW846 8150

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29602
Job Number: 29602
Sample Matrix: SOIL

Sampled: 05/15/97
UST #4
UST4-8'

	Units	97B08800	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
LEAD	MG/KG	5.48	05/22/97	APP	2.49	1000	P

Analytical Method(s):

SW846 3050/7420

SAMPLES ARE DIGESTED IN NITRIC ACID AND ANALYZED BY FLAME ATOMIC ABSORPTION SPECTROPHOTOMETRY.

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29602
Job Number: 29602
Sample Matrix: SOIL

Sampled: 05/15/97
FLOOR DRAIN
QUON-1

	Units	97808801	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
PCB 1221	mg/kg	ND	05/29/97	JB			
PCB 1232	mg/kg	ND	05/29/97	JB			
PCB 1242/1016	mg/kg	ND	05/29/97	JB			
PCB 1248	mg/kg	ND	05/29/97	JB			
PCB 1254	mg/kg	ND	05/29/97	JB			
PCB 1260	mg/kg	0.383	05/29/97	JB			
Total PCB	mg/kg	0.383	05/29/97	JB	0.025		

Sampled: 05/14/97
TRANSFORMER
TRAN-1

	Units	97808795	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
PCB 1221	mg/kg	ND	05/23/97	JB			
PCB 1232	mg/kg	ND	05/23/97	JB			
PCB 1242/1016	mg/kg	ND	05/23/97	JB			
PCB 1248	mg/kg	ND	05/23/97	JB			
PCB 1254	mg/kg	ND	05/23/97	JB			
PCB 1260	mg/kg	0.154	05/23/97	JB			
Total PCB	mg/kg	0.154	05/23/97	JB	0.024		

Sampled: 05/14/97
TRANSFORMER
TRAN-2

	Units	97808796	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
PCB 1221	mg/kg	ND	05/23/97	JB			
PCB 1232	mg/kg	ND	05/23/97	JB			

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29602
Job Number: 29602
Sample Matrix: SOIL

Sampled: 05/14/97
TRANSFORMER
TRAN-2

	Units	97808796	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
PCB 1242/1016	mg/kg	ND	05/23/97	JB			
PCB 1248	mg/kg	ND	05/23/97	JB			
PCB 1254	mg/kg	ND	05/23/97	JB			
PCB 1260	mg/kg	1.02	05/23/97	JB			
Total PCB	mg/kg	1.02	05/23/97	JB	0.024		

Sampled: 05/14/97
TRANSFORMER
TRAN-3

	Units	97808797	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
PCB 1221	mg/kg	ND	05/23/97	JB			
PCB 1232	mg/kg	ND	05/23/97	JB			
PCB 1242/1016	mg/kg	ND	05/23/97	JB			
PCB 1248	mg/kg	ND	05/23/97	JB			
PCB 1254	mg/kg	ND	05/23/97	JB			
PCB 1260	mg/kg	0.762	05/23/97	JB			
Total PCB	mg/kg	0.762	05/23/97	JB	0.025		

Sampled: 05/14/97
TRANSFORMER
TRAN-4

	Units	97808798	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
PCB 1221	mg/kg	ND	05/23/97	JB			
PCB 1232	mg/kg	ND	05/23/97	JB			
PCB 1242/1016	mg/kg	ND	05/23/97	JB			
PCB 1248	mg/kg	ND	05/23/97	JB			

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29602
Job Number: 29602
Sample Matrix: SOIL

Sampled: 05/14/97
TRANSFORMER
TRAN-4

	Units	97B08798	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
PCB 1254	mg/kg	ND	05/23/97	JB			
PCB 1260	mg/kg	1.68	05/23/97	JB			
Total PCB	mg/kg	1.68	05/23/97	JB	0.472		

Sampled: 05/14/97
TRANSFORMER
TRAN-5

	Units	97B08799	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
PCB 1221	mg/kg	ND	05/23/97	JB			
PCB 1232	mg/kg	ND	05/23/97	JB			
PCB 1242/1016	mg/kg	ND	05/23/97	JB			
PCB 1248	mg/kg	ND	05/23/97	JB			
PCB 1254	mg/kg	ND	05/23/97	JB			
PCB 1260	mg/kg	0.609	05/23/97	JB			
Total PCB	mg/kg	0.609	05/23/97	JB	0.025		

Analytical Method(s):

SW846 8080

SAMPLES ARE EXTRACTED INTO HEXANE AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION.

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29602
Job Number: 29602
Sample Matrix: SOIL

Sampled: 05/15/97
FLOOR DRAIN
QUON-1

	Units	97808801	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	148	05/27/97	AC	20.0		

Sampled: 05/15/97
UST #4
UST4-8'

	Units	97808800	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	37700	05/28/97	RCL	19.8		

Analytical Method(s):

MODIFIED EPA 418.1

INFRA-RED DETERMINATION FOLLOWING EXTRACTION OF HYDROCARBONS INTO
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 05/29/97 | Lims Bat #: LIMS-29602 |

QC Batch Number: FLM/AA-1164

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-03935	LEAD	Lab Fort Blank Amt.	99.42	mg/kg dry wt.	
		Lab Fort Blk. Found	105.39	mg/kg dry wt.	
		Lab Fort Blk. % Rec.	106.00	%	
	LEAD	Lab Fort Blank Amt.	99.42	MG/KG	
		Lab Fort Blk. Found	105.39	MG/KG	
		Lab Fort Blk. % Rec.	106.00	%	
LFBLANK-03936	LEAD	Lab Fort Blank Amt.	99.60	mg/kg dry wt.	
		Lab Fort Blk. Found	102.59	mg/kg dry wt.	
		Lab Fort Blk. % Rec.	103.00	%	
	LEAD	Lab Fort Blank Amt.	99.60	MG/KG	
		Lab Fort Blk. Found	102.59	MG/KG	
		Lab Fort Blk. % Rec.	103.00	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 05/29/97 | Lims Bat #: LIMS-29602 |

QC Batch Number: GC/ECD-1287

Sample Id	Analysis	QC Analysis	Values	Units	Limits
97B08795	PCB 1232	Sample Amount	0.000	mg/kg	
		Duplicate Value	0.000	mg/kg	
	PCB 1242/1016	Sample Amount	0.000	mg/kg	
		Duplicate Value	0.000	mg/kg	
	PCB 1254	Sample Amount	0.000	mg/kg	
		Duplicate Value	0.000	mg/kg	
		Sample Amount	0.000	mg/kg	
		Matrix Spk Amt Added	38.400	mg/kg	
		MS Amt Measured	35.775	mg/kg	
		Matrix Spike % Rec.	93.163	%	
	PCB 1260	Sample Amount	0.154	mg/kg	
		Duplicate Value	0.153	mg/kg	
		Duplicate RPD	1.116	%	
	PCB 1248	Sample Amount	0.000	mg/kg	
		Duplicate Value	0.000	mg/kg	
	PCB 1221	Sample Amount	0.000	mg/kg	
		Duplicate Value	0.000	mg/kg	
	Total PCB	Sample Amount	0.154	mg/kg	
		Duplicate Value	0.153	mg/kg	
		Duplicate RPD	1.116	%	
		Sample Amount	0.154	mg/kg	
		Matrix Spk Amt Added	38.400	mg/kg	
		MS Amt Measured	35.775	mg/kg	
		Matrix Spike % Rec.	92.761	%	
	Dibutylchlorendate (	Sample Amount	44.5	%	
		Duplicate Value	54.0	%	
		Duplicate RPD	19.3	%	
BLANK-07902	PCB 1232	Blank	0.000	mg/kg	
	PCB 1242/1016	Blank	0.000	mg/kg	
	PCB 1254	Blank	0.000	mg/kg	
	PCB 1260	Blank	0.000	mg/kg	
	PCB 1248	Blank	0.000	mg/kg	
	PCB 1221	Blank	0.000	mg/kg	
	Total PCB	Blank	<0.025	mg/kg	
	Dibutylchlorendate (	Blank	106.5	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 05/29/97 | Lims Bat #: LIMS-29602 |

QC Batch Number: GC/PID-1629

Sample Id	Analysis	QC Analysis	Values	Units	Limits
97808800	1-Cl-2-Fluorobenzene	Sur. Recovery (PID)	153.6	%	70.2-130.0
BLANK-07894	Benzene	Blank	<1.0	ug/kg	
	1,4-Dichlorobenzene	Blank	<2.5	ug/kg	
	Ethyl Benzene	Blank	<2.5	ug/kg	
	Toluene	Blank	<2.5	ug/kg	
	o-Xylene	Blank	<2.5	ug/kg	
	p&m-Xylene	Blank	<5.0	ug/kg	
	1,2-Dichlorobenzene	Blank	<2.5	ug/kg	
	1,3-Dichlorobenzene	Blank	<2.5	ug/kg	
	Methyl tert-Butyl Et	Blank	<2.5	ug/kg	
	Chlorobenzene	Blank	<2.5	ug/kg	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 05/29/97 | Lims Bat #: LIMS-29602 |

NOTES:

QC Batch No.: GC/PID-1629
Sample ID: 97B08800
Analysis: 1-Cl-2-Fluorobenzene
QC Analysis: Sur. Recovery (PID)

SURROGATE RECOVERY OUTSIDE OF CONTROL LIMITS DUE TO SAMPLE MATRIX INTERFERENCE.

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FAX (413) 525-6405

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01028

Client Name: Vanasse Hanger Brustlin
Attn: Marc Richards
Address: 101 Walnut St.
Watertown, MA 02272
Site Location: Middletown, CT
Sampled By: Marc Richards
Call Results: Yes ___ No X
Fax Results: Yes X No ___

Telephone: 617-924-1770
Batch #: 29102
Project #: 40163
Client P.O. #: 40163
Fax #: 617-923-2336

Field Sample I.D.	Sample Description	Lab #	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	Composite	Grab	Matrix: Waste Water	Matrix: Ground Water	Matrix: DKG Water	Matrix: Soil	Matrix: Air	Matrix: *Other	Preservative (Use Code)	Container (Use Code)	PCB 8080	TPH 418.1	VOC 8020	Total Lead 7421	Herbicides 8150					
Tran-1	Transformer	97B08795		5/14	X					X				A	X									
Tran-2	↓	08796		5/14	X					X				A	X									
Tran-3		08797		5/14	X					X				A	X									
Tran-4		08798		5/14	X					X				A	X									
Tran-5		08799		5/14	X					X				A	X									
UST4-8'	UST # 4	08800		5/15		X				X			2	G		X	X	X						
Quon-1	Floor Drain	08801		5/15	X					X				G	X	X			~~X~~ (Hg)					
↓	↓	08802		↓	↓					X									X					

CONTAINER CODE
P: PLASTIC (___ Size) V = 40 ml vial G = Glass (___ size) A = 1000 ml Amber 0 = Other ___

PRESERVATIVE CODE:
I = ICED N = HNO_3 H = HCl S = NaOH T = $Na_2S_2O_3$ O = OTHER ___

Relinquished by: (Signature)	Date Time	Received by: (Signature)
[signature]	1630 5-15-97	W R Whittington
W R Whittington	1745 5-15-97	Edward Benson

Turnaround Requested: ___ 24-Hour ___ 48-Hour X Normal
___ Other ___ Date Required

Remarks/Comments: logged in by KMS.

*MATRIX OTHER ___

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VANASSE HANGEN BRUSTLIN, INC.
101 WALNUT STREET
WATERTOWN, MA 02272
ATTN: MARC RICHARDS

REPORT DATE: 05/30/97

PURCHASE ORDER NUMBER: 40163
PROJECT NUMBER: 40163

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-29639
JOB NUMBER: 29639

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report

PROJECT LOCATION: MIDDLETOWN, CT.

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
ROW/TP01/0-2'	97B09020	SOIL	R.O.W.	8270-soil bn-2
ROW/TP01/0-2'	97B09020	SOIL	R.O.W.	8270-soil bn1
ROW/TP01/0-2'	97B09020	SOIL	R.O.W.	8270-soil-acid
ROW/TP01/0-2'	97B09020	SOIL	R.O.W.	metals(13pp)socp
ROW/TP03/0-2'	97B09021	SOIL	R.O.W.	cyanide-tot sold
ROW/TP06/3-4'	97B09022	SOIL	R.O.W.	8270-soil bn-2
ROW/TP06/3-4'	97B09022	SOIL	R.O.W.	8270-soil bn1
ROW/TP06/3-4'	97B09022	SOIL	R.O.W.	8270-soil-acid
ROW/TP06/3-4'	97B09022	SOIL	R.O.W.	metals(13pp)socp
ROW/TP07/2-3'	97B09023	SOIL	R.O.W.	8270-soil bn-2
ROW/TP07/2-3'	97B09023	SOIL	R.O.W.	8270-soil bn1
ROW/TP07/2-3'	97B09023	SOIL	R.O.W.	8270-soil-acid
ROW/TP07/2-3'	97B09023	SOIL	R.O.W.	metals(13pp)socp
ROW/TP07/2-3'	97B09023	SOIL	R.O.W.	tph (mg/kg)
ROW/TP09/6-8'	97B09024	SOIL	R.O.W.	8270-soil bn-2
ROW/TP09/6-8'	97B09024	SOIL	R.O.W.	8270-soil bn1
ROW/TP09/6-8'	97B09024	SOIL	R.O.W.	8270-soil-acid
ROW/TP09/6-8'	97B09024	SOIL	R.O.W.	tph (mg/kg)
ROW/TP09/6-8'	97B09025	SOIL	R.O.W.	8240 - solid (a)
ROW/TP09/6-8'	97B09025	SOIL	R.O.W.	8240 - solid (b)
ROW/TP10/4-6'	97B09026	SOIL	R.O.W.	8270-soil bn-2
ROW/TP10/4-6'	97B09026	SOIL	R.O.W.	8270-soil bn1
ROW/TP10/4-6'	97B09026	SOIL	R.O.W.	8270-soil-acid
ROW/TP10/4-6'	97B09026	SOIL	R.O.W.	metals(13pp)socp
ROW/TP10/4-6'	97B09026	SOIL	R.O.W.	tph (mg/kg)
ROW/TP10/4-6'	97B09027	SOIL	R.O.W.	8240 - solid (a)
ROW/TP10/4-6'	97B09027	SOIL	R.O.W.	8240 - solid (b)
ROW/TP11/3-4'	97B09028	SOIL	R.O.W.	8270-soil bn-2
ROW/TP11/3-4'	97B09028	SOIL	R.O.W.	8270-soil bn1
ROW/TP11/3-4'	97B09028	SOIL	R.O.W.	8270-soil-acid
ROW/TP11/3-4'	97B09028	SOIL	R.O.W.	tph (mg/kg)
UST 2-6'	97B09018	SOIL	TEST PST AT UST-2	pb (mg/kg) aa
UST 2-6'	97B09018	SOIL	TEST PST AT UST-2	tph (mg/kg)
UST 2-6'	97B09019	SOIL	TEST PST AT UST-2	8020 - solid

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VANASSE HANGEN BRUSTLIN, INC.

REPORT DATE: 05/30/97

101 WALNUT STREET
WATERTOWN, MA 02272
ATTN: MARC RICHARDS

PURCHASE ORDER NUMBER: 40163
PROJECT NUMBER: 40163

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-29639
JOB NUMBER: 29639

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

AIHA 308
MASSACHUSETTS MA100
CONNECTICUT PH-0567
NEW YORK ELAP 10899
OHIO (ENVIRO. LEAD) # 10005
NEW HAMPSHIRE 2516
AIHA ELLAP (LEAD) 6838
MAINE (POTABLE/NON-POTABLE)
VERMONT DOH (LEAD) No. 15036
RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document.

Edward Denson 6/2/97

SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director

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MARC RICHARDS
VANASSE HANGEN BRUSTLIN, INC.
101 WALNUT STREET
WATERTOWN, MA 02272

05/30/97

Purchase Order Number: 40163
Project Number: 40163

Project Location: MIDDLETOWN, CT.
Date Received: 05/16/97

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
TEST PST AT UST-2
UST 2-6'

	Units	97B09019	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Benzene	ug/kg	ND	05/23/97	MFF	40.0		
Chlorobenzene	ug/kg	ND	05/23/97	MFF	100		
1,2-Dichlorobenzene	ug/kg	ND	05/23/97	MFF	100		
1,3-Dichlorobenzene	ug/kg	ND	05/23/97	MFF	100		
1,4-Dichlorobenzene	ug/kg	ND	05/23/97	MFF	100		
Ethyl Benzene	ug/kg	410	05/23/97	MFF	100		
Methyl tert-Butyl Ether (MTBE)	ug/kg	ND	05/23/97	MFF	100		
Toluene	ug/kg	ND	05/23/97	MFF	100		
p&m-Xylene	ug/kg	ND	05/23/97	MFF	200		
o-Xylene	ug/kg	574	05/23/97	MFF	100		

Analytical Method(s):

SW846 8020

CONCENTRATION BY PURGE AND TRAP FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PHOTOIONIZATION DETECTION.

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP09/6-8'

	Units	97809025	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acetone	mg/kg	BDL	05/29/97	WSD	0.161		
Acrolein	mg/kg	ND	05/29/97	WSD	0.200		
Acrylonitrile	mg/kg	ND	05/29/97	WSD	0.076		
Benzene	mg/kg	ND	05/29/97	WSD	0.006		
Bromodichloromethane	mg/kg	ND	05/29/97	WSD	0.004		
Bromomethane	mg/kg	ND	05/29/97	WSD	0.012		
Bromoform	mg/kg	ND	05/29/97	WSD	0.012		
2-Butanone (MEK)	mg/kg	ND	05/29/97	WSD	0.120		
Carbon Disulfide	mg/kg	ND	05/29/97	WSD	0.005		
Carbon Tetrachloride	mg/kg	ND	05/29/97	WSD	0.005		
Chlorobenzene	mg/kg	ND	05/29/97	WSD	0.006		
Chlorodibromomethane	mg/kg	ND	05/29/97	WSD	0.005		
Chloroethane	mg/kg	ND	05/29/97	WSD	0.008		
2-Chloroethylvinylether	mg/kg	ND	05/29/97	WSD	0.096		
Chloroform	mg/kg	ND	05/29/97	WSD	0.008		
Chloromethane	mg/kg	ND	05/29/97	WSD	0.012		
Dibromomethane	mg/kg	ND	05/29/97	WSD	0.011		
1,2-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.008		
1,3-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.006		
1,4-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.008		
c-1,4-Dichloro-2-Butene	mg/kg	ND	05/29/97	WSD	0.024		
t-1,4-Dichloro-2-Butene	mg/kg	ND	05/29/97	WSD	0.021		
Dichlorodifluoromethane	mg/kg	ND	05/29/97	WSD	0.010		
1,1-Dichloroethane	mg/kg	ND	05/29/97	WSD	0.007		
1,2-Dichloroethane	mg/kg	ND	05/29/97	WSD	0.009		
1,1-Dichloroethylene	mg/kg	ND	05/29/97	WSD	0.006		
t-1,2-Dichloroethylene	mg/kg	ND	05/29/97	WSD	0.008		
1,2-Dichloropropane	mg/kg	ND	05/29/97	WSD	0.006		
cis-1,3-Dichloropropene	mg/kg	ND	05/29/97	WSD	0.005		
t-1,3-Dichloropropene	mg/kg	ND	05/29/97	WSD	0.004		
Ethyl Benzene	mg/kg	ND	05/29/97	WSD	0.006		
Ethyl Methacrylate	mg/kg	ND	05/29/97	WSD	0.008		

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP09/6-8'

	Units	97B09025	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2-Hexanone	mg/kg	ND	05/29/97	WSD	0.097		
Iodomethane	mg/kg	ND	05/29/97	WSD	0.008		
Methyl tert-Butyl Ether (MTBE)	mg/kg	ND	05/29/97	WSD	0.008		
Methylene Chloride	mg/kg	BDL	05/29/97	WSD	0.030		
4-Methyl-2-Pentanone (MIBK)	mg/kg	ND	05/29/97	WSD	0.088		
Styrene	mg/kg	ND	05/29/97	WSD	0.007		
1,1,2,2-Tetrachloroethane	mg/kg	ND	05/29/97	WSD	0.014		
Tetrachloroethylene	mg/kg	ND	05/29/97	WSD	0.004		
Toluene	mg/kg	ND	05/29/97	WSD	0.007		
1,1,1-Trichloroethane	mg/kg	ND	05/29/97	WSD	0.009		
1,1,2-Trichloroethane	mg/kg	ND	05/29/97	WSD	0.007		
Trichloroethylene	mg/kg	ND	05/29/97	WSD	0.010		
Trichlorofluoromethane	mg/kg	ND	05/29/97	WSD	0.007		
1,2,3-Trichloropropane	mg/kg	ND	05/29/97	WSD	0.013		
Vinyl Acetate	mg/kg	ND	05/29/97	WSD	0.164		
Vinyl Chloride	mg/kg	ND	05/29/97	WSD	0.003		
m-Xylene	mg/kg	ND	05/29/97	WSD	0.013		
o&p-Xylene	mg/kg	ND	05/29/97	WSD	0.005		

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP10/4-6'

	Units	97809027	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acetone	mg/kg	BDL	05/29/97	WSD	8.05		
Acrolein	mg/kg	ND	05/29/97	WSD	10.0		
Acrylonitrile	mg/kg	ND	05/29/97	WSD	3.80		
Benzene	mg/kg	ND	05/29/97	WSD	0.300		
Bromodichloromethane	mg/kg	ND	05/29/97	WSD	0.200		
Bromomethane	mg/kg	ND	05/29/97	WSD	0.600		
Bromoform	mg/kg	ND	05/29/97	WSD	0.600		
2-Butanone (MEK)	mg/kg	BDL	05/29/97	WSD	6.00		
Carbon Disulfide	mg/kg	ND	05/29/97	WSD	0.250		
Carbon Tetrachloride	mg/kg	ND	05/29/97	WSD	0.250		
Chlorobenzene	mg/kg	ND	05/29/97	WSD	0.300		
Chlorodibromomethane	mg/kg	ND	05/29/97	WSD	0.250		
Chloroethane	mg/kg	ND	05/29/97	WSD	0.400		
2-Chloroethylvinylether	mg/kg	ND	05/29/97	WSD	4.80		
Chloroform	mg/kg	ND	05/29/97	WSD	0.400		
Chloromethane	mg/kg	ND	05/29/97	WSD	0.600		
Dibromomethane	mg/kg	ND	05/29/97	WSD	0.550		
1,2-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.400		
1,3-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.300		
1,4-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.400		
c-1,4-Dichloro-2-Butene	mg/kg	ND	05/29/97	WSD	1.20		
t-1,4-Dichloro-2-Butene	mg/kg	ND	05/29/97	WSD	1.05		
Dichlorodifluoromethane	mg/kg	ND	05/29/97	WSD	0.500		
1,1-Dichloroethane	mg/kg	ND	05/29/97	WSD	0.350		
1,2-Dichloroethane	mg/kg	ND	05/29/97	WSD	0.450		
1,1-Dichloroethylene	mg/kg	ND	05/29/97	WSD	0.300		
t-1,2-Dichloroethylene	mg/kg	ND	05/29/97	WSD	0.400		
1,2-Dichloropropane	mg/kg	ND	05/29/97	WSD	0.300		
cis-1,3-Dichloropropene	mg/kg	ND	05/29/97	WSD	0.250		
t-1,3-Dichloropropene	mg/kg	ND	05/29/97	WSD	0.200		
Ethyl Benzene	mg/kg	0.550	05/29/97	WSD	0.300		
Ethyl Methacrylate	mg/kg	ND	05/29/97	WSD	0.400		

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP10/4-6'

	Units	97809027	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2-Hexanone	mg/kg	20.1	05/29/97	WSD	4.85		
Iodomethane	mg/kg	ND	05/29/97	WSD	0.400		
Methyl tert-Butyl Ether (MTBE)	mg/kg	ND	05/29/97	WSD	0.400		
Methylene Chloride	mg/kg	BDL	05/29/97	WSD	1.50		
4-Methyl-2-Pentanone (MIBK)	mg/kg	ND	05/29/97	WSD	4.40		
Styrene	mg/kg	ND	05/29/97	WSD	0.350		
1,1,2,2-Tetrachloroethane	mg/kg	ND	05/29/97	WSD	0.700		
Tetrachloroethylene	mg/kg	ND	05/29/97	WSD	0.200		
Toluene	mg/kg	BDL	05/29/97	WSD	0.350		
1,1,1-Trichloroethane	mg/kg	ND	05/29/97	WSD	0.450		
1,1,2-Trichloroethane	mg/kg	ND	05/29/97	WSD	0.350		
Trichloroethylene	mg/kg	ND	05/29/97	WSD	0.500		
Trichlorofluoromethane	mg/kg	ND	05/29/97	WSD	0.350		
1,2,3-Trichloropropane	mg/kg	ND	05/29/97	WSD	0.650		
Vinyl Acetate	mg/kg	ND	05/29/97	WSD	8.20		
Vinyl Chloride	mg/kg	ND	05/29/97	WSD	0.150		
m-Xylene	mg/kg	1.35	05/29/97	WSD	0.650		
o&p-Xylene	mg/kg	2.15	05/29/97	WSD	0.250		

Analytical Method(s):

SW846 8240

SAMPLES ARE CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP01/0-2'

	Units	97B09020	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	mg/kg	ND	05/22/97	WSD	0.33		
Acenaphthylene	mg/kg	ND	05/22/97	WSD	0.33		
Aniline	mg/kg	ND	05/22/97	WSD	0.33		
Anthracene	mg/kg	ND	05/22/97	WSD	0.33		
Benzidene	mg/kg	ND	05/22/97	WSD	2.33		
Benzoic Acid	mg/kg	ND	05/22/97	WSD	1.00		
Benzo(a)anthracene	mg/kg	ND	05/22/97	WSD	0.33		
Benzo(a)pyrene	mg/kg	ND	05/22/97	WSD	0.67		
Benzo(b)fluoranthene	mg/kg	ND	05/22/97	WSD	0.33		
Benzo(g,h,i)perylene	mg/kg	ND	05/22/97	WSD	1.00		
Benzo(k)fluoranthene	mg/kg	ND	05/22/97	WSD	0.67		
Benzyl Alcohol	mg/kg	ND	05/22/97	WSD	0.67		
Bis(2-chloroethoxy)methane	mg/kg	ND	05/22/97	WSD	0.33		
Bis(2-chloroethyl)ether	mg/kg	ND	05/22/97	WSD	0.33		
Bis(2-chloroisopropyl)ether	mg/kg	ND	05/22/97	WSD	0.33		
Bis(2-ethylhexyl)phthalate	mg/kg	BDL	05/22/97	WSD	0.33		
4-Bromophenylphenylether	mg/kg	ND	05/22/97	WSD	0.33		
Butylbenzylphthalate	mg/kg	ND	05/22/97	WSD	0.67		
4-Chloroaniline	mg/kg	ND	05/22/97	WSD	0.67		
2-Chloronaphthalene	mg/kg	ND	05/22/97	WSD	0.33		
4-Chlorophenylphenylether	mg/kg	ND	05/22/97	WSD	0.33		
Chrysene	mg/kg	ND	05/22/97	WSD	0.67		
Dibenzofuran	mg/kg	ND	05/22/97	WSD	0.33		
Dibenz(a,h)anthracene	mg/kg	ND	05/22/97	WSD	0.67		
1,2-Dichlorobenzene	mg/kg	ND	05/22/97	WSD	0.33		
1,3-Dichlorobenzene	mg/kg	ND	05/22/97	WSD	0.33		
1,4-Dichlorobenzene	mg/kg	ND	05/22/97	WSD	0.33		
3,3'-Dichlorobenzidine	mg/kg	ND	05/22/97	WSD	0.67		
Diethylphthalate	mg/kg	BDL	05/22/97	WSD	0.33		
Dimethylphthalate	mg/kg	ND	05/22/97	WSD	0.67		
Di-n-butylphthalate	mg/kg	BDL	05/22/97	WSD	0.33		
Di-n-octylphthalate	mg/kg	BDL	05/22/97	WSD	0.67		

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP01/0-2'

	Units	97B09020	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-Dinitrotoluene	mg/kg	ND	05/22/97	WSD	0.33		
2,6-Dinitrotoluene	mg/kg	ND	05/22/97	WSD	0.33		
1,2-Diphenylhydrazine	mg/kg	ND	05/22/97	WSD	0.33		
Fluoranthene	mg/kg	ND	05/22/97	WSD	0.33		
Fluorene	mg/kg	ND	05/22/97	WSD	0.33		
Hexachlorobenzene	mg/kg	ND	05/22/97	WSD	0.33		
Hexachlorobutadiene	mg/kg	ND	05/22/97	WSD	0.33		
Hexachlorocyclopentadiene	mg/kg	ND	05/22/97	WSD	0.33		
Hexachloroethane	mg/kg	ND	05/22/97	WSD	0.33		
Indeno(1,2,3-cd)pyrene	mg/kg	ND	05/22/97	WSD	0.33		
Isophorone	mg/kg	ND	05/22/97	WSD	0.33		
2-Methylnaphthalene	mg/kg	ND	05/22/97	WSD	0.33		
Naphthalene	mg/kg	ND	05/22/97	WSD	0.33		
2-Nitroaniline	mg/kg	ND	05/22/97	WSD	0.33		
3-Nitroaniline	mg/kg	ND	05/22/97	WSD	0.33		
4-Nitroaniline	mg/kg	ND	05/22/97	WSD	0.33		
Nitrobenzene	mg/kg	ND	05/22/97	WSD	0.33		
N-Nitrosodimethylamine	mg/kg	ND	05/22/97	WSD	0.33		
N-Nitrosodiphenylamine	mg/kg	ND	05/22/97	WSD	0.33		
N-Nitroso-di-n-propylamine	mg/kg	ND	05/22/97	WSD	0.33		
Phenanthrene	mg/kg	ND	05/22/97	WSD	0.33		
Pyrene	mg/kg	BDL	05/22/97	WSD	1.00		
Pyridine	mg/kg	ND	05/22/97	WSD	0.33		
1,2,4-Trichlorobenzene	mg/kg	ND	05/22/97	WSD	0.33		

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP06/3-4'

	Units	97809022	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	mg/kg	ND	05/22/97	WSD	0.33		
Acenaphthylene	mg/kg	ND	05/22/97	WSD	0.33		
Aniline	mg/kg	ND	05/22/97	WSD	0.33		
Anthracene	mg/kg	ND	05/22/97	WSD	0.33		
Benzidene	mg/kg	ND	05/22/97	WSD	2.33		
Benzoic Acid	mg/kg	ND	05/22/97	WSD	1.00		
Benzo(a)anthracene	mg/kg	ND	05/22/97	WSD	0.33		
Benzo(a)pyrene	mg/kg	ND	05/22/97	WSD	0.67		
Benzo(b)fluoranthene	mg/kg	ND	05/22/97	WSD	0.33		
Benzo(g,h,i)perylene	mg/kg	ND	05/22/97	WSD	1.00		
Benzo(k)fluoranthene	mg/kg	ND	05/22/97	WSD	0.67		
Benzyl Alcohol	mg/kg	ND	05/22/97	WSD	0.67		
Bis(2-chloroethoxy)methane	mg/kg	ND	05/22/97	WSD	0.33		
Bis(2-chloroethyl)ether	mg/kg	ND	05/22/97	WSD	0.33		
Bis(2-chloroisopropyl)ether	mg/kg	ND	05/22/97	WSD	0.33		
Bis(2-ethylhexyl)phthalate	mg/kg	BDL	05/22/97	WSD	0.33		
4-Bromophenylphenylether	mg/kg	ND	05/22/97	WSD	0.33		
Butylbenzylphthalate	mg/kg	BDL	05/22/97	WSD	0.67		
4-Chloroaniline	mg/kg	ND	05/22/97	WSD	0.67		
2-Chloronaphthalene	mg/kg	ND	05/22/97	WSD	0.33		
4-Chlorophenylphenylether	mg/kg	ND	05/22/97	WSD	0.33		
Chrysene	mg/kg	ND	05/22/97	WSD	0.67		
Dibenzofuran	mg/kg	ND	05/22/97	WSD	0.33		
Dibenz(a,h)anthracene	mg/kg	ND	05/22/97	WSD	0.67		
1,2-Dichlorobenzene	mg/kg	ND	05/22/97	WSD	0.33		
1,3-Dichlorobenzene	mg/kg	ND	05/22/97	WSD	0.33		
1,4-Dichlorobenzene	mg/kg	ND	05/22/97	WSD	0.33		
3,3'-Dichlorobenzidine	mg/kg	ND	05/22/97	WSD	0.67		
Diethylphthalate	mg/kg	ND	05/22/97	WSD	0.33		
Dimethylphthalate	mg/kg	ND	05/22/97	WSD	0.67		
Di-n-butylphthalate	mg/kg	BDL	05/22/97	WSD	0.33		
Di-n-octylphthalate	mg/kg	BDL	05/22/97	WSD	0.67		

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
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SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP07/2-3'

	Units	97B09023	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-Dinitrotoluene	mg/kg	ND	05/22/97	WSD	10.0		
2,6-Dinitrotoluene	mg/kg	ND	05/22/97	WSD	10.0		
1,2-Diphenylhydrazine	mg/kg	ND	05/22/97	WSD	10.0		
Fluoranthene	mg/kg	ND	05/22/97	WSD	10.0		
Fluorene	mg/kg	BDL	05/22/97	WSD	10.0		
Hexachlorobenzene	mg/kg	ND	05/22/97	WSD	10.0		
Hexachlorobutadiene	mg/kg	ND	05/22/97	WSD	10.0		
Hexachlorocyclopentadiene	mg/kg	ND	05/22/97	WSD	10.0		
Hexachloroethane	mg/kg	ND	05/22/97	WSD	10.0		
Indeno(1,2,3-cd)pyrene	mg/kg	ND	05/22/97	WSD	10.0		
Isophorone	mg/kg	ND	05/22/97	WSD	10.0		
2-Methylnaphthalene	mg/kg	ND	05/22/97	WSD	10.0		
Naphthalene	mg/kg	BDL	05/22/97	WSD	10.0		
2-Nitroaniline	mg/kg	ND	05/22/97	WSD	10.0		
3-Nitroaniline	mg/kg	ND	05/22/97	WSD	10.0		
4-Nitroaniline	mg/kg	ND	05/22/97	WSD	10.0		
Nitrobenzene	mg/kg	ND	05/22/97	WSD	10.0		
N-Nitrosodimethylamine	mg/kg	ND	05/22/97	WSD	10.0		
N-Nitrosodiphenylamine	mg/kg	ND	05/22/97	WSD	10.0		
N-Nitroso-di-n-propylamine	mg/kg	ND	05/22/97	WSD	10.0		
Phenanthrene	mg/kg	BDL	05/22/97	WSD	10.0		
Pyrene	mg/kg	ND	05/22/97	WSD	30.0		
Pyridine	mg/kg	ND	05/22/97	WSD	10.0		
1,2,4-Trichlorobenzene	mg/kg	ND	05/22/97	WSD	10.0		

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP09/6-8'

	Units	97809024	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	mg/kg	ND	05/22/97	WSD	3.33		
Acenaphthylene	mg/kg	ND	05/22/97	WSD	3.33		
Aniline	mg/kg	ND	05/22/97	WSD	3.33		
Anthracene	mg/kg	BDL	05/22/97	WSD	3.33		
Benzidene	mg/kg	ND	05/22/97	WSD	23.3		
Benzoic Acid	mg/kg	ND	05/22/97	WSD	10.0		
Benzo(a)anthracene	mg/kg	BDL	05/22/97	WSD	3.33		
Benzo(a)pyrene	mg/kg	ND	05/22/97	WSD	6.67		
Benzo(b)fluoranthene	mg/kg	ND	05/22/97	WSD	3.33		
Benzo(g,h,i)perylene	mg/kg	ND	05/22/97	WSD	10.0		
Benzo(k)fluoranthene	mg/kg	ND	05/22/97	WSD	6.67		
Benzyl Alcohol	mg/kg	ND	05/22/97	WSD	6.67		
Bis(2-chloroethoxy)methane	mg/kg	ND	05/22/97	WSD	3.33		
Bis(2-chloroethyl)ether	mg/kg	ND	05/22/97	WSD	3.33		
Bis(2-chloroisopropyl)ether	mg/kg	ND	05/22/97	WSD	3.33		
Bis(2-ethylhexyl)phthalate	mg/kg	ND	05/22/97	WSD	3.33		
4-Bromophenylphenylether	mg/kg	ND	05/22/97	WSD	3.33		
Butylbenzylphthalate	mg/kg	ND	05/22/97	WSD	6.67		
4-Chloroaniline	mg/kg	ND	05/22/97	WSD	6.67		
2-Chloronaphthalene	mg/kg	ND	05/22/97	WSD	3.33		
4-Chlorophenylphenylether	mg/kg	ND	05/22/97	WSD	3.33		
Chrysene	mg/kg	BDL	05/22/97	WSD	6.67		
Dibenzofuran	mg/kg	ND	05/22/97	WSD	3.33		
Dibenz(a,h)anthracene	mg/kg	ND	05/22/97	WSD	6.67		
1,2-Dichlorobenzene	mg/kg	ND	05/22/97	WSD	3.33		
1,3-Dichlorobenzene	mg/kg	ND	05/22/97	WSD	3.33		
1,4-Dichlorobenzene	mg/kg	ND	05/22/97	WSD	3.33		
3,3'-Dichlorobenzidine	mg/kg	ND	05/22/97	WSD	6.67		
Diethylphthalate	mg/kg	ND	05/22/97	WSD	3.33		
Dimethylphthalate	mg/kg	ND	05/22/97	WSD	6.67		
Di-n-butylphthalate	mg/kg	BDL	05/22/97	WSD	3.33		
Di-n-octylphthalate	mg/kg	ND	05/22/97	WSD	6.67		

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP09/6-8'

	Units	97809024	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-Dinitrotoluene	mg/kg	ND	05/22/97	WSD	3.33		
2,6-Dinitrotoluene	mg/kg	ND	05/22/97	WSD	3.33		
1,2-Diphenylhydrazine	mg/kg	ND	05/22/97	WSD	3.33		
Fluoranthene	mg/kg	BDL	05/22/97	WSD	3.33		
Fluorene	mg/kg	ND	05/22/97	WSD	3.33		
Hexachlorobenzene	mg/kg	ND	05/22/97	WSD	3.33		
Hexachlorobutadiene	mg/kg	ND	05/22/97	WSD	3.33		
Hexachlorocyclopentadiene	mg/kg	ND	05/22/97	WSD	3.33		
Hexachloroethane	mg/kg	ND	05/22/97	WSD	3.33		
Indeno(1,2,3-cd)pyrene	mg/kg	ND	05/22/97	WSD	3.33		
Isophorone	mg/kg	ND	05/22/97	WSD	3.33		
2-Methylnaphthalene	mg/kg	ND	05/22/97	WSD	3.33		
Naphthalene	mg/kg	ND	05/22/97	WSD	3.33		
2-Nitroaniline	mg/kg	ND	05/22/97	WSD	3.33		
3-Nitroaniline	mg/kg	ND	05/22/97	WSD	3.33		
4-Nitroaniline	mg/kg	ND	05/22/97	WSD	3.33		
Nitrobenzene	mg/kg	ND	05/22/97	WSD	3.33		
N-Nitrosodimethylamine	mg/kg	ND	05/22/97	WSD	3.33		
N-Nitrosodiphenylamine	mg/kg	ND	05/22/97	WSD	3.33		
N-Nitroso-di-n-propylamine	mg/kg	ND	05/22/97	WSD	3.33		
Phenanthrene	mg/kg	BDL	05/22/97	WSD	3.33		
Pyrene	mg/kg	BDL	05/22/97	WSD	10.0		
Pyridine	mg/kg	ND	05/22/97	WSD	3.33		
1,2,4-Trichlorobenzene	mg/kg	ND	05/22/97	WSD	3.33		

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP10/4-6'

	Units	97B09026	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	mg/kg	ND	05/22/97	WSD	3.33		
Acenaphthylene	mg/kg	ND	05/22/97	WSD	3.33		
Aniline	mg/kg	ND	05/22/97	WSD	3.33		
Anthracene	mg/kg	ND	05/22/97	WSD	3.33		
Benzidene	mg/kg	ND	05/22/97	WSD	23.3		
Benzoic Acid	mg/kg	ND	05/22/97	WSD	10.0		
Benzo(a)anthracene	mg/kg	ND	05/22/97	WSD	3.33		
Benzo(a)pyrene	mg/kg	ND	05/22/97	WSD	6.67		
Benzo(b)fluoranthene	mg/kg	ND	05/22/97	WSD	3.33		
Benzo(g,h,i)perylene	mg/kg	ND	05/22/97	WSD	10.0		
Benzo(k)fluoranthene	mg/kg	ND	05/22/97	WSD	6.67		
Benzyl Alcohol	mg/kg	ND	05/22/97	WSD	6.67		
Bis(2-chloroethoxy)methane	mg/kg	ND	05/22/97	WSD	3.33		
Bis(2-chloroethyl)ether	mg/kg	BDL	05/22/97	WSD	3.33		
Bis(2-chloroisopropyl)ether	mg/kg	ND	05/22/97	WSD	3.33		
Bis(2-ethylhexyl)phthalate	mg/kg	3.60	05/22/97	WSD	3.33		
4-Bromophenylphenylether	mg/kg	ND	05/22/97	WSD	3.33		
Butylbenzylphthalate	mg/kg	BDL	05/22/97	WSD	6.67		
4-Chloroaniline	mg/kg	ND	05/22/97	WSD	6.67		
2-Chloronaphthalene	mg/kg	ND	05/22/97	WSD	3.33		
4-Chlorophenylphenylether	mg/kg	ND	05/22/97	WSD	3.33		
Chrysene	mg/kg	BDL	05/22/97	WSD	6.67		
Dibenzofuran	mg/kg	BDL	05/22/97	WSD	3.33		
Dibenz(a,h)anthracene	mg/kg	ND	05/22/97	WSD	6.67		
1,2-Dichlorobenzene	mg/kg	ND	05/22/97	WSD	3.33		
1,3-Dichlorobenzene	mg/kg	ND	05/22/97	WSD	3.33		
1,4-Dichlorobenzene	mg/kg	ND	05/22/97	WSD	3.33		
3,3'-Dichlorobenzidine	mg/kg	ND	05/22/97	WSD	6.67		
Diethylphthalate	mg/kg	ND	05/22/97	WSD	3.33		
Dimethylphthalate	mg/kg	ND	05/22/97	WSD	6.67		
Di-n-butylphthalate	mg/kg	BDL	05/22/97	WSD	3.33		
Di-n-octylphthalate	mg/kg	ND	05/22/97	WSD	6.67		

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP10/4-6'

	Units	97B09026	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-Dinitrotoluene	mg/kg	ND	05/22/97	WSD	3.33		
2,6-Dinitrotoluene	mg/kg	ND	05/22/97	WSD	3.33		
1,2-Diphenylhydrazine	mg/kg	ND	05/22/97	WSD	3.33		
Fluoranthene	mg/kg	BDL	05/22/97	WSD	3.33		
Fluorene	mg/kg	BDL	05/22/97	WSD	3.33		
Hexachlorobenzene	mg/kg	ND	05/22/97	WSD	3.33		
Hexachlorobutadiene	mg/kg	ND	05/22/97	WSD	3.33		
Hexachlorocyclopentadiene	mg/kg	ND	05/22/97	WSD	3.33		
Hexachloroethane	mg/kg	ND	05/22/97	WSD	3.33		
Indeno(1,2,3-cd)pyrene	mg/kg	ND	05/22/97	WSD	3.33		
Isophorone	mg/kg	ND	05/22/97	WSD	3.33		
2-Methylnaphthalene	mg/kg	BDL	05/22/97	WSD	3.33		
Naphthalene	mg/kg	BDL	05/22/97	WSD	3.33		
2-Nitroaniline	mg/kg	ND	05/22/97	WSD	3.33		
3-Nitroaniline	mg/kg	ND	05/22/97	WSD	3.33		
4-Nitroaniline	mg/kg	ND	05/22/97	WSD	3.33		
Nitrobenzene	mg/kg	ND	05/22/97	WSD	3.33		
N-Nitrosodimethylamine	mg/kg	ND	05/22/97	WSD	3.33		
N-Nitrosodiphenylamine	mg/kg	ND	05/22/97	WSD	3.33		
N-Nitroso-di-n-propylamine	mg/kg	ND	05/22/97	WSD	3.33		
Phenanthrene	mg/kg	BDL	05/22/97	WSD	3.33		
Pyrene	mg/kg	ND	05/22/97	WSD	10.0		
Pyridine	mg/kg	ND	05/22/97	WSD	3.33		
1,2,4-Trichlorobenzene	mg/kg	ND	05/22/97	WSD	3.33		

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP11/3-4'

	Units	97B09028	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	mg/kg	ND	05/22/97	WSD	0.33		
Acenaphthylene	mg/kg	ND	05/22/97	WSD	0.33		
Aniline	mg/kg	ND	05/22/97	WSD	0.33		
Anthracene	mg/kg	BDL	05/22/97	WSD	0.33		
Benzidene	mg/kg	ND	05/22/97	WSD	2.33		
Benzoic Acid	mg/kg	ND	05/22/97	WSD	1.00		
Benzo(a)anthracene	mg/kg	BDL	05/22/97	WSD	0.33		
Benzo(a)pyrene	mg/kg	BDL	05/22/97	WSD	0.67		
Benzo(b)fluoranthene	mg/kg	BDL	05/22/97	WSD	0.33		
Benzo(g,h,i)perylene	mg/kg	ND	05/22/97	WSD	1.00		
Benzo(k)fluoranthene	mg/kg	BDL	05/22/97	WSD	0.67		
Benzyl Alcohol	mg/kg	ND	05/22/97	WSD	0.67		
Bis(2-chloroethoxy)methane	mg/kg	ND	05/22/97	WSD	0.33		
Bis(2-chloroethyl)ether	mg/kg	ND	05/22/97	WSD	0.33		
Bis(2-chloroisopropyl)ether	mg/kg	ND	05/22/97	WSD	0.33		
Bis(2-ethylhexyl)phthalate	mg/kg	BDL	05/22/97	WSD	0.33		
4-Bromophenylphenylether	mg/kg	ND	05/22/97	WSD	0.33		
Butylbenzylphthalate	mg/kg	BDL	05/22/97	WSD	0.67		
4-Chloroaniline	mg/kg	ND	05/22/97	WSD	0.67		
2-Chloronaphthalene	mg/kg	ND	05/22/97	WSD	0.33		
4-Chlorophenylphenylether	mg/kg	ND	05/22/97	WSD	0.33		
Chrysene	mg/kg	BDL	05/22/97	WSD	0.67		
Dibenzofuran	mg/kg	ND	05/22/97	WSD	0.33		
Dibenz(a,h)anthracene	mg/kg	ND	05/22/97	WSD	0.67		
1,2-Dichlorobenzene	mg/kg	BDL	05/22/97	WSD	0.33		
1,3-Dichlorobenzene	mg/kg	BDL	05/22/97	WSD	0.33		
1,4-Dichlorobenzene	mg/kg	BDL	05/22/97	WSD	0.33		
3,3'-Dichlorobenzidine	mg/kg	ND	05/22/97	WSD	0.67		
Diethylphthalate	mg/kg	ND	05/22/97	WSD	0.33		
Dimethylphthalate	mg/kg	ND	05/22/97	WSD	0.67		
Di-n-butylphthalate	mg/kg	BDL	05/22/97	WSD	0.33		
Di-n-octylphthalate	mg/kg	BDL	05/22/97	WSD	0.67		

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP11/3-4'

	Units	97809028	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-Dinitrotoluene	mg/kg	ND	05/22/97	WSD	0.33		
2,6-Dinitrotoluene	mg/kg	ND	05/22/97	WSD	0.33		
1,2-Diphenylhydrazine	mg/kg	ND	05/22/97	WSD	0.33		
Fluoranthene	mg/kg	BDL	05/22/97	WSD	0.33		
Fluorene	mg/kg	ND	05/22/97	WSD	0.33		
Hexachlorobenzene	mg/kg	ND	05/22/97	WSD	0.33		
Hexachlorobutadiene	mg/kg	ND	05/22/97	WSD	0.33		
Hexachlorocyclopentadiene	mg/kg	ND	05/22/97	WSD	0.33		
Hexachloroethane	mg/kg	ND	05/22/97	WSD	0.33		
Indeno(1,2,3-cd)pyrene	mg/kg	BDL	05/22/97	WSD	0.33		
Isophorone	mg/kg	ND	05/22/97	WSD	0.33		
2-Methylnaphthalene	mg/kg	ND	05/22/97	WSD	0.33		
Naphthalene	mg/kg	BDL	05/22/97	WSD	0.33		
2-Nitroaniline	mg/kg	ND	05/22/97	WSD	0.33		
3-Nitroaniline	mg/kg	ND	05/22/97	WSD	0.33		
4-Nitroaniline	mg/kg	ND	05/22/97	WSD	0.33		
Nitrobenzene	mg/kg	ND	05/22/97	WSD	0.33		
N-Nitrosodimethylamine	mg/kg	ND	05/22/97	WSD	0.33		
N-Nitrosodiphenylamine	mg/kg	ND	05/22/97	WSD	0.33		
N-Nitroso-di-n-propylamine	mg/kg	ND	05/22/97	WSD	0.33		
Phenanthrene	mg/kg	BDL	05/22/97	WSD	0.33		
Pyrene	mg/kg	BDL	05/22/97	WSD	1.00		
Pyridine	mg/kg	ND	05/22/97	WSD	0.33		
1,2,4-Trichlorobenzene	mg/kg	ND	05/22/97	WSD	0.33		

Analytical Method(s):

SW846 8270

SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP01/0-2'

	Units	97809020	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	mg/kg	ND	05/22/97	WSD	0.67		
2-Chlorophenol	mg/kg	ND	05/22/97	WSD	0.33		
2,4-Dichlorophenol	mg/kg	ND	05/22/97	WSD	0.33		
2,4-Dimethylphenol	mg/kg	ND	05/22/97	WSD	1.33		
4,6-Dinitro-2-methylphenol	mg/kg	ND	05/22/97	WSD	0.33		
2,4-Dinitrophenol	mg/kg	ND	05/22/97	WSD	0.33		
2-Methylphenol (o-cresol)	mg/kg	ND	05/22/97	WSD	0.33		
3- & 4-Methylphenol (m&p-cresol)	mg/kg	ND	05/22/97	WSD	0.33		
2-Nitrophenol	mg/kg	ND	05/22/97	WSD	0.33		
4-Nitrophenol	mg/kg	ND	05/22/97	WSD	0.33		
Pentachlorophenol	mg/kg	ND	05/22/97	WSD	0.33		
Phenol	mg/kg	ND	05/22/97	WSD	0.33		
2,4,5-Trichlorophenol	mg/kg	ND	05/22/97	WSD	0.33		
2,4,6-Trichlorophenol	mg/kg	ND	05/22/97	WSD	0.33		

Sampled: 05/16/97
R.O.W.
ROW/TP06/3-4'

	Units	97809022	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	mg/kg	ND	05/22/97	WSD	0.67		
2-Chlorophenol	mg/kg	ND	05/22/97	WSD	0.33		
2,4-Dichlorophenol	mg/kg	ND	05/22/97	WSD	0.33		
2,4-Dimethylphenol	mg/kg	ND	05/22/97	WSD	1.33		
4,6-Dinitro-2-methylphenol	mg/kg	ND	05/22/97	WSD	0.33		
2,4-Dinitrophenol	mg/kg	ND	05/22/97	WSD	0.33		
2-Methylphenol (o-cresol)	mg/kg	ND	05/22/97	WSD	0.33		
3- & 4-Methylphenol (m&p-cresol)	mg/kg	ND	05/22/97	WSD	0.33		
2-Nitrophenol	mg/kg	ND	05/22/97	WSD	0.33		
4-Nitrophenol	mg/kg	ND	05/22/97	WSD	0.33		

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ANALYTICAL LABORATORY

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP06/3-4'

	Units	97809022	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Pentachlorophenol	mg/kg	ND	05/22/97	WSD	0.33		
Phenol	mg/kg	ND	05/22/97	WSD	0.33		
2,4,5-Trichlorophenol	mg/kg	ND	05/22/97	WSD	0.33		
2,4,6-Trichlorophenol	mg/kg	ND	05/22/97	WSD	0.33		

Sampled: 05/16/97
R.O.W.
ROW/TP07/2-3'

	Units	97809023	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	mg/kg	ND	05/22/97	WSD	20.0		
2-Chlorophenol	mg/kg	ND	05/22/97	WSD	10.0		
2,4-Dichlorophenol	mg/kg	ND	05/22/97	WSD	10.0		
2,4-Dimethylphenol	mg/kg	ND	05/22/97	WSD	40.0		
4,6-Dinitro-2-methylphenol	mg/kg	ND	05/22/97	WSD	10.0		
2,4-Dinitrophenol	mg/kg	ND	05/22/97	WSD	10.0		
2-Methylphenol (o-cresol)	mg/kg	ND	05/22/97	WSD	10.0		
3- & 4-Methylphenol (m&p-cresol)	mg/kg	ND	05/22/97	WSD	10.0		
2-Nitrophenol	mg/kg	ND	05/22/97	WSD	10.0		
4-Nitrophenol	mg/kg	ND	05/22/97	WSD	10.0		
Pentachlorophenol	mg/kg	ND	05/22/97	WSD	10.0		
Phenol	mg/kg	ND	05/22/97	WSD	10.0		
2,4,5-Trichlorophenol	mg/kg	ND	05/22/97	WSD	10.0		
2,4,6-Trichlorophenol	mg/kg	ND	05/22/97	WSD	10.0		

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP09/6-8'

	Units	97809024	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	mg/kg	ND	05/22/97	WSD	6.67		
2-Chlorophenol	mg/kg	ND	05/22/97	WSD	3.33		
2,4-Dichlorophenol	mg/kg	ND	05/22/97	WSD	3.33		
2,4-Dimethylphenol	mg/kg	ND	05/22/97	WSD	13.3		
4,6-Dinitro-2-methylphenol	mg/kg	ND	05/22/97	WSD	3.33		
2,4-Dinitrophenol	mg/kg	ND	05/22/97	WSD	3.33		
2-Methylphenol (o-cresol)	mg/kg	ND	05/22/97	WSD	3.33		
3- & 4-Methylphenol (m&p-cresol)	mg/kg	ND	05/22/97	WSD	3.33		
2-Nitrophenol	mg/kg	ND	05/22/97	WSD	3.33		
4-Nitrophenol	mg/kg	ND	05/22/97	WSD	3.33		
Pentachlorophenol	mg/kg	ND	05/22/97	WSD	3.33		
Phenol	mg/kg	ND	05/22/97	WSD	3.33		
2,4,5-Trichlorophenol	mg/kg	ND	05/22/97	WSD	3.33		
2,4,6-Trichlorophenol	mg/kg	ND	05/22/97	WSD	3.33		

Sampled: 05/16/97
R.O.W.
ROW/TP10/4-6'

	Units	97809026	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	mg/kg	ND	05/22/97	WSD	6.67		
2-Chlorophenol	mg/kg	ND	05/22/97	WSD	3.33		
2,4-Dichlorophenol	mg/kg	ND	05/22/97	WSD	3.33		
2,4-Dimethylphenol	mg/kg	ND	05/22/97	WSD	13.3		
4,6-Dinitro-2-methylphenol	mg/kg	ND	05/22/97	WSD	3.33		
2,4-Dinitrophenol	mg/kg	ND	05/22/97	WSD	3.33		
2-Methylphenol (o-cresol)	mg/kg	ND	05/22/97	WSD	3.33		
3- & 4-Methylphenol (m&p-cresol)	mg/kg	ND	05/22/97	WSD	3.33		
2-Nitrophenol	mg/kg	ND	05/22/97	WSD	3.33		
4-Nitrophenol	mg/kg	ND	05/22/97	WSD	3.33		

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP10/4-6'

	Units	97809026	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Pentachlorophenol	mg/kg	ND	05/22/97	WSD	3.33		
Phenol	mg/kg	ND	05/22/97	WSD	3.33		
2,4,5-Trichlorophenol	mg/kg	ND	05/22/97	WSD	3.33		
2,4,6-Trichlorophenol	mg/kg	ND	05/22/97	WSD	3.33		

Sampled: 05/16/97
R.O.W.
ROW/TP11/3-4'

	Units	97809028	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	mg/kg	ND	05/22/97	WSD	0.67		
2-Chlorophenol	mg/kg	ND	05/22/97	WSD	0.33		
2,4-Dichlorophenol	mg/kg	ND	05/22/97	WSD	0.33		
2,4-Dimethylphenol	mg/kg	ND	05/22/97	WSD	1.33		
4,6-Dinitro-2-methylphenol	mg/kg	ND	05/22/97	WSD	0.33		
2,4-Dinitrophenol	mg/kg	ND	05/22/97	WSD	0.33		
2-Methylphenol (o-cresol)	mg/kg	ND	05/22/97	WSD	0.33		
3- & 4-Methylphenol (m&p-cresol)	mg/kg	ND	05/22/97	WSD	0.33		
2-Nitrophenol	mg/kg	ND	05/22/97	WSD	0.33		
4-Nitrophenol	mg/kg	ND	05/22/97	WSD	0.33		
Pentachlorophenol	mg/kg	ND	05/22/97	WSD	0.33		
Phenol	mg/kg	ND	05/22/97	WSD	0.33		
2,4,5-Trichlorophenol	mg/kg	ND	05/22/97	WSD	0.33		
2,4,6-Trichlorophenol	mg/kg	ND	05/22/97	WSD	0.33		

Analytical Method(s):

SW846 8270

SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND

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FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP03/0-2'

	Units	97B09021	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Cyanide - Total	mg/kg	BDL	05/30/97	TAM	0.98		

Analytical Method(s):

MODIFIED SW846 9012

DISTILLATION FOLLOWED BY REACTION WITH CHLORAMINE-T/PYRIDINE-BARBITURIC ACID AND PHOSPHATE BUFFER. ANALYSIS BY AUTOMATED FLOW INJECTION SPECTROPHOTOMETRY.

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP01/0-2'

	Units	97809020	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	mg/kg	ND	05/22/97	KLF	2.48		
Arsenic	mg/kg	ND	05/22/97	KLF	4.95		
Beryllium	mg/kg	0.33	05/22/97	KLF	0.10		
Cadmium	mg/kg	2.54	05/22/97	KLF	0.05		
Chromium	mg/kg	36.6	05/22/97	KLF	0.35		
Copper	mg/kg	180	05/22/97	KLF	0.10		
Lead	mg/kg	163	05/22/97	KLF	2.48	1000	P
Mercury	mg/kg	0.082	05/23/97	APP	0.020		
Nickel	mg/kg	14.4	05/22/97	KLF	0.25		
Selenium	mg/kg	ND	05/22/97	KLF	4.95		
Silver	mg/kg	34.3	05/22/97	KLF	0.50		
Thallium	mg/kg	ND	05/22/97	KLF	9.90		
Zinc	mg/kg	905	05/22/97	KLF	0.50		

Sampled: 05/16/97
R.O.W.
ROW/TP06/3-4'

	Units	97809022	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	mg/kg	6.23	05/22/97	KLF	2.48		
Arsenic	mg/kg	36.1	05/22/97	KLF	4.95		
Beryllium	mg/kg	0.25	05/22/97	KLF	0.10		
Cadmium	mg/kg	17.1	05/22/97	KLF	0.05		
Chromium	mg/kg	272	05/22/97	KLF	0.35		
Copper	mg/kg	1420	05/22/97	KLF	0.10		
Lead	mg/kg	9130	05/22/97	KLF	2.48	1000	F
Mercury	mg/kg	ND	05/23/97	APP	0.020		
Nickel	mg/kg	434	05/22/97	KLF	0.25		
Selenium	mg/kg	5.77	05/22/97	KLF	4.95		
Silver	mg/kg	1.93	05/22/97	KLF	0.50		

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP06/3-4'

	Units	97809022	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Thallium	mg/kg	ND	05/22/97	KLF	9.90		
Zinc	mg/kg	1400	05/22/97	KLF	0.50		

Sampled: 05/16/97
R.O.W.
ROW/TP07/2-3'

	Units	97809023	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	mg/kg	ND	05/22/97	KLF	24.8		
Arsenic	mg/kg	28.9	05/22/97	KLF	4.95		
Beryllium	mg/kg	0.25	05/22/97	KLF	0.10		
Cadmium	mg/kg	7.90	05/22/97	KLF	0.05		
Chromium	mg/kg	188	05/22/97	KLF	0.35		
Copper	mg/kg	29500	05/22/97	KLF	0.10		
Lead	mg/kg	1240	05/22/97	KLF	2.48	1000	F
Mercury	mg/kg	0.059	05/23/97	APP	0.020		
Nickel	mg/kg	179	05/22/97	KLF	0.25		
Selenium	mg/kg	15.2	05/22/97	KLF	4.95		
Silver	mg/kg	ND	05/22/97	KLF	4.95		
Thallium	mg/kg	ND	05/22/97	KLF	9.90		
Zinc	mg/kg	17800	05/22/97	KLF	0.50		

Sampled: 05/16/97
R.O.W.
ROW/TP10/4-6'

	Units	97809026	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	mg/kg	ND	05/22/97	KLF	2.50		

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP10/4-6'

	Units	97809026	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Arsenic	mg/kg	ND	05/22/97	KLF	5.00		
Beryllium	mg/kg	0.44	05/22/97	KLF	0.10		
Cadmium	mg/kg	0.14	05/22/97	KLF	0.05		
Chromium	mg/kg	14.1	05/22/97	KLF	0.35		
Copper	mg/kg	24.4	05/22/97	KLF	0.10		
Lead	mg/kg	7.44	05/22/97	KLF	2.50	1000	P
Mercury	mg/kg	ND	05/23/97	APP	0.020		
Nickel	mg/kg	38.3	05/22/97	KLF	0.25		
Selenium	mg/kg	ND	05/22/97	KLF	5.00		
Silver	mg/kg	ND	05/22/97	KLF	0.50		
Thallium	mg/kg	ND	05/22/97	KLF	10.0		
Zinc	mg/kg	237	05/22/97	KLF	0.50		

Analytical Method(s):

Antimony
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Arsenic
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Beryllium
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY

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INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Cadmium
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Chromium
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Copper
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Lead
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Mercury
SW846 3050/7471

SAMPLES ARE DIGESTED WITH ACIDS AND THEN ANALYZED BY
COLD VAPOR (FLAMELESS) ATOMIC ABSORPTION SPECTROPHOTOMETRY
Nickel

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SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Selenium
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Silver
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Thallium
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Zinc
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

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ND = Not Detected
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SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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ANALYTICAL LABORATORY

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
TEST PST AT UST-2
UST 2-6'

	Units	97809018	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
LEAD	MG/KG	3.50	05/22/97	APP	2.50	1000	P

Analytical Method(s):

SW846 3050/7420

SAMPLES ARE DIGESTED IN NITRIC ACID AND ANALYZED BY FLAME ATOMIC ABSORPTION SPECTROPHOTOMETRY.

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NM = Not Measured

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
R.O.W.
ROW/TP07/2-3'

	Units	97B09023	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	38200	05/28/97	RCL	19.8		

Sampled: 05/16/97
R.O.W.
ROW/TP09/6-8'

	Units	97B09024	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	3000	05/27/97	AC	20.0		

Sampled: 05/16/97
R.O.W.
ROW/TP10/4-6'

	Units	97B09026	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	7450	05/28/97	RCL	20.0		

Sampled: 05/16/97
R.O.W.
ROW/TP11/3-4'

	Units	97B09028	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	35.2	05/27/97	AC	19.6		

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Purchase Order Number: 40163
Project Number: 40163

LIMS-BAT #: LIMS-29639
Job Number: 29639
Sample Matrix: SOIL

Sampled: 05/16/97
TEST PST AT UST-2
UST 2-6'

	Units	97B09018	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	9380	05/28/97	RCL	20.0		

Analytical Method(s):

MODIFIED EPA 418.1

INFRA-RED DETERMINATION FOLLOWING EXTRACTION OF HYDROCARBONS INTO
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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The following notes were attached to the reported analysis:

Sample: 97B09023

ELEVATED DETECTION LIMITS DUE TO SAMPLE MATRIX INTERFERENCE.

Sample: 97B09024

ELEVATED DETECTION LIMITS DUE TO SAMPLE MATRIX INTERFERENCE.

Sample: 97B09026

ELEVATED DETECTION LIMITS DUE TO SAMPLE MATRIX INTERFERENCE.

Sample: 97B09023

Analysis: Antimony
ELEVATED METHOD DETECTION LIMIT DUE TO MATRIX INTERFERENCES.

Sample: 97B09023

Analysis: Silver
ELEVATED METHOD DETECTION LIMIT DUE TO MATRIX INTERFERENCES.

MDL = Method Detection Limit
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NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 05/30/97 | Lims Bat #: LIMS-29639 |

QC Batch Number: CYANIDE-0295

Sample Id	Analysis	QC Analysis	Values	Units	Limits
STDADD-05829	Cyanide - Total	Standard Measured	3.190	mg/l	
		Standard Amt Added	4.160	mg/l	
		Standard % Recovery	76.683	%	

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Method Blanks

QC Batch Number: FLM/AA-1164

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-03935	LEAD	Lab Fort Blank Amt.	99.42	mg/kg dry wt.	
		Lab Fort Blk. Found	105.39	mg/kg dry wt.	
		Lab Fort Blk. % Rec.	106.00	%	
	LEAD	Lab Fort Blank Amt.	99.42	MG/KG	
		Lab Fort Blk. Found	105.39	MG/KG	
		Lab Fort Blk. % Rec.	106.00	%	
LFBLANK-03936	LEAD	Lab Fort Blank Amt.	99.60	mg/kg dry wt.	
		Lab Fort Blk. Found	102.59	mg/kg dry wt.	
		Lab Fort Blk. % Rec.	103.00	%	
	LEAD	Lab Fort Blank Amt.	99.60	MG/KG	
		Lab Fort Blk. Found	102.59	MG/KG	
		Lab Fort Blk. % Rec.	103.00	%	

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Method Blanks

Report Date: 05/30/97 Lims Bat #: LIMS-29639

QC Batch Number: GC/PID-1632

Sample Id	Analysis	QC Analysis	Values	Units	Limits
97B09019	1-Cl-2-Fluorobenzene	Sur. Recovery (PID)	102.3	%	70.2-130.0
BLANK-07911	Benzene	Blank	<1.0	ug/kg	
	1,4-Dichlorobenzene	Blank	<2.5	ug/kg	
	Ethyl Benzene	Blank	<2.5	ug/kg	
	Toluene	Blank	<2.5	ug/kg	
	o-Xylene	Blank	<2.5	ug/kg	
	p&m-Xylene	Blank	<5.0	ug/kg	
	1,2-Dichlorobenzene	Blank	<2.5	ug/kg	
	1,3-Dichlorobenzene	Blank	<2.5	ug/kg	
	Methyl tert-Butyl Et	Blank	<2.5	ug/kg	
	Chlorobenzene	Blank	<2.5	ug/kg	

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QC SUMMARY REPORT

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Standard Reference Materials and Duplicates
Method Blanks

Report Date: 05/30/97 Lims Bat #: LIMS-29639

QC Batch Number: GCMS/SEMI-0735

Sample Id	Analysis	QC Analysis	Values	Units	Limits
97B09020	Phenol - D6 mg/kg re	Surrogate Recovery	49.2	%	24.0-113.0
	Nitrobenzene - D5 mg	Surrogate Recovery	20.8	%	23.0-120.0
	2-Fluorobipheny mg/k	Surrogate Recovery	24.9	%	25.0-121.0
	2,4,6-Tribromophenol	Surrogate Recovery	48.8	%	19.0-122.0
	Terphenyl - D14 mg/k	Surrogate Recovery	32.5	%	18.0-137.0
	2-Fluorophenol mg/kg	Surrogate Recovery	38.4	%	30.0-115.0
97B09022	Phenol - D6 mg/kg re	Surrogate Recovery	75.3	%	24.0-113.0
	Nitrobenzene - D5 mg	Surrogate Recovery	60.5	%	23.0-120.0
	2-Fluorobipheny mg/k	Surrogate Recovery	71.9	%	25.0-121.0
	2,4,6-Tribromophenol	Surrogate Recovery	95.9	%	19.0-122.0
	Terphenyl - D14 mg/k	Surrogate Recovery	83.2	%	18.0-137.0
	2-Fluorophenol mg/kg	Surrogate Recovery	69.8	%	30.0-115.0
97B09023	Phenol - D6 mg/kg re	Surrogate Recovery	31.4	%	24.0-113.0
	Nitrobenzene - D5 mg	Surrogate Recovery	30.1	%	23.0-120.0
	2-Fluorobipheny mg/k	Surrogate Recovery	39.2	%	25.0-121.0
	2,4,6-Tribromophenol	Surrogate Recovery	27.8	%	19.0-122.0
	Terphenyl - D14 mg/k	Surrogate Recovery	45.5	%	18.0-137.0
	2-Fluorophenol mg/kg	Surrogate Recovery	32.6	%	30.0-115.0
97B09024	Phenol - D6 mg/kg re	Surrogate Recovery	108.5	%	24.0-113.0
	Nitrobenzene - D5 mg	Surrogate Recovery	74.0	%	23.0-120.0
	2-Fluorobipheny mg/k	Surrogate Recovery	95.0	%	25.0-121.0
	2,4,6-Tribromophenol	Surrogate Recovery	86.0	%	19.0-122.0
	Terphenyl - D14 mg/k	Surrogate Recovery	106.0	%	18.0-137.0
	2-Fluorophenol mg/kg	Surrogate Recovery	109.5	%	30.0-115.0
97B09026	Phenol - D6 mg/kg re	Surrogate Recovery	68.0	%	24.0-113.0
	Nitrobenzene - D5 mg	Surrogate Recovery	85.0	%	23.0-120.0
	2-Fluorobipheny mg/k	Surrogate Recovery	84.0	%	25.0-121.0
	2,4,6-Tribromophenol	Surrogate Recovery	85.0	%	19.0-122.0
	Terphenyl - D14 mg/k	Surrogate Recovery	88.0	%	18.0-137.0
	2-Fluorophenol mg/kg	Surrogate Recovery	85.0	%	30.0-115.0
97B09028	1,4-Dichlorobenzene	Sample Amount	<0.33	mg/kg	
		Matrix Spk Amt Added	3.33	mg/kg	
		MS Amt Measured	2.40	mg/kg	
		Matrix Spike % Rec.	71.46	%	
		Duplicate Sample Amt	<0.33	mg/kg	
		MSD Amount Added	3.33	mg/kg	
		MSD Amt Measured	2.40	mg/kg	
		MSD % Recovery	71.46	%	
		MSD Range	0.00	units	

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BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/SEMI-0735

Sample Id	Analysis	QC Analysis	Values	Units	Limits
	Acenaphthene	Sample Amount	<0.33	mg/kg	
		Matrix Spk Amt Added	3.33	mg/kg	
		MS Amt Measured	2.57	mg/kg	
		Matrix Spike % Rec.	77.00	%	
		Duplicate Sample Amt	<0.33	mg/kg	
		MSD Amount Added	3.33	mg/kg	
		MSD Amt Measured	2.80	mg/kg	
		MSD % Recovery	84.00	%	
		MSD Range	7.00	units	
	2,4-Dinitrotoluene	Sample Amount	<0.33	mg/kg	
		Matrix Spk Amt Added	3.33	mg/kg	
		MS Amt Measured	2.47	mg/kg	
		Matrix Spike % Rec.	74.00	%	
		Duplicate Sample Amt	<0.33	mg/kg	
		MSD Amount Added	3.33	mg/kg	
		MSD Amt Measured	2.80	mg/kg	
		MSD % Recovery	84.00	%	
		MSD Range	10.00	units	
	N-Nitrosodimethylami	Sample Amount	<0.33	mg/kg	
		Matrix Spk Amt Added	3.33	mg/kg	
		MS Amt Measured	3.03	mg/kg	
		Matrix Spike % Rec.	91.00	%	
		Duplicate Sample Amt	<0.33	mg/kg	
		MSD Amount Added	3.33	mg/kg	
		MSD Amt Measured	3.17	mg/kg	
		MSD % Recovery	95.00	%	
		MSD Range	4.00	units	
	Pyrene	Sample Amount	<1.00	mg/kg	
		Matrix Spk Amt Added	3.33	mg/kg	
		MS Amt Measured	2.33	mg/kg	
		Matrix Spike % Rec.	66.60	%	
		Duplicate Sample Amt	<1.00	mg/kg	
		MSD Amount Added	3.33	mg/kg	
		MSD Amt Measured	2.30	mg/kg	
		MSD % Recovery	65.60	%	
		MSD Range	1.00	units	
	1,2,4-Trichlorobenze	Sample Amount	<0.33	mg/kg	
		Matrix Spk Amt Added	3.33	mg/kg	
		MS Amt Measured	2.57	mg/kg	

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BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 05/30/97 Lims Bat #: LIMS-29639

QC Batch Number: GCMS/SEMI-0735

Sample Id	Analysis	QC Analysis	Values	Units	Limits
		Matrix Spike % Rec.	77.00	%	
		Duplicate Sample Amt	<0.33	mg/kg	
		MSD Amount Added	3.33	mg/kg	
		MSD Amt Measured	2.63	mg/kg	
		MSD % Recovery	79.00	%	
		MSD Range	2.00	units	
	4-Chloro-3-methylphe	Sample Amount	<0.67	mg/kg	
		Matrix Spk Amt Added	6.67	mg/kg	
		MS Amt Measured	5.17	mg/kg	
		Matrix Spike % Rec.	77.50	%	
		Duplicate Sample Amt	<0.67	mg/kg	
		MSD Amount Added	6.67	mg/kg	
		MSD Amt Measured	5.93	mg/kg	
		MSD % Recovery	89.00	%	
		MSD Range	11.50	units	
	2-Chlorophenol	Sample Amount	<0.33	mg/kg	
		Matrix Spk Amt Added	6.67	mg/kg	
		MS Amt Measured	4.53	mg/kg	
		Matrix Spike % Rec.	68.00	%	
		Duplicate Sample Amt	<0.33	mg/kg	
		MSD Amount Added	6.67	mg/kg	
		MSD Amt Measured	4.57	mg/kg	
		MSD % Recovery	68.50	%	
		MSD Range	0.50	units	
	4-Nitrophenol	Sample Amount	<0.33	mg/kg	
		Matrix Spk Amt Added	6.67	mg/kg	
		MS Amt Measured	5.63	mg/kg	
		Matrix Spike % Rec.	84.50	%	
		Duplicate Sample Amt	<0.33	mg/kg	
		MSD Amount Added	6.67	mg/kg	
		MSD Amt Measured	6.97	mg/kg	
		MSD % Recovery	104.50	%	
		MSD Range	20.00	units	
	Phenol	Sample Amount	<0.33	mg/kg	
		Matrix Spk Amt Added	6.67	mg/kg	
		MS Amt Measured	4.80	mg/kg	
		Matrix Spike % Rec.	72.00	%	
		Duplicate Sample Amt	<0.33	mg/kg	
		MSD Amount Added	6.67	mg/kg	

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Report Date: 05/30/97 | Lims Bat #: LIMS-29639 |

QC Batch Number: GCMS/SEMI-0735

Sample Id	Analysis	QC Analysis	Values	Units	Limits
		MSD Amt Measured	5.30	mg/kg	
		MSD % Recovery	79.50	%	
		MSD Range	7.50	units	
	Pentachlorophenol	Sample Amount	<0.33	mg/kg	
		Matrix Spk Amt Added	6.67	mg/kg	
		MS Amt Measured	4.77	mg/kg	
		Matrix Spike % Rec.	71.50	%	
		Duplicate Sample Amt	<0.33	mg/kg	
		MSD Amount Added	6.67	mg/kg	
		MSD Amt Measured	5.70	mg/kg	
		MSD % Recovery	85.50	%	
		MSD Range	14.00	units	
	Phenol - D6 mg/kg re	Surrogate Recovery	62.3	%	24.0-113.0
	Nitrobenzene - D5 mg	Surrogate Recovery	53.1	%	23.0-120.0
	2-Fluorobipheny mg/k	Surrogate Recovery	57.1	%	25.0-121.0
	2,4,6-Tribromophenol	Surrogate Recovery	64.8	%	19.0-122.0
	Terphenyl - D14 mg/k	Surrogate Recovery	56.3	%	18.0-137.0
	2-Fluorophenol mg/kg	Surrogate Recovery	58.2	%	30.0-115.0
BLANK-07928	1,4-Dichlorobenzene	Blank	<0.33	mg/kg	
	Naphthalene	Blank	<0.33	mg/kg	
	1,2-Dichlorobenzene	Blank	<0.33	mg/kg	
	1,3-Dichlorobenzene	Blank	<0.33	mg/kg	
	Acenaphthene	Blank	<0.33	mg/kg	
	Acenaphthylene	Blank	<0.33	mg/kg	
	Aniline	Blank	<0.33	mg/kg	
	Anthracene	Blank	<0.33	mg/kg	
	Benzidene	Blank	<2.33	mg/kg	
	Benzo(a)anthracene	Blank	<0.33	mg/kg	
	Benzo(a)pyrene	Blank	<0.67	mg/kg	
	Benzo(b)fluoranthene	Blank	<0.33	mg/kg	
	Benzo(g,h,i)perylene	Blank	<1.00	mg/kg	
	Benzoic Acid	Blank	<1.00	mg/kg	
	Benzyl Alcohol	Blank	<0.67	mg/kg	
	Bis(2-chloroethyl)et	Blank	<0.33	mg/kg	
	Bis(2-chloroethoxy)m	Blank	<0.33	mg/kg	
	Bis(2-chloroisopropy	Blank	<0.33	mg/kg	
	Bis(2-ethylhexyl)pht	Blank	<0.33	mg/kg	
	4-Bromophenylphenyle	Blank	<0.33	mg/kg	
	Butylbenzylphthalate	Blank	<0.67	mg/kg	

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Standard Reference Materials and Duplicates
Method Blanks

Report Date: 05/30/97 Lims Bat #: LIMS-29639

QC Batch Number: GCMS/SEMI-0735

Sample Id	Analysis	QC Analysis	Values	Units	Limits
	4-Chloroaniline	Blank	<0.67	mg/kg	
	2-Chloronaphthalene	Blank	<0.33	mg/kg	
	4-Chlorophenylphenyl	Blank	<0.33	mg/kg	
	Chrysene	Blank	<0.67	mg/kg	
	Dibenz(a,h)anthracen	Blank	<0.67	mg/kg	
	Dibenzofuran	Blank	<0.33	mg/kg	
	3,3'-Dichlorobenzidi	Blank	<0.67	mg/kg	
	Diethylphthalate	Blank	<0.33	mg/kg	
	Dimethylphthalate	Blank	<0.67	mg/kg	
	Di-n-butylphthalate	Blank	<0.33	mg/kg	
	2,4-Dinitrotoluene	Blank	<0.33	mg/kg	
	2,6-Dinitrotoluene	Blank	<0.33	mg/kg	
	1,2-Diphenylhydrazin	Blank	<0.33	mg/kg	
	Di-n-octylphthalate	Blank	<0.67	mg/kg	
	Fluoranthene	Blank	<0.33	mg/kg	
	Fluorene	Blank	<0.33	mg/kg	
	Hexachlorobenzene	Blank	<0.33	mg/kg	
	Hexachlorobutadiene	Blank	<0.33	mg/kg	
	Hexachlorocyclopenta	Blank	<0.33	mg/kg	
	Hexachloroethane	Blank	<0.33	mg/kg	
	Indeno(1,2,3-cd)pyre	Blank	<0.33	mg/kg	
	Isophorone	Blank	<0.33	mg/kg	
	2-Methylnaphthalene	Blank	<0.33	mg/kg	
	2-Nitroaniline	Blank	<0.33	mg/kg	
	3-Nitroaniline	Blank	<0.33	mg/kg	
	Nitrobenzene	Blank	<0.33	mg/kg	
	N-Nitrosodimethylami	Blank	<0.33	mg/kg	
	N-Nitroso-di-n-propy	Blank	<0.33	mg/kg	
	N-Nitrosodiphenylami	Blank	<0.33	mg/kg	
	Phenanthrene	Blank	<0.33	mg/kg	
	Pyrene	Blank	<1.00	mg/kg	
	1,2,4-Trichlorobenze	Blank	<0.33	mg/kg	
	4-Chloro-3-methylphe	Blank	<0.67	mg/kg	
	2-Chlorophenol	Blank	<0.33	mg/kg	
	2,4-Dichlorophenol	Blank	<0.33	mg/kg	
	2,4-Dimethylphenol	Blank	<1.33	mg/kg	
	4,6-Dinitro-2-methyl	Blank	<0.33	mg/kg	
	2,4-Dinitrophenol	Blank	<0.33	mg/kg	
	2-Methylphenol (o-cr	Blank	<0.33	mg/kg	

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Method Blanks

Report Date: 05/30/97 Lims Bat #: LIMS-29639

QC Batch Number: GCMS/VOL-1293

Sample Id	Analysis	QC Analysis	Values	Units	Limits
	2-Chloroethylvinylet	Blank	<0.048	mg/kg	
	Bromoform	Blank	<0.006	mg/kg	
	1,1,2,2-Tetrachloroe	Blank	<0.007	mg/kg	
	Dibromomethane	Blank	<0.006	mg/kg	
	1,2-Dichloropropane	Blank	<0.003	mg/kg	
	1,2,3-Trichloropropa	Blank	<0.006	mg/kg	
	Dichlorodifluorometh	Blank	<0.005	mg/kg	
	Iodomethane	Blank	<0.004	mg/kg	
	Acrolein	Blank	<0.100	mg/kg	
	Acrylonitrile	Blank	<0.038	mg/kg	
	Carbon Disulfide	Blank	<0.002	mg/kg	
	Vinyl Acetate	Blank	<0.082	mg/kg	
	2-Hexanone	Blank	<0.048	mg/kg	
	t-1,4-Dichloro-2-But	Blank	<0.010	mg/kg	
	Ethyl Methacrylate	Blank	<0.004	mg/kg	
	c-1,4-Dichloro-2-But	Blank	<0.012	mg/kg	
	Bromodichloromethane	Blank	<0.002	mg/kg	

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QC SUMMARY REPORT

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BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: ICP-1808

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-03948	Silver	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	68.20	mg/kg	
		Lab Fort Blk. % Rec.	68.20	%	
	Arsenic	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	82.90	mg/kg	
		Lab Fort Blk. % Rec.	82.90	%	
	Barium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	93.34	mg/kg	
		Lab Fort Blk. % Rec.	93.34	%	
	Beryllium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	87.65	mg/kg	
		Lab Fort Blk. % Rec.	87.65	%	
	Cadmium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	83.45	mg/kg	
		Lab Fort Blk. % Rec.	83.45	%	
	Chromium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	87.75	mg/kg	
		Lab Fort Blk. % Rec.	87.75	%	
	Copper	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	88.00	mg/kg	
		Lab Fort Blk. % Rec.	88.00	%	
	Nickel	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	87.48	mg/kg	
		Lab Fort Blk. % Rec.	87.48	%	
	Lead	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	86.70	mg/kg	
		Lab Fort Blk. % Rec.	86.70	%	
	Antimony	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	76.65	mg/kg	
		Lab Fort Blk. % Rec.	76.65	%	
	Selenium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	83.15	mg/kg	
		Lab Fort Blk. % Rec.	83.15	%	
	Thallium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	83.75	mg/kg	
		Lab Fort Blk. % Rec.	83.75	%	
	Zinc	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	81.66	mg/kg	
		Lab Fort Blk. % Rec.	81.66	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: ICP-1808

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-03949	Silver	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	72.90	mg/kg	
		Lab Fort Blk. % Rec.	72.90	%	
	Arsenic	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	83.80	mg/kg	
		Lab Fort Blk. % Rec.	83.80	%	
	Barium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	92.18	mg/kg	
		Lab Fort Blk. % Rec.	92.18	%	
	Beryllium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	87.25	mg/kg	
		Lab Fort Blk. % Rec.	87.25	%	
	Cadmium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	84.35	mg/kg	
		Lab Fort Blk. % Rec.	84.35	%	
	Chromium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	87.80	mg/kg	
		Lab Fort Blk. % Rec.	87.80	%	
	Copper	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	88.04	mg/kg	
		Lab Fort Blk. % Rec.	88.04	%	
	Nickel	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	88.28	mg/kg	
		Lab Fort Blk. % Rec.	88.28	%	
	Lead	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	87.10	mg/kg	
		Lab Fort Blk. % Rec.	87.10	%	
	Antimony	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	75.20	mg/kg	
		Lab Fort Blk. % Rec.	75.20	%	
	Selenium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	86.15	mg/kg	
		Lab Fort Blk. % Rec.	86.15	%	
	Thallium	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	84.80	mg/kg	
		Lab Fort Blk. % Rec.	84.80	%	
	Zinc	Lab Fort Blank Amt.	100.00	mg/kg	
		Lab Fort Blk. Found	82.62	mg/kg	
		Lab Fort Blk. % Rec.	82.62	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 05/30/97 Lims Bat #: LIMS-29639

NOTES:

QC Batch No.: GCMS/SEMI-0735
Sample ID: 97B09020
Analysis: Nitrobenzene - D5
QC Analysis: Surrogate Recovery
SURROGATE RECOVERY OUTSIDE OF CON-TEST CONTROL LIMITS, BUT WITHIN METHOD REQUIREMENTS.

QC Batch No.: GCMS/SEMI-0735
Sample ID: 97B09020
Analysis: 2-Fluorobiphenyl
QC Ahalysis: Surrogate Recovery
SURROGATE RECOVERY OUTSIDE OF CON-TEST CONTROL LIMITS, BUT WITHIN METHOD REQUIREMENTS.

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FAX (413) 525-6405

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01028

Client Name: Vanasse Hangen Brustlin, Inc.
Attn: Marc Richards
Address: 101 Walnut St.
Watertown, MA 02272
Site Location: Middletown, CT
Sampled: By: Marc Richards
Call Results: Yes ___ No X
Fax Results: Yes X No ___

Telephone: 617-924-1770
Batch #: LIMS-29639
Project #: 40163
Client P.O. #: 40163
Fax #: 617-923-2336

Analysis Required

Field Sample I.D.	Sample Description	Lab #	Date Sampled: Start Date/Time	Date Sampled: Stop Date/Time	Composite	Grab	Matrix: Waste Water	Matrix: Ground Water	Matrix: DKG Water	Matrix: Soil	Matrix: Air	Matrix: *Other	Preservative (Use Code)	Container (Use Code)	TPH 418.1	VOC 8020	Total Lead 7421	13 Priority Pollutant Metal	SVOC 8270	Total Cyanide	VOC 8240			
UST 2-6'	Test Pit at UST-2	97B09018-9019		5/16		X				X				2-G	X	X	X							
Row/TP1/0-2'	R.O.W	9020		5/16	X					X				G				X	X					
Row/TP3/0-12'		9021		5/16	X	X				X				G						X				
Row/TP6/3-4'		9022		5/16	X					X				G				X	X					
Row/TP7/2-3'		9023		5/16	X					X				G	X			X	X					
Row/TP9/6-8'		9024-9025		5/16	X					X				2-G	X				X		X			
Row/TP10/4-6'		9026-9027		5/16	X					X				2-G	X			X	X		X			
Row/TP11/3-4'		9028		5/16	X					X				G	X				X					

CONTAINER CODE
P: PLASTIC (___ Size) V = 40 ml vial G = Glass (___ size) A = 1000 ml Amber 0 = Other ___

PRESERVATIVE CODE:
I = ICED N = HNO_3 H = HCl S = NaOH T = $Na_2S_2O_3$ O = OTHER ___

Relinquished by: (Signature)	Date Time	Received by: (Signature)
[signature]	1547 5-16-97	W.R. Withington
W.R. Withington	1720 5-16-97	Edward Denson

Turnaround Requested: ___ 24-Hour ___ 48-Hour X Normal
___ Other ___ Date Required

Remarks/Comments:

*MATRIX OTHER ___

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VANASSE HANGEN BRUSTLIN, INC.
01 WALNUT STREET
ATERTOWN, MA 02272
ATTN: MARC RICHARDS

REPORT DATE: 06/12/97

PURCHASE ORDER NUMBER: 40163

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-29688
JOB NUMBER: 29688

he results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report

ROJECT LOCATION: MIDDLETOWN, CT

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
-01/10-12'	97809235	SOIL	SOIL BORING	8240 - solid (a)
B-01/10-12'	97809235	SOIL	SOIL BORING	8240 - solid (b)
B-01/10-12'	97809235	SOIL	SOIL BORING	tph (mg/kg)
-02/10-12'	97809236	SOIL	SOIL BORING	8240 - solid (a)
-02/10-12'	97809236	SOIL	SOIL BORING	8240 - solid (b)
B-02/10-12'	97809236	SOIL	SOIL BORING	tph (mg/kg)
-03/10-12'	97809237	SOIL	SOIL BORING	8240 - solid (a)
-03/10-12'	97809237	SOIL	SOIL BORING	8240 - solid (b)
B-03/10-12'	97809237	SOIL	SOIL BORING	tph (mg/kg)
B-04/0-2'	97809238	SOIL	SOIL BORING	8240 - solid (a)
B-04/0-2'	97809238	SOIL	SOIL BORING	8240 - solid (b)
B-04/0-2'	97809238	SOIL	SOIL BORING	tph (mg/kg)
B-04/08-10'	97809239	SOIL	SOIL BORING	8240 - solid (a)
B-04/08-10'	97809239	SOIL	SOIL BORING	8240 - solid (b)
B-04/08-10'	97809239	SOIL	SOIL BORING	8270-soil bn-2
B-04/08-10'	97809239	SOIL	SOIL BORING	8270-soil bn1
B-04/08-10'	97809239	SOIL	SOIL BORING	8270-soil-acid
B-04/08-10'	97809239	SOIL	SOIL BORING	metals(13pp)socp
B-04/08-10'	97809239	SOIL	SOIL BORING	tph (mg/kg)
B-05/06-08'	97809240	SOIL	SOIL BORING	8240 - solid (a)
B-05/06-08'	97809240	SOIL	SOIL BORING	8240 - solid (b)
B-05/06-08'	97809240	SOIL	SOIL BORING	tph (mg/kg)
B-07/10-11'	97809241	SOIL	SOIL BORING	8240 - solid (a)
B-07/10-11'	97809241	SOIL	SOIL BORING	8240 - solid (b)
B-07/10-11'	97809241	SOIL	SOIL BORING	tph (mg/kg)
B-08/08-10'	97809242	SOIL	SOIL BORING	8240 - solid (a)
B-08/08-10'	97809242	SOIL	SOIL BORING	8240 - solid (b)
B-08/08-10'	97809242	SOIL	SOIL BORING	8270-soil bn-2
B-08/08-10'	97809242	SOIL	SOIL BORING	8270-soil bn1
B-08/08-10'	97809242	SOIL	SOIL BORING	8270-soil-acid
B-08/08-10'	97809242	SOIL	SOIL BORING	metals(13pp)socp
B-08/08-10'	97809242	SOIL	SOIL BORING	tph (mg/kg)
B-09/09-11'	97809243	SOIL	SOIL BORING	8270-soil bn-2
B-09/09-11'	97809243	SOIL	SOIL BORING	8270-soil bn1
B-09/09-11'	97809243	SOIL	SOIL BORING	8270-soil-acid
B-09/09-11'	97809243	SOIL	SOIL BORING	metals(13pp)socp
B-09/09-11'	97809243	SOIL	SOIL BORING	tph (mg/kg)
B-10/06-07'	97809244	SOIL	SOIL BORING	8270-soil bn-2
B-10/06-07'	97809244	SOIL	SOIL BORING	8270-soil bn1

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VANASSE HANGEN BRUSTLIN, INC.

REPORT DATE: 06/12/97

101 WALNUT STREET
WATERTOWN, MA 02272
ATTN: MARC RICHARDS

PURCHASE ORDER NUMBER: 40163

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-29688
JOB NUMBER: 29688

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
B-10/06-07'	97809244	SOIL	SOIL BORING	8270-soil-acid
B-10/06-07'	97809244	SOIL	SOIL BORING	metals(13pp)socp
B-10/06-07'	97809244	SOIL	SOIL BORING	pcb - soil
B-10/06-07'	97809244	SOIL	SOIL BORING	tph (mg/kg)
B-11/04-06'	97809245	SOIL	SOIL BORING	tph (mg/kg)
B-12/04-06'	97809246	SOIL	SOIL BORING	tph (mg/kg)
B-13/06-08'	97809247	SOIL	SOIL BORING	tph (mg/kg)

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

AIHA 308
MASSACHUSETTS MA100
CONNECTICUT PH-0567
NEW YORK ELAP 10899
OHIO (ENVIRO. LEAD) # 10005
NEW HAMPSHIRE 2516
AIHA ELLAP (LEAD) 6838
MAINE (POTABLE/NON-POTABLE)
VERMONT DOH (LEAD) No. 15036
RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document.

Edward Denson 6/12/97

SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director

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06/12/97

MARC RICHARDS
VANASSE HANGEN BRUSTLIN, INC.
101 WALNUT STREET
WATERTOWN, MA 02272

Purchase Order Number: 40163

Project Location: MIDDLETOWN, CT
Date Received: 05/20/97

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-01/10-12'

	Units	97B09235	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acetone	mg/kg	ND	05/29/97	WSD	0.080		
Acrolein	mg/kg	ND	05/29/97	WSD	0.100		
Acrylonitrile	mg/kg	ND	05/29/97	WSD	0.038		
Benzene	mg/kg	ND	05/29/97	WSD	0.003		
Bromodichloromethane	mg/kg	ND	05/29/97	WSD	0.002		
Bromomethane	mg/kg	ND	05/29/97	WSD	0.006		
Bromoform	mg/kg	ND	05/29/97	WSD	0.006		
2-Butanone (MEK)	mg/kg	ND	05/29/97	WSD	0.060		
Carbon Disulfide	mg/kg	ND	05/29/97	WSD	0.002		
Carbon Tetrachloride	mg/kg	ND	05/29/97	WSD	0.002		
Chlorobenzene	mg/kg	ND	05/29/97	WSD	0.003		
Chlorodibromomethane	mg/kg	ND	05/29/97	WSD	0.002		
Chloroethane	mg/kg	ND	05/29/97	WSD	0.004		
2-Chloroethylvinylether	mg/kg	ND	05/29/97	WSD	0.048		
Chloroform	mg/kg	ND	05/29/97	WSD	0.004		
Chloromethane	mg/kg	ND	05/29/97	WSD	0.006		
Dibromomethane	mg/kg	ND	05/29/97	WSD	0.006		
1,2-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.004		
1,3-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.003		
1,4-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.004		
c-1,4-Dichloro-2-Butene	mg/kg	ND	05/29/97	WSD	0.012		
t-1,4-Dichloro-2-Butene	mg/kg	ND	05/29/97	WSD	0.010		
Dichlorodifluoromethane	mg/kg	ND	05/29/97	WSD	0.005		
1,1-Dichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
1,2-Dichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
1,1-Dichloroethylene	mg/kg	ND	05/29/97	WSD	0.003		
t-1,2-Dichloroethylene	mg/kg	ND	05/29/97	WSD	0.004		
1,2-Dichloropropane	mg/kg	ND	05/29/97	WSD	0.003		
cis-1,3-Dichloropropene	mg/kg	ND	05/29/97	WSD	0.002		
t-1,3-Dichloropropene	mg/kg	ND	05/29/97	WSD	0.002		
Ethyl Benzene	mg/kg	ND	05/29/97	WSD	0.003		
Ethyl Methacrylate	mg/kg	ND	05/29/97	WSD	0.004		

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-01/10-12'

	Units	97B09235	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2-Hexanone	mg/kg	ND	05/29/97	WSD	0.048		
Iodomethane	mg/kg	ND	05/29/97	WSD	0.004		
Methyl tert-Butyl Ether (MTBE)	mg/kg	ND	05/29/97	WSD	0.004		
Methylene Chloride	mg/kg	ND	05/29/97	WSD	0.015		
4-Methyl-2-Pentanone (MIBK)	mg/kg	ND	05/29/97	WSD	0.044		
Styrene	mg/kg	ND	05/29/97	WSD	0.004		
1,1,2,2-Tetrachloroethane	mg/kg	ND	05/29/97	WSD	0.007		
Tetrachloroethylene	mg/kg	ND	05/29/97	WSD	0.002		
Toluene	mg/kg	ND	05/29/97	WSD	0.004		
1,1,1-Trichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
1,1,2-Trichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
Trichloroethylene	mg/kg	0.058	05/29/97	WSD	0.005		
Trichlorofluoromethane	mg/kg	ND	05/29/97	WSD	0.004		
1,2,3-Trichloropropane	mg/kg	ND	05/29/97	WSD	0.006		
Vinyl Acetate	mg/kg	ND	05/29/97	WSD	0.082		
Vinyl Chloride	mg/kg	ND	05/29/97	WSD	0.002		
m-Xylene	mg/kg	ND	05/29/97	WSD	0.006		
o&p-Xylene	mg/kg	ND	05/29/97	WSD	0.002		

MDL = Method Detection Limit
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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-02/10-12'

	Units	97809236	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acetone	mg/kg	ND	05/29/97	WSD	0.080		
Acrolein	mg/kg	ND	05/29/97	WSD	0.100		
Acrylonitrile	mg/kg	ND	05/29/97	WSD	0.038		
Benzene	mg/kg	ND	05/29/97	WSD	0.003		
Bromodichloromethane	mg/kg	ND	05/29/97	WSD	0.002		
Bromomethane	mg/kg	ND	05/29/97	WSD	0.006		
Bromoform	mg/kg	ND	05/29/97	WSD	0.006		
2-Butanone (MEK)	mg/kg	ND	05/29/97	WSD	0.060		
Carbon Disulfide	mg/kg	ND	05/29/97	WSD	0.002		
Carbon Tetrachloride	mg/kg	ND	05/29/97	WSD	0.002		
Chlorobenzene	mg/kg	ND	05/29/97	WSD	0.003		
Chlorodibromomethane	mg/kg	ND	05/29/97	WSD	0.002		
Chloroethane	mg/kg	ND	05/29/97	WSD	0.004		
2-Chloroethylvinylether	mg/kg	ND	05/29/97	WSD	0.048		
Chloroform	mg/kg	ND	05/29/97	WSD	0.004		
Chloromethane	mg/kg	ND	05/29/97	WSD	0.006		
Dibromomethane	mg/kg	ND	05/29/97	WSD	0.006		
1,2-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.004		
1,3-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.003		
1,4-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.004		
c-1,4-Dichloro-2-Butene	mg/kg	ND	05/29/97	WSD	0.012		
t-1,4-Dichloro-2-Butene	mg/kg	ND	05/29/97	WSD	0.010		
Dichlorodifluoromethane	mg/kg	ND	05/29/97	WSD	0.005		
1,1-Dichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
1,2-Dichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
1,1-Dichloroethylene	mg/kg	ND	05/29/97	WSD	0.003		
t-1,2-Dichloroethylene	mg/kg	ND	05/29/97	WSD	0.004		
1,2-Dichloropropane	mg/kg	ND	05/29/97	WSD	0.003		
cis-1,3-Dichloropropene	mg/kg	ND	05/29/97	WSD	0.002		
t-1,3-Dichloropropene	mg/kg	ND	05/29/97	WSD	0.002		
Ethyl Benzene	mg/kg	ND	05/29/97	WSD	0.003		
Ethyl Methacrylate	mg/kg	ND	05/29/97	WSD	0.004		

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
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SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-03/10-12'

	Units	97B09237	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2-Hexanone	mg/kg	ND	05/29/97	WSD	0.048		
Iodomethane	mg/kg	ND	05/29/97	WSD	0.004		
Methyl tert-Butyl Ether (MTBE)	mg/kg	ND	05/29/97	WSD	0.004		
Methylene Chloride	mg/kg	ND	05/29/97	WSD	0.015		
4-Methyl-2-Pentanone (MIBK)	mg/kg	ND	05/29/97	WSD	0.044		
Styrene	mg/kg	ND	05/29/97	WSD	0.004		
1,1,2,2-Tetrachloroethane	mg/kg	ND	05/29/97	WSD	0.007		
Tetrachloroethylene	mg/kg	ND	05/29/97	WSD	0.002		
Toluene	mg/kg	ND	05/29/97	WSD	0.004		
1,1,1-Trichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
1,1,2-Trichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
Trichloroethylene	mg/kg	0.029	05/29/97	WSD	0.005		
Trichlorofluoromethane	mg/kg	ND	05/29/97	WSD	0.004		
1,2,3-Trichloropropane	mg/kg	ND	05/29/97	WSD	0.006		
Vinyl Acetate	mg/kg	ND	05/29/97	WSD	0.082		
Vinyl Chloride	mg/kg	ND	05/29/97	WSD	0.002		
m-Xylene	mg/kg	ND	05/29/97	WSD	0.006		
o&p-Xylene	mg/kg	ND	05/29/97	WSD	0.002		

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-04/0-2'

	Units	97809238	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acetone	mg/kg	ND	05/29/97	WSD	6.44		
Acrolein	mg/kg	ND	05/29/97	WSD	8.00		
Acrylonitrile	mg/kg	ND	05/29/97	WSD	3.04		
Benzene	mg/kg	ND	05/29/97	WSD	0.240		
Bromodichloromethane	mg/kg	ND	05/29/97	WSD	0.160		
Bromomethane	mg/kg	ND	05/29/97	WSD	0.480		
Bromoform	mg/kg	ND	05/29/97	WSD	0.480		
2-Butanone (MEK)	mg/kg	ND	05/29/97	WSD	4.80		
Carbon Disulfide	mg/kg	ND	05/29/97	WSD	0.200		
Carbon Tetrachloride	mg/kg	ND	05/29/97	WSD	0.200		
Chlorobenzene	mg/kg	ND	05/29/97	WSD	0.240		
Chlorodibromomethane	mg/kg	ND	05/29/97	WSD	0.200		
Chloroethane	mg/kg	ND	05/29/97	WSD	0.320		
2-Chloroethylvinylether	mg/kg	ND	05/29/97	WSD	3.84		
Chloroform	mg/kg	ND	05/29/97	WSD	0.320		
Chloromethane	mg/kg	ND	05/29/97	WSD	0.480		
Dibromomethane	mg/kg	ND	05/29/97	WSD	0.440		
1,2-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.320		
1,3-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.240		
1,4-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.320		
c-1,4-Dichloro-2-Butene	mg/kg	ND	05/29/97	WSD	0.960		
t-1,4-Dichloro-2-Butene	mg/kg	ND	05/29/97	WSD	0.840		
Dichlorodifluoromethane	mg/kg	ND	05/29/97	WSD	0.400		
1,1-Dichloroethane	mg/kg	ND	05/29/97	WSD	0.280		
1,2-Dichloroethane	mg/kg	ND	05/29/97	WSD	0.360		
1,1-Dichloroethylene	mg/kg	ND	05/29/97	WSD	0.240		
t-1,2-Dichloroethylene	mg/kg	ND	05/29/97	WSD	0.320		
1,2-Dichloropropane	mg/kg	ND	05/29/97	WSD	0.240		
cis-1,3-Dichloropropene	mg/kg	ND	05/29/97	WSD	0.200		
t-1,3-Dichloropropene	mg/kg	ND	05/29/97	WSD	0.160		
Ethyl Benzene	mg/kg	BDL	05/29/97	WSD	0.240		
Ethyl Methacrylate	mg/kg	ND	05/29/97	WSD	0.320		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-04/0-2'

	Units	97809238	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2-Hexanone	mg/kg	ND	05/29/97	WSD	3.88		
Iodomethane	mg/kg	ND	05/29/97	WSD	0.320		
Methyl tert-Butyl Ether (MTBE)	mg/kg	ND	05/29/97	WSD	0.320		
Methylene Chloride	mg/kg	ND	05/29/97	WSD	1.20		
4-Methyl-2-Pentanone (MIBK)	mg/kg	ND	05/29/97	WSD	3.52		
Styrene	mg/kg	ND	05/29/97	WSD	0.280		
1,1,2,2-Tetrachloroethane	mg/kg	ND	05/29/97	WSD	0.560		
Tetrachloroethylene	mg/kg	ND	05/29/97	WSD	0.160		
Toluene	mg/kg	ND	05/29/97	WSD	0.280		
1,1,1-Trichloroethane	mg/kg	ND	05/29/97	WSD	0.360		
1,1,2-Trichloroethane	mg/kg	ND	05/29/97	WSD	0.280		
Trichloroethylene	mg/kg	ND	05/29/97	WSD	0.400		
Trichlorofluoromethane	mg/kg	ND	05/29/97	WSD	0.280		
1,2,3-Trichloropropane	mg/kg	ND	05/29/97	WSD	0.520		
Vinyl Acetate	mg/kg	ND	05/29/97	WSD	6.56		
Vinyl Chloride	mg/kg	ND	05/29/97	WSD	0.120		
m-Xylene	mg/kg	BDL	05/29/97	WSD	0.520		
o&p-Xylene	mg/kg	0.840	05/29/97	WSD	0.200		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-04/08-10'

	Units	97809239	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acetone	mg/kg	ND	05/29/97	WSD	0.080		
Acrolein	mg/kg	ND	05/29/97	WSD	0.100		
Acrylonitrile	mg/kg	ND	05/29/97	WSD	0.038		
Benzene	mg/kg	ND	05/29/97	WSD	0.003		
Bromodichloromethane	mg/kg	ND	05/29/97	WSD	0.002		
Bromomethane	mg/kg	ND	05/29/97	WSD	0.006		
Bromoform	mg/kg	ND	05/29/97	WSD	0.006		
2-Butanone (MEK)	mg/kg	ND	05/29/97	WSD	0.060		
Carbon Disulfide	mg/kg	ND	05/29/97	WSD	0.002		
Carbon Tetrachloride	mg/kg	ND	05/29/97	WSD	0.002		
Chlorobenzene	mg/kg	ND	05/29/97	WSD	0.003		
Chlorodibromomethane	mg/kg	ND	05/29/97	WSD	0.002		
Chloroethane	mg/kg	ND	05/29/97	WSD	0.004		
2-Chloroethylvinylether	mg/kg	ND	05/29/97	WSD	0.048		
Chloroform	mg/kg	ND	05/29/97	WSD	0.004		
Chloromethane	mg/kg	ND	05/29/97	WSD	0.006		
Dibromomethane	mg/kg	ND	05/29/97	WSD	0.006		
1,2-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.004		
1,3-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.003		
1,4-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.004		
c-1,4-Dichloro-2-Butene	mg/kg	ND	05/29/97	WSD	0.012		
t-1,4-Dichloro-2-Butene	mg/kg	ND	05/29/97	WSD	0.010		
Dichlorodifluoromethane	mg/kg	ND	05/29/97	WSD	0.005		
1,1-Dichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
1,2-Dichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
1,1-Dichloroethylene	mg/kg	ND	05/29/97	WSD	0.003		
t-1,2-Dichloroethylene	mg/kg	ND	05/29/97	WSD	0.004		
1,2-Dichloropropane	mg/kg	ND	05/29/97	WSD	0.003		
cis-1,3-Dichloropropene	mg/kg	ND	05/29/97	WSD	0.002		
t-1,3-Dichloropropene	mg/kg	ND	05/29/97	WSD	0.002		
Ethyl Benzene	mg/kg	ND	05/29/97	WSD	0.003		
Ethyl Methacrylate	mg/kg	ND	05/29/97	WSD	0.004		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-04/08-10'

	Units	97809239	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2-Hexanone	mg/kg	ND	05/29/97	WSD	0.048		
Iodomethane	mg/kg	ND	05/29/97	WSD	0.004		
Methyl tert-Butyl Ether (MTBE)	mg/kg	ND	05/29/97	WSD	0.004		
Methylene Chloride	mg/kg	ND	05/29/97	WSD	0.015		
4-Methyl-2-Pentanone (MIBK)	mg/kg	ND	05/29/97	WSD	0.044		
Styrene	mg/kg	ND	05/29/97	WSD	0.004		
1,1,2,2-Tetrachloroethane	mg/kg	ND	05/29/97	WSD	0.007		
Tetrachloroethylene	mg/kg	ND	05/29/97	WSD	0.002		
Toluene	mg/kg	ND	05/29/97	WSD	0.004		
1,1,1-Trichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
1,1,2-Trichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
Trichloroethylene	mg/kg	ND	05/29/97	WSD	0.005		
Trichlorofluoromethane	mg/kg	ND	05/29/97	WSD	0.004		
1,2,3-Trichloropropane	mg/kg	ND	05/29/97	WSD	0.006		
Vinyl Acetate	mg/kg	ND	05/29/97	WSD	0.082		
Vinyl Chloride	mg/kg	ND	05/29/97	WSD	0.002		
m-Xylene	mg/kg	ND	05/29/97	WSD	0.006		
o&p-Xylene	mg/kg	ND	05/29/97	WSD	0.002		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-05/06-08'

	Units	97B09240	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acetone	mg/kg	ND	05/29/97	WSD	6.44		
Acrolein	mg/kg	ND	05/29/97	WSD	8.00		
Acrylonitrile	mg/kg	ND	05/29/97	WSD	3.04		
Benzene	mg/kg	ND	05/29/97	WSD	0.240		
Bromodichloromethane	mg/kg	ND	05/29/97	WSD	0.160		
Bromomethane	mg/kg	ND	05/29/97	WSD	0.480		
Bromoform	mg/kg	ND	05/29/97	WSD	0.480		
2-Butanone (MEK)	mg/kg	ND	05/29/97	WSD	4.80		
Carbon Disulfide	mg/kg	ND	05/29/97	WSD	0.200		
Carbon Tetrachloride	mg/kg	ND	05/29/97	WSD	0.200		
Chlorobenzene	mg/kg	ND	05/29/97	WSD	0.240		
Chlorodibromomethane	mg/kg	ND	05/29/97	WSD	0.200		
Chloroethane	mg/kg	ND	05/29/97	WSD	0.320		
2-Chloroethylvinylether	mg/kg	ND	05/29/97	WSD	3.84		
Chloroform	mg/kg	ND	05/29/97	WSD	0.320		
Chloromethane	mg/kg	ND	05/29/97	WSD	0.480		
Dibromomethane	mg/kg	ND	05/29/97	WSD	0.440		
1,2-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.320		
1,3-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.240		
1,4-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.320		
c-1,4-Dichloro-2-Butene	mg/kg	ND	05/29/97	WSD	0.960		
t-1,4-Dichloro-2-Butene	mg/kg	ND	05/29/97	WSD	0.840		
Dichlorodifluoromethane	mg/kg	ND	05/29/97	WSD	0.400		
1,1-Dichloroethane	mg/kg	ND	05/29/97	WSD	0.280		
1,2-Dichloroethane	mg/kg	ND	05/29/97	WSD	0.360		
1,1-Dichloroethylene	mg/kg	ND	05/29/97	WSD	0.240		
t-1,2-Dichloroethylene	mg/kg	ND	05/29/97	WSD	0.320		
1,2-Dichloropropane	mg/kg	ND	05/29/97	WSD	0.240		
cis-1,3-Dichloropropene	mg/kg	ND	05/29/97	WSD	0.200		
t-1,3-Dichloropropene	mg/kg	ND	05/29/97	WSD	0.160		
Ethyl Benzene	mg/kg	ND	05/29/97	WSD	0.240		
Ethyl Methacrylate	mg/kg	ND	05/29/97	WSD	0.320		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-05/06-08'

	Units	97809240	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2-Hexanone	mg/kg	ND	05/29/97	WSD	3.88		
Iodomethane	mg/kg	ND	05/29/97	WSD	0.320		
Methyl tert-Butyl Ether (MTBE)	mg/kg	ND	05/29/97	WSD	0.320		
Methylene Chloride	mg/kg	ND	05/29/97	WSD	1.20		
4-Methyl-2-Pentanone (MIBK)	mg/kg	ND	05/29/97	WSD	3.52		
Styrene	mg/kg	ND	05/29/97	WSD	0.280		
1,1,2,2-Tetrachloroethane	mg/kg	ND	05/29/97	WSD	0.560		
Tetrachloroethylene	mg/kg	ND	05/29/97	WSD	0.160		
Toluene	mg/kg	ND	05/29/97	WSD	0.280		
1,1,1-Trichloroethane	mg/kg	ND	05/29/97	WSD	0.360		
1,1,2-Trichloroethane	mg/kg	ND	05/29/97	WSD	0.280		
Trichloroethylene	mg/kg	ND	05/29/97	WSD	0.400		
Trichlorofluoromethane	mg/kg	ND	05/29/97	WSD	0.280		
1,2,3-Trichloropropane	mg/kg	ND	05/29/97	WSD	0.520		
Vinyl Acetate	mg/kg	ND	05/29/97	WSD	6.56		
Vinyl Chloride	mg/kg	ND	05/29/97	WSD	0.120		
m-Xylene	mg/kg	BDL	05/29/97	WSD	0.520		
o&p-Xylene	mg/kg	ND	05/29/97	WSD	0.200		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-07/10-11'

	Units	97B09241	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acetone	mg/kg	ND	05/29/97	WSD	0.080		
Acrolein	mg/kg	ND	05/29/97	WSD	0.100		
Acrylonitrile	mg/kg	ND	05/29/97	WSD	0.038		
Benzene	mg/kg	ND	05/29/97	WSD	0.003		
Bromodichloromethane	mg/kg	ND	05/29/97	WSD	0.002		
Bromomethane	mg/kg	ND	05/29/97	WSD	0.006		
Bromoform	mg/kg	ND	05/29/97	WSD	0.006		
2-Butanone (MEK)	mg/kg	ND	05/29/97	WSD	0.060		
Carbon Disulfide	mg/kg	ND	05/29/97	WSD	0.002		
Carbon Tetrachloride	mg/kg	ND	05/29/97	WSD	0.002		
Chlorobenzene	mg/kg	ND	05/29/97	WSD	0.003		
Chlorodibromomethane	mg/kg	ND	05/29/97	WSD	0.002		
Chloroethane	mg/kg	ND	05/29/97	WSD	0.004		
2-Chloroethylvinylether	mg/kg	ND	05/29/97	WSD	0.048		
Chloroform	mg/kg	ND	05/29/97	WSD	0.004		
Chloromethane	mg/kg	ND	05/29/97	WSD	0.006		
Dibromomethane	mg/kg	ND	05/29/97	WSD	0.006		
1,2-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.004		
1,3-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.003		
1,4-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.004		
c-1,4-Dichloro-2-Butene	mg/kg	ND	05/29/97	WSD	0.012		
t-1,4-Dichloro-2-Butene	mg/kg	ND	05/29/97	WSD	0.010		
Dichlorodifluoromethane	mg/kg	ND	05/29/97	WSD	0.005		
1,1-Dichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
1,2-Dichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
1,1-Dichloroethylene	mg/kg	ND	05/29/97	WSD	0.003		
t-1,2-Dichloroethylene	mg/kg	ND	05/29/97	WSD	0.004		
1,2-Dichloropropane	mg/kg	ND	05/29/97	WSD	0.003		
cis-1,3-Dichloropropene	mg/kg	ND	05/29/97	WSD	0.002		
t-1,3-Dichloropropene	mg/kg	ND	05/29/97	WSD	0.002		
Ethyl Benzene	mg/kg	ND	05/29/97	WSD	0.003		
Ethyl Methacrylate	mg/kg	ND	05/29/97	WSD	0.004		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-07/10-11'

	Units	97B09241	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2-Hexanone	mg/kg	ND	05/29/97	WSD	0.048		
Iodomethane	mg/kg	ND	05/29/97	WSD	0.004		
Methyl tert-Butyl Ether (MTBE)	mg/kg	ND	05/29/97	WSD	0.004		
Methylene Chloride	mg/kg	ND	05/29/97	WSD	0.015		
4-Methyl-2-Pentanone (MIBK)	mg/kg	ND	05/29/97	WSD	0.044		
Styrene	mg/kg	ND	05/29/97	WSD	0.004		
1,1,2,2-Tetrachloroethane	mg/kg	ND	05/29/97	WSD	0.007		
Tetrachloroethylene	mg/kg	ND	05/29/97	WSD	0.002		
Toluene	mg/kg	ND	05/29/97	WSD	0.004		
1,1,1-Trichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
1,1,2-Trichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
Trichloroethylene	mg/kg	ND	05/29/97	WSD	0.005		
Trichlorofluoromethane	mg/kg	ND	05/29/97	WSD	0.004		
1,2,3-Trichloropropane	mg/kg	ND	05/29/97	WSD	0.006		
Vinyl Acetate	mg/kg	ND	05/29/97	WSD	0.082		
Vinyl Chloride	mg/kg	ND	05/29/97	WSD	0.002		
m-Xylene	mg/kg	ND	05/29/97	WSD	0.006		
o&p-Xylene	mg/kg	ND	05/29/97	WSD	0.002		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-08/08-10'

	Units	97B09242	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acetone	mg/kg	ND	05/29/97	WSD	0.080		
Acrolein	mg/kg	ND	05/29/97	WSD	0.100		
Acrylonitrile	mg/kg	ND	05/29/97	WSD	0.038		
Benzene	mg/kg	ND	05/29/97	WSD	0.003		
Bromodichloromethane	mg/kg	ND	05/29/97	WSD	0.002		
Bromomethane	mg/kg	ND	05/29/97	WSD	0.006		
Bromoform	mg/kg	ND	05/29/97	WSD	0.006		
2-Butanone (MEK)	mg/kg	ND	05/29/97	WSD	0.060		
Carbon Disulfide	mg/kg	ND	05/29/97	WSD	0.002		
Carbon Tetrachloride	mg/kg	ND	05/29/97	WSD	0.002		
Chlorobenzene	mg/kg	ND	05/29/97	WSD	0.003		
Chlorodibromomethane	mg/kg	ND	05/29/97	WSD	0.002		
Chloroethane	mg/kg	ND	05/29/97	WSD	0.004		
2-Chloroethylvinylether	mg/kg	ND	05/29/97	WSD	0.048		
Chloroform	mg/kg	ND	05/29/97	WSD	0.004		
Chloromethane	mg/kg	ND	05/29/97	WSD	0.006		
Dibromomethane	mg/kg	ND	05/29/97	WSD	0.006		
1,2-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.004		
1,3-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.003		
1,4-Dichlorobenzene	mg/kg	ND	05/29/97	WSD	0.004		
c-1,4-Dichloro-2-Butene	mg/kg	ND	05/29/97	WSD	0.012		
t-1,4-Dichloro-2-Butene	mg/kg	ND	05/29/97	WSD	0.010		
Dichlorodifluoromethane	mg/kg	ND	05/29/97	WSD	0.005		
1,1-Dichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
1,2-Dichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
1,1-Dichloroethylene	mg/kg	ND	05/29/97	WSD	0.003		
t-1,2-Dichloroethylene	mg/kg	ND	05/29/97	WSD	0.004		
1,2-Dichloropropane	mg/kg	ND	05/29/97	WSD	0.003		
cis-1,3-Dichloropropene	mg/kg	ND	05/29/97	WSD	0.002		
t-1,3-Dichloropropene	mg/kg	ND	05/29/97	WSD	0.002		
Ethyl Benzene	mg/kg	ND	05/29/97	WSD	0.003		
Ethyl Methacrylate	mg/kg	ND	05/29/97	WSD	0.004		

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-08/08-10'

	Units	97B09242	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2-Hexanone	mg/kg	ND	05/29/97	WSD	0.048		
Iodomethane	mg/kg	ND	05/29/97	WSD	0.004		
Methyl tert-Butyl Ether (MTBE)	mg/kg	ND	05/29/97	WSD	0.004		
Methylene Chloride	mg/kg	ND	05/29/97	WSD	0.015		
4-Methyl-2-Pentanone (MIBK)	mg/kg	ND	05/29/97	WSD	0.044		
Styrene	mg/kg	ND	05/29/97	WSD	0.004		
1,1,2,2-Tetrachloroethane	mg/kg	ND	05/29/97	WSD	0.007		
Tetrachloroethylene	mg/kg	ND	05/29/97	WSD	0.002		
Toluene	mg/kg	ND	05/29/97	WSD	0.004		
1,1,1-Trichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
1,1,2-Trichloroethane	mg/kg	ND	05/29/97	WSD	0.004		
Trichloroethylene	mg/kg	ND	05/29/97	WSD	0.005		
Trichlorofluoromethane	mg/kg	ND	05/29/97	WSD	0.004		
1,2,3-Trichloropropane	mg/kg	ND	05/29/97	WSD	0.006		
Vinyl Acetate	mg/kg	ND	05/29/97	WSD	0.082		
Vinyl Chloride	mg/kg	ND	05/29/97	WSD	0.002		
m-Xylene	mg/kg	ND	05/29/97	WSD	0.006		
o&p-Xylene	mg/kg	ND	05/29/97	WSD	0.002		

Analytical Method(s):

SW846 8240

SAMPLES ARE CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

MDL = Method Detection Limit
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SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-04/08-10'

	Units	97B09239	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	mg/kg	ND	05/27/97	WSD	0.33		
Acenaphthylene	mg/kg	BDL	05/27/97	WSD	0.33		
Aniline	mg/kg	ND	05/27/97	WSD	0.33		
Anthracene	mg/kg	ND	05/27/97	WSD	0.33		
Benzidene	mg/kg	ND	05/27/97	WSD	2.33		
Benzoic Acid	mg/kg	ND	05/27/97	WSD	1.00		
Benzo(a)anthracene	mg/kg	ND	05/27/97	WSD	0.33		
Benzo(a)pyrene	mg/kg	BDL	05/27/97	WSD	0.67		
Benzo(b)fluoranthene	mg/kg	ND	05/27/97	WSD	0.33		
Benzo(g,h,i)perylene	mg/kg	ND	05/27/97	WSD	1.00		
Benzo(k)fluoranthene	mg/kg	BDL	05/27/97	WSD	0.67		
Benzyl Alcohol	mg/kg	ND	05/27/97	WSD	0.67		
Bis(2-chloroethoxy)methane	mg/kg	ND	05/27/97	WSD	0.33		
Bis(2-chloroethyl)ether	mg/kg	ND	05/27/97	WSD	0.33		
Bis(2-chloroisopropyl)ether	mg/kg	ND	05/27/97	WSD	0.33		
Bis(2-ethylhexyl)phthalate	mg/kg	ND	05/27/97	WSD	0.33		
4-Bromophenylphenylether	mg/kg	ND	05/27/97	WSD	0.33		
Butylbenzylphthalate	mg/kg	ND	05/27/97	WSD	0.67		
4-Chloroaniline	mg/kg	ND	05/27/97	WSD	0.67		
2-Chloronaphthalene	mg/kg	ND	05/27/97	WSD	0.33		
4-Chlorophenylphenylether	mg/kg	ND	05/27/97	WSD	0.33		
Chrysene	mg/kg	BDL	05/27/97	WSD	0.67		
Dibenzofuran	mg/kg	BDL	05/27/97	WSD	0.33		
Dibenz(a,h)anthracene	mg/kg	ND	05/27/97	WSD	0.67		
1,2-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
1,3-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
1,4-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
3,3'-Dichlorobenzidine	mg/kg	ND	05/27/97	WSD	0.67		
Diethylphthalate	mg/kg	ND	05/27/97	WSD	0.33		
Dimethylphthalate	mg/kg	BDL	05/27/97	WSD	0.67		
Di-n-butylphthalate	mg/kg	ND	05/27/97	WSD	0.33		
Di-n-octylphthalate	mg/kg	ND	05/27/97	WSD	0.67		

MDL = Method Detection Limit
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SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-04/08-10'

	Units	97B09239	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-Dinitrotoluene	mg/kg	ND	05/27/97	WSD	0.33		
2,6-Dinitrotoluene	mg/kg	ND	05/27/97	WSD	0.33		
1,2-Diphenylhydrazine	mg/kg	ND	05/27/97	WSD	0.33		
Fluoranthene	mg/kg	ND	05/27/97	WSD	0.33		
Fluorene	mg/kg	0.43	05/27/97	WSD	0.33		
Hexachlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
Hexachlorobutadiene	mg/kg	ND	05/27/97	WSD	0.33		
Hexachlorocyclopentadiene	mg/kg	ND	05/27/97	WSD	0.33		
Hexachloroethane	mg/kg	ND	05/27/97	WSD	0.33		
Indeno(1,2,3-cd)pyrene	mg/kg	ND	05/27/97	WSD	0.33		
Isophorone	mg/kg	ND	05/27/97	WSD	0.33		
2-Methylnaphthalene	mg/kg	ND	05/27/97	WSD	0.33		
Naphthalene	mg/kg	ND	05/27/97	WSD	0.33		
2-Nitroaniline	mg/kg	ND	05/27/97	WSD	0.33		
3-Nitroaniline	mg/kg	ND	05/27/97	WSD	0.33		
4-Nitroaniline	mg/kg	ND	05/27/97	WSD	0.33		
Nitrobenzene	mg/kg	ND	05/27/97	WSD	0.33		
N-Nitrosodimethylamine	mg/kg	ND	05/27/97	WSD	0.33		
N-Nitrosodiphenylamine	mg/kg	ND	05/27/97	WSD	0.33		
N-Nitroso-di-n-propylamine	mg/kg	ND	05/27/97	WSD	0.33		
Phenanthrene	mg/kg	1.69	05/27/97	WSD	0.33		
Pyrene	mg/kg	ND	05/27/97	WSD	1.00		
Pyridine	mg/kg	ND	05/27/97	WSD	0.33		
1,2,4-Trichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-08/08-10'

	Units	97809242	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	mg/kg	ND	05/27/97	WSD	0.33		
Acenaphthylene	mg/kg	ND	05/27/97	WSD	0.33		
Aniline	mg/kg	ND	05/27/97	WSD	0.33		
Anthracene	mg/kg	ND	05/27/97	WSD	0.33		
Benzidene	mg/kg	ND	05/27/97	WSD	2.33		
Benzoic Acid	mg/kg	ND	05/27/97	WSD	1.00		
Benzo(a)anthracene	mg/kg	ND	05/27/97	WSD	0.33		
Benzo(a)pyrene	mg/kg	ND	05/27/97	WSD	0.67		
Benzo(b)fluoranthene	mg/kg	ND	05/27/97	WSD	0.33		
Benzo(g,h,i)perylene	mg/kg	ND	05/27/97	WSD	1.00		
Benzo(k)fluoranthene	mg/kg	BDL	05/27/97	WSD	0.67		
Benzyl Alcohol	mg/kg	ND	05/27/97	WSD	0.67		
Bis(2-chloroethoxy)methane	mg/kg	ND	05/27/97	WSD	0.33		
Bis(2-chloroethyl)ether	mg/kg	ND	05/27/97	WSD	0.33		
Bis(2-chloroisopropyl)ether	mg/kg	ND	05/27/97	WSD	0.33		
Bis(2-ethylhexyl)phthalate	mg/kg	ND	05/27/97	WSD	0.33		
4-Bromophenylphenylether	mg/kg	ND	05/27/97	WSD	0.33		
Butylbenzylphthalate	mg/kg	ND	05/27/97	WSD	0.67		
4-Chloroaniline	mg/kg	ND	05/27/97	WSD	0.67		
2-Chloronaphthalene	mg/kg	ND	05/27/97	WSD	0.33		
4-Chlorophenylphenylether	mg/kg	ND	05/27/97	WSD	0.33		
Chrysene	mg/kg	BDL	05/27/97	WSD	0.67		
Dibenzofuran	mg/kg	ND	05/27/97	WSD	0.33		
Dibenz(a,h)anthracene	mg/kg	ND	05/27/97	WSD	0.67		
1,2-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
1,3-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
1,4-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
3,3'-Dichlorobenzidine	mg/kg	ND	05/27/97	WSD	0.67		
Diethylphthalate	mg/kg	ND	05/27/97	WSD	0.33		
Dimethylphthalate	mg/kg	ND	05/27/97	WSD	0.67		
Di-n-butylphthalate	mg/kg	ND	05/27/97	WSD	0.33		
Di-n-octylphthalate	mg/kg	ND	05/27/97	WSD	0.67		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-08/08-10'

	Units	97809242	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-Dinitrotoluene	mg/kg	ND	05/27/97	WSD	0.33		
2,6-Dinitrotoluene	mg/kg	ND	05/27/97	WSD	0.33		
1,2-Diphenylhydrazine	mg/kg	ND	05/27/97	WSD	0.33		
Fluoranthene	mg/kg	ND	05/27/97	WSD	0.33		
Fluorene	mg/kg	ND	05/27/97	WSD	0.33		
Hexachlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
Hexachlorobutadiene	mg/kg	ND	05/27/97	WSD	0.33		
Hexachlorocyclopentadiene	mg/kg	ND	05/27/97	WSD	0.33		
Hexachloroethane	mg/kg	ND	05/27/97	WSD	0.33		
Indeno(1,2,3-cd)pyrene	mg/kg	ND	05/27/97	WSD	0.33		
Isophorone	mg/kg	ND	05/27/97	WSD	0.33		
2-Methylnaphthalene	mg/kg	ND	05/27/97	WSD	0.33		
Naphthalene	mg/kg	ND	05/27/97	WSD	0.33		
2-Nitroaniline	mg/kg	ND	05/27/97	WSD	0.33		
3-Nitroaniline	mg/kg	ND	05/27/97	WSD	0.33		
4-Nitroaniline	mg/kg	ND	05/27/97	WSD	0.33		
Nitrobenzene	mg/kg	ND	05/27/97	WSD	0.33		
N-Nitrosodimethylamine	mg/kg	ND	05/27/97	WSD	0.33		
N-Nitrosodiphenylamine	mg/kg	ND	05/27/97	WSD	0.33		
N-Nitroso-di-n-propylamine	mg/kg	ND	05/27/97	WSD	0.33		
Phenanthrene	mg/kg	1.27	05/27/97	WSD	0.33		
Pyrene	mg/kg	ND	05/27/97	WSD	1.00		
Pyridine	mg/kg	ND	05/27/97	WSD	0.33		
1,2,4-Trichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-09/09-11'

	Units	97809243	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	mg/kg	ND	05/27/97	WSD	10.0		
Acenaphthylene	mg/kg	ND	05/27/97	WSD	10.0		
Aniline	mg/kg	ND	05/27/97	WSD	10.0		
Anthracene	mg/kg	ND	05/27/97	WSD	10.0		
Benzidene	mg/kg	ND	05/27/97	WSD	70.0		
Benzoic Acid	mg/kg	ND	05/27/97	WSD	30.0		
Benzo(a)anthracene	mg/kg	ND	05/27/97	WSD	10.0		
Benzo(a)pyrene	mg/kg	ND	05/27/97	WSD	20.0		
Benzo(b)fluoranthene	mg/kg	BDL	05/27/97	WSD	10.0		
Benzo(g,h,i)perylene	mg/kg	ND	05/27/97	WSD	30.0		
Benzo(k)fluoranthene	mg/kg	ND	05/27/97	WSD	20.0		
Benzyl Alcohol	mg/kg	ND	05/27/97	WSD	20.0		
Bis(2-chloroethoxy)methane	mg/kg	ND	05/27/97	WSD	10.0		
Bis(2-chloroethyl)ether	mg/kg	ND	05/27/97	WSD	10.0		
Bis(2-chloroisopropyl)ether	mg/kg	ND	05/27/97	WSD	10.0		
Bis(2-ethylhexyl)phthalate	mg/kg	ND	05/27/97	WSD	10.0		
4-Bromophenylphenylether	mg/kg	ND	05/27/97	WSD	10.0		
Butylbenzylphthalate	mg/kg	ND	05/27/97	WSD	20.0		
4-Chloroaniline	mg/kg	ND	05/27/97	WSD	20.0		
2-Chloronaphthalene	mg/kg	ND	05/27/97	WSD	10.0		
4-Chlorophenylphenylether	mg/kg	ND	05/27/97	WSD	10.0		
Chrysene	mg/kg	BDL	05/27/97	WSD	20.0		
Dibenzofuran	mg/kg	ND	05/27/97	WSD	10.0		
Dibenz(a,h)anthracene	mg/kg	ND	05/27/97	WSD	20.0		
1,2-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	10.0		
1,3-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	10.0		
1,4-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	10.0		
3,3'-Dichlorobenzidine	mg/kg	ND	05/27/97	WSD	20.0		
Diethylphthalate	mg/kg	ND	05/27/97	WSD	10.0		
Dimethylphthalate	mg/kg	ND	05/27/97	WSD	20.0		
Di-n-butylphthalate	mg/kg	ND	05/27/97	WSD	10.0		
Di-n-octylphthalate	mg/kg	ND	05/27/97	WSD	20.0		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-09/09-11'

	Units	97809243	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-Dinitrotoluene	mg/kg	ND	05/27/97	WSD	10.0		
2,6-Dinitrotoluene	mg/kg	ND	05/27/97	WSD	10.0		
1,2-Diphenylhydrazine	mg/kg	ND	05/27/97	WSD	10.0		
Fluoranthene	mg/kg	ND	05/27/97	WSD	10.0		
Fluorene	mg/kg	BDL	05/27/97	WSD	10.0		
Hexachlorobenzene	mg/kg	ND	05/27/97	WSD	10.0		
Hexachlorobutadiene	mg/kg	ND	05/27/97	WSD	10.0		
Hexachlorocyclopentadiene	mg/kg	ND	05/27/97	WSD	10.0		
Hexachloroethane	mg/kg	ND	05/27/97	WSD	10.0		
Indeno(1,2,3-cd)pyrene	mg/kg	ND	05/27/97	WSD	10.0		
Isophorone	mg/kg	ND	05/27/97	WSD	10.0		
2-Methylnaphthalene	mg/kg	10.7	05/27/97	WSD	10.0		
Naphthalene	mg/kg	BDL	05/27/97	WSD	10.0		
2-Nitroaniline	mg/kg	ND	05/27/97	WSD	10.0		
3-Nitroaniline	mg/kg	ND	05/27/97	WSD	10.0		
4-Nitroaniline	mg/kg	ND	05/27/97	WSD	10.0		
Nitrobenzene	mg/kg	ND	05/27/97	WSD	10.0		
N-Nitrosodimethylamine	mg/kg	ND	05/27/97	WSD	10.0		
N-Nitrosodiphenylamine	mg/kg	ND	05/27/97	WSD	10.0		
N-Nitroso-di-n-propylamine	mg/kg	ND	05/27/97	WSD	10.0		
Phenanthrene	mg/kg	BDL	05/27/97	WSD	10.0		
Pyrene	mg/kg	BDL	05/27/97	WSD	30.0		
Pyridine	mg/kg	ND	05/27/97	WSD	10.0		
1,2,4-Trichlorobenzene	mg/kg	ND	05/27/97	WSD	10.0		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-10/06-07'

	Units	97B09244	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	mg/kg	528	05/27/97	WSD	10.0		
Acenaphthylene	mg/kg	556	05/27/97	WSD	10.0		
Aniline	mg/kg	ND	05/27/97	WSD	10.0		
Anthracene	mg/kg	1500	05/27/97	WSD	10.0		
Benzidene	mg/kg	BDL	05/27/97	WSD	70.0		
Benzoic Acid	mg/kg	ND	05/27/97	WSD	30.0		
Benzo(a)anthracene	mg/kg	1560	05/27/97	WSD	10.0		
Benzo(a)pyrene	mg/kg	1380	05/27/97	WSD	20.0		
Benzo(b)fluoranthene	mg/kg	1200	05/27/97	WSD	10.0		
Benzo(g,h,i)perylene	mg/kg	ND	05/27/97	WSD	30.0		
Benzo(k)fluoranthene	mg/kg	830	05/27/97	WSD	20.0		
Benzyl Alcohol	mg/kg	ND	05/27/97	WSD	20.0		
Bis(2-chloroethoxy)methane	mg/kg	ND	05/27/97	WSD	10.0		
Bis(2-chloroethyl)ether	mg/kg	ND	05/27/97	WSD	10.0		
Bis(2-chloroisopropyl)ether	mg/kg	ND	05/27/97	WSD	10.0		
Bis(2-ethylhexyl)phthalate	mg/kg	BDL	05/27/97	WSD	10.0		
4-Bromophenylphenylether	mg/kg	ND	05/27/97	WSD	10.0		
Butylbenzylphthalate	mg/kg	BDL	05/27/97	WSD	20.0		
4-Chloroaniline	mg/kg	ND	05/27/97	WSD	20.0		
2-Chloronaphthalene	mg/kg	ND	05/27/97	WSD	10.0		
4-Chlorophenylphenylether	mg/kg	ND	05/27/97	WSD	10.0		
Chrysene	mg/kg	1590	05/27/97	WSD	20.0		
Dibenzofuran	mg/kg	1000	05/27/97	WSD	10.0		
Dibenz(a,h)anthracene	mg/kg	184	05/27/97	WSD	20.0		
1,2-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	10.0		
1,3-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	10.0		
1,4-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	10.0		
3,3'-Dichlorobenzidine	mg/kg	ND	05/27/97	WSD	20.0		
Diethylphthalate	mg/kg	BDL	05/27/97	WSD	10.0		
Dimethylphthalate	mg/kg	BDL	05/27/97	WSD	20.0		
Di-n-butylphthalate	mg/kg	11.2	05/27/97	WSD	10.0		
Di-n-octylphthalate	mg/kg	ND	05/27/97	WSD	20.0		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-10/06-07'

	Units	97809244	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-Dinitrotoluene	mg/kg	ND	05/27/97	WSD	10.0		
2,6-Dinitrotoluene	mg/kg	ND	05/27/97	WSD	10.0		
1,2-Diphenylhydrazine	mg/kg	ND	05/27/97	WSD	10.0		
Fluoranthene	mg/kg	4680	05/27/97	WSD	10.0		
Fluorene	mg/kg	1640	05/27/97	WSD	10.0		
Hexachlorobenzene	mg/kg	ND	05/27/97	WSD	10.0		
Hexachlorobutadiene	mg/kg	ND	05/27/97	WSD	10.0		
Hexachlorocyclopentadiene	mg/kg	ND	05/27/97	WSD	10.0		
Hexachloroethane	mg/kg	ND	05/27/97	WSD	10.0		
Indeno(1,2,3-cd)pyrene	mg/kg	684	05/27/97	WSD	10.0		
Isophorone	mg/kg	BDL	05/27/97	WSD	10.0		
2-Methylnaphthalene	mg/kg	1000	05/27/97	WSD	10.0		
Naphthalene	mg/kg	3700	05/27/97	WSD	10.0		
2-Nitroaniline	mg/kg	BDL	05/27/97	WSD	10.0		
3-Nitroaniline	mg/kg	ND	05/27/97	WSD	10.0		
4-Nitroaniline	mg/kg	ND	05/27/97	WSD	10.0		
Nitrobenzene	mg/kg	ND	05/27/97	WSD	10.0		
N-Nitrosodimethylamine	mg/kg	ND	05/27/97	WSD	10.0		
N-Nitrosodiphenylamine	mg/kg	ND	05/27/97	WSD	10.0		
N-Nitroso-di-n-propylamine	mg/kg	ND	05/27/97	WSD	10.0		
Phenanthrene	mg/kg	6540	05/27/97	WSD	10.0		
Pyrene	mg/kg	3440	05/27/97	WSD	30.0		
Pyridine	mg/kg	ND	05/27/97	WSD	10.0		
1,2,4-Trichlorobenzene	mg/kg	ND	05/27/97	WSD	10.0		

Analytical Method(s):

SW846 8270

SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

MDL = Method Detection Limit
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SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-04/08-10'

	Units	97809239	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	mg/kg	ND	05/27/97	WSD	0.67		
2-Chlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4-Dichlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4-Dimethylphenol	mg/kg	ND	05/27/97	WSD	1.33		
4,6-Dinitro-2-methylphenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4-Dinitrophenol	mg/kg	ND	05/27/97	WSD	0.33		
2-Methylphenol (o-cresol)	mg/kg	ND	05/27/97	WSD	0.33		
3- & 4-Methylphenol (m&p-cresol)	mg/kg	ND	05/27/97	WSD	0.33		
2-Nitrophenol	mg/kg	ND	05/27/97	WSD	0.33		
4-Nitrophenol	mg/kg	ND	05/27/97	WSD	0.33		
Pentachlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
Phenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4,5-Trichlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4,6-Trichlorophenol	mg/kg	ND	05/27/97	WSD	0.33		

Sampled: 05/20/97
SOIL BORING
B-08/08-10'

	Units	97809242	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	mg/kg	ND	05/27/97	WSD	0.67		
2-Chlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4-Dichlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4-Dimethylphenol	mg/kg	ND	05/27/97	WSD	1.33		
4,6-Dinitro-2-methylphenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4-Dinitrophenol	mg/kg	ND	05/27/97	WSD	0.33		
2-Methylphenol (o-cresol)	mg/kg	ND	05/27/97	WSD	0.33		
3- & 4-Methylphenol (m&p-cresol)	mg/kg	ND	05/27/97	WSD	0.33		
2-Nitrophenol	mg/kg	ND	05/27/97	WSD	0.33		
4-Nitrophenol	mg/kg	ND	05/27/97	WSD	0.33		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-08/08-10'

	Units	97B09242	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Pentachlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
Phenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4,5-Trichlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4,6-Trichlorophenol	mg/kg	ND	05/27/97	WSD	0.33		

Sampled: 05/20/97
SOIL BORING
B-09/09-11'

	Units	97B09243	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	mg/kg	ND	05/27/97	WSD	20.0		
2-Chlorophenol	mg/kg	ND	05/27/97	WSD	10.0		
2,4-Dichlorophenol	mg/kg	ND	05/27/97	WSD	10.0		
2,4-Dimethylphenol	mg/kg	ND	05/27/97	WSD	40.0		
4,6-Dinitro-2-methylphenol	mg/kg	ND	05/27/97	WSD	10.0		
2,4-Dinitrophenol	mg/kg	ND	05/27/97	WSD	10.0		
2-Methylphenol (o-cresol)	mg/kg	ND	05/27/97	WSD	10.0		
3- & 4-Methylphenol (m&p-cresol)	mg/kg	ND	05/27/97	WSD	10.0		
2-Nitrophenol	mg/kg	ND	05/27/97	WSD	10.0		
4-Nitrophenol	mg/kg	ND	05/27/97	WSD	10.0		
Pentachlorophenol	mg/kg	ND	05/27/97	WSD	10.0		
Phenol	mg/kg	ND	05/27/97	WSD	10.0		
2,4,5-Trichlorophenol	mg/kg	ND	05/27/97	WSD	10.0		
2,4,6-Trichlorophenol	mg/kg	ND	05/27/97	WSD	10.0		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-10/06-07'

	Units	97B09244	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	mg/kg	ND	05/27/97	WSD	20.0		
2-Chlorophenol	mg/kg	ND	05/27/97	WSD	10.0		
2,4-Dichlorophenol	mg/kg	ND	05/27/97	WSD	10.0		
2,4-Dimethylphenol	mg/kg	210	05/27/97	WSD	40.0		
4,6-Dinitro-2-methylphenol	mg/kg	ND	05/27/97	WSD	10.0		
2,4-Dinitrophenol	mg/kg	ND	05/27/97	WSD	10.0		
2-Methylphenol (o-cresol)	mg/kg	122	05/27/97	WSD	10.0		
3- & 4-Methylphenol (m&p-cresol)	mg/kg	92.0	05/27/97	WSD	10.0		
2-Nitrophenol	mg/kg	ND	05/27/97	WSD	10.0		
4-Nitrophenol	mg/kg	ND	05/27/97	WSD	10.0		
Pentachlorophenol	mg/kg	ND	05/27/97	WSD	10.0		
Phenol	mg/kg	68.7	05/27/97	WSD	10.0		
2,4,5-Trichlorophenol	mg/kg	ND	05/27/97	WSD	10.0		
2,4,6-Trichlorophenol	mg/kg	ND	05/27/97	WSD	10.0		

Analytical Method(s):

SW846 8270

SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-04/08-10'

	Units	97B09239	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	mg/kg	ND	05/28/97	KLF	2.50		
Arsenic	mg/kg	5.07	05/28/97	KLF	5.00		
Beryllium	mg/kg	0.53	05/28/97	KLF	0.10		
Cadmium	mg/kg	0.06	05/28/97	KLF	0.05		
Chromium	mg/kg	14.8	05/28/97	KLF	0.35		
Copper	mg/kg	14.8	05/28/97	KLF	0.10		
Lead	mg/kg	7.84	05/28/97	KLF	2.50	1000	P
Mercury	mg/kg	ND	05/28/97	APP	0.020		
Nickel	mg/kg	12.4	05/28/97	KLF	0.25		
Selenium	mg/kg	ND	05/28/97	KLF	5.00		
Silver	mg/kg	ND	05/28/97	KLF	0.50		
Thallium	mg/kg	ND	05/28/97	KLF	10.0		
Zinc	mg/kg	39.7	05/28/97	KLF	0.50		

Sampled: 05/20/97
SOIL BORING
B-08/08-10'

	Units	97B09242	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	mg/kg	ND	05/28/97	KLF	2.48		
Arsenic	mg/kg	ND	05/28/97	KLF	4.95		
Beryllium	mg/kg	0.55	05/28/97	KLF	0.10		
Cadmium	mg/kg	0.07	05/28/97	KLF	0.05		
Chromium	mg/kg	13.9	05/28/97	KLF	0.35		
Copper	mg/kg	13.4	05/28/97	KLF	0.10		
Lead	mg/kg	8.54	05/28/97	KLF	2.48	1000	P
Mercury	mg/kg	ND	05/28/97	APP	0.183		
Nickel	mg/kg	10.9	05/28/97	KLF	0.25		
Selenium	mg/kg	5.50	05/28/97	KLF	4.95		
Silver	mg/kg	ND	05/28/97	KLF	0.50		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-08/08-10'

	Units	97809242	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Thallium	mg/kg	ND	05/28/97	KLF	9.90		
Zinc	mg/kg	26.5	05/28/97	KLF	0.50		

Sampled: 05/20/97
SOIL BORING
B-09/09-11'

	Units	97809243	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	mg/kg	ND	05/28/97	KLF	2.50		
Arsenic	mg/kg	42.9	05/28/97	KLF	5.00		
Beryllium	mg/kg	0.15	05/28/97	KLF	0.10		
Cadmium	mg/kg	0.26	05/28/97	KLF	0.05		
Chromium	mg/kg	4.42	05/28/97	KLF	0.35		
Copper	mg/kg	75.8	05/28/97	KLF	0.10		
Lead	mg/kg	44.4	05/28/97	KLF	2.50	1000	P
Mercury	mg/kg	0.044	05/28/97	APP	0.020		
Nickel	mg/kg	11.6	05/28/97	KLF	0.25		
Selenium	mg/kg	8.80	05/28/97	KLF	5.00		
Silver	mg/kg	ND	05/28/97	KLF	0.50		
Thallium	mg/kg	ND	05/28/97	KLF	10.0		
Zinc	mg/kg	21.2	05/28/97	KLF	0.50		

Sampled: 05/20/97
SOIL BORING
B-10/06-07'

	Units	97809244	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	mg/kg	ND	05/28/97	KLF	2.50		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-10/06-07'

	Units	97809244	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Arsenic	mg/kg	11.7	05/28/97	KLF	5.00		
Beryllium	mg/kg	ND	05/28/97	KLF	0.10		
Cadmium	mg/kg	2.82	05/28/97	KLF	0.05		
Chromium	mg/kg	18.2	05/28/97	KLF	0.35		
Copper	mg/kg	69.4	05/28/97	KLF	0.10		
Lead	mg/kg	296	05/28/97	KLF	2.50	1000	P
Mercury	mg/kg	ND	05/28/97	APP	0.186		
Nickel	mg/kg	39.8	05/28/97	KLF	0.25		
Selenium	mg/kg	ND	05/28/97	KLF	5.00		
Silver	mg/kg	ND	05/28/97	KLF	0.50		
Thallium	mg/kg	ND	05/28/97	KLF	10.0		
Zinc	mg/kg	1300	05/28/97	KLF	0.50		

Analytical Method(s):

Antimony
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Arsenic
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Beryllium
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY

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INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Cadmium
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Chromium
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Copper
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Lead
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Mercury
SW846 3050/7471

SAMPLES ARE DIGESTED WITH ACIDS AND THEN ANALYZED BY
COLD VAPOR (FLAMELESS) ATOMIC ABSORPTION SPECTROPHOTOMETRY
Nickel

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SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Selenium
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Silver
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Thallium
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Zinc
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

MDL = Method Detection Limit
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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-10/06-07'

	Units	97809244	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
PCB 1221	mg/kg	ND	05/23/97	JB			
PCB 1232	mg/kg	ND	05/23/97	JB			
PCB 1242/1016	mg/kg	ND	05/23/97	JB			
PCB 1248	mg/kg	ND	05/23/97	JB			
PCB 1254	mg/kg	0.746	05/23/97	JB			
PCB 1260	mg/kg	ND	05/23/97	JB			
Total PCB	mg/kg	0.746	05/23/97	JB	0.497		

Analytical Method(s):

SW846 8080

SAMPLES ARE EXTRACTED INTO HEXANE AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION.

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-01/10-12'

	Units	97B09235	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	37.7	05/29/97	AMC	19.8		

Sampled: 05/20/97
SOIL BORING
B-02/10-12'

	Units	97B09236	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	BDL	05/29/97	AMC	19.6		

Sampled: 05/20/97
SOIL BORING
B-03/10-12'

	Units	97B09237	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	47.6	05/29/97	AMC	19.8		

Sampled: 05/20/97
SOIL BORING
B-04/0-2'

	Units	97B09238	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	12300	05/29/97	AMC	19.7		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-04/08-10'

	Units	97B09239	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	4870	05/29/97	AMC	19.6		

Sampled: 05/20/97
SOIL BORING
B-05/06-08'

	Units	97B09240	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	4490	05/29/97	AMC	19.8		

Sampled: 05/20/97
SOIL BORING
B-07/10-11'

	Units	97B09241	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	46.2	05/29/97	AMC	20.3		

Sampled: 05/20/97
SOIL BORING
B-08/08-10'

	Units	97B09242	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	4920	05/29/97	AMC	19.6		

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-09/09-11'

	Units	97809243	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	62500	05/29/97	AMC	19.6		

Sampled: 05/20/97
SOIL BORING
B-10/06-07'

	Units	97809244	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	10400	05/29/97	AMC	20.3		

Sampled: 05/20/97
SOIL BORING
B-11/04-06'

	Units	97809245	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	34.2	05/29/97	AMC	19.5		

Sampled: 05/20/97
SOIL BORING
B-12/04-06'

	Units	97809246	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	25.8	05/29/97	AMC	19.8		

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29688
Job Number: 29688
Sample Matrix: SOIL

Sampled: 05/20/97
SOIL BORING
B-13/06-08'

	Units	97B09247	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	33.5	05/29/97	AMC	19.7		

Analytical Method(s):

MODIFIED EPA 418.1

INFRA-RED DETERMINATION FOLLOWING EXTRACTION OF HYDROCARBONS INTO
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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The following notes were attached to the reported analysis:

Sample: 97809242

Analysis: Mercury
ELEVATED METHOD DETECTION LIMIT DUE TO MATRIX INTERFERENCES.

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 05/30/97 | Lims Bat #: LIMS-29688 |

QC Batch Number: GC/ECD-1287

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-07902	PCB 1232	Blank	0.000	mg/kg	
	PCB 1242/1016	Blank	0.000	mg/kg	
	PCB 1254	Blank	0.000	mg/kg	
	PCB 1260	Blank	0.000	mg/kg	
	PCB 1248	Blank	0.000	mg/kg	
	PCB 1221	Blank	0.000	mg/kg	
	Total PCB	Blank	<0.025	mg/kg	
	Dibutylchlorendate (	Blank	106.5	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
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BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/SEMI-0738

Sample Id	Analysis	QC Analysis	Values	Units	Limits
97809239	Phenol - D6 mg/kg re	Surrogate Recovery	118.8	%	24.0-113.0
	Nitrobenzene - D5 mg	Surrogate Recovery	120.2	%	23.0-120.0
	2-Fluorobipheny mg/k	Surrogate Recovery	97.3	%	25.0-121.0
	2,4,6-Tribromophenol	Surrogate Recovery	106.6	%	19.0-122.0
	Terphenyl - D14 mg/k	Surrogate Recovery	105.7	%	18.0-137.0
	2-Fluorophenol mg/kg	Surrogate Recovery	113.8	%	30.0-115.0
97809242	1,4-Dichlorobenzene	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
		Sample Amount	<0.33	mg/kg	
		Matrix Spk Amt Added	3.33	mg/kg	
		MS Amt Measured	2.50	mg/kg	
		Matrix Spike % Rec.	75.00	%	
		Duplicate Sample Amt	<0.33	mg/kg	
		MSD Amount Added	3.33	mg/kg	
		MSD Amt Measured	2.90	mg/kg	
		MSD % Recovery	87.00	%	
		MSD Range	12.00	units	
	Naphthalene	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	1,2-Dichlorobenzene	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	1,3-Dichlorobenzene	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Acenaphthene	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
		Sample Amount	<0.33	mg/kg	
		Matrix Spk Amt Added	3.33	mg/kg	
		MS Amt Measured	3.17	mg/kg	
		Matrix Spike % Rec.	95.00	%	
		Duplicate Sample Amt	<0.33	mg/kg	
		MSD Amount Added	3.33	mg/kg	
		MSD Amt Measured	3.67	mg/kg	
		MSD % Recovery	110.00	%	
		MSD Range	15.00	units	
	Acenaphthylene	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Aniline	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Anthracene	Sample Amount	<0.33	mg/kg	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 05/30/97 Lims Bat #: LIMS-29688

QC Batch Number: GCMS/SEMI-0738

Sample Id	Analysis	QC Analysis	Values	Units	Limits
		Duplicate Value	<0.33	mg/kg	
	Benzidene	Sample Amount	<2.33	mg/kg	
		Duplicate Value	<2.33	mg/kg	
	Benzo(a)anthracene	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Benzo(a)pyrene	Sample Amount	<0.67	mg/kg	
		Duplicate Value	<0.67	mg/kg	
	Benzo(b)fluoranthene	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Benzo(g,h,i)perylene	Sample Amount	<1.00	mg/kg	
		Duplicate Value	<1.00	mg/kg	
	Benzoic Acid	Sample Amount	<1.00	mg/kg	
		Duplicate Value	<1.00	mg/kg	
	Benzyl Alcohol	Sample Amount	<0.67	mg/kg	
		Duplicate Value	<0.67	mg/kg	
	Bis(2-chloroethyl)et	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Bis(2-chloroethoxy)m	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Bis(2-chloroisopropy	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Bis(2-ethylhexyl)pht	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	4-Bromophenylphenyle	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Butylbenzylphthalate	Sample Amount	<0.67	mg/kg	
		Duplicate Value	<0.67	mg/kg	
	4-Chloroaniline	Sample Amount	<0.67	mg/kg	
		Duplicate Value	<0.67	mg/kg	
	2-Chloronaphthalene	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	4-Chlorophenylphenyl	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Chrysene	Sample Amount	<0.67	mg/kg	
		Duplicate Value	<0.67	mg/kg	
		Duplicate RPD	31.37	%	
	Dibenz(a,h)anthracen	Sample Amount	<0.67	mg/kg	
		Duplicate Value	<0.67	mg/kg	
	Dibenzofuran	Sample Amount	<0.33	mg/kg	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/SEMI-0738

Sample Id	Analysis	QC Analysis	Values	Units	Limits
		Duplicate Value	<0.33	mg/kg	
	3,3'-Dichlorobenzidi	Sample Amount	<0.67	mg/kg	
		Duplicate Value	<0.67	mg/kg	
	Diethylphthalate	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Dimethylphthalate	Sample Amount	<0.67	mg/kg	
		Duplicate Value	<0.67	mg/kg	
	Di-n-butylphthalate	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	2,4-Dinitrotoluene	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
		Sample Amount	<0.33	mg/kg	
		Matrix Spk Amt Added	3.33	mg/kg	
		MS Amt Measured	2.57	mg/kg	
		Matrix Spike % Rec.	77.00	%	
		Duplicate Sample Amt	<0.33	mg/kg	
		MSD Amount Added	3.33	mg/kg	
		MSD Amt Measured	2.33	mg/kg	
		MSD % Recovery	70.00	%	
		MSD Range	7.00	units	
	2,6-Dinitrotoluene	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	1,2-Diphenylhydrazin	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Di-n-octylphthalate	Sample Amount	<0.67	mg/kg	
		Duplicate Value	<0.67	mg/kg	
	Fluoranthene	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Fluorene	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Hexachlorobenzene	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Hexachlorobutadiene	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Hexachlorocyclopenta	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Hexachloroethane	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Indeno(1,2,3-cd)pyre	Sample Amount	<0.33	mg/kg	

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BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/SEMI-0738

Sample Id	Analysis	QC Analysis	Values	Units	Limits
		Duplicate Value	<0.33	mg/kg	
	Isophorone	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	2-Methylnaphthalene	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	2-Nitroaniline	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	3-Nitroaniline	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Nitrobenzene	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	N-Nitrosodimethylami	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	N-Nitroso-di-n-propy	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
		Sample Amount	<0.33	mg/kg	
		Matrix Spk Amt Added	3.33	mg/kg	
		MS Amt Measured	3.43	mg/kg	
		Matrix Spike % Rec.	103.00	%	
		Duplicate Sample Amt	<0.33	mg/kg	
		MSD Amount Added	3.33	mg/kg	
		MSD Amt Measured	4.13	mg/kg	
		MSD % Recovery	124.00	%	
		MSD Range	21.00	units	
	N-Nitrosodiphenylami	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Phenanthrene	Sample Amount	1.27	mg/kg	
		Duplicate Value	0.60	mg/kg	
		Duplicate RPD	71.54	%	
	Pyrene	Sample Amount	<1.00	mg/kg	
		Duplicate Value	<1.00	mg/kg	
		Sample Amount	<1.00	mg/kg	
		Matrix Spk Amt Added	3.33	mg/kg	
		MS Amt Measured	3.23	mg/kg	
		Matrix Spike % Rec.	97.00	%	
		Duplicate Sample Amt	<1.00	mg/kg	
		MSD Amount Added	3.33	mg/kg	
		MSD Amt Measured	3.77	mg/kg	
		MSD % Recovery	113.00	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/SEMI-0738

Sample Id	Analysis	QC Analysis	Values	Units	Limits
		MSD Range	16.00	units	
	1,2,4-Trichlorobenze	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
		Sample Amount	<0.33	mg/kg	
		Matrix Spk Amt Added	3.33	mg/kg	
		MS Amt Measured	3.03	mg/kg	
		Matrix Spike % Rec.	91.00	%	
		Duplicate Sample Amt	<0.33	mg/kg	
		MSD Amount Added	3.33	mg/kg	
		MSD Amt Measured	3.30	mg/kg	
		MSD % Recovery	99.00	%	
		MSD Range	8.00	units	
	4-Chloro-3-methylphe	Sample Amount	<0.67	mg/kg	
		Duplicate Value	<0.67	mg/kg	
		Sample Amount	<0.67	mg/kg	
		Matrix Spk Amt Added	6.67	mg/kg	
		MS Amt Measured	2.07	mg/kg	
		Matrix Spike % Rec.	31.00	%	
		Duplicate Sample Amt	<0.67	mg/kg	
		MSD Amount Added	6.67	mg/kg	
		MSD Amt Measured	6.63	mg/kg	
		MSD % Recovery	99.50	%	
		MSD Range	68.50	units	
	2-Chlorophenol	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
		Sample Amount	<0.33	mg/kg	
		Matrix Spk Amt Added	6.67	mg/kg	
		MS Amt Measured	5.20	mg/kg	
		Matrix Spike % Rec.	78.00	%	
		Duplicate Sample Amt	<0.33	mg/kg	
		MSD Amount Added	6.67	mg/kg	
		MSD Amt Measured	6.00	mg/kg	
		MSD % Recovery	90.00	%	
		MSD Range	12.00	units	
	2,4-Dichlorophenol	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	2,4-Dimethylphenol	Sample Amount	<1.33	mg/kg	
		Duplicate Value	<1.33	mg/kg	
	4,6-Dinitro-2-methyl	Sample Amount	<0.33	mg/kg	

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Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/SEMI-0738

Sample Id	Analysis	QC Analysis	Values	Units	Limits
		Duplicate Value	<0.33	mg/kg	
	2,4-Dinitrophenol	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	2-Methylphenol (o-cr	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	3- & 4-Methylphenol	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	2-Nitrophenol	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	4-Nitrophenol	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
		Sample Amount	<0.33	mg/kg	
		Matrix Spk Amt Added	6.67	mg/kg	
		MS Amt Measured	1.23	mg/kg	
		Matrix Spike % Rec.	18.50	%	
		Duplicate Sample Amt	<0.33	mg/kg	
		MSD Amount Added	6.67	mg/kg	
		MSD Amt Measured	5.57	mg/kg	
		MSD % Recovery	83.50	%	
		MSD Range	65.00	units	
	Phenol	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
		Sample Amount	<0.33	mg/kg	
		Matrix Spk Amt Added	6.67	mg/kg	
		MS Amt Measured	5.40	mg/kg	
		Matrix Spike % Rec.	81.00	%	
		Duplicate Sample Amt	<0.33	mg/kg	
		MSD Amount Added	6.67	mg/kg	
		MSD Amt Measured	6.53	mg/kg	
		MSD % Recovery	98.00	%	
		MSD Range	17.00	units	
	2,4,5-Trichloropheno	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	2,4,6-Trichloropheno	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Pentachlorophenol	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
		Sample Amount	<0.33	mg/kg	
		Matrix Spk Amt Added	6.67	mg/kg	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
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BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 05/30/97 Lims Bat #: LIMS-29688

QC Batch Number: GCMS/SEMI-0738

Sample Id	Analysis	QC Analysis	Values	Units	Limits
		MS Amt Measured	5.13	mg/kg	
		Matrix Spike % Rec.	77.00	%	
		Duplicate Sample Amt	<0.33	mg/kg	
		MSD Amount Added	6.67	mg/kg	
		MSD Amt Measured	5.93	mg/kg	
		MSD % Recovery	89.00	%	
		MSD Range	12.00	units	
	Pyridine	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Benzo(k)fluoranthene	Sample Amount	<0.67	mg/kg	
		Duplicate Value	<0.67	mg/kg	
		Duplicate RPD	75.69	%	
	4-Nitroaniline	Sample Amount	<0.33	mg/kg	
		Duplicate Value	<0.33	mg/kg	
	Phenol - D6 mg/kg re	Surrogate Recovery	126.0	%	24.0-113.0
	Nitrobenzene - D5 mg	Surrogate Recovery	114.9	%	23.0-120.0
	2-Fluorobipheny mg/k	Surrogate Recovery	122.8	%	25.0-121.0
	2,4,6-Tribromophenol	Surrogate Recovery	29.8	%	19.0-122.0
	Terphenyl - D14 mg/k	Surrogate Recovery	105.6	%	18.0-137.0
	2-Fluorophenol mg/kg	Surrogate Recovery	118.4	%	30.0-115.0
97B09243	Phenol - D6 mg/kg re	Surrogate Recovery	84.1	%	24.0-113.0
	Nitrobenzene - D5 mg	Surrogate Recovery	70.6	%	23.0-120.0
	2-Fluorobipheny mg/k	Surrogate Recovery	86.8	%	25.0-121.0
	2,4,6-Tribromophenol	Surrogate Recovery	80.0	%	19.0-122.0
	Terphenyl - D14 mg/k	Surrogate Recovery	94.2	%	18.0-137.0
	2-Fluorophenol mg/kg	Surrogate Recovery	83.0	%	30.0-115.0
97B09244	Phenol - D6 mg/kg re	Surrogate Recovery	86.4	%	24.0-113.0
	Nitrobenzene - D5 mg	Surrogate Recovery	115.8	%	23.0-120.0
	2-Fluorobipheny mg/k	Surrogate Recovery	77.6	%	25.0-121.0
	2,4,6-Tribromophenol	Surrogate Recovery	68.2	%	19.0-122.0
	Terphenyl - D14 mg/k	Surrogate Recovery	136.0	%	18.0-137.0
	2-Fluorophenol mg/kg	Surrogate Recovery	82.1	%	30.0-115.0
BLANK-07955	1,4-Dichlorobenzene	Blank	<0.33	mg/kg	
	Naphthalene	Blank	<0.33	mg/kg	
	1,2-Dichlorobenzene	Blank	<0.33	mg/kg	
	1,3-Dichlorobenzene	Blank	<0.33	mg/kg	
	Acenaphthene	Blank	<0.33	mg/kg	
	Acenaphthylene	Blank	<0.33	mg/kg	
	Aniline	Blank	<0.33	mg/kg	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/SEMI-0738

Sample Id	Analysis	QC Analysis	Values	Units	Limits
	Anthracene	Blank	<0.33	mg/kg	
	Benzidene	Blank	<2.33	mg/kg	
	Benzo(a)anthracene	Blank	<0.33	mg/kg	
	Benzo(a)pyrene	Blank	<0.67	mg/kg	
	Benzo(b)fluoranthene	Blank	<0.33	mg/kg	
	Benzo(g,h,i)perylene	Blank	<1.00	mg/kg	
	Benzoic Acid	Blank	<1.00	mg/kg	
	Benzyl Alcohol	Blank	<0.67	mg/kg	
	Bis(2-chloroethyl)et	Blank	<0.33	mg/kg	
	Bis(2-chloroethoxy)m	Blank	<0.33	mg/kg	
	Bis(2-chloroisopropy	Blank	<0.33	mg/kg	
	Bis(2-ethylhexyl)pht	Blank	<0.33	mg/kg	
	4-Bromophenylphenyle	Blank	<0.33	mg/kg	
	Butylbenzylphthalate	Blank	<0.67	mg/kg	
	4-Chloroaniline	Blank	<0.67	mg/kg	
	2-Chloronaphthalene	Blank	<0.33	mg/kg	
	4-Chlorophenylphenyl	Blank	<0.33	mg/kg	
	Chrysene	Blank	<0.67	mg/kg	
	Dibenz(a,h)anthracen	Blank	<0.67	mg/kg	
	Dibenzofuran	Blank	<0.33	mg/kg	
	3,3'-Dichlorobenzidi	Blank	<0.67	mg/kg	
	Diethylphthalate	Blank	<0.33	mg/kg	
	Dimethylphthalate	Blank	<0.67	mg/kg	
	Di-n-butylphthalate	Blank	<0.33	mg/kg	
	2,4-Dinitrotoluene	Blank	<0.33	mg/kg	
	2,6-Dinitrotoluene	Blank	<0.33	mg/kg	
	1,2-Diphenylhydrazin	Blank	<0.33	mg/kg	
	Di-n-octylphthalate	Blank	<0.67	mg/kg	
	Fluoranthene	Blank	<0.33	mg/kg	
	Fluorene	Blank	<0.33	mg/kg	
	Hexachlorobenzene	Blank	<0.33	mg/kg	
	Hexachlorobutadiene	Blank	<0.33	mg/kg	
	Hexachlorocyclopenta	Blank	<0.33	mg/kg	
	Hexachloroethane	Blank	<0.33	mg/kg	
	Indeno(1,2,3-cd)pyre	Blank	<0.33	mg/kg	
	Isophorone	Blank	<0.33	mg/kg	
	2-Methylnaphthalene	Blank	<0.33	mg/kg	
	2-Nitroaniline	Blank	<0.33	mg/kg	
	3-Nitroaniline	Blank	<0.33	mg/kg	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/SEMI-0738

Sample Id	Analysis	QC Analysis	Values	Units	Limits
	Nitrobenzene	Blank	<0.33	mg/kg	
	N-Nitrosodimethylami	Blank	<0.33	mg/kg	
	N-Nitroso-di-n-propy	Blank	<0.33	mg/kg	
	N-Nitrosodiphenylami	Blank	<0.33	mg/kg	
	Phenanthrene	Blank	<0.33	mg/kg	
	Pyrene	Blank	<1.00	mg/kg	
	1,2,4-Trichlorobenze	Blank	<0.33	mg/kg	
	4-Chloro-3-methylphe	Blank	<0.67	mg/kg	
	2-Chlorophenol	Blank	<0.33	mg/kg	
	2,4-Dichlorophenol	Blank	<0.33	mg/kg	
	2,4-Dimethylphenol	Blank	<1.33	mg/kg	
	4,6-Dinitro-2-methyl	Blank	<0.33	mg/kg	
	2,4-Dinitrophenol	Blank	<0.33	mg/kg	
	2-Methylphenol (o-cr	Blank	<0.33	mg/kg	
	3- & 4-Methylphenol	Blank	<0.33	mg/kg	
	2-Nitrophenol	Blank	<0.33	mg/kg	
	4-Nitrophenol	Blank	<0.33	mg/kg	
	Phenol	Blank	<0.33	mg/kg	
	2,4,5-Trichloropheno	Blank	<0.33	mg/kg	
	2,4,6-Trichloropheno	Blank	<0.33	mg/kg	
	Pentachlorophenol	Blank	<0.33	mg/kg	
	Pyridine	Blank	<0.33	mg/kg	
	Benzo(k)fluoranthene	Blank	<0.67	mg/kg	
	4-Nitroaniline	Blank	<0.33	mg/kg	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/VOL-1294

Sample Id	Analysis	QC Analysis	Values	Units	Limits
97B09235	d4-12-Dichloroethane	Surrogate Recovery	111.200	%	56.000-128.000
	d8-Toluene (8240 dry	Surrogate Recovery	102.000	%	65.000-113.000
	Bromofluororbenzene	Surrogate Recovery	102.400	%	62.000-137.000
97B09236	d4-12-Dichloroethane	Surrogate Recovery	106.800	%	56.000-128.000
	d8-Toluene (8240 dry	Surrogate Recovery	104.400	%	65.000-113.000
	Bromofluororbenzene	Surrogate Recovery	109.600	%	62.000-137.000
97B09237	d4-12-Dichloroethane	Surrogate Recovery	109.600	%	56.000-128.000
	d8-Toluene (8240 dry	Surrogate Recovery	103.600	%	65.000-113.000
	Bromofluororbenzene	Surrogate Recovery	108.000	%	62.000-137.000
97B09238	d4-12-Dichloroethane	Surrogate Recovery	104.400	%	56.000-128.000
	d8-Toluene (8240 dry	Surrogate Recovery	98.800	%	65.000-113.000
	Bromofluororbenzene	Surrogate Recovery	106.400	%	62.000-137.000
97B09239	d4-12-Dichloroethane	Surrogate Recovery	116.520	%	56.000-128.000
	d8-Toluene (8240 dry	Surrogate Recovery	96.320	%	65.000-113.000
	Bromofluororbenzene	Surrogate Recovery	93.080	%	62.000-137.000
97B09240	d4-12-Dichloroethane	Surrogate Recovery	105.200	%	56.000-128.000
	d8-Toluene (8240 dry	Surrogate Recovery	103.600	%	65.000-113.000
	Bromofluororbenzene	Surrogate Recovery	114.000	%	62.000-137.000
97B09241	d4-12-Dichloroethane	Surrogate Recovery	104.400	%	56.000-128.000
	d8-Toluene (8240 dry	Surrogate Recovery	106.400	%	65.000-113.000
	Bromofluororbenzene	Surrogate Recovery	108.800	%	62.000-137.000
97B09242	Benzene	Sample Amount	<0.003	mg/kg	
		Matrix Spk Amt Added	0.125	mg/kg	
		MS Amt Measured	0.139	mg/kg	
		Matrix Spike % Rec.	111.520	%	
	Toluene	Sample Amount	<0.004	mg/kg	
		Matrix Spk Amt Added	0.125	mg/kg	
		MS Amt Measured	0.112	mg/kg	
		Matrix Spike % Rec.	90.000	%	
	Trichloroethylene	Sample Amount	<0.005	mg/kg	
		Matrix Spk Amt Added	0.125	mg/kg	
		MS Amt Measured	0.120	mg/kg	
		Matrix Spike % Rec.	96.000	%	
	1,1-Dichloroethylene	Sample Amount	<0.003	mg/kg	
		Matrix Spk Amt Added	0.125	mg/kg	
		MS Amt Measured	0.128	mg/kg	
		Matrix Spike % Rec.	102.400	%	
	Chlorobenzene	Sample Amount	<0.003	mg/kg	
		Matrix Spk Amt Added	0.125	mg/kg	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/VOL-1294

Sample Id	Analysis	QC Analysis	Values	Units	Limits
		MS Amt Measured	0.132	mg/kg	
		Matrix Spike % Rec.	105.560	%	
	d4-12-Dichloroethane	Surrogate Recovery	119.200	%	56.000-128.000
	d8-Toluene (8240 dry	Surrogate Recovery	94.920	%	65.000-113.000
	Bromofluororbenzene	Surrogate Recovery	92.320	%	62.000-137.000
BLANK-07956	Acetone	Blank	<0.080	mg/kg	
	Benzene	Blank	<0.003	mg/kg	
	Carbon Tetrachloride	Blank	<0.002	mg/kg	
	Chloroform	Blank	<0.004	mg/kg	
	1,2-Dichloroethane	Blank	<0.004	mg/kg	
	1,4-Dichlorobenzene	Blank	<0.004	mg/kg	
	Ethyl Benzene	Blank	<0.003	mg/kg	
	2-Butanone (MEK)	Blank	<0.060	mg/kg	
	4-Methyl-2-Pentanone	Blank	<0.044	mg/kg	
	Styrene	Blank	<0.004	mg/kg	
	Tetrachloroethylene	Blank	<0.002	mg/kg	
	Toluene	Blank	<0.004	mg/kg	
	1,1,1-Trichloroethan	Blank	<0.004	mg/kg	
	Trichloroethylene	Blank	<0.005	mg/kg	
	Trichlorofluorometha	Blank	<0.004	mg/kg	
	o&p-Xylene	Blank	<0.002	mg/kg	
	m-Xylene	Blank	<0.006	mg/kg	
	1,2-Dichlorobenzene	Blank	<0.004	mg/kg	
	1,3-Dichlorobenzene	Blank	<0.003	mg/kg	
	1,1-Dichloroethane	Blank	<0.004	mg/kg	
	1,1-Dichloroethylene	Blank	<0.003	mg/kg	
	Methyl tert-Butyl Et	Blank	<0.004	mg/kg	
	t-1,2-Dichloroethyle	Blank	<0.004	mg/kg	
	Vinyl Chloride	Blank	<0.002	mg/kg	
	Methylene Chloride	Blank	<0.015	mg/kg	
	Chlorobenzene	Blank	<0.003	mg/kg	
	Chloromethane	Blank	<0.006	mg/kg	
	Bromomethane	Blank	<0.006	mg/kg	
	Chloroethane	Blank	<0.004	mg/kg	
	cis-1,3-Dichloroprop	Blank	<0.002	mg/kg	
	t-1,3-Dichloropropen	Blank	<0.002	mg/kg	
	Chlorodibromomethane	Blank	<0.002	mg/kg	
	1,1,2-Trichloroethan	Blank	<0.004	mg/kg	
	2-Chloroethylvinylet	Blank	<0.048	mg/kg	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/VOL-1294

Sample Id	Analysis	QC Analysis	Values	Units	Limits
	Bromoform	Blank	<0.006	mg/kg	
	1,1,2,2-Tetrachloroe	Blank	<0.007	mg/kg	
	Dibromomethane	Blank	<0.006	mg/kg	
	1,2-Dichloropropane	Blank	<0.003	mg/kg	
	1,2,3-Trichloropropa	Blank	<0.006	mg/kg	
	Dichlorodifluorometh	Blank	<0.005	mg/kg	
	Iodomethane	Blank	<0.004	mg/kg	
	Acrolein	Blank	<0.100	mg/kg	
	Acrylonitrile	Blank	<0.038	mg/kg	
	Carbon Disulfide	Blank	<0.002	mg/kg	
	Vinyl Acetate	Blank	<0.082	mg/kg	
	2-Hexanone	Blank	<0.048	mg/kg	
	t-1,4-Dichloro-2-But	Blank	<0.010	mg/kg	
	Ethyl Methacrylate	Blank	<0.004	mg/kg	
	c-1,4-Dichloro-2-But	Blank	<0.012	mg/kg	
	Bromodichloromethane	Blank	<0.002	mg/kg	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: HG-0494

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-03956	Mercury	Lab Fort Blank Amt.	0.200	mg/kg	
		Lab Fort Blk. Found	0.230	mg/kg	
		Lab Fort Blk. % Rec.	115.000	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: ICP-1817

Sample Id	Analysis	QC Analysis	Values	Units	Limits
97809239	Silver	Sample Amount	<0.50	mg/kg	
		Duplicate Value	0.00	mg/kg	
		Sample Amount	<0.50	mg/kg	
		Matrix Spk Amt Added	100.00	mg/kg	
		MS Amt Measured	86.15	mg/kg	
		Matrix Spike % Rec.	86.15	%	
	Arsenic	Sample Amount	5.07	mg/kg	
		Duplicate Value	0.00	mg/kg	
		Duplicate RPD	200.00	%	
		Sample Amount	5.07	mg/kg	
		Matrix Spk Amt Added	100.00	mg/kg	
		MS Amt Measured	88.30	mg/kg	
		Matrix Spike % Rec.	83.23	%	
	Beryllium	Sample Amount	0.53	mg/kg	
		Duplicate Value	0.56	mg/kg	
		Duplicate RPD	5.50	%	
		Sample Amount	0.53	mg/kg	
		Matrix Spk Amt Added	100.00	mg/kg	
		MS Amt Measured	97.20	mg/kg	
		Matrix Spike % Rec.	96.67	%	
	Cadmium	Sample Amount	0.06	mg/kg	
		Duplicate Value	0.00	mg/kg	
		Duplicate RPD	200.00	%	
		Sample Amount	0.06	mg/kg	
		Matrix Spk Amt Added	100.00	mg/kg	
		MS Amt Measured	87.75	mg/kg	
		Matrix Spike % Rec.	87.70	%	
	Chromium	Sample Amount	14.78	mg/kg	
		Duplicate Value	13.72	mg/kg	
		Duplicate RPD	7.40	%	
		Sample Amount	14.78	mg/kg	
		Matrix Spk Amt Added	100.00	mg/kg	
		MS Amt Measured	104.60	mg/kg	
		Matrix Spike % Rec.	89.82	%	
	Copper	Sample Amount	14.85	mg/kg	
		Duplicate Value	14.60	mg/kg	
		Duplicate RPD	1.70	%	
		Sample Amount	14.85	mg/kg	
		Matrix Spk Amt Added	100.00	mg/kg	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: ICP-1817

Sample Id	Analysis	QC Analysis	Values	Units	Limits
		MS Amt Measured	102.40	mg/kg	
		Matrix Spike % Rec.	87.55	%	
	Nickel	Sample Amount	12.36	mg/kg	
		Duplicate Value	12.12	mg/kg	
		Duplicate RPD	1.96	%	
		Sample Amount	12.36	mg/kg	
		Matrix Spk Amt Added	100.00	mg/kg	
		MS Amt Measured	100.70	mg/kg	
		Matrix Spike % Rec.	88.34	%	
	Lead	Sample Amount	7.84	mg/kg	
		Duplicate Value	8.70	mg/kg	
		Duplicate RPD	10.40	%	
		Sample Amount	7.84	mg/kg	
		Matrix Spk Amt Added	100.00	mg/kg	
		MS Amt Measured	94.30	mg/kg	
		Matrix Spike % Rec.	86.46	%	
	Antimony	Sample Amount	<2.50	mg/kg	
		Duplicate Value	0.00	mg/kg	
		Sample Amount	<2.50	mg/kg	
		Matrix Spk Amt Added	100.00	mg/kg	
		MS Amt Measured	59.80	mg/kg	
		Matrix Spike % Rec.	59.80	%	
	Selenium	Sample Amount	<5.00	mg/kg	
		Duplicate Value	6.43	mg/kg	
		Duplicate RPD	200.00	%	
		Sample Amount	<5.00	mg/kg	
		Matrix Spk Amt Added	100.00	mg/kg	
		MS Amt Measured	93.70	mg/kg	
		Matrix Spike % Rec.	93.70	%	
	Thallium	Sample Amount	<10.00	mg/kg	
		Duplicate Value	0.00	mg/kg	
		Sample Amount	<10.00	mg/kg	
		Matrix Spk Amt Added	100.00	mg/kg	
		MS Amt Measured	85.65	mg/kg	
		Matrix Spike % Rec.	85.65	%	
	Zinc	Sample Amount	39.74	mg/kg	
		Duplicate Value	36.26	mg/kg	
		Duplicate RPD	9.18	%	
		Sample Amount	39.74	mg/kg	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 05/30/97 | Lims Bat #: LIMS-29688 |

QC Batch Number: ICP-1817

Sample Id	Analysis	QC Analysis	Values	Units	Limits
		Matrix Spk Amt Added	100.00	mg/kg	
		MS Amt Measured	126.30	mg/kg	
		Matrix Spike % Rec.	86.56	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: TPH-0760

Sample Id	Analysis	QC Analysis	Values	Units	Limits
97B09242	Total Petroleum Hydr	Sample Amount	4916.83	mg/kg	
		Duplicate Value	3710.63	mg/kg	
		Duplicate RPD	27.96	%	
		Sample Amount	4916.83	mg/kg	
		Matrix Spk Amt Added	2006.00	mg/kg	
		MS Amt Measured	6534.65	mg/kg	
		Matrix Spike % Rec.	80.65	%	50.20-124.00
BLANK-07961	Total Petroleum Hydr	Blank	<20.00	mg/kg	
STDADD-05824	Total Petroleum Hydr	Standard Measured	1777.91	mg/kg	1485.00-2475.00
		Standard Amt Added	1960.00	mg/kg	
		Standard % Recovery	90.71	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

NOTES:

QC Batch No.: GCMS/SEMI-0738
Sample ID: 97B09239
Analysis: Phenol - D6
QC Analysis: Surrogate Recovery
SURROGATE RECOVERY OUTSIDE OF CONTROL LIMITS DUE TO SAMPLE MATRIX INTERFERENCE.

QC Batch No.: GCMS/SEMI-0738
Sample ID: 97B09239
Analysis: Nitrobenzene - D5
QC Analysis: Surrogate Recovery
SURROGATE RECOVERY OUTSIDE OF CONTROL LIMITS DUE TO SAMPLE MATRIX INTERFERENCE.

QC Batch No.: GCMS/SEMI-0738
Sample ID: 97B09242
Analysis: Phenol - D6
QC Analysis: Surrogate Recovery
SURROGATE RECOVERY OUTSIDE OF CONTROL LIMITS DUE TO SAMPLE MATRIX INTERFERENCE.

QC Batch No.: GCMS/SEMI-0738
Sample ID: 97B09242
Analysis: 2-Fluorobiphenyl
QC Analysis: Surrogate Recovery
SURROGATE RECOVERY OUTSIDE OF CONTROL LIMITS DUE TO SAMPLE MATRIX INTERFERENCE.

QC Batch No.: GCMS/SEMI-0738
Sample ID: 97B09242
Analysis: 2-Fluorophenol
QC Analysis: Surrogate Recovery
SURROGATE RECOVERY OUTSIDE OF CONTROL LIMITS DUE TO SAMPLE MATRIX INTERFERENCE.

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CHAIN OF CUSTODY RECORD

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Client Name: Vanasse Hangen Brustlin, Inc.
Attn: Marc Richards
Address: 101 Walnut St.
Watertown, MA 02272
Site Location: Middletown, CT
Sampled By: Marc Richards
Call Results: Yes ____ No X
Fax Results: Yes X No ____

Telephone: 617-924-1770
Batch #: 29688
Project #: A0163
Client P.O. #: A0163
Fax #: 617-923-2336

Analysis Required

Field Sample I.D.	Sample Description	Lab #	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	Composite	Grab	Matrix: Waste Water	Ground Water	DKG Water	Soil	Air	*Other	Preservative (Use Code)	Container (Use Code)	VOC 8240	TPH 418.1	SVOC 8270	13 Priority Pollutant Metals	PCB					
B-1/10-12'	Soil Boring	97B09235		5/20	X					S				2-G	X	X								
B-2/10-12'		09236			X					S				2-G	X	X								
B-3/10-12'		09237			X					S				2-G	X	X								
B-4/0-2'		09238			X					S				G	X	X								
B-4/8-10'		09239			X					S				2-G	X	X	X	X						
B-5/6-8'		09240			X					S				2-G	X	X								
B-7/10-11'		09241			X					S				2-G	X	X								
B-8/8-10'		09242			X					S				2-G	X	X	X	X						

CONTAINER CODE
P: PLASTIC (____ Size) V = 40 ml vial G = Glass (____ size) A = 1000 ml Amber 0 = Other ____

PRESERVATIVE CODE:
I = ICED N = HNO_3 H = HCl S = NaOH T = $Na_2S_2O_3$ O = OTHER ____

Relinquished by: (Signature)	Date Time	Received by: (Signature)
[signature]	1630 5-20-97	[signature]
Relinquished by: (Signature) [signature]	Date Time 1730 5-20-97	Received by: (Signature) Chris Nelson
Relinquished by: (Signature)	Date Time	Received by: (Signature)

Turnaround Requested: ____ 24-Hour ____ 48-Hour ____ Normal
____ Other ____ Date Required

Remarks/Comments:

*MATRIX OTHER ____

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FAX (413) 525-6405

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01028

Client Name: Vanasse Hangen Brustlin
Attn: Marc Richards
Address: 101 Walnut St
Watertown, MA 02272
Site Location: Middletown, CT
Sampled: By: Marc Richards
Call Results: Yes ____ No X
Fax Results: Yes X No ____

Telephone: 617-924-1770
Batch #: 29688
Project #: A0163
Client P.O. #: A0163
Fax #: 617-923-2336

Analysis Required

Field Sample I.D.	Sample Description	Lab #	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	Composite	Grab	Matrix: Waste Water	Matrix: Ground Water	Matrix: DKG Water	Matrix: Soil	Matrix: Air	Matrix: *Other	Preservative (Use Code)	Container (Use Code)	TPH 418.1	SVOC 8270	13 Priority Pollutant Metals	PCB 8080						
B-9/9-11'	Soil Boring	97B09243		5/20	X					S				G	X	X	X							
B-10/6-7'		09244			X					S				G	X	X	X	X						
B-11/4-6'		09245			X					S				G	X									
B-12/4-6'		09246			X					S				G	X									
B-13/6-8'		09247			X					S				G	X									

CONTAINER CODE
P: PLASTIC (____ Size) V = 40 ml vial G = Glass (____ size) A = 1000 ml Amber 0 = Other ____

PRESERVATIVE CODE:
I = ICED N = HNO_3 H = HCl S = NaOH T = $Na_2S_2O_3$ O = OTHER ____

Relinquished by: (Signature)	Date Time	Received by: (Signature)
Marc Richards	1630 5-20-97	W. Wellington
Relinquished by: (Signature)	Date Time	Received by: (Signature)
W. Wellington	1730 5-20-97	Chris Wilson
Relinquished by: (Signature)	Date Time	Received by: (Signature)

Turnaround Requested: ____ 24-Hour ____ 48-Hour ____ Normal
____ Other ____ Date Required

Remarks/Comments:

*MATRIX OTHER ____

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VANASSE HANGEN BRUSTLIN, INC.
101 WALNUT STREET
WATERTOWN, MA 02272
ATTN: MARC RICHARDS

REPORT DATE: 06/02/97

PURCHASE ORDER NUMBER: 40163

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-29711
JOB NUMBER: 29711

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report

PROJECT LOCATION: MIDDLETOWN, CT

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
B-15/07'-08'	97B09377	SOIL	SOOL BORING	8240 - solid (a)
B-15/07'-08'	97B09377	SOIL	SOOL BORING	8240 - solid (b)
B-15/07'-08'	97B09377	SOIL	SOOL BORING	tph (mg/kg)
B-16/05'-06'	97B09378	SOIL	SOOL BORING	8270-soil bn-2
B-16/05'-06'	97B09378	SOIL	SOOL BORING	8270-soil bn1
B-16/05'-06'	97B09378	SOIL	SOOL BORING	8270-soil-acid
B-16/05'-06'	97B09378	SOIL	SOOL BORING	tph (mg/kg)
B-18/05'-07'	97B09379	SOIL	SOOL BORING	8240 - solid (a)
B-18/05'-07'	97B09379	SOIL	SOOL BORING	8240 - solid (b)
B-18/05'-07'	97B09379	SOIL	SOOL BORING	8270-soil bn-2
B-18/05'-07'	97B09379	SOIL	SOOL BORING	8270-soil bn1
B-18/05'-07'	97B09379	SOIL	SOOL BORING	8270-soil-acid
B-18/05'-07'	97B09379	SOIL	SOOL BORING	metals(13pp)socp
B-18/05'-07'	97B09379	SOIL	SOOL BORING	tph (mg/kg)
SUR-01	97B09375	SOIL	HAND AUGER	8270-soil bn-2
SUR-01	97B09375	SOIL	HAND AUGER	8270-soil bn1
SUR-01	97B09375	SOIL	HAND AUGER	8270-soil-acid
SUR-01	97B09375	SOIL	HAND AUGER	metals(13pp)socp
SUR-01	97B09375	SOIL	HAND AUGER	pcb - soil
SUR-01	97B09375	SOIL	HAND AUGER	tph (mg/kg)
SUR-02	97B09376	SOIL	HAND AUGER	8270-soil bn-2
SUR-02	97B09376	SOIL	HAND AUGER	8270-soil bn1
SUR-02	97B09376	SOIL	HAND AUGER	8270-soil-acid
SUR-02	97B09376	SOIL	HAND AUGER	metals(13pp)socp
SUR-02	97B09376	SOIL	HAND AUGER	pcb - soil
SUR-02	97B09376	SOIL	HAND AUGER	tph (mg/kg)

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VANASSE HANGEN BRUSTLIN, INC.

REPORT DATE: 06/02/97

101 WALNUT STREET
WATERTOWN, MA 02272
ATTN: MARC RICHARDS

PURCHASE ORDER NUMBER: 40163

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-29711
JOB NUMBER: 29711

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

AIHA 308
MASSACHUSETTS MA100
CONNECTICUT PH-0567
NEW YORK ELAP 10899
OHIO (ENVIRO. LEAD) # 10005
NEW HAMPSHIRE 2516
AIHA ELLAP (LEAD) 6838
MAINE (POTABLE/NON-POTABLE)
VERMONT DOH (LEAD) No. 15036
RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document.

Edward Denson 6/3/97

SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director

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06/02/97

MARC RICHARDS
VANASSE HANGEN BRUSTLIN, INC.
101 WALNUT STREET
WATERTOWN, MA 02272

Purchase Order Number: 40163

Project Location: MIDDLETOWN, CT
Date Received: 05/21/97

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
SOOL BORING
B-15/07'-08'

	Units	97809377	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acetone	mg/kg	ND	05/30/97	WSD	0.080		
Acrolein	mg/kg	ND	05/30/97	WSD	0.100		
Acrylonitrile	mg/kg	ND	05/30/97	WSD	0.038		
Benzene	mg/kg	ND	05/30/97	WSD	0.003		
Bromodichloromethane	mg/kg	ND	05/30/97	WSD	0.002		
Bromomethane	mg/kg	ND	05/30/97	WSD	0.006		
Bromoform	mg/kg	ND	05/30/97	WSD	0.006		
2-Butanone (MEK)	mg/kg	ND	05/30/97	WSD	0.060		
Carbon Disulfide	mg/kg	ND	05/30/97	WSD	0.002		
Carbon Tetrachloride	mg/kg	ND	05/30/97	WSD	0.002		
Chlorobenzene	mg/kg	ND	05/30/97	WSD	0.003		
Chlorodibromomethane	mg/kg	ND	05/30/97	WSD	0.002		
Chloroethane	mg/kg	ND	05/30/97	WSD	0.004		
2-Chloroethylvinylether	mg/kg	ND	05/30/97	WSD	0.048		
Chloroform	mg/kg	ND	05/30/97	WSD	0.004		
Chloromethane	mg/kg	ND	05/30/97	WSD	0.006		
Dibromomethane	mg/kg	ND	05/30/97	WSD	0.006		
1,2-Dichlorobenzene	mg/kg	ND	05/30/97	WSD	0.004		
1,3-Dichlorobenzene	mg/kg	ND	05/30/97	WSD	0.003		
1,4-Dichlorobenzene	mg/kg	ND	05/30/97	WSD	0.004		
c-1,4-Dichloro-2-Butene	mg/kg	ND	05/30/97	WSD	0.012		
t-1,4-Dichloro-2-Butene	mg/kg	ND	05/30/97	WSD	0.010		
Dichlorodifluoromethane	mg/kg	ND	05/30/97	WSD	0.005		
1,1-Dichloroethane	mg/kg	ND	05/30/97	WSD	0.004		
1,2-Dichloroethane	mg/kg	ND	05/30/97	WSD	0.004		
1,1-Dichloroethylene	mg/kg	ND	05/30/97	WSD	0.003		
t-1,2-Dichloroethylene	mg/kg	ND	05/30/97	WSD	0.004		
1,2-Dichloropropane	mg/kg	ND	05/30/97	WSD	0.003		
cis-1,3-Dichloropropene	mg/kg	ND	05/30/97	WSD	0.002		
t-1,3-Dichloropropene	mg/kg	ND	05/30/97	WSD	0.002		
Ethyl Benzene	mg/kg	ND	05/30/97	WSD	0.003		
Ethyl Methacrylate	mg/kg	ND	05/30/97	WSD	0.004		

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
SOOL BORING
B-15/07'-08'

	Units	97B09377	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
-Hexanone	mg/kg	ND	05/30/97	WSD	0.048		
odomethane	mg/kg	ND	05/30/97	WSD	0.004		
Methyl tert-Butyl Ether (MTBE)	mg/kg	ND	05/30/97	WSD	0.004		
·lethylene Chloride	mg/kg	ND	05/30/97	WSD	0.015		
-Methyl-2-Pentanone (MIBK)	mg/kg	ND	05/30/97	WSD	0.044		
Styrene	mg/kg	ND	05/30/97	WSD	0.004		
1,1,2,2-Tetrachloroethane	mg/kg	ND	05/30/97	WSD	0.007		
Tetrachloroethylene	mg/kg	ND	05/30/97	WSD	0.002		
Toluene	mg/kg	ND	05/30/97	WSD	0.004		
1,1,1-Trichloroethane	mg/kg	ND	05/30/97	WSD	0.004		
1,1,2-Trichloroethane	mg/kg	ND	05/30/97	WSD	0.004		
Trichloroethylene	mg/kg	ND	05/30/97	WSD	0.005		
Trichlorofluoromethane	mg/kg	ND	05/30/97	WSD	0.004		
1,2,3-Trichloropropane	mg/kg	ND	05/30/97	WSD	0.006		
Vinyl Acetate	mg/kg	ND	05/30/97	WSD	0.082		
Vinyl Chloride	mg/kg	ND	05/30/97	WSD	0.002		
m-Xylene	mg/kg	ND	05/30/97	WSD	0.006		
o&p-Xylene	mg/kg	ND	05/30/97	WSD	0.002		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
SOOL BORING
B-18/05'-07'

	Units	97809379	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acetone	mg/kg	ND	05/30/97	WSD	6.44		
Acrolein	mg/kg	ND	05/30/97	WSD	8.00		
Acrylonitrile	mg/kg	ND	05/30/97	WSD	3.04		
Benzene	mg/kg	ND	05/30/97	WSD	0.240		
Bromodichloromethane	mg/kg	ND	05/30/97	WSD	0.160		
Bromomethane	mg/kg	ND	05/30/97	WSD	0.480		
Bromoform	mg/kg	ND	05/30/97	WSD	0.480		
2-Butanone (MEK)	mg/kg	ND	05/30/97	WSD	4.80		
Carbon Disulfide	mg/kg	ND	05/30/97	WSD	0.200		
Carbon Tetrachloride	mg/kg	ND	05/30/97	WSD	0.200		
Chlorobenzene	mg/kg	ND	05/30/97	WSD	0.240		
Chlorodibromomethane	mg/kg	ND	05/30/97	WSD	0.200		
Chloroethane	mg/kg	ND	05/30/97	WSD	0.320		
2-Chloroethylvinylether	mg/kg	ND	05/30/97	WSD	3.84		
Chloroform	mg/kg	ND	05/30/97	WSD	0.320		
Chloromethane	mg/kg	ND	05/30/97	WSD	0.480		
Dibromomethane	mg/kg	ND	05/30/97	WSD	0.440		
1,2-Dichlorobenzene	mg/kg	ND	05/30/97	WSD	0.320		
1,3-Dichlorobenzene	mg/kg	ND	05/30/97	WSD	0.240		
1,4-Dichlorobenzene	mg/kg	ND	05/30/97	WSD	0.320		
c-1,4-Dichloro-2-Butene	mg/kg	ND	05/30/97	WSD	0.960		
t-1,4-Dichloro-2-Butene	mg/kg	ND	05/30/97	WSD	0.840		
Dichlorodifluoromethane	mg/kg	ND	05/30/97	WSD	0.400		
1,1-Dichloroethane	mg/kg	ND	05/30/97	WSD	0.280		
1,2-Dichloroethane	mg/kg	ND	05/30/97	WSD	0.360		
1,1-Dichloroethylene	mg/kg	ND	05/30/97	WSD	0.240		
t-1,2-Dichloroethylene	mg/kg	ND	05/30/97	WSD	0.320		
1,2-Dichloropropane	mg/kg	ND	05/30/97	WSD	0.240		
cis-1,3-Dichloropropene	mg/kg	ND	05/30/97	WSD	0.200		
t-1,3-Dichloropropene	mg/kg	ND	05/30/97	WSD	0.160		
Ethyl Benzene	mg/kg	ND	05/30/97	WSD	0.240		
Ethyl Methacrylate	mg/kg	ND	05/30/97	WSD	0.320		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
SOOL BORING
8-18/05'-07'

	Units	97B09379	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
'-Hexanone	mg/kg	ND	05/30/97	WSD	3.88		
odomethane	mg/kg	ND	05/30/97	WSD	0.320		
Methyl tert-Butyl Ether (MTBE)	mg/kg	ND	05/30/97	WSD	0.320		
Methylene Chloride	mg/kg	BDL	05/30/97	WSD	1.20		
-Methyl-2-Pentanone (MIBK)	mg/kg	ND	05/30/97	WSD	3.52		
Styrene	mg/kg	ND	05/30/97	WSD	0.280		
1,1,2,2-Tetrachloroethane	mg/kg	ND	05/30/97	WSD	0.560		
Tetrachloroethylene	mg/kg	ND	05/30/97	WSD	0.160		
Toluene	mg/kg	ND	05/30/97	WSD	0.280		
1,1,1-Trichloroethane	mg/kg	ND	05/30/97	WSD	0.360		
1,1,2-Trichloroethane	mg/kg	ND	05/30/97	WSD	0.280		
Trichloroethylene	mg/kg	ND	05/30/97	WSD	0.400		
Trichlorofluoromethane	mg/kg	ND	05/30/97	WSD	0.280		
1,2,3-Trichloropropane	mg/kg	ND	05/30/97	WSD	0.520		
Vinyl Acetate	mg/kg	ND	05/30/97	WSD	6.56		
Vinyl Chloride	mg/kg	ND	05/30/97	WSD	0.120		
m-Xylene	mg/kg	ND	05/30/97	WSD	0.520		
o&p-Xylene	mg/kg	ND	05/30/97	WSD	0.200		

Analytical Method(s):

SW846 8240

SAMPLES ARE CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
SOOL BORING
B-16/05'-06'

	Units	97809378	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	mg/kg	ND	05/27/97	WSD	0.33		
Acenaphthylene	mg/kg	ND	05/27/97	WSD	0.33		
Aniline	mg/kg	ND	05/27/97	WSD	0.33		
Anthracene	mg/kg	ND	05/27/97	WSD	0.33		
Benzidene	mg/kg	ND	05/27/97	WSD	2.33		
Benzoic Acid	mg/kg	ND	05/27/97	WSD	1.00		
Benzo(a)anthracene	mg/kg	BDL	05/27/97	WSD	0.33		
Benzo(a)pyrene	mg/kg	ND	05/27/97	WSD	0.67		
Benzo(b)fluoranthene	mg/kg	ND	05/27/97	WSD	0.33		
Benzo(g,h,i)perylene	mg/kg	ND	05/27/97	WSD	1.00		
Benzo(k)fluoranthene	mg/kg	ND	05/27/97	WSD	0.67		
Benzyl Alcohol	mg/kg	ND	05/27/97	WSD	0.67		
Bis(2-chloroethoxy)methane	mg/kg	ND	05/27/97	WSD	0.33		
Bis(2-chloroethyl)ether	mg/kg	ND	05/27/97	WSD	0.33		
Bis(2-chloroisopropyl)ether	mg/kg	ND	05/27/97	WSD	0.33		
Bis(2-ethylhexyl)phthalate	mg/kg	BDL	05/27/97	WSD	0.33		
4-Bromophenylphenylether	mg/kg	ND	05/27/97	WSD	0.33		
Butylbenzylphthalate	mg/kg	BDL	05/27/97	WSD	0.67		
4-Chloroaniline	mg/kg	ND	05/27/97	WSD	0.67		
2-Chloronaphthalene	mg/kg	ND	05/27/97	WSD	0.33		
4-Chlorophenylphenylether	mg/kg	ND	05/27/97	WSD	0.33		
Chrysene	mg/kg	BDL	05/27/97	WSD	0.67		
Dibenzofuran	mg/kg	ND	05/27/97	WSD	0.33		
Dibenz(a,h)anthracene	mg/kg	ND	05/27/97	WSD	0.67		
1,2-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
1,3-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
1,4-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
3,3'-Dichlorobenzidine	mg/kg	ND	05/27/97	WSD	0.67		
Diethylphthalate	mg/kg	BDL	05/27/97	WSD	0.33		
Dimethylphthalate	mg/kg	ND	05/27/97	WSD	0.67		
Di-n-butylphthalate	mg/kg	BDL	05/27/97	WSD	0.33		
Di-n-octylphthalate	mg/kg	BDL	05/27/97	WSD	0.67		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
SOOL BORING
B-16/05'-06'

	Units	97809378	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-Dinitrotoluene	mg/kg	ND	05/27/97	WSD	0.33		
2,6-Dinitrotoluene	mg/kg	ND	05/27/97	WSD	0.33		
1,2-Diphenylhydrazine	mg/kg	ND	05/27/97	WSD	0.33		
Fluoranthene	mg/kg	BDL	05/27/97	WSD	0.33		
Fluorene	mg/kg	ND	05/27/97	WSD	0.33		
Hexachlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
Hexachlorobutadiene	mg/kg	ND	05/27/97	WSD	0.33		
Hexachlorocyclopentadiene	mg/kg	ND	05/27/97	WSD	0.33		
Hexachloroethane	mg/kg	ND	05/27/97	WSD	0.33		
Indeno(1,2,3-cd)pyrene	mg/kg	ND	05/27/97	WSD	0.33		
Isophorone	mg/kg	ND	05/27/97	WSD	0.33		
2-Methylnaphthalene	mg/kg	ND	05/27/97	WSD	0.33		
Naphthalene	mg/kg	ND	05/27/97	WSD	0.33		
2-Nitroaniline	mg/kg	ND	05/27/97	WSD	0.33		
3-Nitroaniline	mg/kg	ND	05/27/97	WSD	0.33		
4-Nitroaniline	mg/kg	ND	05/27/97	WSD	0.33		
Nitrobenzene	mg/kg	ND	05/27/97	WSD	0.33		
N-Nitrosodimethylamine	mg/kg	ND	05/27/97	WSD	0.33		
N-Nitrosodiphenylamine	mg/kg	ND	05/27/97	WSD	0.33		
N-Nitroso-di-n-propylamine	mg/kg	ND	05/27/97	WSD	0.33		
Phenanthrene	mg/kg	BDL	05/27/97	WSD	0.33		
Pyrene	mg/kg	BDL	05/27/97	WSD	1.00		
Pyridine	mg/kg	ND	05/27/97	WSD	0.33		
1,2,4-Trichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
SOOL BORING
B-18/05'-07'

	Units	97B09379	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	mg/kg	0.64	05/27/97	WSD	0.33		
Acenaphthylene	mg/kg	ND	05/27/97	WSD	0.33		
Aniline	mg/kg	ND	05/27/97	WSD	0.33		
Anthracene	mg/kg	BDL	05/27/97	WSD	0.33		
Benzidene	mg/kg	ND	05/27/97	WSD	2.33		
Benzoic Acid	mg/kg	ND	05/27/97	WSD	1.00		
Benzo(a)anthracene	mg/kg	BDL	05/27/97	WSD	0.33		
Benzo(a)pyrene	mg/kg	BDL	05/27/97	WSD	0.67		
Benzo(b)fluoranthene	mg/kg	BDL	05/27/97	WSD	0.33		
Benzo(g,h,i)perylene	mg/kg	ND	05/27/97	WSD	1.00		
Benzo(k)fluoranthene	mg/kg	BDL	05/27/97	WSD	0.67		
Benzyl Alcohol	mg/kg	ND	05/27/97	WSD	0.67		
Bis(2-chloroethoxy)methane	mg/kg	ND	05/27/97	WSD	0.33		
Bis(2-chloroethyl)ether	mg/kg	BDL	05/27/97	WSD	0.33		
Bis(2-chloroisopropyl)ether	mg/kg	ND	05/27/97	WSD	0.33		
Bis(2-ethylhexyl)phthalate	mg/kg	BDL	05/27/97	WSD	0.33		
4-Bromophenylphenylether	mg/kg	ND	05/27/97	WSD	0.33		
Butylbenzylphthalate	mg/kg	BDL	05/27/97	WSD	0.67		
4-Chloroaniline	mg/kg	ND	05/27/97	WSD	0.67		
2-Chloronaphthalene	mg/kg	ND	05/27/97	WSD	0.33		
4-Chlorophenylphenylether	mg/kg	ND	05/27/97	WSD	0.33		
Chrysene	mg/kg	BDL	05/27/97	WSD	0.67		
Dibenzofuran	mg/kg	ND	05/27/97	WSD	0.33		
Dibenz(a,h)anthracene	mg/kg	ND	05/27/97	WSD	0.67		
1,2-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
1,3-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
1,4-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
3,3'-Dichlorobenzidine	mg/kg	ND	05/27/97	WSD	0.67		
Diethylphthalate	mg/kg	BDL	05/27/97	WSD	0.33		
Dimethylphthalate	mg/kg	BDL	05/27/97	WSD	0.67		
Di-n-butylphthalate	mg/kg	BDL	05/27/97	WSD	0.33		
Di-n-octylphthalate	mg/kg	BDL	05/27/97	WSD	0.67		

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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39 Spruce Street • 2nd Floor • East Longmeadow, MA 01028 • FAX 413/525-6405 • TEL. 413/525-2332

Purchase Order Number: 40163

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
SOOL BORING
B-18/05'-07'

	Units	97809379	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-Dinitrotoluene	mg/kg	ND	05/27/97	WSD	0.33		
2,6-Dinitrotoluene	mg/kg	ND	05/27/97	WSD	0.33		
1,2-Diphenylhydrazine	mg/kg	ND	05/27/97	WSD	0.33		
Fluoranthene	mg/kg	BDL	05/27/97	WSD	0.33		
Fluorene	mg/kg	2.11	05/27/97	WSD	0.33		
Hexachlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
Hexachlorobutadiene	mg/kg	ND	05/27/97	WSD	0.33		
Hexachlorocyclopentadiene	mg/kg	ND	05/27/97	WSD	0.33		
Hexachloroethane	mg/kg	ND	05/27/97	WSD	0.33		
Indeno(1,2,3-cd)pyrene	mg/kg	ND	05/27/97	WSD	0.33		
Isophorone	mg/kg	ND	05/27/97	WSD	0.33		
2-Methylnaphthalene	mg/kg	BDL	05/27/97	WSD	0.33		
Naphthalene	mg/kg	BDL	05/27/97	WSD	0.33		
2-Nitroaniline	mg/kg	ND	05/27/97	WSD	0.33		
3-Nitroaniline	mg/kg	BDL	05/27/97	WSD	0.33		
4-Nitroaniline	mg/kg	ND	05/27/97	WSD	0.33		
Nitrobenzene	mg/kg	ND	05/27/97	WSD	0.33		
N-Nitrosodimethylamine	mg/kg	ND	05/27/97	WSD	0.33		
N-Nitrosodiphenylamine	mg/kg	ND	05/27/97	WSD	0.33		
N-Nitroso-di-n-propylamine	mg/kg	ND	05/27/97	WSD	0.33		
Phenanthrene	mg/kg	2.17	05/27/97	WSD	0.33		
Pyrene	mg/kg	BDL	05/27/97	WSD	1.00		
Pyridine	mg/kg	ND	05/27/97	WSD	0.33		
1,2,4-Trichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
HAND AUGER
SUR-01

	Units	97B09375	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	mg/kg	ND	05/27/97	WSD	10.0		
Acenaphthylene	mg/kg	ND	05/27/97	WSD	10.0		
Aniline	mg/kg	ND	05/27/97	WSD	10.0		
Anthracene	mg/kg	BDL	05/27/97	WSD	10.0		
Benzidene	mg/kg	ND	05/27/97	WSD	70.0		
Benzoic Acid	mg/kg	ND	05/27/97	WSD	30.0		
Benzo(a)anthracene	mg/kg	BDL	05/27/97	WSD	10.0		
Benzo(a)pyrene	mg/kg	BDL	05/27/97	WSD	20.0		
Benzo(b)fluoranthene	mg/kg	10.4	05/27/97	WSD	10.0		
Benzo(g,h,i)perylene	mg/kg	ND	05/27/97	WSD	30.0		
Benzo(k)fluoranthene	mg/kg	BDL	05/27/97	WSD	20.0		
Benzyl Alcohol	mg/kg	ND	05/27/97	WSD	20.0		
Bis(2-chloroethoxy)methane	mg/kg	ND	05/27/97	WSD	10.0		
Bis(2-chloroethyl)ether	mg/kg	ND	05/27/97	WSD	10.0		
Bis(2-chloroisopropyl)ether	mg/kg	ND	05/27/97	WSD	10.0		
Bis(2-ethylhexyl)phthalate	mg/kg	BDL	05/27/97	WSD	10.0		
4-Bromophenylphenylether	mg/kg	ND	05/27/97	WSD	10.0		
Butylbenzylphthalate	mg/kg	ND	05/27/97	WSD	20.0		
4-Chloroaniline	mg/kg	ND	05/27/97	WSD	20.0		
2-Chloronaphthalene	mg/kg	ND	05/27/97	WSD	10.0		
4-Chlorophenylphenylether	mg/kg	ND	05/27/97	WSD	10.0		
Chrysene	mg/kg	BDL	05/27/97	WSD	20.0		
Dibenzofuran	mg/kg	ND	05/27/97	WSD	10.0		
Dibenz(a,h)anthracene	mg/kg	ND	05/27/97	WSD	20.0		
1,2-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	10.0		
1,3-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	10.0		
1,4-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	10.0		
3,3'-Dichlorobenzidine	mg/kg	ND	05/27/97	WSD	20.0		
Diethylphthalate	mg/kg	ND	05/27/97	WSD	10.0		
Dimethylphthalate	mg/kg	ND	05/27/97	WSD	20.0		
Di-n-butylphthalate	mg/kg	BDL	05/27/97	WSD	10.0		
Di-n-octylphthalate	mg/kg	ND	05/27/97	WSD	20.0		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
HAND AUGER
SUR-01

	Units	97B09375	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-Dinitrotoluene	mg/kg	ND	05/27/97	WSD	10.0		
2,6-Dinitrotoluene	mg/kg	ND	05/27/97	WSD	10.0		
1,2-Diphenylhydrazine	mg/kg	ND	05/27/97	WSD	10.0		
Fluoranthene	mg/kg	13.5	05/27/97	WSD	10.0		
Fluorene	mg/kg	ND	05/27/97	WSD	10.0		
Hexachlorobenzene	mg/kg	ND	05/27/97	WSD	10.0		
Hexachlorobutadiene	mg/kg	ND	05/27/97	WSD	10.0		
Hexachlorocyclopentadiene	mg/kg	ND	05/27/97	WSD	10.0		
Hexachloroethane	mg/kg	ND	05/27/97	WSD	10.0		
Indeno(1,2,3-cd)pyrene	mg/kg	ND	05/27/97	WSD	10.0		
Isophorone	mg/kg	ND	05/27/97	WSD	10.0		
2-Methylnaphthalene	mg/kg	ND	05/27/97	WSD	10.0		
Naphthalene	mg/kg	ND	05/27/97	WSD	10.0		
2-Nitroaniline	mg/kg	ND	05/27/97	WSD	10.0		
3-Nitroaniline	mg/kg	ND	05/27/97	WSD	10.0		
4-Nitroaniline	mg/kg	ND	05/27/97	WSD	10.0		
Nitrobenzene	mg/kg	ND	05/27/97	WSD	10.0		
N-Nitrosodimethylamine	mg/kg	ND	05/27/97	WSD	10.0		
N-Nitrosodiphenylamine	mg/kg	ND	05/27/97	WSD	10.0		
N-Nitroso-di-n-propylamine	mg/kg	ND	05/27/97	WSD	10.0		
Phenanthrene	mg/kg	BDL	05/27/97	WSD	10.0		
Pyrene	mg/kg	BDL	05/27/97	WSD	30.0		
Pyridine	mg/kg	ND	05/27/97	WSD	10.0		
1,2,4-Trichlorobenzene	mg/kg	ND	05/27/97	WSD	10.0		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
HAND AUGER
SUR-02

	Units	97B09376	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	mg/kg	BDL	05/27/97	WSD	0.33		
Acenaphthylene	mg/kg	1.36	05/27/97	WSD	0.33		
Aniline	mg/kg	ND	05/27/97	WSD	0.33		
Anthracene	mg/kg	2.18	05/27/97	WSD	0.33		
Benzidene	mg/kg	BDL	05/27/97	WSD	2.33		
Benzoic Acid	mg/kg	ND	05/27/97	WSD	1.00		
Benzo(a)anthracene	mg/kg	11.7	05/27/97	WSD	0.33		
Benzo(a)pyrene	mg/kg	14.3	05/27/97	WSD	0.67		
Benzo(b)fluoranthene	mg/kg	15.0	05/27/97	WSD	0.33		
Benzo(g,h,i)perylene	mg/kg	6.67	05/27/97	WSD	1.00		
Benzo(k)fluoranthene	mg/kg	13.1	05/27/97	WSD	0.67		
Benzyl Alcohol	mg/kg	ND	05/27/97	WSD	0.67		
Bis(2-chloroethoxy)methane	mg/kg	ND	05/27/97	WSD	0.33		
Bis(2-chloroethyl)ether	mg/kg	ND	05/27/97	WSD	0.33		
Bis(2-chloroisopropyl)ether	mg/kg	ND	05/27/97	WSD	0.33		
Bis(2-ethylhexyl)phthalate	mg/kg	BDL	05/27/97	WSD	0.33		
4-Bromophenylphenylether	mg/kg	ND	05/27/97	WSD	0.33		
Butylbenzylphthalate	mg/kg	BDL	05/27/97	WSD	0.67		
4-Chloroaniline	mg/kg	ND	05/27/97	WSD	0.67		
2-Chloronaphthalene	mg/kg	ND	05/27/97	WSD	0.33		
4-Chlorophenylphenylether	mg/kg	ND	05/27/97	WSD	0.33		
Chrysene	mg/kg	14.7	05/27/97	WSD	0.67		
Dibenzofuran	mg/kg	0.37	05/27/97	WSD	0.33		
Dibenz(a,h)anthracene	mg/kg	1.83	05/27/97	WSD	0.67		
1,2-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
1,3-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
1,4-Dichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
3,3'-Dichlorobenzidine	mg/kg	ND	05/27/97	WSD	0.67		
Diethylphthalate	mg/kg	ND	05/27/97	WSD	0.33		
Dimethylphthalate	mg/kg	ND	05/27/97	WSD	0.67		
Di-n-butylphthalate	mg/kg	BDL	05/27/97	WSD	0.33		
Di-n-octylphthalate	mg/kg	ND	05/27/97	WSD	0.67		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
HAND AUGER
SUR-02

	Units	97B09376	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-Dinitrotoluene	mg/kg	ND	05/27/97	WSD	0.33		
2,6-Dinitrotoluene	mg/kg	ND	05/27/97	WSD	0.33		
1,2-Diphenylhydrazine	mg/kg	ND	05/27/97	WSD	0.33		
Fluoranthene	mg/kg	21.3	05/27/97	WSD	0.33		
Fluorene	mg/kg	0.56	05/27/97	WSD	0.33		
Hexachlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		
Hexachlorobutadiene	mg/kg	ND	05/27/97	WSD	0.33		
Hexachlorocyclopentadiene	mg/kg	ND	05/27/97	WSD	0.33		
Hexachloroethane	mg/kg	ND	05/27/97	WSD	0.33		
Indeno(1,2,3-cd)pyrene	mg/kg	10.0	05/27/97	WSD	0.33		
Isophorone	mg/kg	ND	05/27/97	WSD	0.33		
2-Methylnaphthalene	mg/kg	BDL	05/27/97	WSD	0.33		
Naphthalene	mg/kg	BDL	05/27/97	WSD	0.33		
2-Nitroaniline	mg/kg	ND	05/27/97	WSD	0.33		
3-Nitroaniline	mg/kg	ND	05/27/97	WSD	0.33		
4-Nitroaniline	mg/kg	ND	05/27/97	WSD	0.33		
Nitrobenzene	mg/kg	ND	05/27/97	WSD	0.33		
N-Nitrosodimethylamine	mg/kg	ND	05/27/97	WSD	0.33		
N-Nitrosodiphenylamine	mg/kg	ND	05/27/97	WSD	0.33		
N-Nitroso-di-n-propylamine	mg/kg	ND	05/27/97	WSD	0.33		
Phenanthrene	mg/kg	9.57	05/27/97	WSD	0.33		
Pyrene	mg/kg	25.1	05/27/97	WSD	1.00		
Pyridine	mg/kg	ND	05/27/97	WSD	0.33		
1,2,4-Trichlorobenzene	mg/kg	ND	05/27/97	WSD	0.33		

Analytical Method(s):

SW846 8270

SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
SOOL BORING
B-16/05'-06'

	Units	97B09378	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	mg/kg	ND	05/27/97	WSD	0.67		
2-Chlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4-Dichlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4-Dimethylphenol	mg/kg	ND	05/27/97	WSD	1.33		
4,6-Dinitro-2-methylphenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4-Dinitrophenol	mg/kg	ND	05/27/97	WSD	0.33		
2-Methylphenol (o-cresol)	mg/kg	ND	05/27/97	WSD	0.33		
3- & 4-Methylphenol (m&p-cresol)	mg/kg	ND	05/27/97	WSD	0.33		
2-Nitrophenol	mg/kg	ND	05/27/97	WSD	0.33		
4-Nitrophenol	mg/kg	ND	05/27/97	WSD	0.33		
Pentachlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
Phenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4,5-Trichlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4,6-Trichlorophenol	mg/kg	ND	05/27/97	WSD	0.33		

Sampled: 05/21/97
SOOL BORING
B-18/05'-07'

	Units	97B09379	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	mg/kg	BDL	05/27/97	WSD	0.67		
2-Chlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4-Dichlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4-Dimethylphenol	mg/kg	ND	05/27/97	WSD	1.33		
4,6-Dinitro-2-methylphenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4-Dinitrophenol	mg/kg	ND	05/27/97	WSD	0.33		
2-Methylphenol (o-cresol)	mg/kg	ND	05/27/97	WSD	0.33		
3- & 4-Methylphenol (m&p-cresol)	mg/kg	ND	05/27/97	WSD	0.33		
2-Nitrophenol	mg/kg	ND	05/27/97	WSD	0.33		
4-Nitrophenol	mg/kg	ND	05/27/97	WSD	0.33		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
SOOL BORING
B-18/05'-07'

	Units	97809379	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Pentachlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
Phenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4,5-Trichlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4,6-Trichlorophenol	mg/kg	ND	05/27/97	WSD	0.33		

Sampled: 05/21/97
HAND AUGER
SUR-01

	Units	97809375	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	mg/kg	ND	05/27/97	WSD	20.0		
2-Chlorophenol	mg/kg	ND	05/27/97	WSD	10.0		
2,4-Dichlorophenol	mg/kg	ND	05/27/97	WSD	10.0		
2,4-Dimethylphenol	mg/kg	ND	05/27/97	WSD	40.0		
4,6-Dinitro-2-methylphenol	mg/kg	ND	05/27/97	WSD	10.0		
2,4-Dinitrophenol	mg/kg	ND	05/27/97	WSD	10.0		
2-Methylphenol (o-cresol)	mg/kg	ND	05/27/97	WSD	10.0		
3- & 4-Methylphenol (m&p-cresol)	mg/kg	ND	05/27/97	WSD	10.0		
2-Nitrophenol	mg/kg	ND	05/27/97	WSD	10.0		
4-Nitrophenol	mg/kg	ND	05/27/97	WSD	10.0		
Pentachlorophenol	mg/kg	ND	05/27/97	WSD	10.0		
Phenol	mg/kg	ND	05/27/97	WSD	10.0		
2,4,5-Trichlorophenol	mg/kg	ND	05/27/97	WSD	10.0		
2,4,6-Trichlorophenol	mg/kg	ND	05/27/97	WSD	10.0		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
HAND AUGER
SUR-02

	Units	97809376	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	mg/kg	ND	05/27/97	WSD	0.67		
2-Chlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4-Dichlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4-Dimethylphenol	mg/kg	ND	05/27/97	WSD	1.33		
4,6-Dinitro-2-methylphenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4-Dinitrophenol	mg/kg	ND	05/27/97	WSD	0.33		
2-Methylphenol (o-cresol)	mg/kg	ND	05/27/97	WSD	0.33		
3- & 4-Methylphenol (m&p-cresol)	mg/kg	ND	05/27/97	WSD	0.33		
2-Nitrophenol	mg/kg	ND	05/27/97	WSD	0.33		
4-Nitrophenol	mg/kg	ND	05/27/97	WSD	0.33		
Pentachlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
Phenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4,5-Trichlorophenol	mg/kg	ND	05/27/97	WSD	0.33		
2,4,6-Trichlorophenol	mg/kg	ND	05/27/97	WSD	0.33		

Analytical Method(s):

SW846 8270

SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
SOOL BORING
B-18/05'-07'

	Units	97809379	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	mg/kg	ND	05/28/97	KLF	2.50		
Arsenic	mg/kg	ND	05/28/97	KLF	5.00		
Beryllium	mg/kg	0.42	05/28/97	KLF	0.10		
Cadmium	mg/kg	0.06	05/28/97	KLF	0.05		
Chromium	mg/kg	10.9	05/28/97	KLF	0.35		
Copper	mg/kg	13.0	05/28/97	KLF	0.10		
Lead	mg/kg	7.51	05/28/97	KLF	2.50	1000	P
Mercury	mg/kg	ND	05/28/97	APP	0.020		
Nickel	mg/kg	12.5	05/28/97	KLF	0.25		
Selenium	mg/kg	6.07	05/28/97	KLF	5.00		
Silver	mg/kg	ND	05/28/97	KLF	0.50		
Thallium	mg/kg	ND	05/28/97	KLF	10.0		
Zinc	mg/kg	27.5	05/28/97	KLF	0.50		

Sampled: 05/21/97
HAND AUGER
SUR-01

	Units	97809375	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	mg/kg	ND	05/28/97	KLF	2.50		
Arsenic	mg/kg	10.4	05/28/97	KLF	5.00		
Beryllium	mg/kg	0.36	05/28/97	KLF	0.10		
Cadmium	mg/kg	0.98	05/28/97	KLF	0.05		
Chromium	mg/kg	45.8	05/28/97	KLF	0.35		
Copper	mg/kg	2400	05/28/97	KLF	0.10		
Lead	mg/kg	266	05/28/97	KLF	2.50	1000	P
Mercury	mg/kg	0.073	05/28/97	APP	0.020		
Nickel	mg/kg	37.0	05/28/97	KLF	0.25		
Selenium	mg/kg	9.34	05/28/97	KLF	5.00		
Silver	mg/kg	ND	05/28/97	KLF	0.50		

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
HAND AUGER
SUR-01

	Units	97B09375	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Thallium	mg/kg	ND	05/28/97	KLF	10.0		
Zinc	mg/kg	944	05/28/97	KLF	0.50		

Sampled: 05/21/97
HAND AUGER
SUR-02

	Units	97B09376	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	mg/kg	ND	05/28/97	KLF	12.5		
Arsenic	mg/kg	18.0	05/28/97	KLF	5.00		
Beryllium	mg/kg	0.47	05/28/97	KLF	0.10		
Cadmium	mg/kg	0.45	05/28/97	KLF	0.05		
Chromium	mg/kg	118	05/28/97	KLF	0.35		
Copper	mg/kg	506	05/28/97	KLF	0.10		
Lead	mg/kg	132	05/28/97	KLF	2.50	1000	P
Mercury	mg/kg	0.270	05/28/97	APP	0.020		
Nickel	mg/kg	84.2	05/28/97	KLF	0.25		
Selenium	mg/kg	15.3	05/28/97	KLF	5.00		
Silver	mg/kg	ND	05/28/97	KLF	2.5		
Thallium	mg/kg	ND	05/28/97	KLF	10.0		
Zinc	mg/kg	127	05/28/97	KLF	0.50		

Analytical Method(s):

Antimony
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

MDL = Method Detection Limit
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SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Arsenic
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Beryllium
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Cadmium
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Chromium
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Copper
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Lead
SW846 3050/6010

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SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Mercury
SW846 3050/7471

SAMPLES ARE DIGESTED WITH ACIDS AND THEN ANALYZED BY
COLD VAPOR (FLAMELESS) ATOMIC ABSORPTION SPECTROPHOTOMETRY
Nickel
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Selenium
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Silver
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Thallium
SW846 3050/6010

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NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.
Zinc
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

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BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
HAND AUGER
SUR-01

	Units	97B09375	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
PCB 1221	mg/kg	ND	05/28/97	JB			
PCB 1232	mg/kg	ND	05/28/97	JB			
PCB 1242/1016	mg/kg	ND	05/28/97	JB			
PCB 1248	mg/kg	ND	05/28/97	JB			
PCB 1254	mg/kg	ND	05/28/97	JB			
PCB 1260	mg/kg	ND	05/28/97	JB			
Total PCB	mg/kg	ND	05/28/97	JB	0.500		

Sampled: 05/21/97
HAND AUGER
SUR-02

	Units	97B09376	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
PCB 1221	mg/kg	ND	05/28/97	JB			
PCB 1232	mg/kg	ND	05/28/97	JB			
PCB 1242/1016	mg/kg	ND	05/28/97	JB			
PCB 1248	mg/kg	ND	05/28/97	JB			
PCB 1254	mg/kg	ND	05/28/97	JB			
PCB 1260	mg/kg	ND	05/28/97	JB			
Total PCB	mg/kg	ND	05/28/97	JB	0.500		

Analytical Method(s):

SW846 8080

SAMPLES ARE EXTRACTED INTO HEXANE AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION.

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SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
SOOL BORING
B-15/07'-08'

	Units	97B09377	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	BDL	05/27/97	AC	20.1		

Sampled: 05/21/97
SOOL BORING
B-16/05'-06'

	Units	97B09378	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	29.0	05/27/97	AC	20.0		

Sampled: 05/21/97
SOOL BORING
B-18/05'-07'

	Units	97B09379	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	5200	05/27/97	AC	19.7		

Sampled: 05/21/97
HAND AUGER
SUR-01

	Units	97B09375	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	1330	05/27/97	AC	20.2		

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NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163

LIMS-BAT #: LIMS-29711
Job Number: 29711
Sample Matrix: SOIL

Sampled: 05/21/97
HAND AUGER
SUR-02

	Units	97B09376	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	147	05/27/97	AC	19.3		

Analytical Method(s):

MODIFIED EPA 418.1

INFRA-RED DETERMINATION FOLLOWING EXTRACTION OF HYDROCARBONS INTO 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)

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The following notes were attached to the reported analysis:

Sample: 97B09379

Analysis: Acetone
ELEVATED LIMITS OF DETECTION DUE TO SAMPLE MATRIX.

Sample: 97B09375

ELEVATED LIMITS OF DETECTION DUE TO SAMPLE MATRIX INTERFERENCES.

Sample: 97B09376

Analysis: Antimony
ELEVATED METHOD DETECTION LIMIT DUE TO MATRIX INTERFERENCES.

Sample: 97B09376

Analysis: Silver
ELEVATED METHOD DETECTION LIMIT DUE TO MATRIX INTERFERENCES.

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BDL = Below Detection Limit
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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 06/02/97 | Lims Bat #: LIMS-29711 |

QC Batch Number: GC/ECD-1291

Sample Id	Analysis	QC Analysis	Values	Units	Limits
97809375	PCB 1232	Sample Amount	0.000	mg/kg	
		Duplicate Value	0.000	mg/kg	
	PCB 1242/1016	Sample Amount	0.000	mg/kg	
		Duplicate Value	0.000	mg/kg	
	PCB 1254	Sample Amount	0.000	mg/kg	
		Duplicate Value	0.000	mg/kg	
	PCB 1260	Sample Amount	0.000	mg/kg	
		Duplicate Value	0.000	mg/kg	
	PCB 1248	Sample Amount	0.000	mg/kg	
		Duplicate Value	0.000	mg/kg	
	PCB 1221	Sample Amount	0.000	mg/kg	
		Duplicate Value	0.000	mg/kg	
	Total PCB	Sample Amount	<0.500	mg/kg	
		Duplicate Value	<0.500	mg/kg	
	Dibutylchlorendate (	Sample Amount	72.0	%	
		Duplicate Value	82.0	%	
		Duplicate RPD	13.0	%	
97809376	PCB 1242/1016	Sample Amount	0.000	mg/kg	
		Matrix Spk Amt Added	24.600	mg/kg	
		MS Amt Measured	19.987	mg/kg	
		Matrix Spike % Rec.	81.248	%	
	Total PCB	Sample Amount	<0.500	mg/kg	
		Matrix Spk Amt Added	24.600	mg/kg	
		MS Amt Measured	19.987	mg/kg	
		Matrix Spike % Rec.	81.248	%	
BLANK-07941	PCB 1232	Blank	0.000	mg/kg	
	PCB 1242/1016	Blank	0.000	mg/kg	
	PCB 1254	Blank	0.000	mg/kg	
	PCB 1260	Blank	0.000	mg/kg	
	PCB 1248	Blank	0.000	mg/kg	
	PCB 1221	Blank	0.000	mg/kg	
	Total PCB	Blank	<0.025	mg/kg	
	Dibutylchlorendate (	Blank	106.5	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/SEMI-0741

Sample Id	Analysis	QC Analysis	Values	Units	Limits
97809375	Phenol - D6 mg/kg re	Surrogate Recovery	86.4	%	24.0-113.0
	Nitrobenzene - D5 mg	Surrogate Recovery	76.7	%	23.0-120.0
	2-Fluorobipheny mg/k	Surrogate Recovery	86.0	%	25.0-121.0
	2,4,6-Tribromophenol	Surrogate Recovery	79.8	%	19.0-122.0
	Terphenyl - D14 mg/k	Surrogate Recovery	105.8	%	18.0-137.0
	2-Fluorophenol mg/kg	Surrogate Recovery	85.2	%	30.0-115.0
97809376	Phenol - D6 mg/kg re	Surrogate Recovery	102.2	%	24.0-113.0
	Nitrobenzene - D5 mg	Surrogate Recovery	98.2	%	23.0-120.0
	2-Fluorobipheny mg/k	Surrogate Recovery	104.6	%	25.0-121.0
	2,4,6-Tribromophenol	Surrogate Recovery	90.2	%	19.0-122.0
	Terphenyl - D14 mg/k	Surrogate Recovery	101.6	%	18.0-137.0
	2-Fluorophenol mg/kg	Surrogate Recovery	103.3	%	30.0-115.0
97809378	Phenol - D6 mg/kg re	Surrogate Recovery	87.9	%	24.0-113.0
	Nitrobenzene - D5 mg	Surrogate Recovery	75.7	%	23.0-120.0
	2-Fluorobipheny mg/k	Surrogate Recovery	79.9	%	25.0-121.0
	2,4,6-Tribromophenol	Surrogate Recovery	80.5	%	19.0-122.0
	Terphenyl - D14 mg/k	Surrogate Recovery	89.9	%	18.0-137.0
	2-Fluorophenol mg/kg	Surrogate Recovery	83.0	%	30.0-115.0
97809379	Phenol - D6 mg/kg re	Surrogate Recovery	105.9	%	24.0-113.0
	Nitrobenzene - D5 mg	Surrogate Recovery	118.8	%	23.0-120.0
	2-Fluorobipheny mg/k	Surrogate Recovery	103.5	%	25.0-121.0
	2,4,6-Tribromophenol	Surrogate Recovery	87.7	%	19.0-122.0
	Terphenyl - D14 mg/k	Surrogate Recovery	90.7	%	18.0-137.0
	2-Fluorophenol mg/kg	Surrogate Recovery	101.0	%	30.0-115.0
BLANK-08012	1,4-Dichlorobenzene	Blank	<0.33	mg/kg	
	Naphthalene	Blank	<0.33	mg/kg	
	1,2-Dichlorobenzene	Blank	<0.33	mg/kg	
	1,3-Dichlorobenzene	Blank	<0.33	mg/kg	
	Acenaphthene	Blank	<0.33	mg/kg	
	Acenaphthylene	Blank	<0.33	mg/kg	
	Aniline	Blank	<0.33	mg/kg	
	Anthracene	Blank	<0.33	mg/kg	
	Benzidene	Blank	<2.33	mg/kg	
	Benzo(a)anthracene	Blank	<0.33	mg/kg	
	Benzo(a)pyrene	Blank	<0.67	mg/kg	
	Benzo(b)fluoranthene	Blank	<0.33	mg/kg	
	Benzo(g,h,i)perylene	Blank	<1.00	mg/kg	
	Benzoic Acid	Blank	<1.00	mg/kg	
	Benzyl Alcohol	Blank	<0.67	mg/kg	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 06/02/97 Lims Bat #: LIMS-29711

QC Batch Number: GCMS/SEMI-0741

Sample Id	Analysis	QC Analysis	Values	Units	Limits
	Bis(2-chloroethyl)et	Blank	<0.33	mg/kg	
	Bis(2-chloroethoxy)m	Blank	<0.33	mg/kg	
	Bis(2-chloroisopropy	Blank	<0.33	mg/kg	
	Bis(2-ethylhexyl)pht	Blank	<0.33	mg/kg	
	4-Bromophenylphenyle	Blank	<0.33	mg/kg	
	Butylbenzylphthalate	Blank	<0.67	mg/kg	
	4-Chloroaniline	Blank	<0.67	mg/kg	
	2-Chloronaphthalene	Blank	<0.33	mg/kg	
	4-Chlorophenylphenyl	Blank	<0.33	mg/kg	
	Chrysene	Blank	<0.67	mg/kg	
	Dibenz(a,h)anthracen	Blank	<0.67	mg/kg	
	Dibenzofuran	Blank	<0.33	mg/kg	
	3,3'-Dichlorobenzidi	Blank	<0.67	mg/kg	
	Diethylphthalate	Blank	<0.33	mg/kg	
	Dimethylphthalate	Blank	<0.67	mg/kg	
	Di-n-butylphthalate	Blank	<0.33	mg/kg	
	2,4-Dinitrotoluene	Blank	<0.33	mg/kg	
	2,6-Dinitrotoluene	Blank	<0.33	mg/kg	
	1,2-Diphenylhydrazin	Blank	<0.33	mg/kg	
	Di-n-octylphthalate	Blank	<0.67	mg/kg	
	Fluoranthene	Blank	<0.33	mg/kg	
	Fluorene	Blank	<0.33	mg/kg	
	Hexachlorobenzene	Blank	<0.33	mg/kg	
	Hexachlorobutadiene	Blank	<0.33	mg/kg	
	Hexachlorocyclopenta	Blank	<0.33	mg/kg	
	Hexachloroethane	Blank	<0.33	mg/kg	
	Indeno(1,2,3-cd)pyre	Blank	<0.33	mg/kg	
	Isophorone	Blank	<0.33	mg/kg	
	2-Methylnaphthalene	Blank	<0.33	mg/kg	
	2-Nitroaniline	Blank	<0.33	mg/kg	
	3-Nitroaniline	Blank	<0.33	mg/kg	
	Nitrobenzene	Blank	<0.33	mg/kg	
	N-Nitrosodimethylami	Blank	<0.33	mg/kg	
	N-Nitroso-di-n-propy	Blank	<0.33	mg/kg	
	N-Nitrosodiphenylami	Blank	<0.33	mg/kg	
	Phenanthrene	Blank	<0.33	mg/kg	
	Pyrene	Blank	<1.00	mg/kg	
	1,2,4-Trichlorobenze	Blank	<0.33	mg/kg	
	4-Chloro-3-methylphe	Blank	<0.67	mg/kg	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/SEMI-0741

Sample Id	Analysis	QC Analysis	Values	Units	Limits
	2-Chlorophenol	Blank	<0.33	mg/kg	
	2,4-Dichlorophenol	Blank	<0.33	mg/kg	
	2,4-Dimethylphenol	Blank	<1.33	mg/kg	
	4,6-Dinitro-2-methyl	Blank	<0.33	mg/kg	
	2,4-Dinitrophenol	Blank	<0.33	mg/kg	
	2-Methylphenol (o-cr	Blank	<0.33	mg/kg	
	3- & 4-Methylphenol	Blank	<0.33	mg/kg	
	2-Nitrophenol	Blank	<0.33	mg/kg	
	4-Nitrophenol	Blank	<0.33	mg/kg	
	Phenol	Blank	<0.33	mg/kg	
	2,4,5-Trichloropheno	Blank	<0.33	mg/kg	
	2,4,6-Trichloropheno	Blank	<0.33	mg/kg	
	Pentachlorophenol	Blank	<0.33	mg/kg	
	Pyridine	Blank	<0.33	mg/kg	
	Benzo(k)fluoranthene	Blank	<0.67	mg/kg	
	4-Nitroaniline	Blank	<0.33	mg/kg	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 06/02/97 Lims Bat #: LIMS-29711

QC Batch Number: GCMS/VOL-1304

Sample Id	Analysis	QC Analysis	Values	Units	Limits
97809377	d4-12-Dichloroethane	Surrogate Recovery	118.400	%	56.000-128.000
	d8-Toluene (8240 dry	Surrogate Recovery	106.000	%	65.000-113.000
	Bromofluororbenzene	Surrogate Recovery	114.800	%	62.000-137.000
97809379	d4-12-Dichloroethane	Surrogate Recovery	106.000	%	56.000-128.000
	d8-Toluene (8240 dry	Surrogate Recovery	103.200	%	65.000-113.000
	Bromofluororbenzene	Surrogate Recovery	107.600	%	62.000-137.000
BLANK-07996	Acetone	Blank	<0.080	mg/kg	
	Benzene	Blank	<0.003	mg/kg	
	Carbon Tetrachloride	Blank	<0.002	mg/kg	
	Chloroform	Blank	<0.004	mg/kg	
	1,2-Dichloroethane	Blank	<0.004	mg/kg	
	1,4-Dichlorobenzene	Blank	<0.004	mg/kg	
	Ethyl Benzene	Blank	<0.003	mg/kg	
	2-Butanone (MEK)	Blank	<0.060	mg/kg	
	4-Methyl-2-Pentanone	Blank	<0.044	mg/kg	
	Styrene	Blank	<0.004	mg/kg	
	Tetrachloroethylene	Blank	<0.002	mg/kg	
	Toluene	Blank	<0.004	mg/kg	
	1,1,1-Trichloroethan	Blank	<0.004	mg/kg	
	Trichloroethylene	Blank	<0.005	mg/kg	
	Trichlorofluorometha	Blank	<0.004	mg/kg	
	o&p-Xylene	Blank	<0.002	mg/kg	
	m-Xylene	Blank	<0.006	mg/kg	
	1,2-Dichlorobenzene	Blank	<0.004	mg/kg	
	1,3-Dichlorobenzene	Blank	<0.003	mg/kg	
	1,1-Dichloroethane	Blank	<0.004	mg/kg	
	1,1-Dichloroethylene	Blank	<0.003	mg/kg	
	Methyl tert-Butyl Et	Blank	<0.004	mg/kg	
	t-1,2-Dichloroethyle	Blank	<0.004	mg/kg	
	Vinyl Chloride	Blank	<0.002	mg/kg	
	Methylene Chloride	Blank	<0.015	mg/kg	
	Chlorobenzene	Blank	<0.003	mg/kg	
	Chloromethane	Blank	<0.006	mg/kg	
	Bromomethane	Blank	<0.006	mg/kg	
	Chloroethane	Blank	<0.004	mg/kg	
	cis-1,3-Dichloroprop	Blank	<0.002	mg/kg	
	t-1,3-Dichloropropen	Blank	<0.002	mg/kg	
	Chlorodibromomethane	Blank	<0.002	mg/kg	
	1,1,2-Trichloroethan	Blank	<0.004	mg/kg	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/VOL-1304

Sample Id	Analysis	QC Analysis	Values	Units	Limits
	2-Chloroethylvinylet	Blank	<0.048	mg/kg	
	Bromoform	Blank	<0.006	mg/kg	
	1,1,2,2-Tetrachloroe	Blank	<0.007	mg/kg	
	Dibromomethane	Blank	<0.006	mg/kg	
	1,2-Dichloropropane	Blank	<0.003	mg/kg	
	1,2,3-Trichloropropa	Blank	<0.006	mg/kg	
	Dichlorodifluorometh	Blank	<0.005	mg/kg	
	Iodomethane	Blank	<0.004	mg/kg	
	Acrolein	Blank	<0.100	mg/kg	
	Acrylonitrile	Blank	<0.038	mg/kg	
	Carbon Disulfide	Blank	<0.002	mg/kg	
	Vinyl Acetate	Blank	<0.082	mg/kg	
	2-Hexanone	Blank	<0.048	mg/kg	
	t-1,4-Dichloro-2-But	Blank	<0.010	mg/kg	
	Ethyl Methacrylate	Blank	<0.004	mg/kg	
	c-1,4-Dichloro-2-But	Blank	<0.012	mg/kg	
	Bromodichloromethane	Blank	<0.002	mg/kg	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 06/02/97

Lims Bat #: LIMS-29711

QC Batch Number: HG-0494

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-03956	Mercury	Lab Fort Blank Amt.	0.200	mg/kg	
		Lab Fort Blk. Found	0.230	mg/kg	
		Lab Fort Blk. % Rec.	115.000	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 06/02/97 Lims Bat #: LIMS-29711

QC Batch Number: TPH-0759

Sample Id	Analysis	QC Analysis	Values	Units	Limits
97809379	Total Petroleum Hydr	Sample Amount	5202.17	mg/kg	
		Duplicate Value	4566.93	mg/kg	
		Duplicate RPD	13.01	%	

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FAX (413) 525-6405

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01028

Client Name: Vanasse Hangen Brustlin, Inc.
Attn: Mark Richards
Address: 101 Walnut St.
Watertown, MA 02272
Site Location: Middletown, CT
Sampled By: Mark Richards
Call Results: Yes ___ No X
Fax Results: Yes X No ___

Telephone: 617-924-1770
Batch #: 29711
Project #: 40163
Client P.O. #: 40163
Fax #: 617-923-2336

Field Sample I.D.	Sample Description	Lab #	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	Composite	Grab	Matrix: Waste Water	Matrix: Ground Water	Matrix: DKG Water	Matrix: Soil	Matrix: Air	Matrix: *Other	Preservative (Use Code)	Container (Use Code)	SVOC 8270	VOC 8240	TPH 418.1	13 Priority Metals	PCB 8080					
Sos-1	Hand Auger	97B09375		5/21	X					S				G	X		X	X	X					
Sos-2	↓	09376		5/21	X					S				G	X		X	X	X					
B-15/7-8'	Soil Boring	09377		5/21	X					S				G		X	X							
B-16/5-6'	↓	09378		5/21	X					S				G	X		X							
B-18/5-7'	↓	09379		5/21	X					S			2	G	X	X	X	X						

CONTAINER CODE
P: PLASTIC (___ Size) V = 40 ml vial G = Glass (___ size) A = 1000 ml Amber 0 = Other ___

PRESERVATIVE CODE:
I = ICED N = HNO_3 H = HCl S = NaOH T = $Na_2S_2O_3$ O = OTHER ___

Relinquished by: (Signature)	Date Time	Received by: (Signature)
Mark Richards	1640 5-21-97	W.R. Wittington
W.R. Wittington	1740 5-21-97	Chris Wilson

Turnaround Requested: ___ 24-Hour ___ 48-Hour ___ Normal
___ Other ___ Date Required

Remarks/Comments:

*MATRIX OTHER ___

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VANASSE HANGEN BRUSTLIN, INC.
101 WALNUT STREET
WATERTOWN, MA 02272
ATTN: MARC RICHARDS

REPORT DATE: 06/16/97

PURCHASE ORDER NUMBER: 40163
PROJECT NUMBER: PRJ.# 40163

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-29604
JOB NUMBER: 29604

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report

PROJECT LOCATION: MIDDLETOWN, CT

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
10-F	97B08805	WIPE - OTHER	WIPE FLOOR	special test
10-NW	97B08806	WIPE - OTHER	WIPE NORTH WALL	special test
10-SW	97B08807	WIPE - OTHER	WIPE SOUTH WALL	special test
4-EW	97B08811	WIPE - OTHER	WIPE EAST WALL	special test
4-WW	97B08812	WIPE - OTHER	WIPE WEST WALL	special test
5-ES	97B08809	WIPE - OTHER	WIPE ELECTRIC SWITCH	special test
5-EW	97B08810	WIPE - OTHER	WIPE EAST WALL	special test
5-FD	97B08808	WIPE - OTHER	WIPE FIRE DOOR	special test

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

AIHA 308
MASSACHUSETTS MA100
CONNECTICUT PH-0567
NEW YORK ELAP 10899
OHIO (ENVIRO. LEAD) # 10005
NEW HAMPSHIRE 2516
AIHA ELLAP (LEAD) 6838
MAINE (POTABLE/NON-POTABLE)
VERMONT DOH (LEAD) No. 15036
RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document.

Edward Denson 6/16/97
SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director

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MARC RICHARDS
VANASSE HANGEN BRUSTLIN, INC.
101 WALNUT STREET
WATERTOWN, MA 02272

06/16/97

Purchase Order Number: 40163
Project Number: PRJ.# 40163

Project Location: MIDDLETOWN, CT
Date Received: 05/15/97

LIMS-BAT #: LIMS-29604
Job Number: 29604
Sample Matrix: WIPE - OTHER

Sampled: 05/15/97
WIPE FLOOR
10-F

	Units	97B08805	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
SPECIAL TEST		- Note -	05/22/97	KLF			

Sampled: 05/15/97
WIPE NORTH WALL
10-NW

	Units	97B08806	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
SPECIAL TEST		- Note -	05/22/97	KLF			

Sampled: 05/15/97
WIPE SOUTH WALL
10-SW

	Units	97B08807	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
SPECIAL TEST		- Note -	05/22/97	KLF			

Sampled: 05/15/97
WIPE EAST WALL
4-EW

	Units	97B08811	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
SPECIAL TEST		- Note -	05/22/97	KLF			

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: 40163
Project Number: PRJ.# 40163

LIMS-BAT #: LIMS-29604
Job Number: 29604
Sample Matrix: WIPE - OTHER

Sampled: 05/15/97
WIPE WEST WALL
4-WW

	Units	97B08812	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
SPECIAL TEST		- Note -	05/22/97	KLF			

Sampled: 05/15/97
WIPE ELECTRIC SWITCH
5-ES

	Units	97B08809	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
SPECIAL TEST		- Note -	05/22/97	KLF			

Sampled: 05/15/97
WIPE EAST WALL
5-EW

	Units	97B08810	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
SPECIAL TEST		- Note -	05/22/97	KLF			

Sampled: 05/15/97
WIPE FIRE DOOR
5-FD

	Units	97B08808	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
SPECIAL TEST		- Note -	05/22/97	KLF			

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Analytical Method(s):

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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The following notes were attached to the reported analysis:

Analysis: SPECIAL TEST

ANALYTE(ug/cm2)	97808805	97808806	97808807	97808808
ANTIMONY	<0.05	<0.05	<0.05	0.12
ARSENIC	0.42	0.47	0.33	0.62
BERYLLIUM	0.003	0.004	0.007	0.005
CADMIUM	0.070	0.079	0.144	0.203
CHROMIUM	0.651	0.627	1.94	0.779
COPPER	1.02	1.26	2.86	1.55
LEAD	2.57	5.15	7.25	37.7
MERCURY	0.0052	0.0070	0.016	0.072
NICKEL	0.495	0.502	0.952	0.595
SELENIUM	<0.10	0.13	0.16	0.13
SILVER	0.02	<0.01	0.02	<0.01
THALLIUM	<0.20	<0.20	<0.20	<0.20
ZINC	7.92	10.5	12.2	46.0

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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VANASSE HANGEN BRUSTLIN, INC.
101 WALNUT STREET
WATERTOWN, MA 02272
ATTN: MARC RICHARDS

REPORT DATE: 06/13/97

PURCHASE ORDER NUMBER: A0163
PROJECT NUMBER: PROJ.# A0163

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-29802
JOB NUMBER: 29802

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report

PROJECT LOCATION: MIDDLETOWN, CT

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
MW-1	97809735	GRND WATER	MONITORING WELL #1	tph (mg/l)
MW-1	97809736	GRND WATER	MONITORING WELL #1	metals(w13) icp
MW-1	97809737	GRND WATER	MONITORING WELL #1	8240 - water
MW-1	97809737	GRND WATER	MONITORING WELL #1	8240 - water (b)
MW-2	97809739	GRND WATER	MONITORING WELL #2	tph (mg/l)
MW-2	97809740	GRND WATER	MONITORING WELL #2	metals(w13) icp
MW-2	97809741	GRND WATER	MONITORING WELL #2	8240 - water
MW-2	97809741	GRND WATER	MONITORING WELL #2	8240 - water (b)
MW-3	97809751	GRND WATER	MONITORING WELL #3	tph (mg/l)
MW-3	97809752	GRND WATER	MONITORING WELL #3	metals(w13) icp
MW-3	97809753	GRND WATER	MONITORING WELL #3	8240 - water
MW-3	97809753	GRND WATER	MONITORING WELL #3	8240 - water (b)
MW-3	97809755	GRND WATER	MONITORING WELL #3	bod
MW-3	97809755	GRND WATER	MONITORING WELL #3	chloride
MW-3	97809755	GRND WATER	MONITORING WELL #3	nitrate
MW-3	97809756	GRND WATER	MONITORING WELL #3	ammonia
MW-3	97809757	GRND WATER	MONITORING WELL #3	fe (mg/l) icp
MW-3	97809757	GRND WATER	MONITORING WELL #3	mn (mg/l) icp
MW-3	97809758	GRND WATER	MONITORING WELL #3	alkalinity
MW-3	97809758	GRND WATER	MONITORING WELL #3	conductivity
MW-3	97809758	GRND WATER	MONITORING WELL #3	ph
MW-3	97809758	GRND WATER	MONITORING WELL #3	tds
MW-3	97809758	GRND WATER	MONITORING WELL #3	tss
MW-4	97809743	GRND WATER	MONITORING WELL #4	tph (mg/l)
MW-4	97809744	GRND WATER	MONITORING WELL #4	metals(w13) icp
MW-4	97809745	GRND WATER	MONITORING WELL #4	8240 - water
MW-4	97809745	GRND WATER	MONITORING WELL #4	8240 - water (b)
MW-5	97809759	GRND WATER	MONITORING WELL #5	tph (mg/l)
MW-5	97809760	GRND WATER	MONITORING WELL #5	metals(w13) icp
MW-5	97809761	GRND WATER	MONITORING WELL #5	8240 - water
MW-5	97809761	GRND WATER	MONITORING WELL #5	8240 - water (b)
MW-5	97809763	GRND WATER	MONITORING WELL #5	bod
MW-5	97809763	GRND WATER	MONITORING WELL #5	chloride
MW-5	97809763	GRND WATER	MONITORING WELL #5	nitrate
MW-5	97809764	GRND WATER	MONITORING WELL #5	ammonia
MW-5	97809765	GRND WATER	MONITORING WELL #5	fe (mg/l) icp
MW-5	97809765	GRND WATER	MONITORING WELL #5	mn (mg/l) icp
MW-5	97809766	GRND WATER	MONITORING WELL #5	alkalinity
MW-5	97809766	GRND WATER	MONITORING WELL #5	conductivity

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VANASSE HANGEN BRUSTLIN, INC.

REPORT DATE: 06/13/97

101 WALNUT STREET
WATERTOWN, MA 02272
ATTN: MARC RICHARDS

PURCHASE ORDER NUMBER: A0163
PROJECT NUMBER: PROJ.# A0163

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-29802
JOB NUMBER: 29802

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
MW-5	97B09766	GRND WATER	MONITORING WELL #5	ph
MW-5	97B09766	GRND WATER	MONITORING WELL #5	tds
MW-5	97B09766	GRND WATER	MONITORING WELL #5	tss
MW-6	97B09747	GRND WATER	MONITORING WELL #6	tph (mg/l)
MW-6	97B09748	GRND WATER	MONITORING WELL #6	metals(w13) icp
MW-6	97B09749	GRND WATER	MONITORING WELL #6	8240 - water
MW-6	97B09749	GRND WATER	MONITORING WELL #6	8240 - water (b)

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	SUBCONTRACTOR LABORATORY
MW-1	97B09738	GRND WATER	MONITORING WELL #1	625 - acid fract	
MW-1	97B09738	GRND WATER	MONITORING WELL #1	625 - b/n frac-1	
MW-1	97B09738	GRND WATER	MONITORING WELL #1	625 - b/n frac-2	
MW-1	97B09738	GRND WATER	MONITORING WELL #1	herbicides - h2o	SUBCONTRACTED
MW-1	97B09738	GRND WATER	MONITORING WELL #1	pcb - water	
MW-2	97B09742	GRND WATER	MONITORING WELL #2	625 - acid fract	
MW-2	97B09742	GRND WATER	MONITORING WELL #2	625 - b/n frac-1	
MW-2	97B09742	GRND WATER	MONITORING WELL #2	625 - b/n frac-2	
MW-2	97B09742	GRND WATER	MONITORING WELL #2	herbicides - h2o	SUBCONTRACTED
MW-2	97B09742	GRND WATER	MONITORING WELL #2	pcb - water	
MW-3	97B09754	GRND WATER	MONITORING WELL #3	625 - acid fract	
MW-3	97B09754	GRND WATER	MONITORING WELL #3	625 - b/n frac-1	
MW-3	97B09754	GRND WATER	MONITORING WELL #3	625 - b/n frac-2	
MW-3	97B09754	GRND WATER	MONITORING WELL #3	herbicides - h2o	SUBCONTRACTED
MW-3	97B09754	GRND WATER	MONITORING WELL #3	pcb - water	
MW-4	97B09746	GRND WATER	MONITORING WELL #4	625 - acid fract	
MW-4	97B09746	GRND WATER	MONITORING WELL #4	625 - b/n frac-1	
MW-4	97B09746	GRND WATER	MONITORING WELL #4	625 - b/n frac-2	
MW-4	97B09746	GRND WATER	MONITORING WELL #4	herbicides - h2o	SUBCONTRACTED
MW-4	97B09746	GRND WATER	MONITORING WELL #4	pcb - water	
MW-5	97B09762	GRND WATER	MONITORING WELL #5	625 - acid fract	
MW-5	97B09762	GRND WATER	MONITORING WELL #5	625 - b/n frac-1	
MW-5	97B09762	GRND WATER	MONITORING WELL #5	625 - b/n frac-2	
MW-5	97B09762	GRND WATER	MONITORING WELL #5	herbicides - h2o	SUBCONTRACTED
MW-5	97B09762	GRND WATER	MONITORING WELL #5	pcb - water	
MW-6	97B09750	GRND WATER	MONITORING WELL #6	625 - acid fract	
MW-6	97B09750	GRND WATER	MONITORING WELL #6	625 - b/n frac-1	
MW-6	97B09750	GRND WATER	MONITORING WELL #6	625 - b/n frac-2	
MW-6	97B09750	GRND WATER	MONITORING WELL #6	herbicides - h2o	SUBCONTRACTED
MW-6	97B09750	GRND WATER	MONITORING WELL #6	pcb - water	

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VANASSE HANGEN BRUSTLIN, INC.

REPORT DATE: 06/13/97

101 WALNUT STREET
WATERTOWN, MA 02272
ATTN: MARC RICHARDS

PURCHASE ORDER NUMBER: A0163
PROJECT NUMBER: PROJ.# A0163

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-29802
JOB NUMBER: 29802

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	SUBCONTRACTOR LABORATORY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

AIHA 308
MASSACHUSETTS MA100
CONNECTICUT PH-0567
NEW YORK ELAP 10899
OHIO (ENVIRO. LEAD) # 10005
NEW HAMPSHIRE 2516
AIHA ELLAP (LEAD) 6838
MAINE (POTABLE/NON-POTABLE)
VERMONT DOH (LEAD) No. 15036
RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document.

Edward Denson 6/16/97
SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director

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MARC RICHARDS
VANASSE HANGEN BRUSTLIN, INC.
101 WALNUT STREET
WATERTOWN, MA 02272

06/13/97

Purchase Order Number: A0163
Project Number: PROJ.# A0163

Project Location: MIDDLETOWN, CT
Date Received: 05/28/97

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #1
MW-1

	Units	97809738	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	ug/l	ND	06/03/97	WSD	40.0		
2-Chlorophenol	ug/l	ND	06/03/97	WSD	20.0		
2,4-Dichlorophenol	ug/l	ND	06/03/97	WSD	20.0		
2,4-Dimethylphenol	ug/l	ND	06/03/97	WSD	80.0		
4,6-Dinitro-2-methylphenol	ug/l	ND	06/03/97	WSD	20.0		
2,4-Dinitrophenol	ug/l	ND	06/03/97	WSD	20.0		
2-Methylphenol (o-cresol)	ug/l	ND	06/03/97	WSD	20.0		
3- & 4-Methylphenol (m&p-cresol)	ug/l	ND	06/03/97	WSD	20.0		
2-Nitrophenol	ug/l	ND	06/03/97	WSD	20.0		
4-Nitrophenol	ug/l	ND	06/03/97	WSD	20.0		
Pentachlorophenol	ug/l	ND	06/03/97	WSD	20.0		
Phenol	ug/l	ND	06/03/97	WSD	20.0		
2,4,5-Trichlorophenol	ug/l	ND	06/03/97	WSD	20.0		
2,4,6-Trichlorophenol	ug/l	ND	06/03/97	WSD	20.0		

Sampled: 05/27/97
MONITORING WELL #2
MW-2

	Units	97809742	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	ug/l	ND	06/03/97	WSD	20.0		
2-Chlorophenol	ug/l	ND	06/03/97	WSD	10.0		
2,4-Dichlorophenol	ug/l	ND	06/03/97	WSD	10.0		
2,4-Dimethylphenol	ug/l	ND	06/03/97	WSD	40.0		
4,6-Dinitro-2-methylphenol	ug/l	ND	06/03/97	WSD	10.0		
2,4-Dinitrophenol	ug/l	ND	06/03/97	WSD	10.0		
2-Methylphenol (o-cresol)	ug/l	ND	06/03/97	WSD	10.0		
3- & 4-Methylphenol (m&p-cresol)	ug/l	ND	06/03/97	WSD	10.0		
2-Nitrophenol	ug/l	ND	06/03/97	WSD	10.0		
4-Nitrophenol	ug/l	ND	06/03/97	WSD	10.0		

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #2
MW-2

	Units	97809742	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Pentachlorophenol	ug/l	BDL	06/03/97	WSD	10.0		
Phenol	ug/l	ND	06/03/97	WSD	10.0		
2,4,5-Trichlorophenol	ug/l	ND	06/03/97	WSD	10.0		
2,4,6-Trichlorophenol	ug/l	ND	06/03/97	WSD	10.0		

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97809754	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	ug/l	ND	06/03/97	WSD	40.0		
2-Chlorophenol	ug/l	ND	06/03/97	WSD	20.0		
2,4-Dichlorophenol	ug/l	ND	06/03/97	WSD	20.0		
2,4-Dimethylphenol	ug/l	ND	06/03/97	WSD	80.0		
4,6-Dinitro-2-methylphenol	ug/l	ND	06/03/97	WSD	20.0		
2,4-Dinitrophenol	ug/l	ND	06/03/97	WSD	20.0		
2-Methylphenol (o-cresol)	ug/l	ND	06/03/97	WSD	20.0		
3- & 4-Methylphenol (m&p-cresol)	ug/l	ND	06/03/97	WSD	20.0		
2-Nitrophenol	ug/l	ND	06/03/97	WSD	20.0		
4-Nitrophenol	ug/l	ND	06/03/97	WSD	20.0		
Pentachlorophenol	ug/l	ND	06/03/97	WSD	20.0		
Phenol	ug/l	ND	06/03/97	WSD	20.0		
2,4,5-Trichlorophenol	ug/l	ND	06/03/97	WSD	20.0		
2,4,6-Trichlorophenol	ug/l	ND	06/03/97	WSD	20.0		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #4
MW-4

	Units	97B09746	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
-Chloro-3-methylphenol	ug/l	ND	06/03/97	WSD	20.0		
2-Chlorophenol	ug/l	ND	06/03/97	WSD	10.0		
2,4-Dichlorophenol	ug/l	ND	06/03/97	WSD	10.0		
,4-Dimethylphenol	ug/l	ND	06/03/97	WSD	40.0		
,6-Dinitro-2-methylphenol	ug/l	ND	06/03/97	WSD	10.0		
2,4-Dinitrophenol	ug/l	ND	06/03/97	WSD	10.0		
-Methylphenol (o-cresol)	ug/l	ND	06/03/97	WSD	10.0		
- & 4-Methylphenol (m&p-cresol)	ug/l	ND	06/03/97	WSD	10.0		
2-Nitrophenol	ug/l	ND	06/03/97	WSD	10.0		
-Nitrophenol	ug/l	ND	06/03/97	WSD	10.0		
entachlorophenol	ug/l	BDL	06/03/97	WSD	10.0		
Phenol	ug/l	ND	06/03/97	WSD	10.0		
2,4,5-Trichlorophenol	ug/l	ND	06/03/97	WSD	10.0		
,4,6-Trichlorophenol	ug/l	ND	06/03/97	WSD	10.0		

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97B09762	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	ug/l	NM	06/03/97	WSD			
2-Chlorophenol	ug/l	NM	06/03/97	WSD			
2,4-Dichlorophenol	ug/l	NM	06/03/97	WSD			
2,4-Dimethylphenol	ug/l	NM	06/03/97	WSD			
4,6-Dinitro-2-methylphenol	ug/l	NM	06/03/97	WSD			
2,4-Dinitrophenol	ug/l	NM	06/03/97	WSD			
2-Methylphenol (o-cresol)	ug/l	NM	06/03/97	WSD			
3- & 4-Methylphenol (m&p-cresol)	ug/l	NM	06/03/97	WSD			
2-Nitrophenol	ug/l	NM	06/03/97	WSD			
4-Nitrophenol	ug/l	NM	06/03/97	WSD			

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97B09762	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Pentachlorophenol	ug/l	NM	06/03/97	WSD			
Phenol	ug/l	NM	06/03/97	WSD			
2,4,5-Trichlorophenol	ug/l	NM	06/03/97	WSD			
2,4,6-Trichlorophenol	ug/l	NM	06/03/97	WSD			

Sampled: 05/27/97
MONITORING WELL #6
MW-6

	Units	97B09750	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	ug/l	ND	06/03/97	WSD	20.0		
2-Chlorophenol	ug/l	ND	06/03/97	WSD	10.0		
2,4-Dichlorophenol	ug/l	ND	06/03/97	WSD	10.0		
2,4-Dimethylphenol	ug/l	ND	06/03/97	WSD	40.0		
4,6-Dinitro-2-methylphenol	ug/l	ND	06/03/97	WSD	10.0		
2,4-Dinitrophenol	ug/l	ND	06/03/97	WSD	10.0		
2-Methylphenol (o-cresol)	ug/l	ND	06/03/97	WSD	10.0		
3- & 4-Methylphenol (m&p-cresol)	ug/l	ND	06/03/97	WSD	10.0		
2-Nitrophenol	ug/l	ND	06/03/97	WSD	10.0		
4-Nitrophenol	ug/l	BDL	06/03/97	WSD	10.0		
Pentachlorophenol	ug/l	ND	06/03/97	WSD	10.0		
Phenol	ug/l	ND	06/03/97	WSD	10.0		
2,4,5-Trichlorophenol	ug/l	ND	06/03/97	WSD	10.0		
2,4,6-Trichlorophenol	ug/l	ND	06/03/97	WSD	10.0		

Analytical Method(s):

EPA 625

SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE, FOLLOWED BY KUDERNA-DANISH

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:VAPORATIVE CONCENTRATION AND QUANTITATED BY GC/MS TARGET COMPOUND ANALYSIS

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #1
MW-1

	Units	97B09738	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	ug/l	ND	06/03/97	WSD	10.0		
Acenaphthylene	ug/l	ND	06/03/97	WSD	10.0		
Aniline	ug/l	ND	06/03/97	WSD	10.0		
Anthracene	ug/l	ND	06/03/97	WSD	10.0		
Benzidene	ug/l	ND	06/03/97	WSD	70.0		
Benzoic Acid	ug/l	ND	06/03/97	WSD	30.0		
Benzo(a)anthracene	ug/l	ND	06/03/97	WSD	10.0		
Benzo(a)pyrene	ug/l	ND	06/03/97	WSD	20.0		
Benzo(b)fluoranthene	ug/l	ND	06/03/97	WSD	10.0		
Benzo(g,h,i)perylene	ug/l	ND	06/03/97	WSD	30.0		
Benzo(k)fluoranthene	ug/l	ND	06/03/97	WSD	20.0		
Benzyl Alcohol	ug/l	ND	06/03/97	WSD	20.0		
Bis(2-chloroethoxy)methane	ug/l	ND	06/03/97	WSD	10.0		
Bis(2-chloroethyl)ether	ug/l	ND	06/03/97	WSD	10.0		
Bis(2-chloroisoproyl)ether	ug/l	ND	06/03/97	WSD	10.0		
Bis(2-ethylhexyl)phthalate	ug/l	ND	06/03/97	WSD	10.0		
4-Bromophenylphenylether	ug/l	ND	06/03/97	WSD	10.0		
Butylbenzylphthalate	ug/l	ND	06/03/97	WSD	20.0		
4-Chloroaniline	ug/l	ND	06/03/97	WSD	20.0		
2-Chloronaphthalene	ug/l	ND	06/03/97	WSD	10.0		
4-Chlorophenylphenylether	ug/l	ND	06/03/97	WSD	10.0		
Chrysene	ug/l	ND	06/03/97	WSD	20.0		
Dibenzofuran	ug/l	ND	06/03/97	WSD	10.0		
Dibenz(a,h)anthracene	ug/l	ND	06/03/97	WSD	20.0		
1,2-Dichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
1,3-Dichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
1,4-Dichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
3,3'-Dichlorobenzidine	ug/l	ND	06/03/97	WSD	20.0		
Diethylphthalate	ug/l	ND	06/03/97	WSD	10.0		
Dimethylphthalate	ug/l	ND	06/03/97	WSD	20.0		
Di-n-butylphthalate	ug/l	BDL	06/03/97	WSD	10.0		
Di-n-octylphthalate	ug/l	BDL	06/03/97	WSD	20.0		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #1
MW-1

	Units	97B09738	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-Dinitrotoluene	ug/l	ND	06/03/97	WSD	10.0		
2,6-Dinitrotoluene	ug/l	ND	06/03/97	WSD	10.0		
1,2-Diphenylhydrazine	ug/l	ND	06/03/97	WSD	10.0		
Fluoranthene	ug/l	ND	06/03/97	WSD	10.0		
Fluorene	ug/l	ND	06/03/97	WSD	10.0		
Hexachlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
Hexachlorobutadiene	ug/l	ND	06/03/97	WSD	10.0		
Hexachlorocyclopentadiene	ug/l	ND	06/03/97	WSD	10.0		
Hexachloroethane	ug/l	ND	06/03/97	WSD	10.0		
Indeno(1,2,3-cd)pyrene	ug/l	ND	06/03/97	WSD	10.0		
Isophorone	ug/l	ND	06/03/97	WSD	10.0		
2-Methylnaphthalene	ug/l	ND	06/03/97	WSD	10.0		
Naphthalene	ug/l	ND	06/03/97	WSD	10.0		
2-Nitroaniline	ug/l	ND	06/03/97	WSD	10.0		
3-Nitroaniline	ug/l	ND	06/03/97	WSD	10.0		
4-Nitroaniline	ug/l	ND	06/03/97	WSD	10.0		
Nitrobenzene	ug/l	ND	06/03/97	WSD	10.0		
N-Nitrosodimethylamine	ug/l	ND	06/03/97	WSD	10.0		
N-Nitrosodiphenylamine	ug/l	ND	06/03/97	WSD	10.0		
N-Nitroso-di-n-propylamine	ug/l	ND	06/03/97	WSD	10.0		
Phenanthrene	ug/l	ND	06/03/97	WSD	10.0		
Pyrene	ug/l	ND	06/03/97	WSD	30.0		
Pyridine	ug/l	ND	06/03/97	WSD	10.0		
1,2,4-Trichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #2
MW-2

	Units	97B09742	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	ug/l	ND	06/03/97	WSD	10.0		
Acenaphthylene	ug/l	ND	06/03/97	WSD	10.0		
Aniline	ug/l	ND	06/03/97	WSD	10.0		
Anthracene	ug/l	ND	06/03/97	WSD	10.0		
Benzidene	ug/l	ND	06/03/97	WSD	70.0		
Benzoic Acid	ug/l	ND	06/03/97	WSD	30.0		
Benzo(a)anthracene	ug/l	ND	06/03/97	WSD	10.0		
Benzo(a)pyrene	ug/l	ND	06/03/97	WSD	20.0		
Benzo(b)fluoranthene	ug/l	ND	06/03/97	WSD	10.0		
Benzo(g,h,i)perylene	ug/l	ND	06/03/97	WSD	30.0		
Benzo(k)fluoranthene	ug/l	ND	06/03/97	WSD	20.0		
Benzyl Alcohol	ug/l	ND	06/03/97	WSD	20.0		
Bis(2-chloroethoxy)methane	ug/l	ND	06/03/97	WSD	10.0		
Bis(2-chloroethyl)ether	ug/l	ND	06/03/97	WSD	10.0		
Bis(2-chloroisoproyl)ether	ug/l	ND	06/03/97	WSD	10.0		
Bis(2-ethylhexyl)phthalate	ug/l	BDL	06/03/97	WSD	10.0		
4-Bromophenylphenylether	ug/l	ND	06/03/97	WSD	10.0		
Butylbenzylphthalate	ug/l	BDL	06/03/97	WSD	20.0		
4-Chloroaniline	ug/l	ND	06/03/97	WSD	20.0		
2-Chloronaphthalene	ug/l	ND	06/03/97	WSD	10.0		
4-Chlorophenylphenylether	ug/l	ND	06/03/97	WSD	10.0		
Chrysene	ug/l	ND	06/03/97	WSD	20.0		
Dibenzofuran	ug/l	ND	06/03/97	WSD	10.0		
Dibenz(a,h)anthracene	ug/l	ND	06/03/97	WSD	20.0		
1,2-Dichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
1,3-Dichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
1,4-Dichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
3,3'-Dichlorobenzidine	ug/l	ND	06/03/97	WSD	20.0		
Diethylphthalate	ug/l	ND	06/03/97	WSD	10.0		
Dimethylphthalate	ug/l	ND	06/03/97	WSD	20.0		
Di-n-butylphthalate	ug/l	BDL	06/03/97	WSD	10.0		
Di-n-octylphthalate	ug/l	BDL	06/03/97	WSD	20.0		

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Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #2
MW-2

	Units	97809742	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
:,4-Dinitrotoluene	ug/l	ND	06/03/97	WSD	10.0		
2,6-Dinitrotoluene	ug/l	ND	06/03/97	WSD	10.0		
',2-Diphenylhydrazine	ug/l	ND	06/03/97	WSD	10.0		
:luoranthene	ug/l	ND	06/03/97	WSD	10.0		
Fluorene	ug/l	ND	06/03/97	WSD	10.0		
Hexachlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
lexachlorobutadiene	ug/l	ND	06/03/97	WSD	10.0		
.lexachlorocyclopentadiene	ug/l	ND	06/03/97	WSD	10.0		
Hexachloroethane	ug/l	ND	06/03/97	WSD	10.0		
ndeno(1,2,3-cd)pyrene	ug/l	ND	06/03/97	WSD	10.0		
sophorone	ug/l	ND	06/03/97	WSD	10.0		
2-Methylnaphthalene	ug/l	ND	06/03/97	WSD	10.0		
Naphthalene	ug/l	ND	06/03/97	WSD	10.0		
2-Nitroaniline	ug/l	ND	06/03/97	WSD	10.0		
3-Nitroaniline	ug/l	ND	06/03/97	WSD	10.0		
4-Nitroaniline	ug/l	ND	06/03/97	WSD	10.0		
Nitrobenzene	ug/l	ND	06/03/97	WSD	10.0		
N-Nitrosodimethylamine	ug/l	ND	06/03/97	WSD	10.0		
N-Nitrosodiphenylamine	ug/l	BDL	06/03/97	WSD	10.0		
N-Nitroso-di-n-propylamine	ug/l	ND	06/03/97	WSD	10.0		
Phenanthrene	ug/l	ND	06/03/97	WSD	10.0		
Pyrene	ug/l	ND	06/03/97	WSD	30.0		
Pyridine	ug/l	ND	06/03/97	WSD	10.0		
1,2,4-Trichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		

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BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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39 Spruce Street • 2nd Floor • East Longmeadow, MA 01028 • FAX 413/525-6405 • TEL. 413/525-2332

Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97B09754	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	ug/l	BDL	06/03/97	WSD	10.0		
Acenaphthylene	ug/l	BDL	06/03/97	WSD	10.0		
Aniline	ug/l	ND	06/03/97	WSD	10.0		
Anthracene	ug/l	BDL	06/03/97	WSD	10.0		
Benzidene	ug/l	BDL	06/03/97	WSD	70.0		
Benzoic Acid	ug/l	ND	06/03/97	WSD	30.0		
Benzo(a)anthracene	ug/l	BDL	06/03/97	WSD	10.0		
Benzo(a)pyrene	ug/l	BDL	06/03/97	WSD	20.0		
Benzo(b)fluoranthene	ug/l	BDL	06/03/97	WSD	10.0		
Benzo(g,h,i)perylene	ug/l	ND	06/03/97	WSD	30.0		
Benzo(k)fluoranthene	ug/l	BDL	06/03/97	WSD	20.0		
Benzyl Alcohol	ug/l	ND	06/03/97	WSD	20.0		
Bis(2-chloroethoxy)methane	ug/l	ND	06/03/97	WSD	10.0		
Bis(2-chloroethyl)ether	ug/l	ND	06/03/97	WSD	10.0		
Bis(2-chloroisoproyl)ether	ug/l	ND	06/03/97	WSD	10.0		
Bis(2-ethylhexyl)phthalate	ug/l	BDL	06/03/97	WSD	10.0		
4-Bromophenylphenylether	ug/l	ND	06/03/97	WSD	10.0		
Butylbenzylphthalate	ug/l	BDL	06/03/97	WSD	20.0		
4-Chloroaniline	ug/l	ND	06/03/97	WSD	20.0		
2-Chloronaphthalene	ug/l	ND	06/03/97	WSD	10.0		
4-Chlorophenylphenylether	ug/l	ND	06/03/97	WSD	10.0		
Chrysene	ug/l	BDL	06/03/97	WSD	20.0		
Dibenzofuran	ug/l	BDL	06/03/97	WSD	10.0		
Dibenz(a,h)anthracene	ug/l	ND	06/03/97	WSD	20.0		
1,2-Dichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
1,3-Dichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
1,4-Dichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
3,3'-Dichlorobenzidine	ug/l	ND	06/03/97	WSD	20.0		
Diethylphthalate	ug/l	BDL	06/03/97	WSD	10.0		
Dimethylphthalate	ug/l	BDL	06/03/97	WSD	20.0		
Di-n-butylphthalate	ug/l	BDL	06/03/97	WSD	10.0		
Di-n-octylphthalate	ug/l	BDL	06/03/97	WSD	20.0		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97809754	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-Dinitrotoluene	ug/l	BDL	06/03/97	WSD	10.0		
2,6-Dinitrotoluene	ug/l	ND	06/03/97	WSD	10.0		
1,2-Diphenylhydrazine	ug/l	ND	06/03/97	WSD	10.0		
Fluoranthene	ug/l	BDL	06/03/97	WSD	10.0		
Fluorene	ug/l	BDL	06/03/97	WSD	10.0		
Hexachlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
Hexachlorobutadiene	ug/l	ND	06/03/97	WSD	10.0		
Hexachlorocyclopentadiene	ug/l	ND	06/03/97	WSD	10.0		
Hexachloroethane	ug/l	BDL	06/03/97	WSD	10.0		
Indeno(1,2,3-cd)pyrene	ug/l	ND	06/03/97	WSD	10.0		
Isophorone	ug/l	BDL	06/03/97	WSD	10.0		
2-Methylnaphthalene	ug/l	BDL	06/03/97	WSD	10.0		
Naphthalene	ug/l	ND	06/03/97	WSD	10.0		
2-Nitroaniline	ug/l	BDL	06/03/97	WSD	10.0		
3-Nitroaniline	ug/l	BDL	06/03/97	WSD	10.0		
4-Nitroaniline	ug/l	BDL	06/03/97	WSD	10.0		
Nitrobenzene	ug/l	ND	06/03/97	WSD	10.0		
N-Nitrosodimethylamine	ug/l	ND	06/03/97	WSD	10.0		
N-Nitrosodiphenylamine	ug/l	BDL	06/03/97	WSD	10.0		
N-Nitroso-di-n-propylamine	ug/l	BDL	06/03/97	WSD	10.0		
Phenanthrene	ug/l	BDL	06/03/97	WSD	10.0		
Pyrene	ug/l	BDL	06/03/97	WSD	30.0		
Pyridine	ug/l	ND	06/03/97	WSD	10.0		
1,2,4-Trichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #4
MW-4

	Units	97809746	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	ug/l	BDL	06/03/97	WSD	10.0		
Acenaphthylene	ug/l	ND	06/03/97	WSD	10.0		
Aniline	ug/l	ND	06/03/97	WSD	10.0		
Anthracene	ug/l	BDL	06/03/97	WSD	10.0		
Benzidene	ug/l	ND	06/03/97	WSD	70.0		
Benzoic Acid	ug/l	ND	06/03/97	WSD	30.0		
Benzo(a)anthracene	ug/l	BDL	06/03/97	WSD	10.0		
Benzo(a)pyrene	ug/l	ND	06/03/97	WSD	20.0		
Benzo(b)fluoranthene	ug/l	ND	06/03/97	WSD	10.0		
Benzo(g,h,i)perylene	ug/l	ND	06/03/97	WSD	30.0		
Benzo(k)fluoranthene	ug/l	ND	06/03/97	WSD	20.0		
Benzyl Alcohol	ug/l	ND	06/03/97	WSD	20.0		
Bis(2-chloroethoxy)methane	ug/l	ND	06/03/97	WSD	10.0		
Bis(2-chloroethyl)ether	ug/l	ND	06/03/97	WSD	10.0		
Bis(2-chloroisoproyl)ether	ug/l	ND	06/03/97	WSD	10.0		
Bis(2-ethylhexyl)phthalate	ug/l	BDL	06/03/97	WSD	10.0		
4-Bromophenylphenylether	ug/l	ND	06/03/97	WSD	10.0		
Butylbenzylphthalate	ug/l	ND	06/03/97	WSD	20.0		
4-Chloroaniline	ug/l	ND	06/03/97	WSD	20.0		
2-Chloronaphthalene	ug/l	ND	06/03/97	WSD	10.0		
4-Chlorophenylphenylether	ug/l	ND	06/03/97	WSD	10.0		
Chrysene	ug/l	BDL	06/03/97	WSD	20.0		
Dibenzofuran	ug/l	BDL	06/03/97	WSD	10.0		
Dibenz(a,h)anthracene	ug/l	ND	06/03/97	WSD	20.0		
1,2-Dichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
1,3-Dichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
1,4-Dichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
3,3'-Dichlorobenzidine	ug/l	ND	06/03/97	WSD	20.0		
Diethylphthalate	ug/l	ND	06/03/97	WSD	10.0		
Dimethylphthalate	ug/l	ND	06/03/97	WSD	20.0		
Di-n-butylphthalate	ug/l	BDL	06/03/97	WSD	10.0		
Di-n-octylphthalate	ug/l	BDL	06/03/97	WSD	20.0		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #4
MW-4

	Units	97809746	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-Dinitrotoluene	ug/l	ND	06/03/97	WSD	10.0		
2,6-Dinitrotoluene	ug/l	ND	06/03/97	WSD	10.0		
1,2-Diphenylhydrazine	ug/l	BDL	06/03/97	WSD	10.0		
Fluoranthene	ug/l	BDL	06/03/97	WSD	10.0		
Fluorene	ug/l	BDL	06/03/97	WSD	10.0		
Hexachlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
Hexachlorobutadiene	ug/l	ND	06/03/97	WSD	10.0		
Hexachlorocyclopentadiene	ug/l	ND	06/03/97	WSD	10.0		
Hexachloroethane	ug/l	ND	06/03/97	WSD	10.0		
Indeno(1,2,3-cd)pyrene	ug/l	ND	06/03/97	WSD	10.0		
Isophorone	ug/l	ND	06/03/97	WSD	10.0		
2-Methylnaphthalene	ug/l	ND	06/03/97	WSD	10.0		
Naphthalene	ug/l	ND	06/03/97	WSD	10.0		
2-Nitroaniline	ug/l	ND	06/03/97	WSD	10.0		
3-Nitroaniline	ug/l	ND	06/03/97	WSD	10.0		
4-Nitroaniline	ug/l	ND	06/03/97	WSD	10.0		
Nitrobenzene	ug/l	ND	06/03/97	WSD	10.0		
N-Nitrosodimethylamine	ug/l	ND	06/03/97	WSD	10.0		
N-Nitrosodiphenylamine	ug/l	BDL	06/03/97	WSD	10.0		
N-Nitroso-di-n-propylamine	ug/l	ND	06/03/97	WSD	10.0		
Phenanthrene	ug/l	BDL	06/03/97	WSD	10.0		
Pyrene	ug/l	BDL	06/03/97	WSD	30.0		
Pyridine	ug/l	ND	06/03/97	WSD	10.0		
1,2,4-Trichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97809762	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	ug/l	ND	06/03/97	WSD	10.0		
Acenaphthylene	ug/l	ND	06/03/97	WSD	10.0		
Aniline	ug/l	ND	06/03/97	WSD	10.0		
Anthracene	ug/l	ND	06/03/97	WSD	10.0		
Benzidene	ug/l	ND	06/03/97	WSD	70.0		
Benzoic Acid	ug/l	ND	06/03/97	WSD	30.0		
Benzo(a)anthracene	ug/l	ND	06/03/97	WSD	10.0		
Benzo(a)pyrene	ug/l	ND	06/03/97	WSD	20.0		
Benzo(b)fluoranthene	ug/l	ND	06/03/97	WSD	10.0		
Benzo(g,h,i)perylene	ug/l	ND	06/03/97	WSD	30.0		
Benzo(k)fluoranthene	ug/l	ND	06/03/97	WSD	20.0		
Benzyl Alcohol	ug/l	ND	06/03/97	WSD	20.0		
Bis(2-chloroethoxy)methane	ug/l	ND	06/03/97	WSD	10.0		
Bis(2-chloroethyl)ether	ug/l	ND	06/03/97	WSD	10.0		
Bis(2-chloroisoproyl)ether	ug/l	ND	06/03/97	WSD	10.0		
Bis(2-ethylhexyl)phthalate	ug/l	BDL	06/03/97	WSD	10.0		
4-Bromophenylphenylether	ug/l	ND	06/03/97	WSD	10.0		
Butylbenzylphthalate	ug/l	ND	06/03/97	WSD	20.0		
4-Chloroaniline	ug/l	ND	06/03/97	WSD	20.0		
2-Chloronaphthalene	ug/l	ND	06/03/97	WSD	10.0		
4-Chlorophenylphenylether	ug/l	ND	06/03/97	WSD	10.0		
Chrysene	ug/l	ND	06/03/97	WSD	20.0		
Dibenzofuran	ug/l	ND	06/03/97	WSD	10.0		
Dibenz(a,h)anthracene	ug/l	ND	06/03/97	WSD	20.0		
1,2-Dichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
1,3-Dichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
1,4-Dichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
3,3'-Dichlorobenzidine	ug/l	ND	06/03/97	WSD	20.0		
Diethylphthalate	ug/l	BDL	06/03/97	WSD	10.0		
Dimethylphthalate	ug/l	ND	06/03/97	WSD	20.0		
Di-n-butylphthalate	ug/l	BDL	06/03/97	WSD	10.0		
Di-n-octylphthalate	ug/l	BDL	06/03/97	WSD	20.0		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97809762	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-Dinitrotoluene	ug/l	ND	06/03/97	WSD	10.0		
2,6-Dinitrotoluene	ug/l	ND	06/03/97	WSD	10.0		
1,2-Diphenylhydrazine	ug/l	BDL	06/03/97	WSD	10.0		
Fluoranthene	ug/l	ND	06/03/97	WSD	10.0		
Fluorene	ug/l	ND	06/03/97	WSD	10.0		
Hexachlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
Hexachlorobutadiene	ug/l	ND	06/03/97	WSD	10.0		
Hexachlorocyclopentadiene	ug/l	ND	06/03/97	WSD	10.0		
Hexachloroethane	ug/l	ND	06/03/97	WSD	10.0		
Indeno(1,2,3-cd)pyrene	ug/l	ND	06/03/97	WSD	10.0		
Isophorone	ug/l	ND	06/03/97	WSD	10.0		
2-Methylnaphthalene	ug/l	ND	06/03/97	WSD	10.0		
Naphthalene	ug/l	ND	06/03/97	WSD	10.0		
2-Nitroaniline	ug/l	ND	06/03/97	WSD	10.0		
3-Nitroaniline	ug/l	ND	06/03/97	WSD	10.0		
4-Nitroaniline	ug/l	ND	06/03/97	WSD	10.0		
Nitrobenzene	ug/l	ND	06/03/97	WSD	10.0		
N-Nitrosodimethylamine	ug/l	ND	06/03/97	WSD	10.0		
N-Nitrosodiphenylamine	ug/l	ND	06/03/97	WSD	10.0		
N-Nitroso-di-n-propylamine	ug/l	ND	06/03/97	WSD	10.0		
Phenanthrene	ug/l	ND	06/03/97	WSD	10.0		
Pyrene	ug/l	ND	06/03/97	WSD	30.0		
Pyridine	ug/l	ND	06/03/97	WSD	10.0		
1,2,4-Trichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #6
MW-6

	Units	97809750	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acenaphthene	ug/l	ND	06/03/97	WSD	10.0		
Acenaphthylene	ug/l	ND	06/03/97	WSD	10.0		
Aniline	ug/l	ND	06/03/97	WSD	10.0		
Anthracene	ug/l	BDL	06/03/97	WSD	10.0		
Benzidene	ug/l	ND	06/03/97	WSD	70.0		
Benzoic Acid	ug/l	ND	06/03/97	WSD	30.0		
Benzo(a)anthracene	ug/l	ND	06/03/97	WSD	10.0		
Benzo(a)pyrene	ug/l	ND	06/03/97	WSD	20.0		
Benzo(b)fluoranthene	ug/l	ND	06/03/97	WSD	10.0		
Benzo(g,h,i)perylene	ug/l	ND	06/03/97	WSD	30.0		
Benzo(k)fluoranthene	ug/l	ND	06/03/97	WSD	20.0		
Benzyl Alcohol	ug/l	ND	06/03/97	WSD	20.0		
Bis(2-chloroethoxy)methane	ug/l	ND	06/03/97	WSD	10.0		
Bis(2-chloroethyl)ether	ug/l	ND	06/03/97	WSD	10.0		
Bis(2-chloroisoproyl)ether	ug/l	ND	06/03/97	WSD	10.0		
Bis(2-ethylhexyl)phthalate	ug/l	BDL	06/03/97	WSD	10.0		
4-Bromophenylphenylether	ug/l	ND	06/03/97	WSD	10.0		
Butylbenzylphthalate	ug/l	ND	06/03/97	WSD	20.0		
4-Chloroaniline	ug/l	ND	06/03/97	WSD	20.0		
2-Chloronaphthalene	ug/l	ND	06/03/97	WSD	10.0		
4-Chlorophenylphenylether	ug/l	ND	06/03/97	WSD	10.0		
Chrysene	ug/l	ND	06/03/97	WSD	20.0		
Dibenzofuran	ug/l	ND	06/03/97	WSD	10.0		
Dibenz(a,h)anthracene	ug/l	ND	06/03/97	WSD	20.0		
1,2-Dichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
1,3-Dichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
1,4-Dichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
3,3'-Dichlorobenzidine	ug/l	ND	06/03/97	WSD	20.0		
Diethylphthalate	ug/l	BDL	06/03/97	WSD	10.0		
Dimethylphthalate	ug/l	ND	06/03/97	WSD	20.0		
Di-n-butylphthalate	ug/l	BDL	06/03/97	WSD	10.0		
Di-n-octylphthalate	ug/l	BDL	06/03/97	WSD	20.0		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #6
MW-6

	Units	97B09750	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
1,4-Dinitrotoluene	ug/l	ND	06/03/97	WSD	10.0		
2,6-Dinitrotoluene	ug/l	ND	06/03/97	WSD	10.0		
1,2-Diphenylhydrazine	ug/l	BDL	06/03/97	WSD	10.0		
Fluoranthene	ug/l	BDL	06/03/97	WSD	10.0		
Fluorene	ug/l	ND	06/03/97	WSD	10.0		
Hexachlorobenzene	ug/l	ND	06/03/97	WSD	10.0		
Hexachlorobutadiene	ug/l	ND	06/03/97	WSD	10.0		
Hexachlorocyclopentadiene	ug/l	ND	06/03/97	WSD	10.0		
Hexachloroethane	ug/l	ND	06/03/97	WSD	10.0		
Indeno(1,2,3-cd)pyrene	ug/l	ND	06/03/97	WSD	10.0		
Isophorone	ug/l	ND	06/03/97	WSD	10.0		
2-Methylnaphthalene	ug/l	ND	06/03/97	WSD	10.0		
Naphthalene	ug/l	ND	06/03/97	WSD	10.0		
2-Nitroaniline	ug/l	ND	06/03/97	WSD	10.0		
3-Nitroaniline	ug/l	ND	06/03/97	WSD	10.0		
4-Nitroaniline	ug/l	ND	06/03/97	WSD	10.0		
Nitrobenzene	ug/l	ND	06/03/97	WSD	10.0		
N-Nitrosodimethylamine	ug/l	ND	06/03/97	WSD	10.0		
N-Nitrosodiphenylamine	ug/l	ND	06/03/97	WSD	10.0		
N-Nitroso-di-n-propylamine	ug/l	BDL	06/03/97	WSD	10.0		
Phenanthrene	ug/l	BDL	06/03/97	WSD	10.0		
Pyrene	ug/l	ND	06/03/97	WSD	30.0		
Pyridine	ug/l	ND	06/03/97	WSD	10.0		
1,2,4-Trichlorobenzene	ug/l	ND	06/03/97	WSD	10.0		

Analytical Method(s):

EPA 625

SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE, FOLLOWED BY KUDERNA-DANISH EVAPORATIVE CONCENTRATION AND QUANTITATED BY GC/MS TARGET COMPOUND ANALYSIS

MDL = Method Detection Limit
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con-test®
ANALYTICAL LABORATORY

39 Spruce Street • 2nd Floor • East Longmeadow, MA 01028 • FAX 413/525-6405 • TEL 413/525-2332

Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #1
MW-1

	Units	97B09737	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acetone	ug/l	ND	06/03/97	WSD	16.1		
Acrolein	ug/l	ND	06/03/97	WSD	20.0		
Acrylonitrile	ug/l	ND	06/03/97	WSD	7.6		
Benzene	ug/l	ND	06/03/97	WSD	0.6		
Bromodichloromethane	ug/l	ND	06/03/97	WSD	0.4		
Bromomethane	ug/l	ND	06/03/97	WSD	1.2		
Bromoform	ug/l	ND	06/03/97	WSD	1.2		
2-Butanone (MEK)	ug/l	ND	06/03/97	WSD	12.0		
Carbon Disulfide	ug/l	ND	06/03/97	WSD	0.5		
Carbon Tetrachloride	ug/l	ND	06/03/97	WSD	0.5		
Chlorobenzene	ug/l	ND	06/03/97	WSD	0.6		
Chlorodibromomethane	ug/l	ND	06/03/97	WSD	0.5		
Chloroethane	ug/l	ND	06/03/97	WSD	0.8		
2-Chloroethylvinylether	ug/l	ND	06/03/97	WSD	9.6		
Chloroform	ug/l	ND	06/03/97	WSD	0.8		
Chloromethane	ug/l	ND	06/03/97	WSD	1.2		
Dibromomethane	ug/l	ND	06/03/97	WSD	1.1		
1,2-Dichlorobenzene	ug/l	ND	06/03/97	WSD	0.8		
1,3-Dichlorobenzene	ug/l	ND	06/03/97	WSD	0.6		
1,4-Dichlorobenzene	ug/l	ND	06/03/97	WSD	0.8		
c-1,4-Dichloro-2-Butene	ug/l	ND	06/03/97	WSD	2.4		
t-1,4-Dichloro-2-Butene	ug/l	ND	06/03/97	WSD	2.1		
Dichlorodifluoromethane	ug/l	ND	06/03/97	WSD	1.0		
1,1-Dichloroethane	ug/l	ND	06/03/97	WSD	0.7		
1,2-Dichloroethane	ug/l	ND	06/03/97	WSD	0.9		
1,1-Dichloroethylene	ug/l	3.1	06/03/97	WSD	0.6		
cis-1,2-Dichloroethylene	ug/l	71.6	06/03/97	WSD	0.5		
t-1,2-Dichloroethylene	ug/l	1.2	06/03/97	WSD	0.8		
1,2-Dichloropropane	ug/l	ND	06/03/97	WSD	0.6		
cis-1,3-Dichloropropene	ug/l	ND	06/03/97	WSD	0.5		
t-1,3-Dichloropropene	ug/l	ND	06/03/97	WSD	0.4		
Ethyl Benzene	ug/l	ND	06/03/97	WSD	0.6		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #1
MW-1

	Units	97809737	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Ethyl Methacrylate	ug/l	ND	06/03/97	WSD	0.8		
2-Hexanone	ug/l	ND	06/03/97	WSD	9.7		
Iodomethane	ug/l	ND	06/03/97	WSD	0.8		
Methyl tert-Butyl Ether (MTBE)	ug/l	ND	06/03/97	WSD	0.8		
Methylene Chloride	ug/l	ND	06/03/97	WSD	3.0		
4-Methyl-2-Pentanone (MIBK)	ug/l	ND	06/03/97	WSD	8.8		
Styrene	ug/l	ND	06/03/97	WSD	0.7		
1,1,2,2-Tetrachloroethane	ug/l	ND	06/03/97	WSD	1.4		
Tetrachloroethylene	ug/l	ND	06/03/97	WSD	0.4		
Toluene	ug/l	ND	06/03/97	WSD	0.7		
1,1,1-Trichloroethane	ug/l	ND	06/03/97	WSD	0.9		
1,1,2-Trichloroethane	ug/l	ND	06/03/97	WSD	0.7		
Trichloroethylene	ug/l	275	06/03/97	WSD	1.0		
Trichlorofluoromethane	ug/l	ND	06/03/97	WSD	0.7		
1,2,3-Trichloropropane	ug/l	ND	06/03/97	WSD	1.3		
Vinyl Acetate	ug/l	ND	06/03/97	WSD	16.4		
Vinyl Chloride	ug/l	17.9	06/03/97	WSD	0.3		
m-Xylene	ug/l	ND	06/03/97	WSD	1.3		
o&p-Xylene	ug/l	ND	06/03/97	WSD	0.5		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #2
MW-2

	Units	97809741	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acetone	ug/l	ND	06/03/97	WSD	161		
Acrolein	ug/l	ND	06/03/97	WSD	200		
Acrylonitrile	ug/l	ND	06/03/97	WSD	76.0		
Benzene	ug/l	ND	06/03/97	WSD	6.0		
Bromodichloromethane	ug/l	ND	06/03/97	WSD	4.0		
Bromomethane	ug/l	ND	06/03/97	WSD	12.0		
Bromoform	ug/l	ND	06/03/97	WSD	12.0		
2-Butanone (MEK)	ug/l	ND	06/03/97	WSD	120		
Carbon Disulfide	ug/l	ND	06/03/97	WSD	5.0		
Carbon Tetrachloride	ug/l	ND	06/03/97	WSD	5.0		
Chlorobenzene	ug/l	ND	06/03/97	WSD	6.0		
Chlorodibromomethane	ug/l	ND	06/03/97	WSD	5.0		
Chloroethane	ug/l	ND	06/03/97	WSD	8.0		
2-Chloroethylvinylether	ug/l	ND	06/03/97	WSD	96.0		
Chloroform	ug/l	ND	06/03/97	WSD	8.0		
Chloromethane	ug/l	ND	06/03/97	WSD	12.0		
Dibromomethane	ug/l	ND	06/03/97	WSD	11.0		
1,2-Dichlorobenzene	ug/l	ND	06/03/97	WSD	8.0		
1,3-Dichlorobenzene	ug/l	ND	06/03/97	WSD	6.0		
1,4-Dichlorobenzene	ug/l	ND	06/03/97	WSD	8.0		
c-1,4-Dichloro-2-Butene	ug/l	ND	06/03/97	WSD	24.0		
t-1,4-Dichloro-2-Butene	ug/l	ND	06/03/97	WSD	21.0		
Dichlorodifluoromethane	ug/l	ND	06/03/97	WSD	10.0		
1,1-Dichloroethane	ug/l	ND	06/03/97	WSD	7.0		
1,2-Dichloroethane	ug/l	ND	06/03/97	WSD	9.0		
1,1-Dichloroethylene	ug/l	ND	06/03/97	WSD	6.0		
cis-1,2-Dichloroethylene	ug/l	ND	06/03/97	WSD	5.0		
t-1,2-Dichloroethylene	ug/l	ND	06/03/97	WSD	8.0		
1,2-Dichloropropane	ug/l	ND	06/03/97	WSD	6.0		
cis-1,3-Dichloropropene	ug/l	ND	06/03/97	WSD	5.0		
t-1,3-Dichloropropene	ug/l	ND	06/03/97	WSD	4.0		
Ethyl Benzene	ug/l	ND	06/03/97	WSD	6.0		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #2
MW-2

	Units	97809741	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Ethyl Methacrylate	ug/l	ND	06/03/97	WSD	8.0		
2-Hexanone	ug/l	ND	06/03/97	WSD	97.0		
Iodomethane	ug/l	ND	06/03/97	WSD	8.0		
Methyl tert-Butyl Ether (MTBE)	ug/l	2110	06/03/97	WSD	8.0		
Methylene Chloride	ug/l	61.0	06/03/97	WSD	30.0		
4-Methyl-2-Pentanone (MIBK)	ug/l	ND	06/03/97	WSD	88.0		
Styrene	ug/l	ND	06/03/97	WSD	7.0		
1,1,2,2-Tetrachloroethane	ug/l	ND	06/03/97	WSD	14.0		
Tetrachloroethylene	ug/l	ND	06/03/97	WSD	4.0		
Toluene	ug/l	ND	06/03/97	WSD	7.0		
1,1,1-Trichloroethane	ug/l	ND	06/03/97	WSD	9.0		
1,1,2-Trichloroethane	ug/l	ND	06/03/97	WSD	7.0		
Trichloroethylene	ug/l	ND	06/03/97	WSD	10.0		
Trichlorofluoromethane	ug/l	ND	06/03/97	WSD	7.0		
1,2,3-Trichloropropane	ug/l	ND	06/03/97	WSD	13.0		
Vinyl Acetate	ug/l	ND	06/03/97	WSD	164		
Vinyl Chloride	ug/l	ND	06/03/97	WSD	3.0		
m-Xylene	ug/l	ND	06/03/97	WSD	13.0		
o&p-Xylene	ug/l	ND	06/03/97	WSD	5.0		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97809753	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acetone	ug/l	ND	06/03/97	WSD	16.1		
Acrolein	ug/l	ND	06/03/97	WSD	20.0		
Acrylonitrile	ug/l	ND	06/03/97	WSD	7.6		
Benzene	ug/l	ND	06/03/97	WSD	0.6		
Bromodichloromethane	ug/l	ND	06/03/97	WSD	0.4		
Bromomethane	ug/l	ND	06/03/97	WSD	1.2		
Bromoform	ug/l	ND	06/03/97	WSD	1.2		
2-Butanone (MEK)	ug/l	ND	06/03/97	WSD	12.0		
Carbon Disulfide	ug/l	ND	06/03/97	WSD	0.5		
Carbon Tetrachloride	ug/l	ND	06/03/97	WSD	0.5		
Chlorobenzene	ug/l	ND	06/03/97	WSD	0.6		
Chlorodibromomethane	ug/l	ND	06/03/97	WSD	0.5		
Chloroethane	ug/l	ND	06/03/97	WSD	0.8		
2-Chloroethylvinylether	ug/l	ND	06/03/97	WSD	9.6		
Chloroform	ug/l	ND	06/03/97	WSD	0.8		
Chloromethane	ug/l	ND	06/03/97	WSD	1.2		
Dibromomethane	ug/l	ND	06/03/97	WSD	1.1		
1,2-Dichlorobenzene	ug/l	ND	06/03/97	WSD	0.8		
1,3-Dichlorobenzene	ug/l	ND	06/03/97	WSD	0.6		
1,4-Dichlorobenzene	ug/l	ND	06/03/97	WSD	0.8		
c-1,4-Dichloro-2-Butene	ug/l	ND	06/03/97	WSD	2.4		
t-1,4-Dichloro-2-Butene	ug/l	ND	06/03/97	WSD	2.1		
Dichlorodifluoromethane	ug/l	ND	06/03/97	WSD	1.0		
1,1-Dichloroethane	ug/l	ND	06/03/97	WSD	0.7		
1,2-Dichloroethane	ug/l	ND	06/03/97	WSD	0.9		
1,1-Dichloroethylene	ug/l	ND	06/03/97	WSD	0.6		
cis-1,2-Dichloroethylene	ug/l	ND	06/03/97	WSD	0.5		
t-1,2-Dichloroethylene	ug/l	ND	06/03/97	WSD	0.8		
1,2-Dichloropropane	ug/l	ND	06/03/97	WSD	0.6		
cis-1,3-Dichloropropene	ug/l	ND	06/03/97	WSD	0.5		
t-1,3-Dichloropropene	ug/l	ND	06/03/97	WSD	0.4		
Ethyl Benzene	ug/l	ND	06/03/97	WSD	0.6		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97809753	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
thyl Methacrylate	ug/l	ND	06/03/97	WSD	0.8		
2-Hexanone	ug/l	ND	06/03/97	WSD	9.7		
Iodomethane	ug/l	ND	06/03/97	WSD	0.8		
ethyl tert-Butyl Ether (MTBE)	ug/l	ND	06/03/97	WSD	0.8		
ethylene Chloride	ug/l	ND	06/03/97	WSD	3.0		
4-Methyl-2-Pentanone (MIBK)	ug/l	ND	06/03/97	WSD	8.8		
tyrene	ug/l	ND	06/03/97	WSD	0.7		
,1,2,2-Tetrachloroethane	ug/l	ND	06/03/97	WSD	1.4		
Tetrachloroethylene	ug/l	ND	06/03/97	WSD	0.4		
Toluene	ug/l	ND	06/03/97	WSD	0.7		
,1,1-Trichloroethane	ug/l	ND	06/03/97	WSD	0.9		
,1,2-Trichloroethane	ug/l	ND	06/03/97	WSD	0.7		
Trichloroethylene	ug/l	ND	06/03/97	WSD	1.0		
richlorofluoromethane	ug/l	ND	06/03/97	WSD	0.7		
,2,3-Trichloropropane	ug/l	ND	06/03/97	WSD	1.3		
Vinyl Acetate	ug/l	ND	06/03/97	WSD	16.4		
inyl Chloride	ug/l	ND	06/03/97	WSD	0.3		
-Xylene	ug/l	ND	06/03/97	WSD	1.3		
o&p-Xylene	ug/l	ND	06/03/97	WSD	0.5		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #4
MW-4

	Units	97B09745	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acetone	ug/l	ND	06/03/97	WSD	80.5		
Acrolein	ug/l	ND	06/03/97	WSD	100		
Acrylonitrile	ug/l	ND	06/03/97	WSD	38.0		
Benzene	ug/l	ND	06/03/97	WSD	3.0		
Bromodichloromethane	ug/l	ND	06/03/97	WSD	2.0		
Bromomethane	ug/l	ND	06/03/97	WSD	6.0		
Bromoform	ug/l	ND	06/03/97	WSD	6.0		
2-Butanone (MEK)	ug/l	ND	06/03/97	WSD	60.0		
Carbon Disulfide	ug/l	ND	06/03/97	WSD	2.5		
Carbon Tetrachloride	ug/l	ND	06/03/97	WSD	2.5		
Chlorobenzene	ug/l	ND	06/03/97	WSD	3.0		
Chlorodibromomethane	ug/l	ND	06/03/97	WSD	2.5		
Chloroethane	ug/l	ND	06/03/97	WSD	4.0		
2-Chloroethylvinylether	ug/l	ND	06/03/97	WSD	48.0		
Chloroform	ug/l	ND	06/03/97	WSD	4.0		
Chloromethane	ug/l	ND	06/03/97	WSD	6.0		
Dibromomethane	ug/l	ND	06/03/97	WSD	5.5		
1,2-Dichlorobenzene	ug/l	ND	06/03/97	WSD	4.0		
1,3-Dichlorobenzene	ug/l	ND	06/03/97	WSD	3.0		
1,4-Dichlorobenzene	ug/l	ND	06/03/97	WSD	4.0		
c-1,4-Dichloro-2-Butene	ug/l	ND	06/03/97	WSD	12.0		
t-1,4-Dichloro-2-Butene	ug/l	ND	06/03/97	WSD	10.5		
Dichlorodifluoromethane	ug/l	ND	06/03/97	WSD	5.0		
1,1-Dichloroethane	ug/l	ND	06/03/97	WSD	3.5		
1,2-Dichloroethane	ug/l	ND	06/03/97	WSD	4.5		
1,1-Dichloroethylene	ug/l	ND	06/03/97	WSD	3.0		
cis-1,2-Dichloroethylene	ug/l	ND	06/03/97	WSD	2.5		
t-1,2-Dichloroethylene	ug/l	ND	06/03/97	WSD	4.0		
1,2-Dichloropropane	ug/l	ND	06/03/97	WSD	3.0		
cis-1,3-Dichloropropene	ug/l	ND	06/03/97	WSD	2.5		
t-1,3-Dichloropropene	ug/l	ND	06/03/97	WSD	2.0		
Ethyl Benzene	ug/l	BDL	06/03/97	WSD	3.0		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #4
MW-4

	Units	97809745	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Ethyl Methacrylate	ug/l	ND	06/03/97	WSD	4.0		
2-Hexanone	ug/l	ND	06/03/97	WSD	48.5		
Iodomethane	ug/l	ND	06/03/97	WSD	4.0		
Methyl tert-Butyl Ether (MTBE)	ug/l	ND	06/03/97	WSD	4.0		
Methylene Chloride	ug/l	BDL	06/03/97	WSD	15.0		
4-Methyl-2-Pentanone (MIBK)	ug/l	ND	06/03/97	WSD	44.0		
Styrene	ug/l	ND	06/03/97	WSD	3.5		
1,1,2,2-Tetrachloroethane	ug/l	ND	06/03/97	WSD	7.0		
Tetrachloroethylene	ug/l	ND	06/03/97	WSD	2.0		
Toluene	ug/l	BDL	06/03/97	WSD	3.5		
1,1,1-Trichloroethane	ug/l	ND	06/03/97	WSD	4.5		
1,1,2-Trichloroethane	ug/l	ND	06/03/97	WSD	3.5		
Trichloroethylene	ug/l	37.0	06/03/97	WSD	5.0		
Trichlorofluoromethane	ug/l	ND	06/03/97	WSD	3.5		
1,2,3-Trichloropropane	ug/l	ND	06/03/97	WSD	6.5		
Vinyl Acetate	ug/l	ND	06/03/97	WSD	82.0		
Vinyl Chloride	ug/l	ND	06/03/97	WSD	1.5		
m-Xylene	ug/l	BDL	06/03/97	WSD	6.5		
o&p-Xylene	ug/l	ND	06/03/97	WSD	2.5		

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ANALYTICAL LABORATORY

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97809761	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acetone	ug/l	ND	06/03/97	WSD	16.1		
Acrolein	ug/l	ND	06/03/97	WSD	20.0		
Acrylonitrile	ug/l	ND	06/03/97	WSD	7.6		
Benzene	ug/l	ND	06/03/97	WSD	0.6		
Bromodichloromethane	ug/l	ND	06/03/97	WSD	0.4		
Bromomethane	ug/l	ND	06/03/97	WSD	1.2		
Bromoform	ug/l	ND	06/03/97	WSD	1.2		
2-Butanone (MEK)	ug/l	ND	06/03/97	WSD	12.0		
Carbon Disulfide	ug/l	ND	06/03/97	WSD	0.5		
Carbon Tetrachloride	ug/l	ND	06/03/97	WSD	0.5		
Chlorobenzene	ug/l	3.7	06/03/97	WSD	0.6		
Chlorodibromomethane	ug/l	ND	06/03/97	WSD	0.5		
Chloroethane	ug/l	14.5	06/03/97	WSD	0.8		
2-Chloroethylvinylether	ug/l	ND	06/03/97	WSD	9.6		
Chloroform	ug/l	ND	06/03/97	WSD	0.8		
Chloromethane	ug/l	ND	06/03/97	WSD	1.2		
Dibromomethane	ug/l	ND	06/03/97	WSD	1.1		
1,2-Dichlorobenzene	ug/l	ND	06/03/97	WSD	0.8		
1,3-Dichlorobenzene	ug/l	ND	06/03/97	WSD	0.6		
1,4-Dichlorobenzene	ug/l	ND	06/03/97	WSD	0.8		
c-1,4-Dichloro-2-Butene	ug/l	ND	06/03/97	WSD	2.4		
t-1,4-Dichloro-2-Butene	ug/l	ND	06/03/97	WSD	2.1		
Dichlorodifluoromethane	ug/l	ND	06/03/97	WSD	1.0		
1,1-Dichloroethane	ug/l	ND	06/03/97	WSD	0.7		
1,2-Dichloroethane	ug/l	ND	06/03/97	WSD	0.9		
1,1-Dichloroethylene	ug/l	ND	06/03/97	WSD	0.6		
cis-1,2-Dichloroethylene	ug/l	ND	06/03/97	WSD	0.5		
t-1,2-Dichloroethylene	ug/l	ND	06/03/97	WSD	0.8		
1,2-Dichloropropane	ug/l	ND	06/03/97	WSD	0.6		
cis-1,3-Dichloropropene	ug/l	ND	06/03/97	WSD	0.5		
t-1,3-Dichloropropene	ug/l	ND	06/03/97	WSD	0.4		
Ethyl Benzene	ug/l	ND	06/03/97	WSD	0.6		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97809761	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
:thyl Methacrylate	ug/l	ND	06/03/97	WSD	0.8		
2-Hexanone	ug/l	ND	06/03/97	WSD	9.7		
Iodomethane	ug/l	ND	06/03/97	WSD	0.8		
Iethyl tert-Butyl Ether (MTBE)	ug/l	ND	06/03/97	WSD	0.8		
.Iethylene Chloride	ug/l	ND	06/03/97	WSD	3.0		
4-Methyl-2-Pentanone (MIBK)	ug/l	ND	06/03/97	WSD	8.8		
Styrene	ug/l	ND	06/03/97	WSD	0.7		
,1,2,2-Tetrachloroethane	ug/l	ND	06/03/97	WSD	1.4		
Tetrachloroethylene	ug/l	ND	06/03/97	WSD	0.4		
Toluene	ug/l	ND	06/03/97	WSD	0.7		
1,1,1-Trichloroethane	ug/l	ND	06/03/97	WSD	0.9		
1,1,2-Trichloroethane	ug/l	ND	06/03/97	WSD	0.7		
Trichloroethylene	ug/l	16.7	06/03/97	WSD	1.0		
Trichlorofluoromethane	ug/l	ND	06/03/97	WSD	0.7		
1,2,3-Trichloropropane	ug/l	ND	06/03/97	WSD	1.3		
Vinyl Acetate	ug/l	ND	06/03/97	WSD	16.4		
Vinyl Chloride	ug/l	ND	06/03/97	WSD	0.3		
m-Xylene	ug/l	ND	06/03/97	WSD	1.3		
o&p-Xylene	ug/l	ND	06/03/97	WSD	0.5		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #6
MW-6

	Units	97B09749	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Acetone	ug/l	ND	06/03/97	WSD	16.1		
Acrolein	ug/l	ND	06/03/97	WSD	20.0		
Acrylonitrile	ug/l	ND	06/03/97	WSD	7.6		
Benzene	ug/l	ND	06/03/97	WSD	0.6		
Bromodichloromethane	ug/l	ND	06/03/97	WSD	0.4		
Bromomethane	ug/l	ND	06/03/97	WSD	1.2		
Bromoform	ug/l	ND	06/03/97	WSD	1.2		
2-Butanone (MEK)	ug/l	ND	06/03/97	WSD	12.0		
Carbon Disulfide	ug/l	ND	06/03/97	WSD	0.5		
Carbon Tetrachloride	ug/l	ND	06/03/97	WSD	0.5		
Chlorobenzene	ug/l	ND	06/03/97	WSD	0.6		
Chlorodibromomethane	ug/l	ND	06/03/97	WSD	0.5		
Chloroethane	ug/l	ND	06/03/97	WSD	0.8		
2-Chloroethylvinylether	ug/l	ND	06/03/97	WSD	9.6		
Chloroform	ug/l	ND	06/03/97	WSD	0.8		
Chloromethane	ug/l	ND	06/03/97	WSD	1.2		
Dibromomethane	ug/l	ND	06/03/97	WSD	1.1		
1,2-Dichlorobenzene	ug/l	ND	06/03/97	WSD	0.8		
1,3-Dichlorobenzene	ug/l	ND	06/03/97	WSD	0.6		
1,4-Dichlorobenzene	ug/l	ND	06/03/97	WSD	0.8		
c-1,4-Dichloro-2-Butene	ug/l	ND	06/03/97	WSD	2.4		
t-1,4-Dichloro-2-Butene	ug/l	ND	06/03/97	WSD	2.1		
Dichlorodifluoromethane	ug/l	ND	06/03/97	WSD	1.0		
1,1-Dichloroethane	ug/l	ND	06/03/97	WSD	0.7		
1,2-Dichloroethane	ug/l	ND	06/03/97	WSD	0.9		
1,1-Dichloroethylene	ug/l	ND	06/03/97	WSD	0.6		
cis-1,2-Dichloroethylene	ug/l	ND	06/03/97	WSD	0.5		
t-1,2-Dichloroethylene	ug/l	ND	06/03/97	WSD	0.8		
1,2-Dichloropropane	ug/l	ND	06/03/97	WSD	0.6		
cis-1,3-Dichloropropene	ug/l	ND	06/03/97	WSD	0.5		
t-1,3-Dichloropropene	ug/l	ND	06/03/97	WSD	0.4		
Ethyl Benzene	ug/l	ND	06/03/97	WSD	0.6		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97B09756	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Ammonia	mg/l	1.96	06/02/97	TAM	1.00		

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97B09764	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Ammonia	mg/l	ND	06/02/97	TAM	1.00		

Analytical Method(s):

EPA 350.2

ALKALINE STEAM DISTILLATION, ABSORPTION IN BORIC ACID SOLUTION, AND TITRATION WITH 0.02 N SULFURIC ACID

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97809755	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
BOD	mg/l	<2.0	06/03/97	SBP	2.0		

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97809763	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
BOD	mg/l	2.8	06/03/97	SBP	2.0		

Analytical Method(s):

SM 5210B

DISSOLVED OXYGEN CONSUMPTION IS MEASURED AFTER 5 DAYS OF INCUBATION AT 20 DEGREES C. BY THE OXYGEN PROBE METHOD

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97809755	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
hloride	mg/l	5.40	06/03/97	RCL	1.00		

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97809763	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Chloride	mg/l	6.60	06/03/97	RCL	1.00		

nalytical Method(s):

EPA 325.2

AUTOMATED FLOW INJECTION COLORIMETRIC ANALYSIS IN WHICH THIOCYANATE IS LIBERATED FROM A MERCURIC COMPLEX IN THE PRESENCE OF CHLORIDE AND FERRIC ION TO PRODUCE FERRIC THIOCYANATE IN PROPORTION TO THE CHLORIDE CONCENTRATION.

MDL = Method Detection Limit
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NM = Not Measured

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97809758	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Conductivity	umhos/cm	740	05/29/97	KMD	---	-----	---

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97809766	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Conductivity	umhos/cm	520	05/29/97	KMD	---	-----	---

Analytical Method(s):

SM 2510 B

MEASUREMENT WITH WHEATSTONE BRIDGE TYPE CONDUCTIVITY METER

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97B09757	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Iron	mg/l	15.0	06/06/97	KLF	0.02		

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97B09765	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Iron	mg/l	138	06/06/97	KLF	0.02		

Analytical Method(s):

EPA 200.7

SAMPLES ARE DIGESTED WITH MINERAL ACIDS AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY (ICP).

L = Method Detection Limit
= Not Detected
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= Not Measured

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #1
MW-1

	Units	97809738	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-D	ug/l	ND	06/11/97	JE	1.00		
2,4,5-TP	ug/l	ND	06/11/97	JE	0.20		

Sampled: 05/27/97
MONITORING WELL #2
MW-2

	Units	97809742	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-D	ug/l	ND	06/11/97	JE	1.00		
2,4,5-TP	ug/l	ND	06/11/97	JE	0.20		

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97809754	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-D	ug/l	ND	06/11/97	JE	1.00		
2,4,5-TP	ug/l	ND	06/11/97	JE	0.20		

Sampled: 05/27/97
MONITORING WELL #4
MW-4

	Units	97809746	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-D	ug/l	ND	06/11/97	JE	1.00		
2,4,5-TP	ug/l	ND	06/11/97	JE	0.20		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97B09762	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-D	ug/l	ND	06/11/97	JE	1.00		
2,4,5-TP	ug/l	ND	06/11/97	JE	0.20		

Sampled: 05/27/97
MONITORING WELL #6
MW-6

	Units	97B09750	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
2,4-D	ug/l	ND	06/11/97	JE	1.00		
2,4,5-TP	ug/l	ND	06/11/97	JE	0.20		

Analytical Method(s):

SW846 8150

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #1
MW-1

	Units	97809736	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	mg/l	ND	06/05/97	KLF	0.02		
Arsenic	mg/l	ND	06/05/97	KLF	0.05		
Beryllium	mg/l	ND	06/05/97	KLF	0.0010		
Cadmium	mg/l	0.0030	06/05/97	KLF	0.0005		
Chromium	mg/l	ND	06/05/97	KLF	0.004		
Copper	mg/l	ND	06/05/97	KLF	0.0010		
Lead	mg/l	ND	06/05/97	KLF	0.02		
Mercury	mg/l	ND	06/04/97	APP	0.0002		
Nickel	mg/l	0.014	06/05/97	KLF	0.002		
Selenium	mg/l	ND	06/05/97	KLF	0.05		
Silver	mg/l	ND	06/05/97	KLF	0.005		
Thallium	mg/l	ND	06/05/97	KLF	0.10		
Zinc	mg/l	0.213	06/05/97	KLF	0.005		

Sampled: 05/27/97
MONITORING WELL #2
MW-2

	Units	97809740	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	mg/l	ND	06/05/97	KLF	0.02		
Arsenic	mg/l	ND	06/05/97	KLF	0.05		
Beryllium	mg/l	ND	06/05/97	KLF	0.0010		
Cadmium	mg/l	ND	06/05/97	KLF	0.0005		
Chromium	mg/l	ND	06/05/97	KLF	0.004		
Copper	mg/l	ND	06/05/97	KLF	0.0010		
Lead	mg/l	ND	06/05/97	KLF	0.02		
Mercury	mg/l	ND	06/04/97	APP	0.0002		
Nickel	mg/l	0.059	06/05/97	KLF	0.002		
Selenium	mg/l	ND	06/05/97	KLF	0.05		
Silver	mg/l	ND	06/05/97	KLF	0.005		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #2
MW-2

	Units	97809740	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Thallium	mg/l	ND	06/05/97	KLF	0.10		
Zinc	mg/l	0.020	06/05/97	KLF	0.005		

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97809752	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	mg/l	ND	06/05/97	KLF	0.02		
Arsenic	mg/l	ND	06/05/97	KLF	0.05		
Beryllium	mg/l	ND	06/05/97	KLF	0.0010		
Cadmium	mg/l	ND	06/05/97	KLF	0.0005		
Chromium	mg/l	ND	06/05/97	KLF	0.004		
Copper	mg/l	0.0015	06/05/97	KLF	0.0010		
Lead	mg/l	ND	06/05/97	KLF	0.02		
Mercury	mg/l	ND	06/04/97	APP	0.0002		
Nickel	mg/l	0.009	06/05/97	KLF	0.002		
Selenium	mg/l	ND	06/05/97	KLF	0.05		
Silver	mg/l	ND	06/05/97	KLF	0.005		
Thallium	mg/l	ND	06/05/97	KLF	0.10		
Zinc	mg/l	0.118	06/05/97	KLF	0.005		

Sampled: 05/27/97
MONITORING WELL #4
MW-4

	Units	97809744	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	mg/l	ND	06/05/97	KLF	0.02		

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #4
MW-4

	Units	97B09744	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Arsenic	mg/l	ND	06/05/97	KLF	0.05		
Beryllium	mg/l	ND	06/05/97	KLF	0.0010		
Cadmium	mg/l	ND	06/05/97	KLF	0.0005		
Chromium	mg/l	ND	06/05/97	KLF	0.004		
Copper	mg/l	0.0824	06/05/97	KLF	0.0010		
Lead	mg/l	ND	06/05/97	KLF	0.02		
Mercury	mg/l	ND	06/04/97	APP	0.0002		
Nickel	mg/l	0.284	06/05/97	KLF	0.002		
Selenium	mg/l	ND	06/05/97	KLF	0.05		
Silver	mg/l	ND	06/05/97	KLF	0.005		
Thallium	mg/l	ND	06/05/97	KLF	0.10		
Zinc	mg/l	0.298	06/05/97	KLF	0.005		

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97B09760	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	mg/l	ND	06/05/97	KLF	0.02		
Arsenic	mg/l	ND	06/05/97	KLF	0.05		
Beryllium	mg/l	ND	06/05/97	KLF	0.0010		
Cadmium	mg/l	ND	06/05/97	KLF	0.0005		
Chromium	mg/l	ND	06/05/97	KLF	0.004		
Copper	mg/l	0.0028	06/05/97	KLF	0.0010		
Lead	mg/l	ND	06/05/97	KLF	0.02		
Mercury	mg/l	ND	06/04/97	APP	0.0002		
Nickel	mg/l	0.012	06/05/97	KLF	0.002		
Selenium	mg/l	ND	06/05/97	KLF	0.05		
Silver	mg/l	ND	06/05/97	KLF	0.005		
Thallium	mg/l	ND	06/05/97	KLF	0.10		

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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ANALYTICAL LABORATORY

39 Spruce Street • 2nd Floor • East Longmeadow, MA 01028 • FAX 413/525-6405 06/13/97 413/525-2332

Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97809760	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Zinc	mg/l	0.022	06/05/97	KLF	0.005		

Sampled: 05/27/97
MONITORING WELL #6
MW-6

	Units	97809748	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	mg/l	ND	06/05/97	KLF	0.02		
Arsenic	mg/l	ND	06/05/97	KLF	0.05		
Beryllium	mg/l	ND	06/05/97	KLF	0.0010		
Cadmium	mg/l	ND	06/05/97	KLF	0.0005		
Chromium	mg/l	ND	06/05/97	KLF	0.004		
Copper	mg/l	0.0016	06/05/97	KLF	0.0010		
Lead	mg/l	ND	06/05/97	KLF	0.02		
Mercury	mg/l	ND	06/04/97	APP	0.0002		
Nickel	mg/l	ND	06/05/97	KLF	0.002		
Selenium	mg/l	ND	06/05/97	KLF	0.05		
Silver	mg/l	ND	06/05/97	KLF	0.005		
Thallium	mg/l	ND	06/05/97	KLF	0.10		
Zinc	mg/l	0.014	06/05/97	KLF	0.005		

Analytical Method(s):

EPA 200.7/EPA 245.1

ALL METALS EXCEPT MERCURY: EPA 200.7

SAMPLES ARE DIGESTED WITH MINERAL ACIDS AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY. (ICP)

MDL = Method Detection Limit
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NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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MERCURY: EPA 245.1

SAMPLES ARE DIGESTED WITH MINERAL ACIDS AND ANALYZED BY MANUAL COLD VAPOR ATOMIC ABSORPTION SPECTROPHOTOMETRY.

MDL = Method Detection Limit
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NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97B09757	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
anganese	mg/l	18.9	06/06/97	KLF	0.0010		

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97B09765	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Manganese	mg/l	49.8	06/06/97	KLF	0.0010		

nalytical Method(s):

EPA 200.7

SAMPLES ARE DIGESTED WITH MINERAL ACIDS AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY (ICP).

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97B09755	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Nitrate	mg/l	ND	05/29/97	RCL	0.05		

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97B09763	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Nitrate	mg/l	ND	05/29/97	RCL	0.05		

Analytical Method(s):

SM 4500-NO3 F

AUTOMATED-COLORIMETRIC ANALYSIS WITH SULFANILAMIDE, AMMONIUM CHLORIDE AND CADMIUM REDUCTION

MDL = Method Detection Limit
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BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #1
MW-1

	Units	97809738	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
PCB 1221	ug/l	ND	05/31/97	JB			
PCB 1232	ug/l	ND	05/31/97	JB			
PCB 1242/1016	ug/l	ND	05/31/97	JB			
PCB 1248	ug/l	ND	05/31/97	JB			
PCB 1254	ug/l	ND	05/31/97	JB			
PCB 1260	ug/l	ND	05/31/97	JB			
Total PCB	ug/l	ND	05/31/97	JB	0.10		

Sampled: 05/27/97
MONITORING WELL #2
MW-2

	Units	97809742	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
PCB 1221	ug/l	ND	05/31/97	JB			
PCB 1232	ug/l	ND	05/31/97	JB			
PCB 1242/1016	ug/l	ND	05/31/97	JB			
PCB 1248	ug/l	ND	05/31/97	JB			
PCB 1254	ug/l	ND	05/31/97	JB			
PCB 1260	ug/l	ND	05/31/97	JB			
Total PCB	ug/l	ND	05/31/97	JB	0.10		

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97809754	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
PCB 1221	ug/l	ND	05/31/97	JB			
PCB 1232	ug/l	ND	05/31/97	JB			

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SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97809754	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
PCB 1242/1016	ug/l	ND	05/31/97	JB			
PCB 1248	ug/l	ND	05/31/97	JB			
PCB 1254	ug/l	ND	05/31/97	JB			
PCB 1260	ug/l	ND	05/31/97	JB			
Total PCB	ug/l	ND	05/31/97	JB	0.10		

Sampled: 05/27/97
MONITORING WELL #4
MW-4

	Units	97809746	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
PCB 1221	ug/l	ND	05/31/97	JB			
PCB 1232	ug/l	ND	05/31/97	JB			
PCB 1242/1016	ug/l	ND	05/31/97	JB			
PCB 1248	ug/l	ND	05/31/97	JB			
PCB 1254	ug/l	ND	05/31/97	JB			
PCB 1260	ug/l	ND	05/31/97	JB			
Total PCB	ug/l	ND	05/31/97	JB	0.10		

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97809762	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
PCB 1221	ug/l	ND	05/31/97	JB			
PCB 1232	ug/l	ND	05/31/97	JB			
PCB 1242/1016	ug/l	ND	05/31/97	JB			
PCB 1248	ug/l	ND	05/31/97	JB			

MDL = Method Detection Limit
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BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97809762	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
CB 1254	ug/l	ND	05/31/97	JB			
CB 1260	ug/l	ND	05/31/97	JB			
Total PCB	ug/l	ND	05/31/97	JB	0.10		

Sampled: 05/27/97
MONITORING WELL #6
MW-6

	Units	97809750	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
CB 1221	ug/l	ND	05/31/97	JB			
PCB 1232	ug/l	ND	05/31/97	JB			
PCB 1242/1016	ug/l	ND	05/31/97	JB			
CB 1248	ug/l	ND	05/31/97	JB			
CB 1254	ug/l	ND	05/31/97	JB			
PCB 1260	ug/l	ND	05/31/97	JB			
Total PCB	ug/l	ND	05/31/97	JB	0.10		

Analytical Method(s):

EPA 608

SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE, SOLVENT EXCHANGED WITH HEXANE, CONCENTRATED BY KUDERNA-DANISH EVAPORATIVE METHODS, AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION.

MDL = Method Detection Limit
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BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97809758	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
pH	units	6.45	05/28/97	ALB			

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97809766	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
pH	units	6.07	05/28/97	ALB			

Analytical Method(s):

EPA 150.1

ELECTRODE DETERMINATION

MDL = Method Detection Limit
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BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97B09758	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Dissolved Solids (TDS)	mg/l	468	05/31/97	ALB	5.0		

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97B09766	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Dissolved Solids (TDS)	mg/l	280	05/31/97	ALB	5.0		

Analytical Method(s):

SM 2540 C

GRAVIMETRIC DETERMINATION OF TOTAL SOLIDS LEFT IN FILTRATE
AFTER DRYING AT 180 C.

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #1
MW-1

	Units	97B09735	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/l	BDL	06/05/97	AMC	0.42		

Sampled: 05/27/97
MONITORING WELL #2
MW-2

	Units	97B09739	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/l	0.65	06/05/97	AMC	0.42		

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97B09751	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/l	8.93	06/05/97	AMC	0.41		

Sampled: 05/27/97
MONITORING WELL #4
MW-4

	Units	97B09743	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/l	ND	06/05/97	AMC	0.42		

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BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97809759	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/l	ND	06/05/97	AMC	0.42		

Sampled: 05/27/97
MONITORING WELL #6
MW-6

	Units	97809747	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/l	16.1	06/05/97	AMC	0.42		

Analytical Method(s):

EPA 418.1

INFRA-RED DETERMINATION FOLLOWING LIQUID-LIQUID EXTRACTION OF HYDROCARBONS INTO 1,1,2-TRICHLORO- 1,2,2-TRIFLUOROETHANE (FREON 113)

MDL = Method Detection Limit
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NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order Number: A0163
Project Number: PROJ.# A0163

LIMS-BAT #: LIMS-29802
Job Number: 29802
Sample Matrix: GRND WATER

Sampled: 05/27/97
MONITORING WELL #3
MW-3

	Units	97B09758	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Suspended Solids (TSS)	mg/l	76	05/29/97	ALB	10		

Sampled: 05/27/97
MONITORING WELL #5
MW-5

	Units	97B09766	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Suspended Solids (TSS)	mg/l	520	05/29/97	ALB	10		

Analytical Method(s):

SM 2540 D

GRAVIMETRIC DETERMINATION OF TOTAL SOLIDS RETAINED ON A GLASS FIBER FILTER AFTER DRYING AT 103-105 C.

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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The following notes were attached to the reported analysis:

Sample: 97B09762

ALL ACID FRACTION COMPOUNDS NOT REPORTED DUE TO UNACCEPTABLE SURROGATE STANDARD RECOVERIES. NO SAMPLE REMAINED FOR RE-EXTRACTION.

Sample: 97B09736

Analysis: Mercury
SAMPLES WERE FILTERED PRIOR TO PRESERVATION. RESULTS ARE FOR DISSOLVED MERCURY NOT TOTAL.

Sample: 97B09736

Analysis: Silver
SAMPLES WERE FILTERED IN THE LABORATORY PRIOR TO PRESERVATION.
ALL RESULTS ARE FOR DISSOLVED METALS CONTENT.

Samples: 97B09738, 97B09754

ACID FRACTION ELEVATED LIMITS OF DETECTION DUE TO SAMPLE MATRIX INTERFERENCES.

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BDL = Below Detection Limit
NM = Not Measured

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 06/13/97 Lims Bat #: LIMS-29802

QC Batch Number: BOD-0487

Sample Id	Analysis	QC Analysis	Values	Units	Limits
STDADD-05869	BOD	Standard Measured	170.0	mg/l	130.0-232.0
		Standard Amt Added	200.0	mg/l	
		Standard % Recovery	85.0	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GC/ECD-1302

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-08087	PCB 1232	Blank	0.00	ug/l	
	PCB 1242/1016	Blank	0.00	ug/l	
	PCB 1254	Blank	0.00	ug/l	
	PCB 1260	Blank	0.00	ug/l	
	PCB 1248	Blank	0.00	ug/l	
	PCB 1221	Blank	0.00	ug/l	
	Total PCB	Blank	<0.05	ug/l	
	Dibutylchlorendate (	Blank	75.0	%	
LFBLANK-04002	PCB 1260	Lab Fort Blank Amt.	1.00	ug/l	
		Lab Fort Blk. Found	1.06	ug/l	
		Lab Fort Blk. % Rec.	106.00	%	
	Total PCB	Lab Fort Blank Amt.	1.00	ug/l	
		Lab Fort Blk. Found	1.06	ug/l	
		Lab Fort Blk. % Rec.	106.00	%	
	Dibutylchlorendate (	Lab Fort Blank Amt.	100.0	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 06/13/97 Lims Bat #: LIMS-29802

QC Batch Number: GCMS/SEMI-0769

Sample Id	Analysis	QC Analysis	Values	Units	Limits
97809738	Phenol - D6 wet reco	Surrogate Recovery	33.5	%	10.0-94.0
	Nitrobenzene - D5 we	Surrogate Recovery	76.2	%	35.0-114.0
	2-Fluorobiphenyl wet	Surrogate Recovery	80.2	%	43.0-116.0
	2,4,6-Tribromophenol	Surrogate Recovery	68.6	%	10.0-123.0
	Terphenyl - D14 (liq	Surrogate Recovery	81.7	%	33.0-141.0
	2-Fluorophenol wet r	Surrogate Recovery	52.4	%	21.0-100.0
97809742	Phenol - D6 wet reco	Surrogate Recovery	23.8	%	10.0-94.0
	Nitrobenzene - D5 we	Surrogate Recovery	86.7	%	35.0-114.0
	2-Fluorobiphenyl wet	Surrogate Recovery	81.2	%	43.0-116.0
	2,4,6-Tribromophenol	Surrogate Recovery	79.6	%	10.0-123.0
	Terphenyl - D14 (liq	Surrogate Recovery	80.2	%	33.0-141.0
	2-Fluorophenol wet r	Surrogate Recovery	39.0	%	21.0-100.0
97809746	Phenol - D6 wet reco	Surrogate Recovery	26.0	%	10.0-94.0
	Nitrobenzene - D5 we	Surrogate Recovery	68.7	%	35.0-114.0
	2-Fluorobiphenyl wet	Surrogate Recovery	71.3	%	43.0-116.0
	2,4,6-Tribromophenol	Surrogate Recovery	59.8	%	10.0-123.0
	Terphenyl - D14 (liq	Surrogate Recovery	76.2	%	33.0-141.0
	2-Fluorophenol wet r	Surrogate Recovery	41.0	%	21.0-100.0
97809750	Phenol - D6 wet reco	Surrogate Recovery	27.0	%	10.0-94.0
	Nitrobenzene - D5 we	Surrogate Recovery	62.3	%	35.0-114.0
	2-Fluorobiphenyl wet	Surrogate Recovery	68.8	%	43.0-116.0
	2,4,6-Tribromophenol	Surrogate Recovery	62.1	%	10.0-123.0
	Terphenyl - D14 (liq	Surrogate Recovery	56.2	%	33.0-141.0
	2-Fluorophenol wet r	Surrogate Recovery	39.0	%	21.0-100.0
97809754	Phenol - D6 wet reco	Surrogate Recovery	41.2	%	10.0-94.0
	Nitrobenzene - D5 we	Surrogate Recovery	83.7	%	35.0-114.0
	2-Fluorobiphenyl wet	Surrogate Recovery	90.9	%	43.0-116.0
	2,4,6-Tribromophenol	Surrogate Recovery	95.5	%	10.0-123.0
	Terphenyl - D14 (liq	Surrogate Recovery	86.0	%	33.0-141.0
	2-Fluorophenol wet r	Surrogate Recovery	64.5	%	21.0-100.0
97809762	Phenol - D6 wet reco	Surrogate Recovery	0.0	%	10.0-94.0
	Nitrobenzene - D5 we	Surrogate Recovery	65.7	%	35.0-114.0
	2-Fluorobiphenyl wet	Surrogate Recovery	77.1	%	43.0-116.0
	2,4,6-Tribromophenol	Surrogate Recovery	2.9	%	10.0-123.0
	Terphenyl - D14 (liq	Surrogate Recovery	86.8	%	33.0-141.0
	2-Fluorophenol wet r	Surrogate Recovery	1.3	%	21.0-100.0
BLANK-08102	1,4-Dichlorobenzene	Blank	<10.00	ug/l	
	Naphthalene	Blank	<10.00	ug/l	
	1,2-Dichlorobenzene	Blank	<10.00	ug/l	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/SEMI-0769

Sample Id	Analysis	QC Analysis	Values	Units	Limits
	1,3-Dichlorobenzene	Blank	<10.00	ug/l	
	Acenaphthene	Blank	<10.00	ug/l	
	Acenaphthylene	Blank	<10.00	ug/l	
	Aniline	Blank	<10.00	ug/l	
	Anthracene	Blank	<10.00	ug/l	
	Benzidene	Blank	<70.00	ug/l	
	Benzo(a)anthracene	Blank	<10.00	ug/l	
	Benzo(a)pyrene	Blank	<20.00	ug/l	
	Benzo(b)fluoranthene	Blank	<10.00	ug/l	
	Benzo(g,h,i)perylene	Blank	<30.00	ug/l	
	Benzoic Acid	Blank	<30.00	ug/l	
	Benzyl Alcohol	Blank	<20.00	ug/l	
	Bis(2-chloroethyl)et	Blank	<10.00	ug/l	
	Bis(2-chloroethoxy)m	Blank	<10.00	ug/l	
	Bis(2-chloroisoproyl	Blank	<10.00	ug/l	
	Bis(2-ethylhexyl)pht	Blank	<10.00	ug/l	
	4-Bromophenylphenyle	Blank	<10.00	ug/l	
	Butylbenzylphthalate	Blank	<20.00	ug/l	
	4-Chloroaniline	Blank	<20.00	ug/l	
	2-Chloronaphthalene	Blank	<10.00	ug/l	
	4-Chlorophenylphenyl	Blank	<10.00	ug/l	
	Chrysene	Blank	<20.00	ug/l	
	Dibenz(a,h)anthracen	Blank	<20.00	ug/l	
	Dibenzofuran	Blank	<10.00	ug/l	
	3,3'-Dichlorobenzidi	Blank	<20.00	ug/l	
	Diethylphthalate	Blank	<10.00	ug/l	
	Dimethylphthalate	Blank	<20.00	ug/l	
	Di-n-butylphthalate	Blank	<10.00	ug/l	
	2,4-Dinitrotoluene	Blank	<10.00	ug/l	
	2,6-Dinitrotoluene	Blank	<10.00	ug/l	
	1,2-Diphenylhydrazin	Blank	<10.00	ug/l	
	Di-n-octylphthalate	Blank	<20.00	ug/l	
	Fluoranthene	Blank	<10.00	ug/l	
	Fluorene	Blank	<10.00	ug/l	
	Hexachlorobenzene	Blank	<10.00	ug/l	
	Hexachlorobutadiene	Blank	<10.00	ug/l	
	Hexachlorocyclopenta	Blank	<10.00	ug/l	
	Hexachloroethane	Blank	<10.00	ug/l	
	Indeno(1,2,3-cd)pyre	Blank	<10.00	ug/l	

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Method Blanks

QC Batch Number: GCMS/SEMI-0769

Sample Id	Analysis	QC Analysis	Values	Units	Limits
	Isophorone	Blank	<10.00	ug/l	
	2-Methylnaphthalene	Blank	<10.00	ug/l	
	2-Nitroaniline	Blank	<10.00	ug/l	
	3-Nitroaniline	Blank	<10.00	ug/l	
	Nitrobenzene	Blank	<10.00	ug/l	
	N-Nitrosodimethylami	Blank	<10.00	ug/l	
	N-Nitroso-di-n-propy	Blank	<10.00	ug/l	
	N-Nitrosodiphenylami	Blank	<10.00	ug/l	
	Phenanthrene	Blank	<10.00	ug/l	
	Pyrene	Blank	<30.00	ug/l	
	1,2,4-Trichlorobenze	Blank	<10.00	ug/l	
	4-Chloro-3-methylphe	Blank	<20.00	ug/l	
	2-Chlorophenol	Blank	<10.00	ug/l	
	2,4-Dichlorophenol	Blank	<10.00	ug/l	
	2,4-Dimethylphenol	Blank	<40.00	ug/l	
	4,6-Dinitro-2-methyl	Blank	<10.00	ug/l	
	2,4-Dinitrophenol	Blank	<10.00	ug/l	
	2-Methylphenol (o-cr	Blank	<10.00	ug/l	
	3- & 4-Methylphenol	Blank	<10.00	ug/l	
	2-Nitrophenol	Blank	<10.00	ug/l	
	4-Nitrophenol	Blank	<10.00	ug/l	
	Phenol	Blank	<10.00	ug/l	
	2,4,5-Trichloropheno	Blank	<10.00	ug/l	
	2,4,6-Trichloropheno	Blank	<10.00	ug/l	
	Pentachlorophenol	Blank	<10.00	ug/l	
	Pyridine	Blank	<10.0	ug/l	
	Benzo(k)fluoranthene	Blank	<20.00	ug/l	
	4-Nitroaniline	Blank	<10.00	ug/l	
LFBLANK-04009	1,4-Dichlorobenzene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	49.23	ug/l	
		Lab Fort Blk. % Rec.	49.23	%	
	Acenaphthene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	73.67	ug/l	
		Lab Fort Blk. % Rec.	73.67	%	
	2,4-Dinitrotoluene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	68.71	ug/l	
		Lab Fort Blk. % Rec.	68.71	%	
	N-Nitroso-di-n-propy	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	70.22	ug/l	

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Method Blanks

QC Batch Number: GCMS/SEMI-0769

Sample Id	Analysis	QC Analysis	Values	Units	Limits
		Lab Fort Blk. % Rec.	70.22	%	
	Pyrene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	85.00	ug/l	
		Lab Fort Blk. % Rec.	85.00	%	
	1,2,4-Trichlorobenze	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	48.53	ug/l	
		Lab Fort Blk. % Rec.	48.53	%	
	4-Chloro-3-methylphe	Lab Fort Blank Amt.	200.00	ug/l	
		Lab Fort Blk. Found	135.73	ug/l	
		Lab Fort Blk. % Rec.	67.86	%	
	2-Chlorophenol	Lab Fort Blank Amt.	200.00	ug/l	
		Lab Fort Blk. Found	129.04	ug/l	
		Lab Fort Blk. % Rec.	64.52	%	
	4-Nitrophenol	Lab Fort Blank Amt.	200.00	ug/l	
		Lab Fort Blk. Found	73.60	ug/l	
		Lab Fort Blk. % Rec.	36.80	%	
	Phenol	Lab Fort Blank Amt.	200.00	ug/l	
		Lab Fort Blk. Found	48.68	ug/l	
		Lab Fort Blk. % Rec.	24.34	%	
	Pentachlorophenol	Lab Fort Blank Amt.	200.00	ug/l	
		Lab Fort Blk. Found	144.95	ug/l	
		Lab Fort Blk. % Rec.	72.48	%	

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SAMPLE QC: Sample Results with Duplicates
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BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/VOL-1329

Sample Id	Analysis	QC Analysis	Values	Units	Limits
97809737	d4-12-Dichloroethane	Surrogate Recovery	109.2	%	56.0-128.0
	d8-Toluene	Surrogate Recovery	102.4	%	65.0-113.0
	Bromofluorobenzene	Surrogate Recovery	109.6	%	62.0-137.0
97809741	d4-12-Dichloroethane	Surrogate Recovery	110.0	%	56.0-128.0
	d8-Toluene	Surrogate Recovery	102.4	%	65.0-113.0
	Bromofluorobenzene	Surrogate Recovery	108.4	%	62.0-137.0
97809745	d4-12-Dichloroethane	Surrogate Recovery	105.6	%	56.0-128.0
	d8-Toluene	Surrogate Recovery	94.4	%	65.0-113.0
	Bromofluorobenzene	Surrogate Recovery	92.0	%	62.0-137.0
97809749	d4-12-Dichloroethane	Surrogate Recovery	108.4	%	56.0-128.0
	d8-Toluene	Surrogate Recovery	100.0	%	65.0-113.0
	Bromofluorobenzene	Surrogate Recovery	94.0	%	62.0-137.0
97809753	d4-12-Dichloroethane	Surrogate Recovery	106.4	%	56.0-128.0
	d8-Toluene	Surrogate Recovery	93.6	%	65.0-113.0
	Bromofluorobenzene	Surrogate Recovery	94.8	%	62.0-137.0
97809761	d4-12-Dichloroethane	Surrogate Recovery	111.2	%	56.0-128.0
	d8-Toluene	Surrogate Recovery	99.6	%	65.0-113.0
	Bromofluorobenzene	Surrogate Recovery	97.2	%	62.0-137.0
BLANK-08113	Acetone	Blank	<16.1	ug/l	
	Benzene	Blank	<0.6	ug/l	
		Matrix Spk Amt Added	25.0	ug/l	
		MS Amt Measured	22.8	ug/l	
		Matrix Spike % Rec.	91.4	%	
	Carbon Tetrachloride	Blank	<0.5	ug/l	
	Chloroform	Blank	<0.8	ug/l	
	1,2-Dichloroethane	Blank	<0.9	ug/l	
	1,4-Dichlorobenzene	Blank	<0.8	ug/l	
	Ethyl Benzene	Blank	<0.6	ug/l	
	2-Butanone (MEK)	Blank	<12.0	ug/l	
	4-Methyl-2-Pentanone	Blank	<8.8	ug/l	
	Styrene	Blank	<0.7	ug/l	
	Tetrachloroethylene	Blank	<0.4	ug/l	
	Toluene	Blank	<0.7	ug/l	
		Matrix Spk Amt Added	25.0	ug/l	
		MS Amt Measured	22.5	ug/l	
		Matrix Spike % Rec.	90.0	%	
	1,1,1-Trichloroethan	Blank	<0.9	ug/l	

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Method Blanks

QC Batch Number: GCMS/VOL-1329

Sample Id	Analysis	QC Analysis	Values	Units	Limits
	Trichloroethylene	Blank	<1.0	ug/l	
		Matrix Spk Amt Added	25.0	ug/l	
		MS Amt Measured	36.5	ug/l	
		Matrix Spike % Rec.	145.9	%	
	Trichlorofluorometha	Blank	<0.7	ug/l	
	o&p-Xylene	Blank	<0.5	ug/l	
	m-Xylene	Blank	<1.3	ug/l	
	1,2-Dichlorobenzene	Blank	<0.8	ug/l	
	1,3-Dichlorobenzene	Blank	<0.6	ug/l	
	1,1-Dichloroethane	Blank	<0.7	ug/l	
	1,1-Dichloroethylene	Blank	<0.6	ug/l	
		Matrix Spk Amt Added	25.0	ug/l	
		MS Amt Measured	22.4	ug/l	
		Matrix Spike % Rec.	89.4	%	
	Methyl tert-Butyl Et	Blank	<0.8	ug/l	
	t-1,2-Dichloroethyle	Blank	<0.8	ug/l	
	Vinyl Chloride	Blank	<0.3	ug/l	
	Methylene Chloride	Blank	3.2	ug/l	
	Chlorobenzene	Blank	<0.6	ug/l	
		Matrix Spk Amt Added	25.0	ug/l	
		MS Amt Measured	26.0	ug/l	
		Matrix Spike % Rec.	104.2	%	
	Chloromethane	Blank	<1.2	ug/l	
	Bromomethane	Blank	<1.2	ug/l	
	Chloroethane	Blank	<0.8	ug/l	
	cis-1,3-Dichloroprop	Blank	<0.5	ug/l	
	t-1,3-Dichloropropen	Blank	<0.4	ug/l	
	Chlorodibromomethane	Blank	<0.5	ug/l	
	1,1,2-Trichloroethan	Blank	<0.7	ug/l	
	2-Chloroethylvinylet	Blank	<9.6	ug/l	
	Bromoform	Blank	<1.2	ug/l	
	1,1,2,2-Tetrachloroe	Blank	<1.4	ug/l	
	Dibromomethane	Blank	<1.1	ug/l	
	cis-1,2-Dichloroethy	Blank	<0.5	ug/l	
	1,2-Dichloropropane	Blank	<0.6	ug/l	
	1,2,3-Trichloropropa	Blank	<1.3	ug/l	

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SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/VOL-1329

Sample Id	Analysis	QC Analysis	Values	Units	Limits
	Dichlorodifluorometh	Blank	<1.0	ug/l	
	Iodomethane	Blank	<0.8	ug/l	
	Acrolein	Blank	<20.0	ug/l	
	Acrylonitrile	Blank	<7.6	ug/l	
	Carbon Disulfide	Blank	<0.5	ug/l	
	Vinyl Acetate	Blank	<16.4	ug/l	
	2-Hexanone	Blank	<9.7	ug/l	
	t-1,4-Dichloro-2-But	Blank	<2.1	ug/l	
	Ethyl Methacrylate	Blank	<0.8	ug/l	
	c-1,4-Dichloro-2-But	Blank	<2.4	ug/l	
	Bromodichloromethane	Blank	<0.4	ug/l	

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Report Date: 06/13/97 | Lims Bat #: LIMS-29802 |

QC Batch Number: HG-0502

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-08054	Mercury	Blank	<0.0002	mg/l	
STDADD-05871	Mercury	Standard Measured	0.0020	mg/l	
		Standard Amt Added	0.0020	mg/l	
		Standard % Recovery	99.0000	%	

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SAMPLE QC: Sample Results with Duplicates
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BATCH QC: Lab Fortified Blanks and Duplicates
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Method Blanks

QC Batch Number: ICP-1831

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-08103	Silver	Blank	<0.005	mg/l	
	Arsenic	Blank	<0.05	mg/l	
	Beryllium	Blank	<0.0010	mg/l	
	Cadmium	Blank	<0.0005	mg/l	
	Chromium	Blank	<0.004	mg/l	
	Copper	Blank	<0.0010	mg/l	
	Nickel	Blank	<0.002	mg/l	
	Lead	Blank	<0.02	mg/l	
	Selenium	Blank	<0.05	mg/l	
	Thallium	Blank	<0.10	mg/l	
	Zinc	Blank	0.015	mg/l	
STDADD-05902	Silver	Standard Measured	0.991	mg/l	
		Standard Amt Added	1.000	mg/l	
		Standard % Recovery	99.090	%	
	Arsenic	Standard Measured	1.00	mg/l	
		Standard Amt Added	1.00	mg/l	
		Standard % Recovery	100.20	%	
	Beryllium	Standard Measured	1.0810	mg/l	
		Standard Amt Added	1.0000	mg/l	
		Standard % Recovery	108.1000	%	
	Cadmium	Standard Measured	1.0410	mg/l	
		Standard Amt Added	1.0000	mg/l	
		Standard % Recovery	104.1000	%	
	Chromium	Standard Measured	1.024	mg/l	
		Standard Amt Added	1.000	mg/l	
		Standard % Recovery	102.400	%	
	Copper	Standard Measured	1.0220	mg/l	
		Standard Amt Added	1.0000	mg/l	
		Standard % Recovery	102.2000	%	
	Nickel	Standard Measured	1.043	mg/l	
		Standard Amt Added	1.000	mg/l	
		Standard % Recovery	104.300	%	
	Lead	Standard Measured	1.02	mg/l	
		Standard Amt Added	1.00	mg/l	
		Standard % Recovery	101.90	%	
	Selenium	Standard Measured	0.99	mg/l	
		Standard Amt Added	1.00	mg/l	
		Standard % Recovery	99.20	%	
	Thallium	Standard Measured	1.01	mg/l	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
		Standard Amt Added	1.00	mg/l	
		Standard % Recovery	101.20	%	
	Zinc	Standard Measured	1.041	mg/l	
		Standard Amt Added	1.000	mg/l	
		Standard % Recovery	104.100	%	

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Method Blanks

QC Batch Number: ICP-1832

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-08104	Silver	Blank	<0.005	mg/l	
	Aluminum	Blank	<0.02	mg/l	
	Arsenic	Blank	<0.05	mg/l	
	Cadmium	Blank	<0.0005	mg/l	
	Chromium	Blank	<0.004	mg/l	
	Copper	Blank	<0.0010	mg/l	
	Iron	Blank	<0.02	mg/l	
	Manganese	Blank	<0.0010	mg/l	
	Nickel	Blank	<0.002	mg/l	
	Lead	Blank	<0.02	mg/l	
	Selenium	Blank	<0.05	mg/l	
	Titanium	Blank	<0.02	mg/l	
	Zinc	Blank	<0.005	mg/l	
STDADD-05929	Silver	Standard Measured	0.991	mg/l	
		Standard Amt Added	1.000	mg/l	
		Standard % Recovery	99.090	%	
	Aluminum	Standard Measured	1.03	mg/l	
		Standard Amt Added	1.00	mg/l	
		Standard % Recovery	103.30	%	
	Arsenic	Standard Measured	1.00	mg/l	
		Standard Amt Added	1.00	mg/l	
		Standard % Recovery	100.20	%	
	Cadmium	Standard Measured	1.0410	mg/l	
		Standard Amt Added	1.0000	mg/l	
		Standard % Recovery	104.1000	%	
	Chromium	Standard Measured	1.024	mg/l	
		Standard Amt Added	1.000	mg/l	
		Standard % Recovery	102.400	%	
	Copper	Standard Measured	1.0220	mg/l	
		Standard Amt Added	1.0000	mg/l	
		Standard % Recovery	102.2000	%	
	Iron	Standard Measured	1.03	mg/l	
		Standard Amt Added	1.00	mg/l	
		Standard % Recovery	103.30	%	
	Manganese	Standard Measured	1.0340	mg/l	
		Standard Amt Added	1.0000	mg/l	
		Standard % Recovery	103.4000	%	
	Nickel	Standard Measured	1.043	mg/l	
		Standard Amt Added	1.000	mg/l	

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QC Batch Number: ICP-1832

Sample Id	Analysis	QC Analysis	Values	Units	Limits
		Standard % Recovery	104.300	%	
	Lead	Standard Measured	1.02	mg/l	
		Standard Amt Added	1.00	mg/l	
		Standard % Recovery	101.90	%	
	Selenium	Standard Measured	0.99	mg/l	
		Standard Amt Added	1.00	mg/l	
		Standard % Recovery	99.20	%	
	Titanium	Standard Measured	1.04	mg/l	
		Standard Amt Added	1.00	mg/l	
		Standard % Recovery	104.00	%	
	Zinc	Standard Measured	1.041	mg/l	
		Standard Amt Added	1.000	mg/l	
		Standard % Recovery	104.100	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: SOLIDS-0746

Sample Id	Analysis	QC Analysis	Values	Units	Limits
STDADD-05850	Total Dissolved Soli	Standard Measured	262.0	mg/l	
		Standard Amt Added	293.0	mg/l	
		Standard % Recovery	89.4	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: TITRATION-0373

Sample Id	Analysis	QC Analysis	Values	Units	Limits
97B09758	Alkalinity	Sample Amount	394.0	mg/l	
		Duplicate Value	384.0	mg/l	
		Duplicate RPD	2.6	%	0.0-61.5
STDADD-05817	Alkalinity	Standard Measured	47.0	mg/l	
		Standard Amt Added	48.6	mg/l	
		Standard % Recovery	96.6	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: TITRATION-0374

Sample Id	Analysis	QC Analysis	Values	Units	Limits
STDADD-05846	Ammonia	Standard Measured	3.08	mg/l	
		Standard Amt Added	2.67	mg/l	
		Standard % Recovery	115.36	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: TPH-0764

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-04006	Total Petroleum Hydr	Lab Fort Blank Amt.	20.00	mg/l	
		Lab Fort Blk. Found	17.15	mg/l	
		Lab Fort Blk. % Rec.	85.75	%	
		Dup Lab Fort Bl Amt.	20.00	mg/l	
		Dup Lab Fort Bl. Fnd	17.29	mg/l	
		Dup Lab Fort Bl %Rec	86.45	%	
		Lab Fort Blank Range	0.70	units	0.00-16.30
		Lab Fort Bl. Av. Rec	86.10	%	73.50-107.00

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: WETCHEM-2336

Sample Id	Analysis	QC Analysis	Values	Units	Limits
STDADD-05816	Conductivity	Standard Measured	170.0	umhos/cm	
		Standard Amt Added	147.0	umhos/cm	
		Standard % Recovery	115.6	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: WETCHEM-2348

Sample Id	Analysis	QC Analysis	Values	Units	Limits
STDADD-05900	Chloride	Standard Measured	8.3300	mg/l	
		Standard Amt Added	8.2000	mg/l	
		Standard % Recovery	101.5854	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: WETCHEM-2349

Sample Id	Analysis	QC Analysis	Values	Units	Limits
97B09755	Nitrate	Sample Amount	<0.05	mg/l	
		Duplicate Value	<0.05	mg/l	
		Sample Amount	<0.05	mg/l	
		Matrix Spk Amt Added	4.00	mg/l	
		MS Amt Measured	4.23	mg/l	
		Matrix Spike % Rec.	105.82	%	85.40-114.00
STDADD-05865	Nitrate/Nitrite	Standard Measured	7.961	mg/l	
		Standard Amt Added	8.100	mg/l	
		Standard % Recovery	98.284	%	
	Nitrate	Standard Measured	7.96	mg/l	
		Standard Amt Added	8.10	mg/l	
		Standard % Recovery	98.28	%	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

NOTES:

QC Batch No.: GCMS/SEMI-0769
Sample ID: 97B09762
Analysis: Phenol - D6
QC Analysis: Surrogate Recovery
SURROGATE RECOVERY OUTSIDE OF CONTROL LIMITS DUE TO SAMPLE MATRIX INTERFERENCE.

QC Batch No.: GCMS/SEMI-0769
Sample ID: 97B09762
Analysis: 2,4,6-Tribromophenol
QC Analysis: Surrogate Recovery
SURROGATE RECOVERY OUTSIDE OF CONTROL LIMITS DUE TO SAMPLE MATRIX INTERFERENCE.

QC Batch No.: GCMS/SEMI-0769
Sample ID: 97B09762
Analysis: 2-Fluorophenol
QC Analysis: Surrogate Recovery
SURROGATE RECOVERY OUTSIDE OF CONTROL LIMITS DUE TO SAMPLE MATRIX INTERFERENCE.

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CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01028

Client Name: Vanasse Hangen Brustlin, Inc.
Attn: Marc Richards
Address: 101 Walnut St.
Watertown, MA 02272
Site Location: Middletown, CT
Sampled: By: Marc Richards
Call Results: Yes ___ No X
Fax Results: Yes X No ___

Telephone: 617-924-1770
Batch #:
Project #: A0163
Client P.O. #: A0163
Fax #: 617-923-2336

Analysis Required

Field Sample I.D.	Sample Description	Lab #	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	Composite	Grab	Matrix: Waste Water	Matrix: Ground Water	Matrix: DKG Water	Matrix: Soil	Matrix: Air	Matrix: *Other	Preservative (Use Code)	Container (Use Code)	TPH 418.1	VOC 8240	SVOC 8270	PCB 8080	Herbicides 8150	13 Priority Pollutant Metals				
MW-1	Monitoring well #1	97B09735		5/27		X		X					O		X									
MW-1	↓	09736		5/27		X		X					N							X				
MW-1	↓	09737		5/27		X		X					H			X								
MW-1	↓	09738		5/27		X		X					—				X	X	X					
MW-2	Monitoring well #2	09739		5/27		X		X					O		X									
MW-2	↓	09740		5/27		X		X					N							X				
MW-2	↓	09741		5/27		X		X					H			X								
MW-2	↓	09742		5/27		X		X					—				X	X	X					

CONTAINER CODE
P: PLASTIC (___ Size) V = 40 ml vial G = Glass (___ size) A = 1000 ml Amber O = Other ___

PRESERVATIVE CODE:
I = ICED N = HNO_3 H = HCl S = NaOH T = $Na_2S_2O_3$ O = OTHER Sulfuric

Relinquished by: (Signature)	Date Time	Received by: (Signature)
[signature]	5/28/97 1040	[signature]
Relinquished by: (Signature) [signature]	Date Time 5/28/97 1540	Received by: (Signature) [signature]
Relinquished by: (Signature)	Date Time	Received by: (Signature)

Turnaround Requested: ___ 24-Hour ___ 48-Hour X Normal
___ Other ___ Date Required

Remarks/Comments:
Metal Samples need to be filtered

*MATRIX OTHER ___

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CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01028

Client Name: Vanasse Hangen Brustlin, Inc.
Attn: Marc Richards
Address: 101 Walnut St.
Watertown, MA 02272
Site Location: Middletown, CT
Sampled By: Marc Richards
Call Results: Yes ___ No X
Fax Results: Yes X No ___

Telephone: 617-924-1770
Batch #:
Project #: 40163
Client P.O. #: 40163
Fax #: 617-923-2336

Field Sample I.D.	Sample Description	Lab #	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	Composite	Grab	Matrix: Waste Water	Matrix: Ground Water	Matrix: DKG Water	Matrix: Soil	Matrix: Air	Matrix: *Other	Preservative (Use Code)	Container (Use Code)	TPH 418.1	VOC 8240	SVOC 8270	PCB 8080	Herbicides 8150	13 Priority Pollutant Metals			
MW-4	Monitoring Well #4	9780974 3	5/27			X		X					O		X								
MW-4	↓	09744	5/27			X		X					N							X			
MW-4	↓	09745	5/27			X		X					H			X							
MW-4	↓	09746	5/27			X		X					–				X	X	X				
MW-6	Monitoring Well #6	09747	5/27			X		X					O		X								
MW-6	↓	09748	5/27			X		X					N							X			
MW-6	↓	09749	5/27			X		X					H			X							
MW-6	↓	09750	5/27			X		X					–				X	X	X				

CONTAINER CODE
P: PLASTIC (___ Size) V = 40 ml vial G = Glass (___ size) A = 1000 ml Amber 0 = Other ___

PRESERVATIVE CODE:
I = ICED N = HNO_3 H = HCl S = NaOH T = $Na_2S_2O_3$ O = OTHER Sulfuric

Relinquished by: (Signature)	Date Time	Received by: (Signature)
[signature]	5/28/99 1040	[signature]
[signature]	5/28/99 1545	[signature]

Turnaround Requested: ___ 24-Hour ___ 48-Hour X Normal
___ Other ___ Date Required

Remarks/Comments: Metal Samples need to be filtered

*MATRIX OTHER ___

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FAX (413) 525-6405

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01028

Client Name: Vanasse Hangen Brustlin, Inc.
Attn: Marc Richards
Address: 101 Walnut St.
Watertown, MA 02272
Site Location: Middletown, CT
Sampled By: Marc Richards
Call Results: Yes ___ No X
Fax Results: Yes X No ___

Telephone: 617-924-1770
Batch #: ___
Project #: 40163
Client P.O. #: 40163
Fax #: 617-923-2336

Field Sample I.D.	Sample Description	Lab #	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	Composite	Grab	Matrix: Waste Water	Matrix: Ground Water	Matrix: DKG Water	Matrix: Soil	Matrix: Air	Matrix: *Other	Preservative (Use Code)	Container (Use Code)	TPH 418.1	VOC 8240	SVOC 8270	PCB 8080	Herbicides 8150	13 Priority Pollutant Metals	BOD, Sulfate, Chloride, Nitrate	Ammonia	Total Iron, Total Manganese	Total Dissolved Solids, TSS, pH, Specific Conductance, Alkalinity
MW-3	Monitoring Well #3	97B09757		5/27		X		X					O		X									
MW-3		09752		5/27		X		X					N							X				
MW-3		09753		5/27		X		X					H			X								
MW-3		09754		5/27		X		X					—				X	X	X					
MW-3		09755		5/27		X		X					—								X			
MW-3		09756		5/27		X		X					O									X		
MW-3		09757		5/27		X		X					N										X	
MW-3		09758		5/27		X		X					—											X

CONTAINER CODE
P: PLASTIC (___ Size) V = 40 ml vial G = Glass (___ size) A = 1000 ml Amber 0 = Other ___

PRESERVATIVE CODE:
I = ICED N = HNO_3 H = HCl S = NaOH T = $Na_2S_2O_3$ O = OTHER ___

Relinquished by: (Signature)	Date Time	Received by: (Signature)
[signature]	5/27/97 1210	[signature]
Relinquished by: (Signature) [signature]	Date Time 5/27/97 1545	Received by: (Signature) [signature]
Relinquished by: (Signature)	Date Time	Received by: (Signature)

Turnaround Requested: ___ 24-Hour ___ 48-Hour X Normal
___ Other ___ Date Required

Remarks/Comments: Metal Samples need to be filtered, except for Iron & Manganese

*MATRIX OTHER ___

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CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01028

Client Name: Vanasse Hangen Brustlin, Inc.
Attn: Marc Richards
Address: 101 Walnut St.
Watertown, MA 02272
Site Location: Middletown, CT
Sampled By: Marc Richards
Call Results: Yes ___ No X
Fax Results: Yes X No ___

Telephone: 617-924-1770
Batch #:
Project #: 40163
Client P.O. #: 40163
Fax #: 617-923-2336

Analysis Required

Field Sample I.D.	Sample Description	Lab #	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	Composite	Grab	Matrix: Waste Water	Matrix: Ground Water	Matrix: DKG Water	Matrix: Soil	Matrix: Air	Matrix: *Other	Preservative (Use Code)	Container (Use Code)	TPH 418.1	VOC 8240	SVOC 8270	PCB 8080	Herbicides 8150	PB Priority Pollutant Metals	BOD Sulfate, Chloride, Nitrate	Ammonia	Total Iron, Total Manganese	Total Dissolved Solids, TSS, pH	Specific Conductance, Alkalinity
MW-5	Monitoring Well #5	97B09759		5/27		X		X					O		X										
MW-5		09760		5/27		X		X					N							X					
MW-5		09761		5/27		X		X					H			X									
MW-5		09762		5/27		X		X					-				X	X	X						
MW-5		09763		5/27									-								X				
MW-5		09764		5/27									O									X			
MW-5		09765		5/27									N										X		
MW-5		09766		5/27									-											X	

CONTAINER CODE
P: PLASTIC (___ Size) V = 40 ml vial G = Glass (___ size) A = 1000 ml Amber 0 = Other ___

PRESERVATIVE CODE:
I = ICED N = HNO_3 H = HCl S = NaOH T = $Na_2S_2O_3$ O = OTHER Sulfuric

Relinquished by: (Signature)	Date Time	Received by: (Signature)
[signature]	1240 5/28/97	[signature]
Relinquished by: (Signature)	Date Time	Received by: (Signature)
[signature]	1545 5/28/97	[signature]
Relinquished by: (Signature)	Date Time	Received by: (Signature)

Turnaround Requested: ___ 24-Hour ___ 48-Hour ___ Normal
___ Other ___ Date Required

Remarks/Comments: Metal samples need to be filtered except for Iron & Manganese

*MATRIX OTHER ___

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VANASSE HANGEN BRUSTLIN, INC.
101 WALNUT STREET
WATERTOWN, MA 02272
ATTN: DAVE CARLSON

REPORT DATE: 06/17/97

PURCHASE ORDER NUMBER: (40163)
PROJECT NUMBER: PROJ.# 40163

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-30083
JOB NUMBER: 30083

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report

PROJECT LOCATION: REMINGTON RAND

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
MW-5 RESAMPLE	97B11271	GRND WATER	2X1 L AMBERS	625 - acid fract

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AIHA 308
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CONNECTICUT PH-0567
NEW YORK ELAP 10899
OHIO (ENVIRO. LEAD) # 10005
NEW HAMPSHIRE 2516
AIHA ELLAP (LEAD) 6838
MAINE (POTABLE/NON-POTABLE)
VERMONT DOH (LEAD) No. 15036
RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document.

Edward Denson 6/17/97
SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director

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DAVE CARLSON
/ANASSE HANGEN BRUSTLIN, INC.
101 WALNUT STREET
WATERTOWN, MA 02272

06/17/97

Purchase Order Number: (40163)
Project Number: PROJ.# 40163

Project Location: REMINGTON RAND
Date Received: 06/11/97

LIMS-BAT #: LIMS-30083
Job Number: 30083
Sample Matrix: GRND WATER

Sampled: 06/11/97
2X1 L AMBERS
MW-5 RESAMPLE

	Units	97B11271	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
4-Chloro-3-methylphenol	ug/l	ND	06/16/97	WSD	20.0		
2-Chlorophenol	ug/l	ND	06/16/97	WSD	10.0		
2,4-Dichlorophenol	ug/l	ND	06/16/97	WSD	10.0		
2,4-Dimethylphenol	ug/l	ND	06/16/97	WSD	40.0		
4,6-Dinitro-2-methylphenol	ug/l	ND	06/16/97	WSD	10.0		
2,4-Dinitrophenol	ug/l	ND	06/16/97	WSD	10.0		
2-Methylphenol (o-cresol)	ug/l	ND	06/16/97	WSD	10.0		
3- & 4-Methylphenol (m&p-cresol)	ug/l	ND	06/16/97	WSD	10.0		
2-Nitrophenol	ug/l	ND	06/16/97	WSD	10.0		
4-Nitrophenol	ug/l	ND	06/16/97	WSD	10.0		
Pentachlorophenol	ug/l	ND	06/16/97	WSD	10.0		
Phenol	ug/l	ND	06/16/97	WSD	10.0		
2,4,5-Trichlorophenol	ug/l	ND	06/16/97	WSD	10.0		
2,4,6-Trichlorophenol	ug/l	ND	06/16/97	WSD	10.0		

Analytical Method(s):

EPA 625

SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE, FOLLOWED BY KUDERNA-DANISH EVAPORATIVE CONCENTRATION AND QUANTITATED BY GC/MS TARGET COMPOUND ANALYSIS

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 06/17/97 | Lims Bat #: LIMS-30083 |

QC Batch Number: GCMS/SEMI-0788

Sample Id	Analysis	QC Analysis	Values	Units	Limits
97B11271	Phenol - D6 wet reco	Surrogate Recovery	21.3	%	10.0-94.0
	2,4,6-Tribromophenol	Surrogate Recovery	51.2	%	10.0-123.0
	2-Fluorophenol wet r	Surrogate Recovery	38.4	%	21.0-100.0
BLANK-08277	4-Chloro-3-methylphe	Blank	<20.00	ug/l	
	2-Chlorophenol	Blank	<10.00	ug/l	
	2,4-Dichlorophenol	Blank	<10.00	ug/l	
	2,4-Dimethylphenol	Blank	<40.00	ug/l	
	4,6-Dinitro-2-methyl	Blank	<10.00	ug/l	
	2,4-Dinitrophenol	Blank	<10.00	ug/l	
	2-Methylphenol (o-cr	Blank	<10.00	ug/l	
	3- & 4-Methylphenol	Blank	<10.00	ug/l	
	2-Nitrophenol	Blank	<10.00	ug/l	
	4-Nitrophenol	Blank	<10.00	ug/l	
	Phenol	Blank	<10.00	ug/l	
	2,4,5-Trichloropheno	Blank	<10.00	ug/l	
	2,4,6-Trichloropheno	Blank	<10.00	ug/l	
	Pentachlorophenol	Blank	<10.00	ug/l	

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CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01028

Client Name: VHB
Attn: Dave Carlson
Address: 101 Walnut Street PO Box 9151
Watertown MA 02272
Site Location: Remington Road
Sampled: By: Bob Russo
Call Results: Yes ✓ No ____
Fax Results: Yes ✓ No ____

Telephone: 617-924 1770 fax 2286
Batch #: ____
Project #: 40163
Client P.O. #: (40163)
Fax #: ____

Analysis Required: Re. Sample; Acid Extractables

Field Sample I.D.	Sample Description	Lab #	DATE SAMPLED Start Date/Time	DATE SAMPLED Stop Date/Time	Composite	Grab	MATRIX: WASTE WATER	MATRIX: GROUND WATER	MATRIX: DKG WATER	MATRIX: Soil	MATRIX: Air	MATRIX: *Other	Preservative (Use Code)	Container (Use Code)	Re. Sample; Acid Extractables
MW-5 Resample	2x 1l amber	97B11271	4/11/97 12:00			X		✓					I		X

CONTAINER CODE
P: PLASTIC (____ Size) V = 40 ml vial G = Glass (____ size) A = 1000 ml Amber 0 = Other ____

PRESERVATIVE CODE:
I = ICED N = HNO_3 H = HCl S = NaOH T = $Na_2S_2O_3$ O = OTHER ____

Relinquished by: (Signature)	Date Time	Received by: (Signature)
Robert Russo	6/11/97 5:15pm	W.R. Whittington
Relinquished by: (Signature) W.R. Whittington	Date Time 1815 6-11-97	Received by: (Signature)
Relinquished by: (Signature)	Date Time	Received by: (Signature)

Turnaround Requested: ____ 24-Hour ____ 48-Hour ✓ Normal (5 day)
____ Other ____ Date Required

Remarks/Comments:

*MATRIX OTHER ____

VANASSE HANGEN BRUSTLIN, INC.
101 WALNUT STREET
WATERTOWN, MA 02272
ATTN: MARC RICHARDS

REPORT DATE: 06/17/97

PURCHASE ORDER NUMBER: 40163
PROJECT NUMBER: PROJ.# 40163

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-30046
JOB NUMBER: 30046

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report

PROJECT LOCATION: MIDDLETOWN, CT

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
B-10/6-7'	97B10968	SOIL	SOIL BORING	splp - metals 13
B-18/5-7'	97B10969	SOIL	SOIL BORING	splp - metals 13
B-4/8-10'	97B10965	SOIL	SOIL BORING	splp - metals 13
B-8/8-10'	97B10966	SOIL	SOIL BORING	splp - metals 13
B-9/9-11'	97B10967	SOIL	SOIL BORING	splp - metals 13
ROW/TP1/0-2'	97B10972	SOIL	R.O.W.	splp - metals 13
ROW/TP10/4-6'	97B10975	SOIL	R.O.W.	splp - metals 13
ROW/TP6/3-4'	97B10973	SOIL	R.O.W.	splp - metals 13
ROW/TP7/2-3'	97B10974	SOIL	R.O.W.	splp - metals 13
SUR-1	97B10970	SOIL	HARD AUGER	splp - metals 13
SUR-2	97B10971	SOIL	HARD AUGER	splp - metals 13
UST3/TP1/0-2'	97B10976	SOIL	BURN PIT	splp - metals 13

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NEW YORK ELAP 10899
OHIO (ENVIRO. LEAD) # 10005
NEW HAMPSHIRE 2516
AIHA ELLAP (LEAD) 6838
MAINE (POTABLE/NON-POTABLE)
VERMONT DOH (LEAD) No. 15036
RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document.

Edward Denson 6/18/97

SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director

MARC RICHARDS
VANASSE HANGEN BRUSTLIN, INC.
1 WALNUT STREET
...TERTOWN, MA 02272

06/17/97
page 1 of 8

Purchase Order Number: 40163
Project Number: PROJ.# 40163

oject Location: MIDDLETOWN, CT
Date Received: 06/11/97

LIMS-BAT #: LIMS-30046
Job Number: 30046
Sample Matrix: SOIL

Sampled: 06/11/97
SOIL BORING
B-10/6-7'

	Units	97B10968	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
ntimony	MG/L LEACHATE	ND	06/16/97	KLF	0.05		
rsenic	MG/L LEACHATE	ND	06/13/97	KLF	0.10	5.00	P
eryllium	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Cadmium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	1.00	P
romium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
pper	MG/L LEACHATE	0.30	06/13/97	KLF	0.05		
Lead	MG/L LEACHATE	1.37	06/13/97	KLF	0.05	5.00	P
ercury	MG/L LEACHATE	ND	06/14/97	APP	0.00020	0.20	P
ickel	MG/L LEACHATE	0.16	06/13/97	KLF	0.05		
Selenium	MG/L LEACHATE	ND	06/13/97	KLF	0.10	1.00	P
Silver	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
hallium	MG/L LEACHATE	ND	06/13/97	KLF	0.20		
Zinc	MG/L LEACHATE	6.55	06/13/97	KLF	0.05		

Sampled: 06/11/97
SOIL BORING
B-18/5-7'

	Units	97B10969	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
ntimony	MG/L LEACHATE	ND	06/16/97	KLF	0.05		
Arsenic	MG/L LEACHATE	ND	06/13/97	KLF	0.10	5.00	P
Beryllium	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Cadmium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	1.00	P
Chromium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Copper	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Lead	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Mercury	MG/L LEACHATE	ND	06/14/97	APP	0.00020	0.20	P
Nickel	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Selenium	MG/L LEACHATE	ND	06/13/97	KLF	0.10	1.00	P
Silver	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

Purchase Order Number: 40163
Project Number: PROJ.# 40163

LIMS-BAT #: LIMS-30046
Job Number: 30046
Sample Matrix: SOIL

Sampled: 06/11/97
SOIL BORING
B-18/5-7'

	Units	97B10969	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Thallium	MG/L LEACHATE	ND	06/13/97	KLF	0.20		
Zinc	MG/L LEACHATE	0.15	06/13/97	KLF	0.05		

Sampled: 06/11/97
SOIL BORING
B-4/8-10'

	Units	97B10965	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	MG/L LEACHATE	ND	06/16/97	KLF	0.05		
Arsenic	MG/L LEACHATE	ND	06/13/97	KLF	0.10	5.00	P
Beryllium	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Cadmium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	1.00	P
Chromium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Copper	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Lead	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Mercury	MG/L LEACHATE	ND	06/14/97	APP	0.00020	0.20	P
Nickel	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Selenium	MG/L LEACHATE	ND	06/13/97	KLF	0.10	1.00	P
Silver	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Thallium	MG/L LEACHATE	ND	06/13/97	KLF	0.20		
Zinc	MG/L LEACHATE	0.35	06/13/97	KLF	0.05		

Sampled: 06/11/97
SOIL BORING
B-8/8-10'

	Units	97B10966	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	MG/L LEACHATE	ND	06/16/97	KLF	0.05		

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Purchase Order Number: 40163
Project Number: PROJ.# 40163

LIMS-BAT #: LIMS-30046
Job Number: 30046
Sample Matrix: SOIL

Sampled: 06/11/97
SOIL BORING
B-8/8-10'

	Units	97B10966	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Arsenic	MG/L LEACHATE	ND	06/13/97	KLF	0.10	5.00	P
Beryllium	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Cadmium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	1.00	P
Chromium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Copper	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Lead	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Mercury	MG/L LEACHATE	ND	06/14/97	APP	0.00020	0.20	P
Nickel	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Selenium	MG/L LEACHATE	ND	06/13/97	KLF	0.10	1.00	P
Silver	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Thallium	MG/L LEACHATE	ND	06/13/97	KLF	0.20		
Zinc	MG/L LEACHATE	0.76	06/13/97	KLF	0.05		

Sampled: 06/11/97
SOIL BORING
B-9/9-11'

	Units	97B10967	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	MG/L LEACHATE	ND	06/16/97	KLF	0.05		
Arsenic	MG/L LEACHATE	ND	06/13/97	KLF	0.10	5.00	P
Beryllium	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Cadmium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	1.00	P
Chromium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Copper	MG/L LEACHATE	0.26	06/13/97	KLF	0.05		
Lead	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Mercury	MG/L LEACHATE	ND	06/14/97	APP	0.00020	0.20	P
Nickel	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Selenium	MG/L LEACHATE	ND	06/13/97	KLF	0.10	1.00	P
Silver	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Thallium	MG/L LEACHATE	ND	06/13/97	KLF	0.20		

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NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

Purchase Order Number: 40163
Project Number: PROJ.# 40163

LIMS-BAT #: LIMS-30046
Job Number: 30046
Sample Matrix: SOIL

Sampled: 06/11/97
SOIL BORING
B-9/9-11'

	Units	97B10967	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Zinc	MG/L LEACHATE	0.26	06/13/97	KLF	0.05		

Sampled: 06/11/97
R.O.W.
ROW/TP1/0-2'

	Units	97B10972	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	MG/L LEACHATE	ND	06/16/97	KLF	0.05		
Arsenic	MG/L LEACHATE	ND	06/13/97	KLF	0.10	5.00	P
Beryllium	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Cadmium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	1.00	P
Chromium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Copper	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Lead	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Mercury	MG/L LEACHATE	ND	06/14/97	APP	0.00020	0.20	P
Nickel	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Selenium	MG/L LEACHATE	ND	06/13/97	KLF	0.10	1.00	P
Silver	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Thallium	MG/L LEACHATE	ND	06/13/97	KLF	0.20		
Zinc	MG/L LEACHATE	0.19	06/13/97	KLF	0.05		

Sampled: 06/11/97
R.O.W.
ROW/TP10/4-6'

	Units	97B10975	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	MG/L LEACHATE	ND	06/16/97	KLF	0.05		
Arsenic	MG/L LEACHATE	ND	06/13/97	KLF	0.10	5.00	P

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NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

Purchase Order Number: 40163
Project Number: PROJ.# 40163

LIMS-BAT #: LIMS-30046
Job Number: 30046
Sample Matrix: SOIL

Sampled: 06/11/97
R.O.W.
ROW/TP10/4-6'

	Units	97B10975	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
eryllium	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
admium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	1.00	P
Chromium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
opper	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
ead	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Mercury	MG/L LEACHATE	ND	06/14/97	APP	0.00020	0.20	P
Nickel	MG/L LEACHATE	0.08	06/13/97	KLF	0.05		
elenium	MG/L LEACHATE	ND	06/13/97	KLF	0.10	1.00	P
ilver	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Thallium	MG/L LEACHATE	ND	06/13/97	KLF	0.20		
inc	MG/L LEACHATE	0.30	06/13/97	KLF	0.05		

Sampled: 06/11/97
R.O.W.
ROW/TP6/3-4'

	Units	97B10973	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	MG/L LEACHATE	ND	06/16/97	KLF	0.05		
rsenic	MG/L LEACHATE	ND	06/13/97	KLF	0.10	5.00	P
eryllium	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Cadmium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	1.00	P
Chromium	MG/L LEACHATE	0.09	06/13/97	KLF	0.05	5.00	P
Copper	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Lead	MG/L LEACHATE	0.31	06/13/97	KLF	0.05	5.00	P
Mercury	MG/L LEACHATE	ND	06/14/97	APP	0.00020	0.20	P
Nickel	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Selenium	MG/L LEACHATE	ND	06/13/97	KLF	0.10	1.00	P
Silver	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Thallium	MG/L LEACHATE	ND	06/13/97	KLF	0.20		
Zinc	MG/L LEACHATE	0.30	06/13/97	KLF	0.05		

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BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

Purchase Order Number: 40163
Project Number: PROJ.# 40163

LIMS-BAT #: LIMS-30046
Job Number: 30046
Sample Matrix: SOIL

Sampled: 06/11/97
R.O.W.
ROW/TP7/2-3'

	Units	97B10974	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	MG/L LEACHATE	ND	06/16/97	KLF	0.05		
Arsenic	MG/L LEACHATE	ND	06/13/97	KLF	0.10	5.00	P
Beryllium	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Cadmium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	1.00	P
Chromium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Copper	MG/L LEACHATE	0.09	06/13/97	KLF	0.05		
Lead	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Mercury	MG/L LEACHATE	ND	06/14/97	APP	0.00020	0.20	P
Nickel	MG/L LEACHATE	0.28	06/13/97	KLF	0.05		
Selenium	MG/L LEACHATE	ND	06/13/97	KLF	0.10	1.00	P
Silver	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Thallium	MG/L LEACHATE	ND	06/13/97	KLF	0.20		
Zinc	MG/L LEACHATE	5.45	06/13/97	KLF	0.05		

Sampled: 06/11/97
HARD AUGER
SUR-1

	Units	97B10970	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	MG/L LEACHATE	ND	06/16/97	KLF	0.05		
Arsenic	MG/L LEACHATE	ND	06/13/97	KLF	0.10	5.00	P
Beryllium	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Cadmium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	1.00	P
Chromium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Copper	MG/L LEACHATE	1.07	06/13/97	KLF	0.05		
Lead	MG/L LEACHATE	BDL	06/13/97	KLF	0.05	5.00	P
Mercury	MG/L LEACHATE	ND	06/14/97	APP	0.00020	0.20	P
Nickel	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Selenium	MG/L LEACHATE	ND	06/13/97	KLF	0.10	1.00	P
Silver	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P

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Purchase Order Number: 40163
Project Number: PROJ.# 40163

LIMS-BAT #: LIMS-30046
Job Number: 30046
Sample Matrix: SOIL

Sampled: 06/11/97
HARD AUGER
SUR-1

	Units	97B10970	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
hallium	MG/L LEACHATE	ND	06/13/97	KLF	0.20		
inc	MG/L LEACHATE	3.12	06/13/97	KLF	0.05		

Sampled: 06/11/97
HARD AUGER
SUR-2

	Units	97B10971	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
ntimony	MG/L LEACHATE	ND	06/16/97	KLF	0.05		
rsenic	MG/L LEACHATE	ND	06/13/97	KLF	0.10	5.00	P
Beryllium	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Cadmium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	1.00	P
Chromium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Copper	MG/L LEACHATE	0.73	06/13/97	KLF	0.05		
Lead	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Mercury	MG/L LEACHATE	ND	06/14/97	APP	0.00020	0.20	P
Nickel	MG/L LEACHATE	0.33	06/13/97	KLF	0.05		
Selenium	MG/L LEACHATE	ND	06/13/97	KLF	0.10	1.00	P
Silver	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Thallium	MG/L LEACHATE	ND	06/13/97	KLF	0.20		
Zinc	MG/L LEACHATE	1.10	06/13/97	KLF	0.05		

Sampled: 06/11/97
BURN PIT
UST3/TP1/0-2'

	Units	97B10976	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Antimony	MG/L LEACHATE	ND	06/16/97	KLF	0.05		

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SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

Purchase Order Number: 40163
Project Number: PROJ.# 40163

LIMS-BAT #: LIMS-30046
Job Number: 30046
Sample Matrix: SOIL

Sampled: 06/11/97
BURN PIT
UST3/TP1/0-2'

	Units	97B10976	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Arsenic	MG/L LEACHATE	ND	06/13/97	KLF	0.10	5.00	P
Beryllium	MG/L LEACHATE	ND	06/13/97	KLF	0.05		
Cadmium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	1.00	P
Chromium	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Copper	MG/L LEACHATE	0.16	06/13/97	KLF	0.05		
Lead	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Mercury	MG/L LEACHATE	ND	06/14/97	APP	0.00020	0.20	P
Nickel	MG/L LEACHATE	1.87	06/13/97	KLF	0.05		
Selenium	MG/L LEACHATE	ND	06/13/97	KLF	0.10	1.00	P
Silver	MG/L LEACHATE	ND	06/13/97	KLF	0.05	5.00	P
Thallium	MG/L LEACHATE	ND	06/13/97	KLF	0.20		
Zinc	MG/L LEACHATE	1.47	06/13/97	KLF	0.05		

Analytical Method(s):

SW846 1312/6010 1312/7470

SW846 1312 SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP). SAMPLES ARE LEACHED FOR 16-20 HOURS IN THE APPROPRIATE LEACHING SOLUTION ACCORDING TO SPLP.

SW846 6010 ALL METALS OTHER THAN MERCURY ARE ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY.

SW846 7470 MERCURY LEACHATE IS ANALYZED BY COLD VAPOR (FLAMELESS) ATOMIC ABSORPTION SPECTROPHOTOMETRY.

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SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

LABORATORY REPORT

Eastern Analytical, Inc. ID#: **9123** VHBMA

Client: Vanasse, Hangen & Brustlin

Client Designation: **Middletown, CT 40163**

Sample ID:	TP-3/0-2'			
Matrix:	solid			
Date Rec'd:	06/20/97			
Units (unless noted):	mg/kg	Date of Analysis	Analyst	Method
Total Cyanide	1.2	06/24/97	LO	335.2

Approved by: Lorraine Olashaw, Inorganic Supervisor Lorraine Olashaw

Appendix E
Asbestos Summary Tables and Laboratory Analytical Results

Table 1
ACM Inventory
180 Johnson Street

Homogeneous Area #	Functional Space	Type of Material	F/NF	Asbestos Y/N?	Quantity	Comments
01	Rest room area, hall between buildings #11 & #1A, 1st Floor	Tan brick-style 12"x12" floor tile	NF	N	200 SF	
02	Foyer, #1A, 1st Floor	Tan speckled 12"x12" floor tile	NF	N	210 SF	
03	Foyer & adjoining rest room area, #1A, 1st Floor	Tan spray-applied insulation/fireproofing	F	N	400 SF	Above ceiling tile
04	Warehouse/office area #1A, 1st Floor	Sheet rock/joint compound composite system	NF	N	750 SF	
05	Office, #1B, 1st Floor	Tan 12"x12" floor tile	NF	N	320 SF	Beneath carpet
06	Storage rooms, #1C, 1st & 2nd Floors	White interior door insulation	F	Y	505 SF	Interior door insulation/fireproofing
07	East corner, #1C, 2nd Floor	Red plaster	NF	Y	125 SF	Embedded in wire lath
08	By entrance to #8, northeast wall, Building #1B, 2nd Floor	Black mastic beneath red/white floor tile	NF	Y	1,100 SF	Attached to wood floor
09	By entrance to #8, northeast wall, Building #1B, 2nd Floor	Red & white 9"x9" checkered floor tile	NF	N	1,100 SF	
10	North corner, #8, 2nd Floor	Black mastic beneath green checkered floor tile	NF	Y	250 SF	Attached to wood floor
11	North corner, #8, 2nd Floor	Green checkered 9"x 9" floor tile	NF	Y	250 SF	
12	Northeast corner, #3, 2nd Floor	Red with white streaks 9"x 9" floor tile	NF	Y	350 SF	Attached to wood

Table 1
ACM Inventory
180 Johnson Street

Homogeneous Area #	Functional Space	Type of Material	Asbestos F/NF	Asbestos Y/N?	Quantity	Comments
13	Northeast corner, #3, 2nd Floor	Black paper beneath floor tile	NF	Y	350 SF	
14	Southeast corner, #1A, 2nd Floor	White plaster	NF	N	2,000 SF	Water damaged
15	Hall, #1A, 2nd Floor	Brown 9"x9" floor tile	NF	Y	500 SF	Beneath carpet attached to wood
16	Building #10	Paper-type pipe insulation	F	Y	70 LF	
	Building #11A				45 LF	
	Building #1A, 1st Floor				400 LF	
	Building #1A, 2nd Floor				250 LF	
	Building #1B, 1st Floor				600 LF	
	Building #1B, 2nd Floor				2 LF	
	Building #1C, 1st Floor				200 LF	
	Building #1C, 2nd Floor				15 LF	
	Building #8, 1st Floor				50 LF	
	Building #8, 2nd Floor				2 LF	
	Building #8 & #1B, 1st Floor				30 LF	
	Building #10				250 LF	
	Building #9, 1st Floor				4 LF	

Table 1
ACM Inventory
180 Johnson Street

Homogeneous Area #	Functional Space	Type of Material	F/NF	Asbestos Y/N?	Quantity	Comments
16 (Cont.)	Building #9, 1st Floor	Paper-type pipe insulation (cont.)	F	Y	10 LF	
	Building #2, 1st Floor				40 LF	
	Building #3				30 LF	
	Building #5				175 LF	
	Building #7 (Boiler House)				200 LF	
	Building #6, Room #1, 1st Floor				2 LF	
17	Building #1A, 1st Floor	Block-type pipe insulation	F	Y	30 LF	
	Building #1C, 1st Floor				20 LF	
	Building #1C, 2nd Floor				20 LF	
	Building #8, 1st Floor				165 LF	
	Building #9, 1st Floor				275 LF	
	Building #7				100 LF	
	Building #6, 2nd Floor				75 LF	
					30 LF	24" outside diameter
18	Building #1B, 2nd Floor	Cementitious switches/panels	NF	Y	65 F	In electric transformer
	Building #1C, 2nd Floor				65 F	
	Building #8, 2nd Floor				65 F	

Table 1
ACM Inventory
180 Johnson Street

Homogeneous Area #	Functional Space	Type of Material	Asbestos F/NF	Asbestos Y/N?	Quantity	Comments
18 (cont.)	Building #6, rear storage, 1st Floor				65 F	
19	Buildings #1A, 1B, 1C, 2, 3, 4, 5, 8, 10 & 11	Black flashing cement	NF	Y	30,000 SF	Throughout all penetrations, perimeters & junctions
20	Buildings #1A, 1B, 1C, 2, 3, 4, 5, 8, 10, 11	Black asphaltic roofing material	NF	N	180,00 SF	
21	Building #1B	Black asphaltic shingle	NF	N	250 SF	

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Please Circle Desired Turn Around Time

Same Day 24 Hour 48 Hour

3-4 Days Standard 5-7 Days

nalyzed By: MK

INTERNAL / ATC INFORMATION

Branch & Office #: _____

Recv'd By: _____ On: _____

Qty Recv'd: _____ Rate:$ _____

Requested Completion Date: _____

Project #: _____

Supplemental #: _____

Project Manager: _____

Comments/Special Instructions: _____

Date: 6/13/97 Lab QC Approval By: MM

GENERAL CLIENT INFORMATION

Client/Project: VHB

Address: 101 Walnut St. P.O. Box 9151
Watertown, MA 02272

Sampled By: Tim Downey

Results to: SAME

Phone #: 617-924-1770 x1243

Fax #: 617-923-2336

924-2286

Lab ID	Field ID	Description	Visual: Color	Visual: Homogenity	Visual: Texture	Visual: Friable	Optical Properties: Morphology	Optical Properties: Extinction	Optical Properties: Sign of Elongation	Optical Properties: Birefringence	Optical Properties: Pleochroism	Refractive Indicies: OIL	Refractive Indicies: Fibers II	Refractive Indicies: Fibers I	% Asbestos Fibers Present: Chrysotile	% Asbestos Fibers Present: Amosite	% Asbestos Fibers Present: Crocidolite	% Asbestos Fibers Present: Tremolite	% Asbestos Fibers Present: Anthophyllite	% Asbestos Fibers Present: Actinolite	% Non Asbestos Present: Fiberglass	% Non Asbestos Present: Mineral Wool	% Non Asbestos Present: Cellulose	% Non Asbestos Present: Hair	% Non Asbestos Present: Synthetic	% Non Asbestos Present: Other	% Non Asbestos Present: Non Fibrous
7989	03-007 *	Tan spray-applied fireproofing/ insulation, above ceiling tile, rest room area, Building #11	W	N	SN/F	Y						1.550 / 1.680											85				15
7990	03-008 *	SAME AS ABOVE !	W	N	SN/F	Y						1.550 / 1.680											85				15
7991	03-009 *	SAME AS ABOVE	W	N	SN/F	Y						1.550 / 1.680											85				15
7992	04-010	white sheet rock/joint compound composite, back of office area, Building #1A, 1st Floor	W	N	SN/F	Y						1.550 / 1.680											5				95
7993	04-011	SAME AS ABOVE	W	N	SN/F	Y						1.550 / 1.680											15				85
7994	04-012	SAME AS ABOVE	W	N	SN/F	Y						1.550 / 1.680											5				95

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3-4 Days Standard 5-7 Days

Analyzed By: MR

INTERNAL / ATC INFORMATION

Branch & Office #:
Recv'd By: On:
Qty Recv'd: Rate:$
Requested Completion Date:
Project #:
Supplemental #:
Project Manager:
Comments/Special Instructions:
Date: 6/13/97 Lab QC Approval By: MM

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GENERAL CLIENT INFORMATION

Client/Project: VAB
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Results to: SAME
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Fax #: 617-923-2336

Lab ID	Field ID	Description	Visual: Color	Visual: Homogenity	Visual: Texture	Visual: Friable	Optical Properties: Morphology	Optical Properties: Extinction	Optical Properties: Sign of Elongation	Optical Properties: Birefringence	Optical Properties: Pleochroism	Refractive Indicies: OIL	Refractive Indicies: Fibers II	Refractive Indicies: Fibers I	% Asbestos Fibers Present: Chrysotile	% Asbestos Fibers Present: Amosite	% Asbestos Fibers Present: Crocidolite	% Asbestos Fibers Present: Tremolite	% Asbestos Fibers Present: Anthophyllite	% Asbestos Fibers Present: Actinolite	% Non Asbestos Present: Fiberglass	% Non Asbestos Present: Mineral Wool	% Non Asbestos Present: Cellulose	% Non Asbestos Present: Hair	% Non Asbestos Present: Synthetic	% Non Asbestos Present: Other	% Non Fibrous
57995	05-013 *	Tan 12"x12" floor tile, office area, Building #10, 1st Floor	TN	N	GN	N						1.550															100
												1.680															
57996	05-014 *	SAME AS ABOVE	TN	N	GN	N						1.550															100
												1.680															
57997	05-015 *	SAME AS ABOVE	TN	N	GN	N						1.550															100
												1.680															
57998	06-016	white fibrous interior door insulation, storage room, Building #1C, 1st Floor	OW	N	SN/F	Y	W	P	+	L	N	1.550	1.540	1.540	65								15				20
												1.680															
57999	06-017	SAME AS ABOVE	GY	N	SN/F	Y						1.550															N/A
												1.680															
58000	06-018	SAME AS ABOVE	GY	N	SN/F	Y						1.550															N/A
												1.680															

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Please Circle Desired Turn Around Time

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INTERNAL / ATC INFORMATION

Branch & Office #:
Recv'd By: On:
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Project #:
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Comments/Special Instructions:
Date: 6/13/97 Lab QC Approval By: MM

GENERAL CLIENT INFORMATION

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Address: 101 Walnut St. P.O. Box 9151
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Lab ID	Field ID	Description	Visual: Color	Visual: Homogenity	Visual: Texture	Visual: Friable	Optical Properties: Morphology	Optical Properties: Extinction	Optical Properties: Sign of Elongation	Optical Properties: Birefringence	Optical Properties: Pleochroism	Refractive Indicies: OIL	Refractive Indicies: Fibers II	Refractive Indicies: Fibers I	% Asbestos Fibers Present: Chrysotile	% Asbestos Fibers Present: Amosite	% Asbestos Fibers Present: Crocidolite	% Asbestos Fibers Present: Tremolite	% Asbestos Fibers Present: Anthophylite	% Asbestos Fibers Present: Actinolite	% Non Asbestos Present: Fiberglass	% Non Asbestos Present: Mineral Wool	% Non Asbestos Present: Cellulose	% Non Asbestos Present: Hair	% Non Asbestos Present: Synthetic	% Non Asbestos Present: Other	% Non Asbestos Present: Non Fiberous
58001	07019	Red plaster, east corner by rear stairs, Building #1C, 2nd Floor	RD	N	GN	N	W	P	I	L	N	1.550	1.550	1.550									5				93 NK
			RD	N	GN/F	Y						1.680		TMD											TMD		80
58002	07-020	SAME AS ABOVE !	RD	N	GN/F	Y						1.550															~~[illegible]~~ NK DNA
												1.680															
58003	07-021	SAME AS ABOVE	RD	N	GN/F	Y						1.550															~~[illegible]~~ NK PNA
												1.680															
58004	08-022 *	Black mastic beneath red and white floor tile, by entrance to #B, Building #1B, 2nd Floor	BK	N	GN	N						1.550											15				85
												1.680															
58005	08-023 *	SAME AS ABOVE	BK	N	GN	N						1.550											5				95
												1.680															
58006	08-024 *	SAME AS ABOVE	BK	N	GN	N						1.550											2				98
												1.680															

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3-4 Days Standard 5-7 Days

Analyzed By: NL

INTERNAL / ATC INFORMATION

Branch & Office #:
Recv'd By: On:
Qty Recv'd: Rate:$
Requested Completion Date:
Project #:
Supplemental #:
Project Manager:
Comments/Special Instructions:
Date: 6/13/97 Lab QC Approval By: MM

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GENERAL CLIENT INFORMATION

Client/Project: VAB
Address: 101 Walnut St. P.O. Box 9151
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Sampled By: Tim Downey
Results to: SAME
Phone #: 617-924-1770 x1243
Fax #: 617-923-2336

Lab ID	Field ID	Description	Visual: Color	Visual: Homogeneity	Visual: Texture	Visual: Friable	Optical Properties: Morphology	Optical Properties: Extinction	Optical Properties: Sign of Elongation	Optical Properties: Birefringence	Optical Properties: Pleochroism	Refractive Indicies: OIL	Refractive Indicies: Fibers ‖	Refractive Indicies: Fibers ⊥	% Asbestos Fibers Present: Chrysotile	Amosite	Crocidolite	Tremolite	Anthophyllite	Actinolite	% Non Asbestos Present: Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non Fibrous
58007	09-025 *	Red and white 9"x9" floor tile, by entrance to #8, Building #1B, 2nd Floor	RD	N	SN	N	W	P	+	L	N	1.550	1.530	1.550	5												95
												1.680															
58008	09-026 *	SAME AS ABOVE !	RD	N	SN	N						1.550															DNA
												1.680															
58009	09-027 *	SAME AS ABOVE	RD	N	SN	N						1.550															DNA
												1.680															
58010	10-028 *	Black mastic beneath green 9"x9" floor tile, Building #1B, 2nd Floor	BK	N	SN	N						1.550											2				98
												1.680															
58011	10-029 *	SAME AS ABOVE	BK	N	SN	N						1.550											5				95
												1.680															
58012	10-030 *	SAME AS ABOVE	BK	N	SN	N	W	P	+	L	N	1.550	1.530	1.550	3								5				92
												1.680															

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Same Day | 24 Hour | 48 Hour | 3-4 Days | Standard 5-7 Days

Analyzed By: MC

INTERNAL / ATC INFORMATION

Branch & Office #:
Recv'd By: On:
Qty Recv'd: Rate:$
Requested Completion Date:
Project #:
Supplemental #:
Project Manager:
Comments/Special Instructions:
Date: 6/13/97 Lab QC Approval By: MM

ES968

GENERAL CLIENT INFORMATION

Client/Project: VAB
Address: 101 Walnut St. P.O. Box 9151
Watertown, MA 02272
Sampled By: Tim Downey
Results to: SAME
Phone #: 617-924-1770 x1243
Fax #: 617-923-2336

Lab ID	Field ID	Description	Visual: Color	Visual: Homogenity	Visual: Texture	Visual: Friable	Optical Properties: Morphology	Optical Properties: Extinction	Optical Properties: Sign of Elongation	Optical Properties: Birefringence	Optical Properties: Pleochroism	Refractive Indicies: OIL	Refractive Indicies: Fibers II	Refractive Indicies: Fibers I	% Asbestos Fibers Present: Chrysotile	Amosite	Crocidolite	Tremolite	Anthophyllite	Actinolite	% Non Asbestos Present: Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non Fibrous
58013	11-031 *	Green 9x9 floor tile, Building #8, 2nd Floor	GN	N	GN	N	W	P	+	L	N	1.550	1560	1550	15								5				80
												1.680															
58014	11-032 *	SAME AS ABOVE	GN	N	GN	N						1.550															DNA
												1.680															
58015	11-033 *	SAME AS ABOVE	GN	N	GN	N						1.550															DNA
												1.680															
58016	* 12-034	Red with white streaks 9x9 floor tile, north end, Building #9, 2nd Floor	RD	N	GN	N	W	P	+	L	N	1.550	1560	1550	5								5				90
												1.680															
58017	* 12-035	SAME AS ABOVE	RD	N	GN	N						1.550															DNA
												1.680															
58018	* 12-036	SAME AS ABOVE	RD	N	GN	N						1.550															DNA
												1.680															

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Lab ID	Field ID	Description	Visual: Color	Visual: Homogenity	Visual: Texture	Visual: Friable	Optical Properties: Morphology	Optical Properties: Extinction	Optical Properties: Sign of Elongation	Optical Properties: Birefringence	Optical Properties: Pleochroism	Refractive Indicies: OIL	Refractive Indicies: Fibers II	Refractive Indicies: Fibers I	% Asbestos Fibers Present: Chrysotile	Amosite	Crocidolite	Tremolite	Anthophylite	Actinolite	% Non Asbestos Present: Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non Fibrous
58019	13-037 *	Black paper backing beneath red floor tile, north end, building #, 2nd Floor	BK	N	GN/F	N						1.550											55				45
												1.680															
58020	13-038 *	SAME AS ABOVE	BK	N	GN/F	N						1.550											55				45
												1.680															
58021	13-039 *	SAME AS ABOVE	BK	N	GN/F	N						1.550											55				45
												1.680															
58022	14-040	white floor/ceiling plaster, south east end, building #14, 2nd Floor	GY	N	GN/F	N						1.550											20				80
												1.680															
58023	14-041	SAME AS ABOVE	GY	N	GN/F	N						1.550											30				70
												1.680															
58024	14-042	SAME AS ABOVE	GY	N	GN/F	N						1.550											30				70
												1.680															

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INTERNAL / ATC INFORMATION

Branch & Office #:
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ES 168

GENERAL CLIENT INFORMATION

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58037	19-055 *	Black flashing cement, roof of Building #3	BK	N	BN/F	N	W	P	+	L	N	1.550	1.560	1.550	15						20						65
												1.680															
58038	19-056 *	SAME AS ABOVE	BK	N	BN/F	N						1.550															DNA
												1.680															
58039	19-057 *	SAME AS ABOVE	BK	N	BN/F	N						1.550															DNA
												1.680															
58040	20-058 *	Black asphaltic roofing material, roof of Building #3	BK	N	BN/F	N						1.550											2				98
												1.680															
58041	20-059 *	SAME AS ABOVE	BK	N	BN/F	N						1.550											2				98
												1.680															
58042	20-060 *	SAME AS ABOVE	BK	N	BN/F	N						1.550									2		5				93
												1.680															

Appendix F
Lead-Based Paint Summary Tables and Laboratory Analytical Results

VHB

XRF FIELD TESTING RESULTS

Site Access: Yes X No
Demo Permitted?: Yes X No
Project#: 40163.06
Location: 180 Johnson Street
Middletown, CT

Date: 5/14/97
Page: 1 of 8
Project Name: Remington Rand
Inspector: TMD

Location	Surface Tested	Substrate	Concentration (mg/cm^2)
Building #11A			
	Green lower wall	brick	< 0.1
	White upper wall	brick	0.3
	Red fire door	**metal**	**> 5.0**
	Green lower column	metal	1.6
	White upper column	metal	1.4
	Red floor	concrete	< 0.1
	Brown door jamb	**wood**	**4.1**
Rest Room Hallway			
	Tan wall	sheet rock	0.1
	Blue door casing	wood	< 0.1
	Blue baseboard	wood	< 0.1
Men's Room			
	Blue stall divider	wood	< 0.1
	Tan wall	brick	0.1
Foyer/Main Entrance			
	Tan wainscoting	wood	< 0.1
	Tan door	wood	0.1
Building #1A, First Floor			
	Gray lower column	metal	1.3
	White upper column	metal	1.5
	Tan upper wall	brick	0.2
	Blue lower wall	brick	0.4
	White window sash	**wood**	**4.0**
	White window casing	**wood**	**2.4**
Building #1B, First Floor			
	Green lower wall	brick	0.7
	Gray upper wall	brick	0.5
	White upper wall	brick	0.1
	White overhead door	wood	< 0.1
	White window sash	wood	1.5
	White window casing	**wood**	**2.4**
	Brown door	wood	0.1
	Brown door casing	wood	0.4

Limit of detection of NITON XRF is < 0.1 mg/cm^2

BOLD indicates building components that should be segregated and disposed as hazardous waste.

Z: EV\DOWNEY\LBP_CT.DOC

VHB

XRF FIELD TESTING RESULTS

Site Access: Yes X No
Demo Permitted?: Yes X No
Project#: 40163.06
Location: 180 Johnson Street
Middletown, CT

Date: 5/14/97
Page: 2 of 8
Project Name: Remington Rand Facility
Inspector: TMD

Location	Surface Tested	Substrate	Concentration (mg/cm^2)
Building #1B, First Floor (cont.)			
	Gray lower column	metal	0.2
	White upper column	metal	0.9
	White window sash	wood	2.0
	Red fire door	metal	0.6
	White wall	sheet rock	0.1
	White wainscoting	wood	0.3
	White window casings	wood	0.3
Building #1B (cont.)			
	Green door	wood	0.4
Building #1C, First Floor			
	Gray lower wall	brick	0.4
	White upper wall	brick	0.6
	Gray lower column	metal	0.2
	White upper column	metal	0.6
	Gray wainscoting	wood	0.2
	Gray door	**wood**	**2.8**
	Gray door casing	wood	0.1
	White window sash	**wood**	**3.4**
	White window casing	**wood**	**> 5.0**
	Gray column	metal	1.5
Men's Room	**Tan wall**	**wood**	**> 5.0**
	Tan wall	**brick**	**3.8**
	White ceiling	wood	0.1
	Black electrical board	wood	< 0.1
	Gray door	**wood**	**2.7**
	White cross beam	wood	0.1
	Gray inner stair wall	wood	1.7
Building #1C, Second Floor			
	White window sash	**wood**	**4.1**
	White window casing	**wood**	**> 5.0**
	White ceiling	wood	0.1
	White upper wall	brick	0.4

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BOLD indicates building components that should be segregated and disposed as hazardous waste.

Z: EV\DOWNEY\LBP_CT.DOC

VHB

XRF FIELD TESTING RESULTS

Site Access: Yes X No
Demo Permitted?: Yes X No
Project#: 40163.06
Location: 180 Johnson Street
Middletown, CT

Date: 5/14/97
Page: 3 of 8
Project Name: Remington Rand Facility
Inspector: TMD

Location	Surface Tested	Substrate	Concentration (mg/cm^2)
Building #1C, Second Floor (cont.)			
	Gray lower wall	brick	0.6
	White upper column	wood	0.3
	Gray lower column	wood	0.2
Building #1B, Second Floor			
	White window sash	**wood**	**> 5.0**
	White window casing	**wood**	**> 5.0**
	Gray lower column	wood	0.9
	White upper column	wood	1.0
Building #1B, Second Floor (cont.)	Green Stairs	wood	< 0.1
	Gray lower wall	brick	0.3
	White upper wall	brick	0.1
Building #9, Second Floor			
	Green lower column	wood	0.4
	Yellow upper column	wood	0.1
	Green lower wall	brick	1.4
	Tan upper wall	brick	0.3
	Bright green lower wall	brick	1.5
	Yellow/green fire door	**metal**	**> 5.0**
Building #1A, Second Floor			
	White window sash	**wood**	**1.9**
	White window casing	**wood**	**2.6**
	Gray lower wall	brick	0.2
	White upper wall	brick	0.1
	Gray lower column	wood	0.6
	White upper column	wood	1.0
	Yellow pipe	metal	1.2
Side Stairs	**Gray newel post**	**wood**	**3.5**

Limit of detection of NITON XRF is < 0.1 mg/cm^2

BOLD indicates building components that should be segregated and disposed as hazardous waste.

Z: EV\DOWNEY\LBP_CT.DOC

VHB

XRF FIELD TESTING RESULTS

Site Access: Yes X No
Demo Permitted?: Yes X No
Project#: 40163.06
Location: 180 Johnson Street
Middletown, CT

Date: 5/14/97
Page: 4 of 8
Project Name: Remington Rand Facility
Inspector: TMD

Location	Surface Tested	Substrate	Concentration (mg/cm^2)
Side Stairs (cont.)			
	Gray inner wall	**wood**	**3.1**
Building #8, Second Floor			
	White wall		0.3
	Gray lower wall		0.9
	White upper column		0.1
	Green lower column		0.6
	Gray door		0.2
	Gray fire door		**4.7**
Hall to #1B, Second Floor			
	Gray elevator door	metal	0.6
	Gray fire door	metal	0.6
Storage Room, Building #1C, Second Floor			
	White wall	brick	0.4
Building #8, First Floor			
	Gray lower wall	brick	0.1
	White upper wall	brick	0.1
	Gray lower column	wood	0.1
	White upper column	wood	< 0.1
	Tan ceiling	wood	0.2
Building #8, First Floor (cont.)			
	Tan cross beam	wood	0.5
	Gray door	wood	0.3
	Gray fire door	**metal**	**4.6**
	Gray overhead door	wood	1.7
Hall to #1B, First Floor			
	Gray door	wood	0.5
	Gray fire door	metal	1.5
Building #4	Gray lower wall	brick	0.2

Limit of detection of NITON XRF is < 0.1 mg/cm^2

BOLD indicates building components that should be segregated and disposed as hazardous waste.

VHB

XRF FIELD TESTING RESULTS

Site Access: Yes X No
Demo Permitted?: Yes X No
Project#: 40163.06
Location: 180 Johnson Street
Middletown, CT

Date: 5/14/97
Page: 5 of 8
Project Name: Remington Rand Facility
Inspector: TMD

Location	Surface Tested	Substrate	Concentration (mg/cm^2)
Building #4 (cont.)			
	White upper wall	brick	0.2
	Gay fire door	metal	1.8
	Gray column	metal	0.2
Building #2			
	Green lower wall	brick	0.1
	White upper wall	brick	< 0.1
	Red fire door	metal	0.5
	White window sash	**wood**	**> 5.0**
	White window casing	**wood**	**> 5.0**
Building #11B			
	Red structural beam	**metal**	**2.8**
	Green door	**metal**	**2.4**
Building #11C			
	Green wall	brick	0.1
	White wall	brick	0.1
	Brown overhead door	wood	< 0.1
	Brown exterior door	metal	0.7
Building #9C			
	Green overhead door	**wood**	**2.6**
	Red floor	concrete	0.2
	Brown wall	wood	< 0.1
	Gray fire door	**metal**	**3.9**
Building #4			
	Gray lower wall	brick	0.4
Building #4 (cont.)			
	White upper wall	brick	< 0.1
	Gray fire door	metal	1.2
Building #12			
	Gray lower wall	brick	0.1
	White upper wall	brick	< 0.1
	White window sash	**wood**	**N/A**
	White window casing	**wood**	**N/A**
	Gray fire door	**metal**	**3.0**
Building #7			
	Silver hot water tank	**metal**	**3.2**

Limit of detection of NITON XRF is < 0.1 mg/cm^2

BOLD indicates building components that should be segregated and disposed as hazardous waste.

Z: EV\DOWNEY\LBP_CT.DOC

VHB

XRF FIELD TESTING RESULTS

Site Access: Yes X No
Demo Permitted?: Yes X No
Project#: 40163.06
Location: 180 Johnson Street
Middletown, CT

Date: 5/14/97
Page: 6 of 8
Project Name: Remington Rand Facility
Inspector: TMD

Location	Surface Tested	Substrate	Concentration (mg/cm^2)
Building #7 (cont.)			
	Silver boiler	metal	0.3
	Green lower wall	brick	0.2
	White upper wall	brick	< 0.1
	Red pad	**concrete**	**> 5.0**
	Red floor	concrete	0.1
	Red stair riser	wood	1.3
	Green structural beam	metal	0.5
	Green vertical column	metal	1.0
Building #6, Second Floor			
	Green door	wood	0.4
	White wall	brick	0.1
	White window sash	**wood**	**> 5.0**
	Black structural beam	metal	0.7
Building #6, First Floor, Center Space			
	White window sash	**wood**	**> 5.0**
	White window casing	**wood**	**> 5.0**
	Brown door	wood	0.4
	Green wall	brick	0.5
Building #6, First Floor, Front Space			
	White door	wood	0.1
Building #3			
	Gray fire door	**metal**	**3.2**
	White window casing	wood	1.5
	White window sash	**wood**	**4.5**
	Gray wall	brick	< 0.1
	White wall	sheet rock	< 0.1

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VHB

XRF FIELD TESTING RESULTS

Site Access: Yes X No
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Project#: 40163.06
Location: 180 Johnson Street
Middletown, CT

Date: 5/14/97
Page: 7 of 8
Project Name: Remington Rand Facility
Inspector: TMD

Location	Surface Tested	Substrate	Concentration (mg/cm^2)
Demers Expo Space, First Floor			
	Cream wall	sheet rock	< 0.1
	White window sash	wood	vinyl
	White window casing	wood	1.5
	Cream vertical beam	wood	0.9
	Cream wall	brick	0.2
	Cream door	wood	< 0.1
	Cream door frame	wood	< 0.1
Second Floor	Cream wall	sheet rock	0.1
	Cream wall	brick	0.1
	White window casing	wood	2.0
	Cream wainscoting	wood	2.0
	Blue hand rail	wood	1.3
	Blue newel post	wood	1.9
Room #1, Second Floor			
	Brown window sash	**wood**	**> 5.0**
	Brown window casing	wood	0.7
	Brown window sill	wood	< 0.1
	Brown chair rail	wood	< 0.1
	Brown baseboard	wood	0.1
	White wall	plaster	0.2
	Brown door casing	wood	0.1
	Brown door jamb	wood	0.1
Room #2, Second Floor			
	Brown window casing	wood	1.1
	Brown window sill	wood	0.1
	Cream wall	plaster	0.2
Hall, Second Floor			
	Cream wall	sheet rock	0.2
Storage Room, Second Floor			
	Cream wall	brick	< 0.1
Building #5	**White window sash**	**wood**	**> 5.0**
	White window casing	**wood**	**3.1**

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Z: EV\DOWNEY\LBP_CT.DOC

VHB

XRF FIELD TESTING RESULTS

Site Access: Yes X No__
Demo Permitted?: Yes X No
Project#: 40163.06
Location: 180 Johnson Street
Middletown, CT

Date: 5/14/97
Page: 8 of 8
Project Name: Remington Rand Facility
Inspector: TMD

Location	Surface Tested	Substrate	Concentration (mg/cm^2)
Building #5 (cont.)			
	Gray lower wall	brick	0.1
	White upper wall	brick	< 0.1
Building #7, Band Room, Front			
	Green door	wood	0.8
	Green door casing	wood	0.6
	White door	wood	< 0.1
	White window sash	**wood**	**> 5.0**
	White window casing	**wood**	**4.1**
	Brown exterior door	wood	2.1
Building #6, Boiler Room			
	Black structural beam	metal	0.8
	Yellow hand rails	**metal**	**2.4**
	Silver duct	metal	0.4
"Mattress" Space			
	Red structural beam	metal	< 0.1
	Red vertical column	metal	0.1
Exterior Areas			
Building #4	**Green siding**	**wood**	**2.2**
	Brown door	wood	2.1
Building #6	**White storage shed**	**wood**	**> 5.0**
Building #10			
	White window casing	**wood**	**> 5.0**
	White window sash	**wood**	**> 5.0**

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LABORATORY REPORT
LEAD IN PAINT

ENVIRONMENTAL SCIENCE LAB
P.O. BOX 158 MEDWAY MA 02053
508-533-8812

NLLAP (A2LA) CERTIFICATE # 539.01
RHODE ISLAND LICENSE #86
MASSACHUSETTS LISTED
NYDOH ELAP #11346

REPORT TO:
VHB
101 WALNUT STREET
PO BOX 9151
WATERTOWN MA 02172

FOR PROPERTY AT:
180 JOHNSON ST
MIDDLETOWN CT

DATE COLLECTED 05-16-97 DATE RECEIVED 05-19-97 DATE REPORTED 05-22-97

SAMPLE IDENTIFICATION	PERCENT LEAD
WHITE CEILING BY FIRE DOOR BLDNG 1C	0.840
GRAY VERTICAL COLUMN #65B BLDNG 1C	0.207

EPA'S AREAL METHOD #RTP-MRDD-037; MICROWAVE DIGESTION FOLLOWED BY AAS.
SPIKE RECOVERY (%) = 100.7 (95-105% EXPECTED) DETECTABLE LIMIT=0.002%

RESULTS REVIEWED BY: _____ DIRECTOR

DISCLAIMER: This report may be transferred to a third party only in its entirety. The results represent the concentration of lead in the samples submitted and identified by the person or firm shown above. Incorrect identification of critical parameters will affect test results. Taken alone this report does not constitute a lead inspection or risk assessment. Only licensed or certified professionals may provide a complete interpretation. Environmental Science Lab., Inc., its employees or agents are not responsible for the consequences of any actions taken or not taken based on the results shown on this report or for any written or verbal interpretations of the results shown.

Appendix G
Inventory of Oil and Hazardous Materials

Inventory of Oil and Hazardous Materials

Location	Material	Container Size	Quantity
1A, 2nd Floor	CFC-containing refrigerator	---	1
	Dry chemical fire extinguisher	---	2
	Starter fluid	11 oz.	1
	Glazing compound	33 oz.	1
	Paint	1-gallon	1
1B, 1st Floor	Dry chemical fire extinguisher	---	2
	Compressor oil	5-gallon	2
	Unknown liquid	1-gallon	1
1B, 2nd Floor	Asphalt Roof Sealant	5-gallon	1
	PCB oils within electric panel	1/2 pint cylinder	9
1B, Elevator Room (roof)	PCB oils within electric panel	1/2 pint cylinder	10
	Asphaltic Roof Flashing	5 gallon pail	1
	Motor Oil	1 quart	1
	Gear Oil	11 oz.	1
	Transmission Oil	1 gallon	1
1C, 1st Floor	Dry chemical fire extinguisher	---	4
1C, 2nd Floor	PCB oils within electric panel	1/2 pint cylinder	9
2	Dry chemical fire extinguisher	---	2
3	Latex paint	5 gallon	9
	Polyurethane	15 gallons	1
	Car battery	---	2
	Antifreeze	1 gallon	1
4	Used motor oil	20 gallons	1
5	Window mounted CFC air conditioner	---	10
	Acetylene cylinder	Four foot	1
	Oxygen cylinder	Four foot	1
	Unknown gas cylinder	25 lb.	1
	CFC-containing refrigerators	---	17

Inventory of Oil and Hazardous Materials

Location	Material	Container Size	Quantity
6, 1st Floor	Degreaser	4 gallons	1
	Turpentine	1 gallon	1
	Spray paint cans	can	10
	Latex paint	5 gallon	16
	Oil-based paint	1 quart	5
	"Clear baking synthetic"	5 gallon	1
	Ortho insecticides	1 pint glass	4
	Gear lubricant	1 quart	1
	Oil lubricant	5 lb.	1
	Ortho insecticides	1 pint plastic	10
	PCB oils within electric panel	1/2 pint cylinder	7
6, 2nd Floor	Latex Paint	1 gallon	25
	Oil-based paint	1 gallon	25
	Hydrochloric acid	1 gallon	1
	Acidic solution	1 gallon	1
	Latex paint	5 gallon	5
	Mineral spirits/lead naphenate mixture	5 gallon	2
	Polyurethane	5 gallon	1
	Naphtha	1/2 gallon	1
	Bleach	1 gallon	1
7	Latex paint	5 gallon	14
	Stain	5 gallon	1
	Oil-based paint	5 gallon	1
	No. 2 fuel oil	20 gallons	1
8, 1st Floor	Dry chemical fire extinguisher	---	1
	Driveway sealer	5-gallon	2
	Motor oil	Quart	5
8, 2nd Floor	PCB oils within electric panel	1/2 pint cylinder	9
Hall between 8 & 1B, 1st Floor	Dry chemical fire extinguisher	---	1
9B	Lacquer thinner	1 gallon	5
	Used motor oil	1 gallon	2
	Degreaser	1 gallon	4
	Spray paint cans	Can	12
	Oil-based paint	1 gallon	2

Inventory of Oil and Hazardous Materials

Location	Material	Container Size	Quantity
10	CFC-containing refrigerator	---	1
	Used motor Oil	55-gallon	3
11B	Used motor oil	55-gallon	1
11C	Empty freon cylinder	5 lb.	1
	Used motor oil	10 gallons	1
11D	Argon gas cylinder	Four foot	1
	Used motor oil	55 gallon	2
14	Hydrochloric acid	15 gallon glass	1
	Grease	30 gallons	1
	Unknown	55 gallon	1
	Unknown	55 gallon	1
	Oil	5 gallon	9
	Brake fluid	1 gallon	1
	Unknown	30 gallon	1
	Lacquer	1 gallon	2
	Baking lacquer	5 gallon	1
15	CFC-containing refrigerator	---	1
Quonset Bldg.	Motor oil	55 gallon	3
	Used motor oil	10 gallons	1
<u>Exterior</u>			
Adjacent to No. 15	Used motor oil and water	55 gallon	1
Behind Quonset Bldg.	Used motor oil	55 gallon	1
Adjacent to 13	Rail Road Ties	---	40