

## New England Gas Company

VIA HAND DELIVERY

April 8, 2003

Mr. Joseph T. Martella, II, Senior Engineer  
Office of Waste Management  
Rhode Island Department of Environmental Management  
235 Promenade Street  
Providence, RI 02908-5767

**Reference: Site Investigation Report  
New England Gas Company  
642 Allens Avenue FMGP Site**

Dear Mr. Martella:

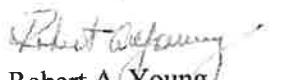
New England Gas Company ("NEGC") hereby submits the attached Site Investigation Report ("SIR") for the above-referenced site. The SIR was compiled by our consultant Vanasse Hangen Brustlin, Inc. ("VHB") and summarizes the work conducted on the site since 1994 by a variety of consultants and contractors. Please note that many of the activities were conducted before Southern Union Company owned the property; therefore, VHB relied on documents contained in the project files in preparing the SIR.

NEGC proposes to conduct additional remedial activities at the site once the Rhode Island Department of Environmental Management ("RIDEM") has reviewed and commented on the SIR. We respectfully request that the additional activities be conducted under a Phase 2 Remedial Action Work Plan ("RAWP") that will be developed by NEGC in consultation with RIDEM. We are currently waiting on closure from RIDEM of the Phase 1 RAWP that was completed in 2002.

We would like to schedule a meeting with you to present the finding of the SIR, discuss the remedial actions necessary and the future use of the site as well as potential off-site sources of contamination.

If you have any questions or need additional information regarding this project, please do not hesitate to contact me.

Sincerely,

  
Robert A. Young  
Director of Engineering

Attachment

cc: Alan Fish – Southern Union  
Dennis Esposito – AP&S  
Timothy O'Connor – VHB

bcc: Tom Robillard  
Charles Meunier  
Dave Black - w/ attachment  
Susan Groce - w/attachment  
Marc Viera - w/attachment  
Chris Medici - w/Executive Summary

New England Gas Company

April 1, 2004

Mr. Pat Convery, P.E.  
Coler & Colantonio, Inc.  
55 Bobala Road  
Holyoke, MA 01040

**RE: Environmental Reports – 642 Allens Avenue, Providence**

Dear Mr. Convery:

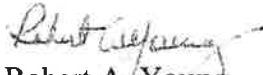
Enclosed are the three (3) environmental reports that you requested on behalf of your client KeySpan LNG, L.P.

1. Remedial Action Closure Report: Former Manufactured Gas Plant – 642 Allens Avenue, prepared by VHB, November 2002;
2. Remedial Action Closure Report: Former Manufactured Gas Plant – 642 Allens Avenue – Area 1, prepared by VHB, December 2002; and,
3. Site Investigation Report: Former Manufactured Gas Plant – 642 Allens Avenue, prepared by VHB, April 2003.

As we discussed the reports do not include the Appendices for Disposal Documentation and Laboratory Certificates of Analysis.

Should you have any further questions, please do not hesitate to call me at (401) 525-5601.

Sincerely,

  
Robert A. Young  
Director of Engineering

Enclosures (3)

cc: Dany R. Sweet – KeySpan LNG

*Former Manufactured Gas Plant*  
*642 Allens Avenue*

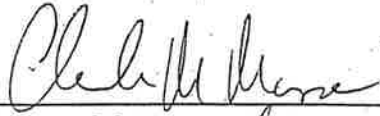
Providence,  
Rhode Island

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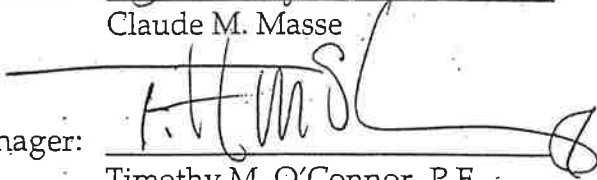
Prepared for: New England Gas Company

Prepared by: **VHB**/Vanasse Hangen Brustlin, Inc.  
Providence, Rhode Island

Project Scientist:

  
Claude M. Masse

Project Manager:

  
Timothy M. O'Connor, P.E.

April 2003

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# Executive Summary

In September 2000, the Southern Union Company (Southern Union) purchased the Providence Gas Company and changed the name to the New England Gas Company. For ease in reading this report, all references to the former Providence Gas Company and the New England Gas Company will be referred to as "the gas company" or "NEGC".

The gas company notified the Rhode Island Department of Environmental Management (RIDEM) of a historic release of hazardous materials at the property located at 642 Allens Avenue in Providence, Rhode Island (the Site) in May 1994. The notification informed RIDEM that the Site was the location of a former Manufactured Gas Plant (FMGP) that operated from 1910 to 1954. Since the time of notification, Site Investigation (SI) activities were conducted at the Site, currently occupied by NEGC (owner), KeySpan Energy (tenant), and the St. Lawrence Cement Company (tenant). The purpose of this Site Investigation Report (SIR) is to review the findings of previous investigations by others and present the recent findings by Vanasse Hangen Brustlin, Inc. (VHB) and the last round of data collected by Environmental Science Services, Inc. (ESS).

The Site is bound to the west by Allens Avenue, to the east by the Providence River, to the northwest by the Motiva /Texaco Terminal property, to the northeast by a water lot owned by Motiva/Texaco, to the southwest by Terminal Road, and to the southeast by UNIVAR (a chemical distributor), the former Sun Oil/ProvPort facility, and New England Bituminous Terminal Corporation. All surrounding properties are industrial in nature and either historically or currently store petroleum and/or hazardous materials and have the potential to impact the Site.

The FMGP Site is comprised of three principal areas and associated operations:

- NEGC's 642 Allens Avenue facility;
- The Liquid Natural Gas (LNG) facility now operated by KeySpan Energy; and
- The St. Lawrence Cement Company (formerly Independent Cement).

The KeySpan Energy LNG facility has been operated by several owners historically (Duke Energy and Algonquin Gas) and for ease in reading this report, this portion of the site will be referred to as "the LNG facility".

Several remedial actions were initiated and completed in preparation for the proposed expansion of the LNG facility. These remedial actions consisted of the removal of source material from subsurface structures and surrounding soils and excavation of surface soils and construction of engineered caps in portions of the Site (Phase 1 Site). The Phase 1 Site consisted of Areas 1, 2, and 3 (Refer to Figure 2). Area 1 is located within the south-central portion of the LNG facility and included areas within the containment dike (west of the vaporizer pad) and south of the offload area. Area 2 is located on the south-central portion of the NEGC facility and Area 3 is located on the northwest portion of the LNG facility and the northeast portion of the NEGC facility.

These remedial actions were conducted in accordance with the ESS Remedial Action Work Plan (RAWP) (as amended) which was approved in 1998 and a Temporary Remedial Action Permit (TRAP) issued by RIDEM in 1999. The TRAP indicated that the investigations of the Site did not adequately characterize the portions of the Site that were not included in the expansion of the LNG facility and required NEGC to conduct additional investigatory activities in these areas (the Phase 2 Site).

Site Investigation (SI) activities have been completed by Resource Control Associates, Inc. (RCA), ESS, and VHB. The SI activities included gathering information regarding the environmental setting of the Site, a review of federal and state environmental databases and state and local records to identify properties in the vicinity of the Site that had a release or threat of release of oil and/or hazardous materials (OHM) and have the potential to impact the environmental quality of the Site, the advancement of soil borings and testing of soil and groundwater to assess the nature and extent of impacts, and a review of remedial alternatives to address impacted soil and groundwater at the Site.

Record reviews of the surrounding properties indicates that there have been releases of OHM on all surrounding properties which may have impacted the subject Site. SI activities conducted on the Site indicates Site-wide surficial soil impacts and subsurface soil impacts scattered throughout the Site, but appears to be more prevalent in the former Structure No. 6 area, areas around the NEGC Gas Control Building, and areas proximate to the former Gasholder 18. Groundwater impacts appear to be more prevalent in areas down gradient of the Regulator Area, areas proximate to the former Gasholder 18, and the former Structure No. 6.

The selected remedial alternative consists of the excavation of subsurface soils exceeding RIDEM GB Leachability Criteria in areas southwest of the former portions of the material handling area (MHA) and the former Structure No. 6. Before these remedial actions are implemented, a RAWP will be developed and submitted to RIDEM for review and approval.

2001  
MODIFIED  
RAWP

Based on the industrial nature of the surrounding area, the documented releases of petroleum hydrocarbons on all surrounding properties, the continued large-capacity storage of petroleum products, and the excavation of on-Site source materials, groundwater impacts will be addressed through monitoring and passive recovery of NAPL.

NEGC has tentative plans to develop their portion of the Site. It is anticipated that in developing the Site, buildings would be demolished and the former gasholders would be dismantled.

Due to the proximity to construction associated with the re-location of I-195 and the new associated off-ramps, NEGC does not intend to start any development of the Site until road construction is completed.

Based on a preliminary evaluation of risk to human health, continued use of the site is acceptable. NEGC has limited personnel from areas of the Site that exceed surficial soil criteria as an added safety precaution. To support the future development of the property, the gas company will complete a Method 3 risk assessment for human health. NEGC will submit a Method 3 Risk Assessment Work Plan concurrent with the submittal of the RAWP.

Since the Method 3 risk assessment will require limitations on the use and activities of the Site, an environmental land usage restriction ("ELUR") will be required for the Site. An ELUR is a legal document drafted for the purpose of placing a notice of restrictions on the use or physical condition of a property for the protection of human health. In the property chain of title for this Site, the ELUR will require that the capped portions of the property remain in place.

# 1

## Introduction

In September 2000, the Southern Union Company (Southern Union) purchased the Providence Gas Company and changed the name to the New England Gas Company. For ease in reading this report, all references to the former Providence Gas Company and the New England Gas Company will be referred to as "the gas company" or "NEGC".

The gas company notified the Rhode Island Department of Environmental Management (RIDEM) of a historic release at the property located at 642 Allens Avenue in Providence, Rhode Island (the Site) on May 13, 1994. The Site was the location of a former Manufactured Gas Plant (FMGP) that operated from 1910 to 1954. Since that time, Site Investigation (SI) activities were conducted at the Site, currently occupied by NEGC (owner), KeySpan Energy (tenant), and the St. Lawrence Cement Company (tenant). The purpose of this Site Investigation Report (SIR) is to review the findings of previous investigations by others and present the recent findings by Vanasse Hangen Brustlin, Inc. (VHB) and the last round of data collected by Environmental Science Services, Inc. (ESS).

SI activities were initially undertaken at the Site by Resource Control Associates (RCA) in 1994. In 1997, ESS replaced RCA as the environmental consultant investigating the Site on behalf of the gas company. To facilitate expansion of the Liquefied Natural Gas (LNG) facility, ESS, on behalf of the gas company, proposed conducting presumptive remedial activities on portions of the property while agreeing to conduct SI activities on the remaining areas. The proposed remedial activities were presented in a report entitled *Remedial Action Work Plan, Providence Gas Company, Providence, RI*, dated December 4, 1998 (ESS, 1998).

The Remedial Action Work Plan (RAWP) was the result of investigation work conducted by RCA and others prior to 1995. These reports were previously submitted to RIDEM and have been detailed in other correspondence. The RAWP concentrated on the remediation of waste and soil source areas that were discovered during the pre-1995 investigations by others (referred to as the Phase 1 portion of the Site).

While ESS conducted a portion of the remedial work outlined in the RAWP, they concurrently conducted SI activities between November 1999 and October of 2000. The ESS SI activities were conducted in accordance with a scope of work detailed in

the *Site Investigation Work Plan*, prepared by ESS, dated November 1, 1999 and approved on November 8, 1999 by the RIDEM.

VHB replaced ESS as the environmental consultant investigating the Site on behalf of NEGC in May 2001. To reflect changes to the site remedy proposed by NEGC after Southern Union's purchase of the site, an updated Temporary Remedial Action Permit (TRAP) was issued by RIDEM to NEGC on April 17, 2002. A RIDEM order in the TRAP indicated that portions of the Site that were not included in the expansion of the existing LNG facility were not adequately characterized and therefore RIDEM required the submittal of an SIR incorporating the remainder of the Site (referred to as the Phase 2 portion of the Site) within 90 days of completing the Phase 1 RAWP. On November 15, 2002, NEGC requested a 90-day extension from the original January 8, 2003 deadline for submittal of the SIR. RIDEM approved of this request in a letter dated December 3, 2002.

VHB conducted SI activities from September of 2001 through February of 2003 in order to address data gaps left by previous consultants and investigate areas of the Site that were previously inaccessible and to continue on-site groundwater monitoring.

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## Background

The Site consists of the property located at 642 Allens Avenue in Providence, Rhode Island on an approximately 42-acre parcel of land (Figure 1). From 1910 until 1954, the gas company operated an MGP at the Site producing coal gas, carbureted water gas, and, to a limited extent, high-BTU oil gas. The gas company routinely managed gas manufacturing by-products through recovery, storage, recycling, reprocessing, and resale of the by-products. Such by-products included coke, coal tar, ammonia, toluene, and benzene. B.P. Clapp operated an ammonia works at the property beginning in 1910, and managed the recycling and sale of ammonia by-products. The United States Government operated a toluene facility at the Site for a short period of time during 1918.

In 1952, a liquefied petroleum gas distribution plant began operations at the property. By 1954, coal gasification operations at the property had ceased. Various energy companies have leased the eastern and southeastern portions of the property since 1972. The current lease holder is KeySpan Energy. Former lease holders include Algonquin and Duke Energy and for ease in reading this report, this area of the Site will be referred to as the LNG facility. St. Lawrence Cement Company (formerly Independent Cement) has leased the southeastern section of the property since 1961.

Remaining buildings and structures that formerly made up the FMGP include the Building No. 30 Building No. 8, and the Building No. 20. All other principal original buildings were demolished before 1980. Presently, the property includes a NEGC operational center, a LNG storage terminal, a LNG distribution center, a cement storage and distribution facility, and remnants of the FMGP. Refer to Figure 2 for a

current depiction of Site conditions. Current operations at the property principally involve storage, processing, and distribution of LNG and cement. NEGC has offices, natural gas regulating equipment, NEGC service vehicles, excavating equipment (i.e. backhoes) and pipeline excavation spoils storage on the property. Active natural gas supply pipelines also traverse the property. No manufacturing currently occurs at the Site.

The primary materials of interest at FMGP sites are tars, oils, and complex mixtures of different polycyclic aromatic hydrocarbons (PAHs) and lesser amounts of phenolic compounds and volatile organic compounds (VOCs). All of these aromatic compounds are amenable to biodegradation.

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## Site Investigations

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### Previous Investigations

In April 1994, RCA was retained to conduct site characterization activities. A Site Characterization Report was submitted to RIDEM in July, 1994. The Site Characterization Report documented the activities undertaken to identify potential areas of environmental concern by means of a site inspection, historical research, file reviews, and interviews with gas company personnel.

Characterization activities identified that the following raw materials were used at the Site: coal, petroleum, water, salt water, iron oxide, compressor oil, methyl alcohol, ethylene glycol, mercaptan-based odorizer, and natural gas, as well as FMGP by-products.

A work plan for further site characterization activities was prepared by RCA and submitted to RIDEM, on behalf of the gas company, based on the results of the initial site characterization. The work plan, titled *Work Plan for Field Characterization Investigations*, included environmental exploration, monitoring, and analytical testing. In February 1995, RCA issued a data summary report titled *Summary Report: Phase IA Field Characterization Investigations*, which contained the findings of the investigation. According to RCA (1995), "the purpose of the Phase IA Field Characterization was to evaluate the Site for evidence of the potential release of hazardous materials and the impact that such release(s) may present to public health, safety, and the environment. The field activities included a detailed site inspection, geophysical surveys, monitor well construction (a total of 14 monitor wells were completed), soil borings, test pits, ground water elevation monitoring, and sampling of soil, sediment, surface water, and groundwater.

Through the soil boring and test pit activities, RCA observed evidence of petroleum residuals in subsurface soil, predominantly in the northern and eastern portions of

the Site, and subsurface structures and debris. TPH fingerprint analysis identified the petroleum types as a mixture of fuel oil and coal tar. Laboratory analytical results of soil and groundwater indicated the following: polychlorinated biphenyls (PCBs) in soil near Building No. 30; metals around the former Gasholders and the former propane tank area (concentrations ranged from 147 ppm to 9,520 ppm in grab samples and 15,700 ppm to 21,800 ppm in composite samples); dissolved cyanide in groundwater at several wells (concentrations ranged from 0.01 ppm to 5.3 ppm); and petroleum residuals in the north and east portions of the Site. Based on the Phase IA findings, remediation of the PCB handling area of Building No. 30 was initiated and completed. These activities are described in the "Remedial Activities" section of this report.

Later in 1995, RCA completed further site assessment activities on the basis of the Phase IA findings. The results of a preliminary study were presented in a report titled *Passive Soil Gas Survey Pilot Study and Expanded Soil Gas Work Plan* (August 1995). Follow-up investigations were implemented through November 1995, the results of which appeared in the report *Summary Report, Phase IB Field Characterization Investigations* (June, 1996). Based on the Phase IB investigation, RCA concluded the following: buried historic structures that remained at the Site represented a possible source of future release; there was an active release of oil sheen occurring into the Providence River; groundwater exhibited northerly and easterly flow components with tidal influence along the shore line; and the principal impacts detected in the subsurface soil and groundwater includes residuals of coal tar and No. 2 fuel oil and related by-products of coal gasification operations.

RCA (1996) indicated that the highest areas of impact were located in four distinct areas: Area 1; Area 2; Area 3; and areas west of the Building No. 20.

In October 1995, RCA worked with Stone & Webster to complete geotechnical investigations of the central and southern area of the LNG facility and gas company areas. The purpose of these investigations were to assess the suitability of soil types for future development by Algonquin. Monitoring wells were also installed to permit further assessment of groundwater conditions as part of this investigation.

As plans for construction of a vaporizer pad in the southwestern portion of Area 1 became more definitive, additional environmental investigations focused on the proposed construction areas for an expanded LNG facility and were of a time-critical nature.

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## ESS Subsurface Structure Investigation

In September 1998, ESS subcontracted for the installation of test borings in several of the subsurface structures to further characterize the contents of these structures. Although some sampling and analysis of the subsurface structures had been performed by RCA during the Phase IA and IB field activities, a review of the

analytical data revealed to ESS some inconsistencies and/or uninvestigated structures. Former structures further investigated by ESS included former Relief Gas Holder 16, North Filter 14A, Open Separating Tank Structure 18 (Tanks 1 and 2), Open Tar Tank (Structure 19), Tar and Ammonia Structure (Structure 3B), and the Open Cooling Tank (Structure 17). The results of these investigations are described in Appendix A of the December 1998 limited RAWP (ESS, 1998).

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## Remedial Activities

Several remedial actions have been completed at the Site and these activities have been documented in reports submitted to RIDEM. As such, soil data associated with these areas are not included in this report. Groundwater is discussed on a Site-wide basis. Figure 3 depicts the areas of the Site that these remedial activities were completed. Remedial activities conducted after 1998 were completed with consideration to the RIDEM-approved RAWP (ESS, 1998). The following documents detail these activities:

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### Condensate Tank Closure Status Report and Remedial Action Plan for Compressor Building No. 2, Prepared by RCA, February 28, 1995

Bldg #30

Building No.30 is located on the south-central portion of the Site, north of the LNG facility, east of the former gasholders, west of Structure 3B, and southeast of Building No. 8. Condensation from the gas handling systems, which contain small amounts of compressor oil were collected and stored in two 10,000-gallon concrete underground storage tanks (USTs). The Phase IA site investigations previously performed by RCA indicated that these USTs collectively contained approximately 4,600 gallons of condensate and oil, which contained up to 280 ppm of PCBs. RCA documented the remedial activities related to the condensate UST closure in the above-referenced reports in 1995.

The completed remedial activities included the closure of two 10,000-gallon USTs formerly used for the accumulation of PCB-impacted oil and water, and limited soil excavation, in compliance with RIDEM-approved closure plans. Soils containing PCBs in excess of 50 ppm were removed from the UST area under Building No. 30, and soils containing PCB concentrations greater than 25 ppm were removed from the vicinity of the exterior remote fill pipes. A total of 25 tons of PCB-impacted soil and debris were shipped for off-Site disposal at Chemical Waste Management facility in Model City, NY.



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**Remedial Action Report for Short Term Measure  
Performed at the Providence Gas Company, Prepared by  
RCA, June 14, 1996**

RCA conducted a short term remedial action in Area 3 on April 12 through April 14, 1996. The report detailing these activities was included as Appendix B in the *Phase IB Field Characterization Report* (RCA, 1996). A ten-inch diameter pipe was exposed at the northeast corner of the Site proximate to Structure No. 17 during implementation of a test pit program in February and March, 1996. It appeared that the pipe may have been acting as a preferential pathway for the release of oil to the Providence River. As such, the most appropriate action appeared to be removal of the pipe, where accessible, and sealing the remainder of the pipe with concrete slurry.

Approximately 85 feet of a 10-inch diameter steel pipe was removed from a point where it entered Structure No. 17, south along Structure No. 18 to where it was ultimately sealed with a concrete slurry proximate to a gas line located under the northern access road. During excavations along Structure No. 18, a second 10-inch diameter pipe was discovered that was also oriented in a north to south direction. Sections of this pipe were also removed with the remaining sections sealed with a concrete slurry.

The trenches that were excavated during the pipe removal were backfilled with what was suspected to be impacted fill placed in the excavation first and cleaner fill being placed to grade.

It should be noted that the soil and piping was later removed during the remedial activities conducted by Clean Harbors Environmental Services, Inc. (CHES) and VHB during the summer of 2002.

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**Subsurface Investigation and Proposed Remediation,  
Algonquin Generator Construction Area, Prepared by  
ESS, October 21, 1999**

In preparation for a proposed generator construction project at the LNG facility, ESS conducted a subsurface investigation in July 1999 and subsequent remedial actions in August 1999. A 30-foot square grid approximately 330 feet long by 150 feet wide was established north of the storage building and south of the dike, resulting in the completion of 57 borings with 12 borings completed with temporary groundwater sampling points.

Based on laboratory analysis of the soil samples, a RIDEM-approved remedy was implemented. Surficial soil excavations were conducted to excavate 1 foot of impacted soil (excavated soil was stockpiled on the Material Handling Area (MHA)) in areas that were not proposed to receive 2 feet of fill, backfill with clean material,

and paved with two, 4-inch lifts of asphalt. The remaining areas were not excavated, but were encapsulated with 2 feet of clean fill.

During this remedial work, an ethylene glycol spill occurred at the West Compressor Area on August 25, 1999. Notification was made to RIDEM on August 26, 1999. Approximately 40 cubic yards of soil was excavated, the area was backfilled and the excavated soil was reportedly disposed of properly.

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**Remedial Action Closure Report, Former Manufactured Gas Plant, 642 Allens Avenue – Area 1, Prepared by VHB, December 31, 2002**

ESS supervised remedial actions at the FMGP beginning in June 1999. The remedial activities were conducted to address a portion (Area 1) of the Site. These activities were of a time-critical nature due to the proposed construction of a vaporizer pad in the southwestern portion of Area 1 adjacent to the containment dike. To construct the pad, surface soil had to be excavated and subsurface piping which traversed the area had to be removed.

During the Area 1 remedial action subsurface soil was excavated and disposed. The excavations were guided by test pit and soil boring data from previously completed RCA investigations. Remedial soil excavations were also conducted within the Area 1 containment dike and consisted of surface and subsurface soil removal that were also guided by previous Site investigation results. All FMGP remnant piping was either removed or sealed with hydraulic cement.

Recovery wells and groundwater flow barriers were installed to aid in the recovery of light non-aqueous phase liquid (LNAPL) from the groundwater surface in areas of subsurface soil excavations. Areas that were excavated were capped with approximately 2 feet of clean fill or were covered by structures (vaporizer pad). Figure 3 depicts areas of the Site that have undergone remediation.

Additional remedial activities consisted of the excavation of some of the contents of Structure 3B and the excavation of the surface soil in Area 3. Approximately 50,800 gallons of coal tar was excavated from Structure 3B and shipped to the Norlite Corporation facility in Cohoes, NY for disposal.

A total of approximately 8,746 tons of FMGP-impacted material was excavated, transported and disposed of during remedial activities. Approximately 722 tons was classified as hazardous and approximately 8,024 tons was classified as non-hazardous. According to correspondence from ESS to RIDEM, dated July 19, 2000, surface soil that did not meet the criteria for backfill and subsurface soil that was not classified as hazardous was shipped to Environmental Soil Management, Inc. (ESMI) in Loudon, NH.

Hazardous waste soils were transported to Horizon Environmental Landfill in Grande-Piles, Quebec, Canada. The requirements for the export of hazardous waste, including the Notification of Export to the United States Environmental Protection Agency (USEPA), were met according to a letter dated July 24, 2000 from the USEPA (EPA Notice No. 435/00).

In addition, approximately 9,782 gallons of water and LNAPL was pumped from excavations utilizing vacuum trucks from Cyn Environmental Services. The water and LNAPL was disposed of at Cyn Environmental Service's Stoughton, MA recycling facility.

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### Remediation of the New Regulator Area, Prepared by ESS, January 11, 2001

In 1999, during the remedial activities approved by RIDEM in the 1998 RAWP, the gas company planned to construct natural gas related equipment and piping in the area designated as the New Regulator Area. The New Regulator Area is located north of Building No. 8 and contains various sizes of natural gas pipes both below and above ground. The equipment upgrade design included excavating trenches for new in-ground piping as well as three concrete slabs.

Prior to construction, ESS submitted a letter to RIDEM dated November 1, 1999 that presented an Investigation Scope of Work for the New Regulator Area and two additional areas of the Site. The proposal consisted of dividing the construction area into a 30-foot square grid to establish a sampling grid. Soil samples were collected from clear acetate liners at each approximate node location on the grid using GeoProbe sampling equipment. Borings were advanced to the groundwater interface which was estimated to be approximately 8 feet below surface grade (BSG). Based on the boring logs from this area, groundwater was generally encountered at approximately 5 feet BSG.

On December 20, 1999, the gas company submitted a letter to RIDEM seeking approval to start remedial activities in the New Regulator Area. According to the letter, the New Regulator Area was approximately defined by borings D01 through D15. Laboratory analytical results of surficial soil (0-2 feet BSG) samples collected from this area indicated arsenic, lead, and benzo (a) pyrene concentrations that exceeded the 1998 RAWP surficial soil remedial objectives in soil borings D03, D04, D07, D08, D10, D13, D14, and D15. There were no compounds detected in the subsurface soil samples that exceeded the RAWP subsurface soil remedial objectives.

To remediate the area prior to construction, the gas company proposed excavating all of the surface and subsurface soil to the groundwater interface in the area that the construction was taking place. Since there were a large number of subsurface utility pipes in the area, the gas company proposed leaving the soil in place below the piping so that the integrity of the piping could be maintained. Since remedial soil

excavations were already being conducted on other areas of the Site under the 1998 RAWP, excavated soils from the New Regulator Area were proposed to be managed in the MHA in the same manner. The excavation was proposed to be backfilled with clean fill and any areas that did not receive two feet of fill were covered with two 2-inch lifts of asphalt.

The work plan for this area was approved by RIDEM OWM in a letter to the gas company dated March 16, 2000. Additionally, RIDEM Office of Air Resources (OAR) was notified of the proposed remediation and no permits were required based on correspondence dated February 14, 2000 from OAR to ESS. Soils from the excavation were staged in the MHA for future disposal with other non-hazardous waste soils. Additionally, any inactive piping larger than 2 inches uncovered during excavations activities was removed and properly disposed in accordance with the RAWP.

During the excavation activities, a small natural gas pipeline sump that formerly collected condensate was uncovered. This sump was located below the grade of the excavation and contained a small amount of water. RIDEM was consulted and the decision to remove the sump without further investigation was approved.

A red layer of soil was observed within the western facing edge of the excavation. The layer was approximately 4 to 6 inches thick and 18-20 inches below the ground surface. The soil was observed to be mixed with wood and debris. Analysis of this soil revealed constituents consistent with other areas of the Site. Verification sampling was performed within the entire excavation at 15 foot intervals along the bottom and sidewalls in accordance with the RAWP requirements. Presumably the verification sampling did not exceed remedial objectives because, according to ESS (2001), the excavation was backfilled with clean fill in preparation for the new equipment installation. A total of 1,200 cubic yards of soil was removed.

↑  
3 feet deep

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**Former Compressor Building No. 2 PCB Remediation,  
Letter Report, April 13, 2001**

On August 1 and 2, 2000, CHES hand excavated the area under the supervision of gas company personnel due to the presence of active natural gas distribution lines. The horizontal extent of the excavation was the asphalt road to the north, concrete sidewalk to the east, and estimated locations of unaffected soil to the west and south. The vertical extent of the excavation was the top of the groundwater table. According to CHES work order slips, approximately 17 cubic yards of soil was excavated.

On August 3, 2000, ESS personnel collected confirmatory samples from the sidewalls and bottom of the excavation. According to the gas company, after the laboratory

analytical results were reported, it was realized that additional samples needed to be collected to determine an upper confidence limit. ESS collected these additional bottom samples on August 23, 2000. Based on the results of confirmatory bottom samples, additional soil excavations were completed by CHES in two adjacent grids. Soil was removed approximately one foot into the groundwater table. Approximately, an additional 17 cubic yards of soil was removed and additional samples were collected from the bottom of the excavation.

The excavated soil was loaded onto three licensed vehicles on September 14, 2000 and transported to the licensed Chemical Waste Management facility in Model City, New York on Hazardous Waste manifests NYB7886376, NYB7886385, and NYB7886403. The excavation was backfilled with soil in compliance with the remedial objectives approved in the RAWP.

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**Remedial Action Closure Report, Former Manufactured Gas Plant, Prepared by VHB, November 15, 2002**

VHB supervised remedial actions at a portion of a FMGP from May 2002 to October 2002, pursuant to the RIDEM TRAP issued by the RIDEM Office of Waste Management on April 17, 2002.

CHES of Weymouth, MA was the contractor providing the remediation/construction services and ENSR International (ENSR) of Westford, MA provided independent oversight services on behalf of NEGC. The scope of work for this remedial action consisted of excavating FMGP waste and impacted soils, performing waste stabilization and transportation of materials to an appropriate RIDEM-approved out-of-state facility for treatment/disposal. The areas of waste removal included six locations and are identified as the:

- Structure 3B;
- Structures No. 14A and 14B;
- Structure No. 17;
- Structure No. 18;
- Structure No. 19; and
- Seep area along the north shore of the property adjacent to the riverbank.

Remedial soil excavations beyond the scope of the RAWP were conducted in Area 2 and Area 3, guided by analytical data from soil samples collected from borings completed by ESS that penetrated Structure 29.

The contents of the above-referenced structures generally consisted of coal tar sludges that were stabilized within each structure using a combination of soil, hydrated lime, and/or absorbent material. Once stabilized, the material was direct-

loaded, when feasible, for transport to one of three RIDEM-approved treatment/disposal facilities.

Impacted soils were also excavated from the area surrounding the structures and were either transported for treatment/disposal, used to stabilize structure contents prior to direct loading, used as backfill if the corresponding remedial objectives were not exceeded, or stored on the on-Site MHA for use as subsurface backfill during future phases of the project. Subsequent to excavation activities, confirmatory soil samples were collected from excavation sidewalls and from the excavation floor (if the excavation did not extend into the ground water table) and compared to the 1998 RAWP Remedial Objectives to determine compliance.

Historic observations of sheening in the Providence River created concerns that there may be a "Seep Area" from the northern portion of the Site (Area 3). The natural gas pipeline located under the northern access road was shut down and a section removed to facilitate excavations within the Seep Area. Upon completion of the remediation excavation, the natural gas pipeline was replaced with new pipe and put back into service. FMGP-impacted soil in this area was excavated and removed. Piping observed in this area was removed when possible and sealed with hydraulic cement if it was not possible to remove it.

A total of approximately 16,864 tons of FMGP-impacted material was excavated, transported and treated/disposed of during remedial activities. Approximately 9,558 tons was classified as hazardous and approximately 7,307 tons was classified as non-hazardous. The FMGP-impacted material was shipped to three facilities: Keystone Sanitary Landfill (Keystone) in Dunmore, PA; Environmental Soil Management, Inc. (ESMI) in Loudon, NH; and Chemical Waste Management, Inc. (WM Emelle) in Emelle, AL.

Soil excavations and excavated structures were backfilled with soil meeting the 1998 RAWP (ESS, 1998) subsurface remedial objectives and were capped with 2 feet of soil meeting the surface soil remedial objectives. Area 2 was capped with approximately 18 inches of fill and approximately 6 inches of loam with a hydroseed application. Area 3 was capped with approximately 18 inches of fill and approximately 6 inches of crushed stone. Following these remedial activities, portions of the MHA were dismantled. The soils underlying the MHA were not characterized and to reduce the likelihood of entrainment of soils by wind, an approximately 6 inch layer of clean loam was applied to the area with a subsequent application of hydroseed.

## Site Description

This section provides a summary of current conditions at the Site including topography, soils, geology, and water resources. Some of this information has been obtained from field investigations and reports prepared by RCA and others as referenced herein.

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### Property Location and General Description

The Site is located on the east side of Allens Avenue, northeast of the intersection of Allens Avenue and Terminal Road in the City of Providence, Rhode Island (Figure 1). The property is identified in the City of Providence Tax Assessor's Office as Plat 56, Lots 5, 273, 316, and 317, and as Plat 101, Lot 1. The property is centered at approximately 41° 47' 42" north latitude and 71° 23' 35" west longitude. Universal Transverse Mercator (UTM) coordinates of the approximate center of the property are 4,629,800 meters north and 300,910 meters east.

The Site is bound to the west by Allens Avenue, to the east by the Providence River, to the northwest by the Motiva/Texaco property, to the northeast by a water lot owned by Motiva, to the southwest by Terminal Road, and to the southeast by the UNIVAR property, the City of Providence ProvPort property, and the New England Bituminous Terminal Corporation property. All surrounding properties are industrial in nature and either historically or currently store petroleum and/or hazardous materials.

The Site is comprised of three principal areas and associated operations:

- NEGC's 642 Allens Avenue facility;
- The LNG facility operated by KeySpan Energy; and
- The St. Lawrence Cement Company (formerly Independent Cement).

The NEGC FMGP occupied portions of all three of the locations described above. The main entrance to the property is on Allens Avenue, on the west side of the property. There are also gated entrances to the LNG facility and St. Lawrence Cement Company facilities off of Terminal Road.

Approximately 50 people (10 people working in the Control Building and approximately 40 people that report to the facility and work off-Site in company vehicles) report to the NEGCE facility. Approximately 5 people work at the St. Lawrence Cement Company facility. As KeySpan Energy operates as a secure facility, they do not reveal internal operational information.

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## Existing FMGP Structures and Buildings

As previously indicated, many of the above ground structures and buildings were demolished before 1980. The remaining original MGP buildings, above ground structures, and the subsurface structures that have been identified during investigations are described below.

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### Above Ground Buildings and Structures

Several of the original MGP buildings and structures remain intact. These buildings and structures include:

- Building No. 30;
- Building No. 8;
- Building No. 20; and
- Former Gasholders 18 and 21.

According to RCA (1994), major construction for the coal gasification plant at the Site began during 1909 and 1910. Based on a review of photographs provided by NEGCE, construction of Building No. 30 began in 1909 and appeared to be complete by 1910. The photographs depicted purifiers within the building, which were presumably used prior to construction of former Structure No. 6. The building was renovated into the Compressor Building No. 2 in 1977.

Construction of Building No. 8 was also completed in 1910 (RCA, 1994). Following the removal of hydrogen sulfide and other by products in the purifiers, the gas was passed through Building No. 8 prior to storage in the gasholders.

Building No. 20 was constructed between 1918 and 1926. Other than the approximate construction dates of the building, there was no information available regarding the processes that took place within the building. Renovation of Building No. 20 to the High-Pressure Vaporizer Propane facility took place in 1978.

Former Gasholder 18 was constructed in 1911 (RCA, 1994) and Gasholder 21 was constructed in 1942, according to NEGCE personnel. From Building No. 8, gas was sent to the gasholders for storage and from there to the distribution system for consumers. Reportedly, former Gasholder 18 had a storage capacity of



approximately 6,000,000 cubic feet and former Gasholder 21 less than 6,000,000 cubic feet.

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## Subsurface Structures

Several FMGP subsurface structures (each formerly having subsurface remnants) were identified during the site investigations conducted by RCA. The FMGP structures represent areas where some form of coal gas processing occurred and represent former potential NAPL source areas. These structures include, but are not limited to:

- Structure 3B;
- Structures 14A and 14B;
- Structure 17;
- Structure 18;
- Structure 19; and
- former Structure No. 6.

These structures (with the exception of former Structure No. 6) were used for the separation of light and heavy oils and tars and were the subject of remedial activities conducted from May to November, 2002 (previously described in Section 1, Remedial Activities).

Former Structure No. 6 is located on the south central portion of the Site and was constructed between 1926 and 1937. During gas production activities, the gas stream would pass through former Structure No. 6 to remove residuals, including hydrogen sulfides and coal tar. Structure No. 6 consisted of iron oxide shavings and a carbon source (typically wood chips) and could be regenerated periodically by exposing the iron oxide shavings to air.

During SI activities, several borings were approximately located within the mapped locations of former Structure No. 6. Several of these borings experienced refusal at approximately 4-6 feet BSG with what appeared to be concrete. Borings that were approximated to be located outside the Purifier structures generally did not experience refusal. Based on these observations and the laboratory analytical results (discussed in more detail in Section 5 of this report) from samples collected from these borings, it appears that the purifier structures may be intact in the subsurface and may contain FMGP-impacted materials.

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## Environmental Setting

The Site is located along the western portion of the Providence River in Providence, Rhode Island.

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## Regional Setting/Topography

The Site features a relatively level topography, with marked slopes at the northern and eastern boundaries along the Providence River (the river). The regional topography slopes east towards the river. The topographic elevation of the Site ranges from sea level to approximately 15 feet above mean sea level (msl). Site plans depict a benchmark elevation of 11.20 feet "City Base" on a telephone pole in the northeast corner of the property. According to the Providence City Engineer's Office, "City Base" refers to the datum used on some of the city's plans and reflects an elevation 2.35 feet higher than msl elevations (Providence City Engineer, November 1998). Generally, the topography of the property is level, with a gentle slope towards the river. The Site is entirely enclosed and secured by chain-link fencing and barbed wire.

Land uses in the Site vicinity are principally industrial and maritime in nature. According to the City of Providence Zoning Map, the property is zoned W3, Waterfront: Port/Maritime Industrial District. According to the Providence Zoning Ordinance, dated June 27, 1994, "This zone is intended to promote the Port of Providence and related maritime industrial and commercial uses within the areas of Providence's waterfront; to protect the waterfront as a resource for water-dependent industrial uses; and to facilitate the renewed use of a vital waterfront."

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## Soils

According to the *Soil Survey of Rhode Island* (Rector, 1981) soils are mapped as Udorthents-Urban land complex (UD) throughout the Site and surrounding areas. UD soil map units are moderately well drained to excessively drained soils that have been disturbed by cutting or filling, and areas that are covered by buildings and pavement.

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## Surficial and Bedrock Geology

Land along the waterfront north and south of the Site consists largely of urban fill; areas to the west are primarily glacial outwash deposits. Fill materials may be up to 15 feet in thickness. The fill includes mixtures of coarse-to-fine sands, olive-green fine sandy soil, with brick, coke, and slag. The stratigraphy is generally characterized by urban fill successively underlain by organic deposits, glacial outwash deposits, glacial lake deposits, a second layer of outwash, and glacial till. The till is a very dense, heterogeneous, and poorly-sorted deposit. The organic silt, which occurs at depths ranging from 16.5 to 19 feet below surface grade, is presumed to be an original tidal mud deposit.

Bedrock outcrops do not appear within 1/4-mile of the Site. The depth to bedrock in the vicinity of the Site is typically more than 100 feet below grade. Bedrock underlying the Site is a member of the Rhode Island Formation that consists of greenish gray, dark gray, to black greywacke, conglomerate, sandstone, shale, and meta-anthracite coal.

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## Water Resources

The Site is situated on Sassafras Point, adjacent to the Providence River. A water lot owned by Motiva forms the northern boundary of the Site. The Providence River has been designated by the Coastal Resource Management Council (CRMC) as Type 6 waters, defined as industrial waterfronts and commercial navigation channels. The RIDEM Office of Water Resources has designated the waters north and east of the Site as Use Class SC waters. Class SC waters are designated for secondary contact recreational activities; and fish and wildlife habitat. Class SC waters shall be suitable for aquacultural uses, navigation, and industrial cooling, and these waters have good aesthetic value.

The Providence River is currently listed by the RIDEM Office of Water Resources on the *Draft State of Rhode Island 2002 303(d) List of Impaired Waters*, dated December 2, 2002. The 2002 303(d) list identifies water bodies within the state, which may not currently meet Rhode Island Water Quality Standards and a Total Maximum Daily Load (TMDL) may be needed. TMDLs are water quality restoration plans that identify water quality goals, necessary pollutant reductions, sources, and implementation plans to achieve the required reductions. RIDEM identifies the segment of the Providence River adjacent to the Site as Water Body ID RI0007020E-01B and lists the impairments as low dissolved oxygen (DO) concentrations, nutrients, metals, and pathogens.

The river, which is tidally influenced, fluctuates approximately 4.5 feet between the mean low water level and the mean high water level near the Site. This tidal influence affects groundwater elevations to varying degrees, depending on the location within the Site. Pronounced, cyclical tidal fluctuations of approximately 0.5 to 1.25 feet were observed by RCA at monitoring wells located adjacent to the river. Significantly smaller, but discernible tidal influences of approximately 0.13 feet were observed by RCA at monitoring well locations approximately 300 to 500 feet away from the shoreline. Minimal tidal influences of approximately 0.07 feet (less than one inch) were observed at monitoring well locations greater than 500 feet from the shoreline (RCA, 1995). Tidal measurements obtained by RCA are presented in Appendix G of the December 1998 limited RAWP (ESS, 1998).

According to the RIDEM Geo-Spatial Viewer, Community Planning Map, groundwater underlying the Site is classified as GB. Groundwater classified as GB refer to those groundwater resources which the Director has designated as not suitable for public or private drinking water use. It is approximately 1.75 miles to the

nearest GA designated area, located east of the Site in East Providence, RI, on the opposite side of Narragansett Bay. In the West Bay area, the nearest GA designated area is approximately 3.3 miles to the west, on the Providence/Johnston border. The Site and surrounding area is supplied with municipal drinking water. There are no public drinking water supplies within a one-mile radius of the Site.

Regional groundwater flow in the vicinity of the Site is generally eastward, toward the river. Horizontal groundwater flow at the Site is generally northeastward, toward the river's west bank, and north toward the water lot on the north side of the Site. A groundwater contour map, developed by RCA (1996), is attached in Appendix B. Horizontal hydraulic gradients vary with location and time. Steeper hydraulic gradients are apparent in the northwestern portion of the Site, as compared to the eastern portion. Hydraulic gradients generally range from 0.02 to 0.002 feet/foot (RCA, 1996). Groundwater discharges to the river at the shore, north and east of the Site, and within the channel of the river.

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## Current and Past Use of the Site and Adjoining Properties

Historical aerial photographs available from the Rhode Island Geographic Information System (RIGIS) were reviewed to investigate historical conditions at the Site. VHB reviewed photographs from 1939, 1951, 1962, 1972, 1981, and 1995. Information obtained from these photographs is summarized below. Refer to Appendix C for the aerial photographs of the Site.

### 1939 Aerial Photograph

This image was very dark. The MGP appears to be in full operation at this time and piles of coal are stored on the north-central portion of the Site where the MHA and stockpiles of aggregate material are currently stored. It appears that all former buildings are existent but that former Gasholder 21 has not been constructed yet. There are two large-capacity above-ground storage tanks (ASTs) located south of the Site, approximately southeast of the LNG facility gas control building. The property to the north has approximately 8 large-capacity ASTs proximate to the water lot. There appears to be approximately 18 large-capacity ASTs located opposite Allens Avenue, west of the subject Site.

### 1951 Aerial Photograph

This image is also very dark. The Site appears to be the same except that former Gasholder 21 has been constructed. Two additional large-capacity ASTs are shown south of former Gasholders 18 and 21, on the opposite side of Terminal Road. There appears to be 22 large-capacity ASTs shown opposite Allens Avenue, west of the Site.

### 1962 Aerial Photograph

There is no longer any coal visibly stored on-Site. The two large-capacity ASTs located southeast of the LNG facility control building are no longer shown to exist. The Gulf kerosene storage tank (Structure No. 15) is shown on the eastern portion of the Site. There are 4 large-capacity ASTs located on the portion of the Site formerly leased to Gulf Oil (Structure 26). Reportedly, 2 of the tanks were used for the storage of coal tar, while 2 tanks were used for the storage of an unspecified oil. The cement silos are shown at the cement facility and south of the silos are 5 large-capacity ASTs. There are 24 large-capacity ASTs shown opposite Allens Avenue, west of the Site. There are several approximately 30,000-gallon liquefied propane gas tanks shown in the area of the former portions of the MHA. The peninsula on the north-central abutting property in the water lot is shown and was constructed sometime between 1951 and 1962.

### 1972 Aerial Photograph

The Water Gas Purifier House (Structure No. 5) is no longer depicted. The Retort House/Producer Gas Plant (Structure No. 10) is not shown. The Gulf kerosene tank is no longer shown, and it appears that construction of the LNG tank on the northeast corner of the Site has begun. The Bagging Shed (Structure No. 36) is no longer shown. The two tar and two oil tanks (Structure No. 26) are no longer shown.

### 1981 Aerial Photograph

Excepting the High-Pressure Vaporizer Propane Building (former Washer and Tar House) (Structure No. 20), none of the buildings or structures in Area 3 are shown. The LNG tank, containment dikes and the LNG facility gas control building have been built. The NEGC gas control building has been built and Structure No. 29 is no longer shown. There appears to be only five large-capacity ASTs located on the Texaco property, north of the subject Site. There are 22 large-capacity ASTs located opposite Allens Avenue, west of the Site.

### 1995 Aerial Photograph

The LNG facility offload area, the CNG fueling area, and the cement dome have been developed. The horizontal propane storage tanks have been removed from the central portion of the Site. There are no large-capacity ASTs located on the Motiva property, north of the Site. There are 16 large-capacity ASTs located opposite Allens Avenue, west of the subject Site.

## Records Review

A review of federal and state environmental databases and state and local records was conducted to help identify properties in the vicinity of the Site that have had a release or threat of release of oil and/or hazardous materials and may impact the environmental quality of the Site. VHB reviewed the following databases at the ASTM specified radii:

- National Priorities List (NPL); 1 mile - A database operated by the United States Environmental Protection Agency (USEPA) as an inventory of hazardous materials disposal sites that have been reported to the Federal government and been determined to be a priority for a Federally overseen cleanup.
- Resource Conservation and Recovery Act (RCRA) Transportation, Storage Disposal Facility (TSD); 1 mile - A database operated by the USEPA as an inventory of hazardous waste treatment, storage and disposal facilities.
- RCRA Generators (GEN); 0.25 mile - A database operated by the USEPA as an inventory of hazardous waste generators who store hazardous waste on their properties for periods not to exceed 90 days.
- RCRA Corrective Action Sites (COR); 1 mile - A database operated by the USEPA as an inventory of hazardous waste treatment, storage and disposal facilities requiring a Federally overseen cleanup.
- RCRA No Longer Regulated (NLR); 0.25 mile - A database operated by the USEPA as an inventory of former hazardous waste generators.
- Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) Sites; 0.5 mile - A database operated by the USEPA as an inventory of potential hazardous materials sites that have been reported to the Federal government.
- Emergency Response Notification System (ERNS); 0.25 mile - A database operated by the USEPA as an inventory of hazardous materials or chemical spills.

- Facility Index System (FINDS); 0.25 mile - A database operated by the USEPA as an inventory of environmental permitted facilities (air, water, and hazardous materials).
- State Spills List (SPILLS); 0.25 mile - A database operated by the Rhode Island Department of Environmental Management of spills of hazardous materials and/or chemical. VHB reviewed SPILLS databases for the last 5 years.
- State Sites (STATE); 1 mile - A database operated by the Rhode Island Department of Environmental Management of properties regulated by the Rhode Island Remediation Regulations (hazardous materials and chemical sites).
- Underground Storage Tanks (UST); 0.25 mile - A database of underground storage tank facilities.
- Leaking USTs (LUST); 0.50 mile - A database of known leaking underground storage tank facilities.
- Solid Waste Landfills (SWL); 0.5 mile - A database of active and closed solid waste landfills.

The Site was identified in the database as a registered UST property, a SPILLS Site, an ERNS Site, a RCRA Generator, and a State Site. A summary of the database search information and maps indicating the locations of specific properties is attached in Appendix D. Based on the findings of the database review, VHB determined that a review of selected files at RIDEM was necessary. VHB also consulted records maintained at the Providence City Hall. Significant sites are described in the following sub-section.

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### **Gas Company/ 642 Allens Avenue**

The subject Site was identified in the database as a small quantity (100-1,000 Kg/month of hazardous waste) RCRA generator with an USEPA Identification No. RID007918774. According to the database, there have been three unspecified RCRA violations against the former Providence Gas Company determined by the State. There was no information regarding the nature of these violations. These violations were determined on January 19, 1990, January 24, 1990, and March 5, 1990, but were each resolved on May 1, 1990, April 5, 1990, and May 1, 1990, respectively.

The ERNS designation appears to refer to one of the spill incidents that occurred on March 24, 1998. The United States Coast Guard and RIDEM identified two pipes protruding from the riverbank of the gas company property during an investigation of an abutting property. While tracing a sheen along the shoreline, one of the pipes

was reportedly observed to be discharging oil and water. This 1998 Site visit is documented in RIDEM's Office of Compliance and Inspection (OCI) Response Report Form (Report No. 98-133). These pipes were removed during the remedial activities conducted during the summer of 2002 and was documented in a letter to RIDEM's OCI on August 19, 2002.

There have been several other minor spill incidents reported on the Site and information regarding these was provided from a combination of RIDEM and NEGC records. A spill incident that occurred on April 10, 1998 is described in a RIDEM OCI Response Report Form (Report No. 98-186). The spill reportedly involved the release of approximately 30 gallons of PCB impacted oil inside a secondary containment area. The release occurred when a valve that drains condensate and oil from a gas line was mistakenly left open. The containment area was subsequently cleaned and laboratory analytical results of PCB wipe samples indicated that target clean up levels were achieved.

A spill occurred on July 22, 1998 when a truck ran over a drip located on the intermediate line south of the South Line Meter House. Reportedly, less than a gallon of oil was released to the soil, which was excavated and placed in a 55-gallon drum. The construction and maintenance crew replaced the drip and service that day.

A release of an ethylene glycol and water mixture occurred on December 13, 1999 during investigatory drilling which was overseen by ESS. According to the release notification, the vibration of drilling equipment loosened a radiator drain plug causing the release of approximately three quarts of the mixture to a one-foot by one-foot area. Approximately 10 gallons of soil was removed and disposed of with material from an on-going remediation project being conducted at the Site.

Another release of ethylene glycol and water mixture was reported on the Site at the LNG facility on December 21, 1999. The release occurred near the southeast corner of the LNG facility compressor building when a hose split during the filling of equipment. Approximately 5 gallons of the mixture was released to a 15-foot by 20-foot area. The free liquids were drummed and approximately 6 cubic yards of soil was stockpiled on plastic sheeting. The liquid and soil was reportedly disposed of as a solid waste.

A diesel oil release occurred on November 14, 2000 during remedial actions being overseen by ESS when a portable air compressor experienced a fuel delivery system malfunction. This spill incident is documented in an OCI Response Report Form (Report No. 12149). Approximately 150 gallons was spilled to a 30-foot by 20-foot area. Response actions consisted of the excavation of approximately 60 cubic yards of soil that was reportedly disposed of with material generated from the remediation project. According to the RIDEM Response Report Form, the response actions were completed.



On November 2, 2001, a release of compressor oil occurred at the CNG Compressor Area, located along the frontage of Allens Avenue. According to the Release Notification Form, a few gallons of compressor oil leaked from the compressor, which is housed in a building with a concrete floor. The oil leaked from the building onto the outside area that has a crushed stone finish. The surfaces were cleaned and the impacted crushed stone was removed.

On Tuesday, August 6, 2002 and during the remedial actions conducted during that summer, an approximately 3-inch hose fell out of a fractionation (frac) tank that serves as a feeder tank to the on-Site wastewater treatment system. The wastewater was generated as part of construction dewatering activities associated with backfilling a subsurface excavation. It was estimated that approximately 50 gallons of FMGP-impacted water was released to an asphalted area adjacent to the frac tank. RIDEM's Office of Compliance and Inspection was contacted on Tuesday, August 6, 2002 at approximately 12:30 pm to report the spill incident to Mr. John Leo. Based on the conversation, Mr. Leo appeared to be familiar with the Site and after hearing the details of the spill and the anticipated response actions, indicated that a summary letter detailing the spill and response actions taken would be sufficient. CHES contained and absorbed the spilled water with dry soil, the soil was collected using a broom and shovel, and was placed with temporarily stockpiled soil for disposal.

According to the database, the subject Site had 5 registered USTs (registration No. 01252) that varied in volume from 2,000 to 10,000 gallons. Three USTs that were installed in 1974 and varied in volume from 2,000 to 4,000 gallons were removed and two 10,000-gallon USTs were reportedly filled in-place. The USTs were used to store unleaded regular gasoline and an unspecified diesel.

The subject Site is also listed in the database as a State site due to the RCA-documented impacts from the historic operation of the FMGP.

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## Former Texaco/Star Enterprise/Motiva/540 Allens Avenue

The Motiva/Former Texaco(Motiva) property abuts the NEGC property to the north and to the west and share a common 1,000 foot property line and is inferred to be hydraulically upgradient and cross-gradient of the Site. Motiva has been identified in the database as a RCRA generator, a registered UST property, a SPILLS site, and a LUST site. The Motiva property served as a lubricating oil blending, asphalt facility and petroleum distribution facility since at least 1907. Crude oil was also made into liquid or solid asphalt products on a portion of the property. The lube oil blending facility and asphalt facility were decommissioned in the 1960's and dismantled in the 1970's. Previous reports indicate that twenty-six ASTs are currently used to store unleaded gasoline, aviation gasoline, and middle distillates. Documented releases include the following: 1989-release of 200 gallons of hydrocarbons from an AST, 1990-Release from transport vessel, 1991-release of lube oil from underground lines,

1992-release of 40 gallons of fuel oil, 1993-release of 25 gallons of hydrocarbons, 6/94-release of hydrocarbons from AST, 12/94-release of 150 to 200 gallons inside AST dike. Corrective actions were performed for all releases, with the exception of the 1992, 1993 and 12/94 release, where no information is provided.

In November 1994, six USTs were removed from the property. These USTs previously contained gasoline, waste oil, and diesel and ranged in size from 550 to 8,000 gallons. A release to soil was evident and consequently, 615 tons of soil was removed and properly disposed. Separate phase hydrocarbons were not observed on the groundwater table. Based on headspace readings and confirmatory soil samples collected, Groundwater and Environmental Services, Inc. did not recommend any further remedial action with respect to the USTs.

According to the RIDEM correspondence dated April 25, 1996, RIDEM indicated that the LUST program of RIDEM is not requiring any further investigation, however, the Motiva property was proposed to be turned over to the State Cleanup and Remedial Action Program which will require an area-wide investigation. Information pertaining to this investigation was not available during our records research or it does not exist.

A November 8, 1995 report by Handex indicated that 37 groundwater monitoring wells exist on the property and are gauged on a monthly basis. Separate phase product has been gauged at the Motiva facility on an intermittent basis in four monitoring wells (MW-10, MW-11, MW-14, and MW-29). Two of the wells (MW-14 and MW-29) are located on the opposite side of Allens Avenue. MW-11 is located along the southern property line between the Motiva site and the NEGC site, just north of RCA-2. A monitoring report dated January 21, 2002 submitted by Motiva to RIDEM indicated 0.04 feet of NAPL in MW-11 that was described as heavy asphalt. Reportedly, this area of the Motiva property was formerly used as an asphalt facility.

Given the historic releases at the site, the continued storage of large quantities of fuels, and the proximity to the subject Site, this site may pose an environmental concern to the NEGC Site.

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## Providence Terminal Associates/Former CITGO

The Providence Terminal Associates/Former CITGO (PTA) facility abuts the Site to the south. The PTA facility shares approximately 600 foot common property boundary with the Site and is inferred to be hydraulically cross-gradient of the Site. This property is currently the site of the Narragansett Bay Commission's Combined Sewer Overflow (CSO) Tunnel Project.

The PTA facility was improved by thirteen above ground storage tanks which contain gasolines and petroleum distillates. Earthen berms surrounded the tanks which were designed to contain volumetric capacities greater than the capacities of

the largest of the tanks enclosed. The PTA property was used for the storage of petroleum products since at least the 1930's.

Documented releases at the PTA facility include a release of 25,000 gallons of kerosene from a loading rack in October, 1984. Free phase petroleum has been identified within the loading rack area, approximately 150 feet from the northern property boundary. Product thickness from a January 1999 gauging event ranged from 0.05 feet to 0.20 feet.

Free phase petroleum has also been identified in the eastern-most portion of the PTA property. This area is located approximately 750 feet south from the NEGC Site. Additionally, Method 1 GB Groundwater Objective exceedances have been reported from samples collected from four groundwater monitoring wells and one monitoring well located north of the loading rack area

On August 6, 1987, approximately 17,000 gallons of unleaded gasoline was released from an AST(Tank No. 12). This area of the site is cross- and/or up-gradient of the NEGC former gasholders and former Structure No. 6. Groundwater elevation data collected from the site indicates horizontal groundwater gradients to the northeast and west or northwest (Berger, 2001). Although remedial actions were implemented at the site by Lincoln Environmental, Inc., more recent investigations conducted in association with the NBC CSO project indicates exceedances of RIDEM upper concentration limits (UCLs) for benzene and/or toluene in three monitor wells. Berger also indicated that there were no detection of NAPL and that the dissolved-phase plume "has not increased, but has attenuated or remained reasonably constant as compared to data developed and reviewed in 1998 and 1999." An NBC notice to abutters regarding the completion of the SI activities, stated monitoring data obtained in 2001 indicated that dissolved phase concentrations of benzene, toluene, ethylbenzene, and xylene (BTEX) compounds did not exceed GB remediation objectives at any locations beyond the boundaries of the site.

A Remedial Decision Letter (RDL) was issued by RIDEM to NBC on February 19, 2002. According to the letter, the preferred remedial alternative was as follows:

1. Remove and dispose of all gasoline and/or hazardous material impacted soil to be excavated in association with the CSO tunnel construction at a licensed disposal facility;
2. Continue to monitor groundwater in the wells outside of the CSO construction area during the construction period; and
3. Submit an aggressive remedial action work plan proposal such as soil vapor extraction coupled with further groundwater monitoring including well replacement installation for RIDEM approval.

According to the RIDEM RDL, the post construction RAWP would commence immediately at the completion of the Main Spine Shaft construction at the property.

Although, according to NBC, there were no detections of BTEX compounds beyond the site boundaries in 2001, the release of 17,000 gallons of gasoline occurred on August 6, 1987. Given the historic releases at the site, the detection of BTEX compounds that exceed RIDEM UCLs, the cross/up-gradient orientation of the site with respect to the NEGC site, and the proximity to the subject Site, this site may pose an environmental concern to the NEGC Site.

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### ProvPort Petroleum Bulk Storage/Sun Terminal

The ProvPort Petroleum Bulk Storage Facility (ProvPort) abuts a portion of the NEGC Site to the south. The ProvPort facility and NEGC Site share approximately 230 feet of property boundary, and is inferred to be cross-gradient of the Site. The ProvPort property is partitioned into two sections. The northeastern portion of the facility contains a vapor recovery system, an MTBE additive tank, two oil/water separator USTs, a 550-gallon vapor recovery UST, and two closed USTs. The southwestern portion of the facility consists of a bulk petroleum tank farm consisting of nine large ASTs, formerly used for the storage of gasoline and heating fuel. A 1,000 gallon heating oil UST, a closed 4,000-gallon heating oil UST and a septic system leaching field are located south of these ASTs.

Subsurface investigations performed by Fuss & O'Neill conducted in 1997 document the presence of free phase product and dissolved petroleum hydrocarbon constituents in groundwater. No VOCs exceeding RIDEM GB Groundwater Objective were detected in groundwater samples within approximately 300 feet of the upgradient NEGC property. Free-phase petroleum was detected in groundwater samples on the southeastern portion of the ProvPort facility, adjacent to the Providence River.

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### George Mann Company/Vopak/Univar

This site is located at 175 Terminal Road and abuts the southern portion of the Site. This site is south of the LNG facility Gas Control Building and the paved access road to the St. Lawrence Cement Company. The property has been occupied by various chemical distributors since 1990 and has operated as the George Mann Company, Vopak USA, Inc., and currently as, Univar, Inc. Previous to these land uses, the facility was used by the City of Providence for bulk storage of petroleum until 1965. According to correspondences reviewed at RIDEM, regulatory involvement with the site was established in January 1996.

Reportedly, there have been documented concentrations of TPH in soil which exceeded the Method 1 Industrial/Commercial Direct Exposure Criterion (I/C DEC), the Method 1 Leachability Criterion and the Upper Concentration Limit (UCL) for TPH, concentrations of arsenic in soil which exceeded the Method 1 I/C DEC, and concentrations of benzene, tetrachloroethene (PCE) and 1,1-dichloroethene in groundwater which exceed the Method 1 GB Groundwater objectives for those substances.

According to Advent, the environmental consultant for the responsible party, a review of aerial photographs taken in 1939 and 1951 showed two, bulk oil tanks on the property. The dimensions and volume of these tanks were unknown. An aerial photograph taken in 1965 reportedly showed that the tanks had been removed. According to Advent, there was no apparent source of petroleum hydrocarbon impacts on the site that can be identified as the source of the impacts detected in samples collected from the site, even though the property was used for bulk storage of petroleum hydrocarbon prior to 1965. Advent was also of the opinion that the presence of the constituents found in the samples was most likely attributable to an off-site source and that the surrounding properties are generally bulk storage/distribution facilities of petroleum products.

In a letter dated April 17, 2002, Innovative Engineering Solutions, Inc. (IESI), on behalf of Vopak USA, Inc. (Vopak), summarized a meeting between RIDEM and Vopak. According to the letter, RIDEM indicated during the meeting that there were "two outstanding issues for completing the site investigation (and possibly site closure)." The first issue was whether residual petroleum hydrocarbons that have been detected in groundwater samples collected from an on site monitor well were the result of operations at the facility or whether they migrated on to the property from upgradient sources. The second issue concerned providing proper documentation for closure of the septic system at the rear of the property for the garage building.

In a letter dated July 10, 2002, RIDEM indicated that if Vopak intended to claim down-gradient property status, they would have to demonstrate up gradient impacts by placing a well between the suspected up gradient source and the leach field on the Vopak property. RIDEM also requested written commitment by Vopak to allow future access to their property to the responsible up gradient property owner for the specific purpose of further investigation, remediation or monitoring of impacts from an offsite source. The Underground Injection Control Program (UIC) also requested an UIC Program closure application with a site plan indicating the proposed boring locations for the investigation of the leach field. RIDEM also requested that the final discharge point of the maintenance garage floor drain be identified and that all other outstanding UIC issues be addressed.

There were no other more recent correspondence or reports in the state files, likely indicating that these reports have not been completed or were not available at the time of the VHB file review. Based on the documentation of onsite soil and

groundwater impacts, the cross- or up-gradient groundwater flow direction, and the proximity to the subject Site, this property may have the potential to environmentally impact the 642 Allens Avenue property.

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## Local Record Sources

VHB obtained the following information during file reviews at the Providence City Offices:

*Tax Assessor's Office* - Map and parcel numbers for the property comprising the Site obtained from at the Providence Tax Assessor's Office. The property is identified as Assessor's Plat 56 Lots 5, 273, 316, and 317 and Plat 101 Lot 1. VHB reviewed the Chain of Title for the property and interviewed NEGC personnel to determine information regarding prior owners/uses of the Site. This information is summarized in Table 1.

# 4

## Site Reconnaissance

Visual observations were made at the Site regarding the use, storage, or disposal of OHM. Photographs taken of the Site are presented in the Photographs section of this report.

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### General Observations

The property is improved with several buildings, parking lots, paved and unpaved roads, surface and subsurface structures, a natural gas fueling station, the St. Lawrence Cement Company, and the KeySpan Energy facility. Excepting the Gas Control Building, the buildings located on the NEGC-operated portion of the Site are unoccupied and are generally used for storage. A Site map is included as Figure 2.

Access to the Site is gained from Allens Avenue, through a card-activated gate. South of the main gate is the natural gas fueling station and north of the main gate is the NEGC control building. There is a paved parking lot located behind the control building and a railroad spur track enters the Site from the north, crosses the northeast corner of the paved parking lot, and the track splits west of the parking lot. The northern track parallels a paved road, heading in a westerly direction, and ends before the LNG facility. The southern track crosses the paved road, passes two gas holders and ends proximate to former Structure No. 6.

North of the paved parking lot is a stockpile of excavation spoils from NEGC construction projects. This material is periodically processed on-Site and a stockpile of processed material is located east of the paved parking lot. There are also storage areas for asphalt next to the processed material stockpile. An unpaved access road is located along the northern portion of the property and has an east to west orientation. This road passes the MHA, located on the north central portion of the Site. The MHA was used for the storage and handling of excavated material during remedial activities conducted by ESS from 1999 to 2000 and by VHB/ CHES from May 2002 to November 2002. The MHA has been reduced in area to approximately 150 feet by 150 feet and is used to store surficial soil that was excavated as part of the 2002 remedial activities. This stockpile is intended to be used as subsurface backfill during future remedial activities and has been covered with ultra-violet resistant tarpaulins. The former areas of the Site that were covered by the MHA before it was

reduced in area has been covered with approximately 6 inches of loam and subsequently had hydroseed applied.

The northern access road continues to a fenced portion of the Site that is leased by KeySpan Energy (Area 3) and was the location of some of the remedial activities conducted during the summer of 2002. The access road continues beyond a gate to the northern portion of Area 3 and is adjacent to a water lot owned by Motiva. An approximately 12-inch high-pressure natural gas pipeline extends from a gate station in East Providence, crosses under the Providence River, and comes ashore on the northeast corner of the Site, under the northern access road to the NEGC 'Regulator Area'. The portion of the gas pipeline under the access road, proximate to the "Seep Area" was replaced with a 16-inch diameter section of pipe during the remedial activities conducted during the summer of 2002. Area 3 is capped with approximately 18 inches of clean sand and an approximately 6-inch layer of crushed stone.

To the south of Area 3 is property leased by KeySpan Energy and is used as an off-load area. This area of the property has a circular paved road and the remaining areas are finished with crushed stone. This portion of the Site (and all areas leased by KeySpan Energy) is surrounded by a chain link fence topped with razor wire. Area 1 is located south of the off-load area and was the location of some of the remedial activities conducted by ESS from 1999-2000. A portion of the KeySpan Energy containment dike is located south of Area 1 and is improved with a vaporizer building.

KeySpan Energy occupies the northeast to east-central portion of the property. This area is within the KeySpan Energy containment dike and is the location of the KeySpan Energy LNG tank. South of the LNG tank is the remaining portions of Area 1. South of the containment dike is the portion of the property occupied by the St. Lawrence Cement Company. East of the cement company is additional property leased by KeySpan Energy and houses the KeySpan Energy gas control building.

To the north of the KeySpan Energy gas control building is Area 2 and was the location of some of the remedial activities conducted by VHB/CHES during the summer of 2002. This area is finished with approximately 18 inches of clean sand and approximately 6 inches of loam. An application of hydroseed was applied to the loam in this area. A fire road that was finished with clean sand fill and stone dust bisects this portion of the Site. A partially demolished building is located in Area 2 and was formerly a portion of Building No. 29 and Building No. 9. Building No. 30 is located west of this area and is used for the storage of hazardous materials and to accumulate hazardous wastes. The materials and wastes are kept in 55-gallon drums in a bermed containment area on a sealed concrete floor inside the building.



The central portion of the property (located southwest of the former portions of the MHA and north of Area 2) is known as the Regulator Area. There are several buildings and structures associated with the distribution of natural gas located in this area.

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## Utilities

According to the Tax Assessor's Field Card, municipal water, sanitary sewers and electricity service the Site.

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## Storage Tanks

According to interviews with NEGC personnel, there is an approximately 2,000-gallon aboveground storage tank (AST) used to store diesel. This AST is located behind Building No. 30 and is maintained for emergency use of generators. There is also an empty indoor 275-gallon diesel AST located in the former Holder Heater Building.

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## Drywells, Floor Drains and Sumps

Based on conversations with NEGC personnel, most of the buildings do not have floor drains and any buildings with floor drains are connected to the municipal sewer.

## Site Investigation Field Activities

To assess the nature and extent of FMGP impact in the environment, VHB and others (RCA and ESS) conducted subsurface investigations that included the advancement of test pits and borings, and chemical testing of soil and groundwater.

### Soil Boring and Groundwater Well Installation

ESS completed over 450 soil borings between November 1999 and October of 2000. VHB completed 17 soil borings in January of 2002 at the Site and an additional 20 borings in January 2003. Copies of the boring logs and well construction reports are included in Appendix E and F. Please refer to Figure 4 for the VHB soil boring locations and Appendix G for a Site plan depicting the ESS soil boring locations.

Subsurface Drilling & Remediation (SDR) of Warwick, Rhode Island used a truck-mounted hollow-stem drilling rig to install the VHB borings from 10 to 20 feet below the ground surface. As spent iron oxides are susceptible to spontaneous heating when exposed to air, the use of a Geoprobe rig was selected as being the least invasive method for the subsurface investigation of former Structure No. 6. ESS soil borings were completed using Geoprobe direct-push sampling equipment and advanced to the water table. Areas beneath soil piles, dikes, and various structures on all three parcels were not accessible by the drill rig.

### Groundwater Wells

23 ESS  
19 VHB  
22 RCA

Twenty-three of the over 450 ESS test borings became temporary groundwater monitoring wells and were sampled between December 1999 and April 2000 by ESS. Nineteen of the 37 VHB soil borings became groundwater monitor wells (VHB-1 through VHB-13 and VHB-18 through VHB-23) and were sampled on June 20, 2002 and February 25, 2003, respectively. Twenty-two monitor wells installed by RCA were also used for groundwater sampling and were sampled on November 29, 2001. The following soil boring sections discuss the data from both the VHB and ESS borings.

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## Groundwater Well Screening

All of the wells used in the groundwater monitoring were screened across the water table interface to enable the measurement of light non-aqueous phase liquid (LNAPL). The top of each well was secured at grade with cement and a steel well cover. Soil boring and well reports logs are located in Appendices E and F.

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## Groundwater Well Development

After installation, the VHB wells were developed using a modified "surge and block" technique, whereby well water was surged and withdrawn using a bailer in an attempt to remove silt from the well screen and sand filter. After surging, a 12-volt submersible pump was used to pump the well until the discharge ran clear. It is assumed that a similar procedure was utilized by RCA during the well development for the 22 RCA wells used during the current groundwater monitoring activities.

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## Waste Disposal

Water generated during the VHB well development operation was stored in 55-gallon drums provided by CHES and kept inside Building No. 30. These drums were ultimately emptied into the on-Site frac tanks and treated through the on-Site wastewater treatment system. Purge water that was generated while sampling monitor wells VHB-18 through VHB-22 were stored in 55-gallon drums and kept inside Building No. 30. These drums will be tested for disposal parameters and will be properly disposed.

VHB drill cuttings were stored on poly until picked up by CHES and transferred to the material handling area or were placed in drums for disposal. Drums of soil that were generated during the boring program in former Structure No. 6 and the MHA were stored in 55-gallon drums, will be tested for disposal parameters, and will be disposed of properly.

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## Visual Observations

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### Soil Stratigraphy

Soil borings provide important stratigraphic information. A generalization of the soil strata under the Site is summarized below.

Depth Below Ground Surface	Characterization
Surface to 6 inches	Asphalt, concrete, or topsoil
6 inches to 15 feet	Loose to medium dense fine to coarse SAND, gravel, coal, coal ash, and brick (FILL)
15 feet to 30+ feet	Medium dense, gray, fine to coarse SAND and gravel, (OUTWASH)

## LNAPL

Non-aqueous phase liquid or sheens on soil or groundwater were observed in 7 of the 37 VHB borings and 22 of the over 450 ESS borings installed throughout the Site.

The most frequent occurrence of NAPL was observed in borings VHB 1, 3, 4, 5, 7, 10 and 15 and in ESS borings A08, A14, B20, C49, D27, D28, D58, D62, D72, D86, D87, E29, E36, E39, E76, E84, E86, F04, F41 and F56. The locations of these borings are depicted on Figure 5.

Borings D86, D87, E76, E84, E86, F41, F56, VHB-1, VHB-3, VHB-5, and VHB-15 were located on the western portion of the Site, in the vicinity of the Control Building and the excavation spoils offloading area.

Borings E29, E36, E39, F04, and VHB-10 were located on the southwestern portion of the Site, proximate to former Gasholders 18 and 21. Borings D63, D81 and VHB-7 were located in Area 2. This area underwent remedial excavations during the summer of 2002 and is summarized in the closure report submitted to RIDEM in November 2002. As part of these remedial activities, a 20-foot "No Dig Zone" was established at the toe of slope to any LNG facility containment dike. ESS boring D63 was located within a "No Dig Zone". VHB-7 is located south of the partially demolished Building No. 9 and laboratory analytical results of a soil sample collected from that boring did not indicate any compounds that exceeded the 1998 RAWP Remedial Objectives. Borings D27, D28, and D58 were located just north of Area 2.

Boring D72 was located proximate to the Regulator Area. Boring C49 was located northeast of the LNG facility Gas Control Building and appears to be an isolated or localized occurrence of LNAPL. Boring B20 and VHB-4 were located on the north access road, proximate to the Motiva water lot. Borings A08 and A14 were located along the eastern access road on the eastern-most portion of the Site.

According to the boring logs, it appears that the observance of LNAPL generally coincided with the water table.

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**Field Analytical Results**

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**VHB VOC Screening**

VHB soil samples were collected from each boring using a one-inch inside diameter split-spoon sampler, driven by a 140-lb hammer or from a four-foot long stainless steel tube lined with a clear acetate liner driven by a vibratory hammer. During the excavations, soil samples were collected and placed in pre-cleaned containers. A portion of each sample was screened for VOCs using a photoionization detector (PID) by the standard "jar-headspace" method.

The highest VOC headspace concentrations (406 to 6,364 ppm) came from soil collected within former Structure No. 6 (B-1, B-2C, B-2D, B-7). The highest headspace response was detected in boring B-1, at a depth of 2.75 to 4 feet. This sample was observed to have wood chips and was collected from above the water table.

Elevated PID readings were also detected proximate to the northwest portion of the Site, in the vicinity of the excavation spoils stockpile. PID concentrations ranged from approximately 112 ppm at a depth of 4 to 6 feet BSG and 106 ppm at a depth of 8 to 10 feet BSG.

All headspace responses are recorded in the soil boring logs in Appendix E.

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**ESS VOC Screening**

A four-foot long stainless steel tube lined with a clear acetate liner was advanced at each boring location. The liner from the core was withdrawn from the tube, split, and immediately screened using a PID along the opening in the liner.

According to ESS, PID readings for surface soils were not consistent during the investigation. Although the PID was calibrated and checked routinely, it was suspected that moisture and cold weather affected the instrument. Although not indicated by ESS, it is presumed that these difficulties were experienced with the subsurface soils that were screened. PID screening results are reported in the ESS boring logs, attached as Appendix E.

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## Soil Boring and Test Pit Laboratory Analytical Results

In evaluating the data, and determining those areas requiring remediation, the RIDEM Criteria were utilized in the following hierarchy:

- Method 1 Soil Objectives (I/C DEC's and GB Leachability Criteria) presented in the RIDEM Remediation Regulations ("Remediation Regulation Remedial Objectives") and;
- In the absence of any available remedial objective, the default UCL of 10,000 mg/kg was applied.

As a result of high concentrations of some target analytes, the quantitation limits for other target analytes exceeded applicable remedial objectives. For the purpose of this data summary, an exceedance of a remedial objective by a quantitation limit is not defined as a regulatory exceedance. This was most often the case in areas where other constituents exceeded remedial objectives thereby elevating the quantitation limits. Remediation will occur in those areas. In locations where this occurred, post excavation analyses will include all compounds that exceeded their remedial objective either as a result of their elevated quantitation limit, or an exceedance of the remedial objectives. If post excavation analyses continue to show exceedances, then additional excavation will occur.

MGP site solids are typically dominated by ferric ferrocyanide (FFC). The results of analysis revealed a correlation in the magnitude of concentrations of total cyanide and iron, wherein as concentrations of iron increase, so do concentrations of total cyanide. Iron concentrations in soil of the eastern United States range from 100 to greater than 100,000 mg/kg, with an arithmetic mean concentration of 25,000 mg/kg (Shacklette and Boerngen, 1984). Given the typical range of iron in soil, it is anticipated that RIDEM does not intend to regulate iron as a hazardous substance. For this reason, iron concentrations are not compared with the generic UCL and are not identified as a concern in the Site soil. Iron was collected primarily to evaluate its correlation with cyanide concentrations due to past on-site purifier processes. Wastes historically generated from the MGP purifier processes contained iron cyanide compounds. Iron was analyzed in virtually all soil samples collected by ESS and was detected at concentrations ranging from about 4,000 mg/kg to 177,000 mg/kg, with the vast majority being between 10,000 and 30,000 mg/kg and an arithmetic mean of approximately 15,000 mg/kg. The RIDEM has not developed a remedial objective for iron.

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## Surface Soil

Surface soil (0-2 feet) across the Site consisted primarily of fill material, with silty fine to medium sands encountered in some areas. In some samples collected in the area east of former Gasolder 21 near the southern boundary of the Site, blue to blue-black soil was observed, indicating the probable presence of cyanide. This observation is consistent with the historic location of MGP purifier operations in this area.

Summary tables of analytical results for surface soil collected by ESS are provided in Appendix H. Table 2 summarizes surface soil locations containing constituents at concentrations above RIDEM I/C DECs. Laboratory analytical results for surficial soil samples collected by VHB are summarized in Table 3. Laboratory Certificates of Analysis are provided on compact disc in Appendix K. Figure 6 depicts the locations of borings that exceeded RIDEM surficial soil criteria.

It should be noted that surficial soil samples collected from the former portions of the MHA were collected at a depth of approximately 0.5 to 2 feet BSG in this area based on the application of approximately 6 inches of clean loam and an application of hydroseed as part of the remedial activities conducted during the summer of 2002. The loam and hydroseed were applied as an interim measure to reduce exposure and migration of wind-blown soils.

Discussions of constituents exceeding RIDEM criteria are provided in the following subsections.

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### Polycyclic Aromatic Hydrocarbons (PAHs)

PAHs were detected at concentrations exceeding surface soil criteria at many locations across the Site. The following PAHs were detected at concentrations above RIDEM I/C DECs:

- Benzo(a)anthracene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- Benzo(a)pyrene
- Chrysene
- Dibenzo(a,h)anthracene
- Indeno(1,2,3-cd)pyrene
- Naphthalene

Distribution of PAHs in surface soil generally conforms to expectations based on historic site operations and previous Site investigation work. While RIDEM I/C DECs exceedances were seen throughout the Site, areas where remedial objective exceedances were more prevalent are:

- The area around the NEGC gas control building;
- North and east of Building 30;
- The St. Lawrence Cement Co. operations area; and
- Former Structure No. 6 area.

Surface soil analytical results for SVOCs, including PAHs, are summarized in Appendix G, Tables D-1 through D-6, Table 2, and Table 3.

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## Metals

The following metals were detected in surface soil at concentrations above RIDEM criteria:

- Arsenic
- Lead
- Beryllium

In February 2003, the RIDEM announced their intention to raise the Residential and Industrial/Commercial Direct Exposure Criteria for arsenic to 7 ppm. This SIR has been written with the assumption that this proposed regulation change will be finalized in the near future. Arsenic concentrations in excess of 7 ppm were detected in surface soil throughout the Site; however, were more frequent in three areas:

- East of Building 30;
- Regulator Area south of the MHA; and
- Area east of former Gasholder 21.

Lead was detected in excess of its RIDEM I/C DEC primarily in the areas north and east of Building 30 and around the two former gas holders in the southwestern portion of the Site. This finding is consistent with paint chips observed in the surface soil in this area that appear to have originated from the former gasholders.

Beryllium was detected in six surface soil samples in excess of its surface soil remedial objective. The concentrations ranged from 1.4 ppm to 14.2 ppm (mean concentration of 3.77) and the distribution does not appear to be biased to any specific area of the Site.

Surface soil analytical results for metals are summarized in Appendix H, Tables D-7 through D-12, Table 2 and Table 3.

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## Other Constituents

Other constituents identified in surface soil at concentrations in excess of their RIDEM I/C DECs are:



- Aldrin
- Carbazole
- Dieldrin
- 2,4-Dinitrotoluene
- PCBs (quantified as Aroclor 1242)
- TPH

Distribution of surface soil exceedances of these constituents was largely limited to two areas, the northwestern portion of the Site around the NEGC gas control building and parking lot and in the central area of the Site. There was a soil sample collected from the former Structure No. 6 area with laboratory analytical results that indicate a surficial soil TPH concentration of 38,600 ppm.

Surface soil analytical results for 2,4-dinitrotoluene and carbazole are presented in Appendix G, Tables D-1 through D-6. Analytical results for TPH are presented in Appendix G, Tables D-7 through D-12 and Table 3. Analytical results for aldrin, dieldrin, and PCBs are presented in Appendix G, Tables D-19 through D-24.

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## Subsurface Soil

In general, the Site subsurface is characterized by fill. The fill observed primarily consisted of black clinker, ash, slag, and cinders, and similar materials, although brick, wood, and other debris were observed in various locations. For the purposes of this report, the term ash/clinker is used to represent the fine to coarse grained, black material identified throughout the Site and described variously in the boring and test hole logs as slag, cinders, cinder ash, and ash. A clinker is an irregular clump of material (agglomerated ash) that remains after the combustion of coal. It was common practice at FMGP sites to use this ash/clinker as fill on site, therefore, its presence at this Site is not unexpected.

Evidence of ash/clinker fill begins nearly immediately below the surface throughout the Site, or within the top six inches, with few exceptions. These exceptions include the area located around the natural gas vehicle fueling station that is covered with grass, an area between former Gasholders 18 and 21, the former portions of the MHA, the area near Boring E86 near the NEGC excavation spoils pile, and the areas that have undergone remediation.

When not encountering ash/clinker, subsurface soil was often composed of a fine to medium brown to gray to yellow silty sand.

Discolored soils were observed at a variety of locations across the Site. Blue or blue-green discoloration was observed primarily around former Gasholder 21, south of

Building 30, and in isolated areas on the LNG and St. Lawrence Cement Company facilities. Orange discoloration was observed within the Regulator Area, around former Gasholder 21, on the LNG facility, and near the NEGC gas control building. Yellow discoloration was noted in soils in and east of the Regulator Area, along the northern, eastern, and southern border of the Site on the LNG facility/St. Lawrence Cement facilities, east of former Gasholder 21 and in the former Structure No. 6 area.

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## Subsurface Soil Analytical Results

Summary tables of analytical results for subsurface soil samples collected during the boring and test pit program are provided in Appendix H in tables E-1 through E-24. Table 4 summarizes boring locations where subsurface soil sample analysis revealed constituents at concentrations above their RIDEM GB Leachability Criteria. Figure 7 depicts the locations of subsurface soil samples that exceeded the RIDEM criteria.

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## Total Petroleum Hydrocarbons (TPH)

Subsurface soil TPH concentrations that exceeded RIDEM Criteria ranged from 2,500 ppm to 35,000 ppm. The following boring locations had soil samples with laboratory analytical results that indicates TPH concentrations greater than 10,000 ppm: A09 (8-10 ft.), D20 (4-6 ft.), D62 (8-10 ft.), E88 (2-4 ft.), E91 (2-4 ft.), F04 (8-10 ft.), F41 (4-6 ft.), F45 (4-6 ft.), F51 (6-8 ft.), F52 (2-4 ft.) and VHB-1 (6-8 ft.). The laboratory analytical results for samples that exceed RIDEM criteria are summarized in Table 4.

These sample points are located in the following general areas of the Site:

- The NEGC gas control building and parking lot;
- The Regulator Area; and
- former Structure No. 6 Area;

Boring A09 is located on the northeast corner of the Site, proximate to the LNG tank. It is also downgradient of the former Gulf Oil large-capacity ASTs. Boring D62 is located in Area 2, along the fence line. The soil surrounding boring D62 could not be excavated during the remedial activities conducted in that area because of its proximity to a LNG facility containment dike.

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## Volatile Organic Compounds (VOCs)

Volatile organic compounds (VOCs) were laboratory analyzed via EPA Method 8260. The following samples exceeded the RIDEM GB Leachability Criteria for one or more of the VOC compounds: C09 (4-6 ft.), D20 (4-6 ft.), D62 (8-10ft.), E15 (4-6 ft.), E34 (4-6 ft.), F07 (8-10 ft.), F51(6-8 ft.), and B-1/VHB-18 (3-4 ft.). These samples are located in the following areas:

- The Regulator Area;
- The former Structure No. 6 Area; and
- Between Area 2 and the LNG facility containment dike.

These sample results are summarized in Table 4.

---

### Polycyclic Aromatic Hydrocarbons (PAHs)

RIDEM's *Remediation Regulations* do not have GB Leachability Criteria for any PAH compounds. The general reasoning behind their decision was the fact that PAHs are not generally thought to be significantly soluble in water. ESS' RAWP (1998) presented a Remedial Objective for naphthalene (500 ppm if less than 100 ft. from shore and 5,000 ppm if greater than 100 ft. from shore) for remediation work in the Phase 1 area. A sample collected from ESS boring C49 at a depth of 2-4 feet BSG exceeded the 1998 RAWP Remedial Objective for naphthalene. This sample was collected between the LNG facility and the St. Lawrence Cement Company facility. These sample results are summarized in Table 4.

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### Groundwater

Groundwater investigations have been conducted at the Site by RCA, ESS and VHB. RCA completed borings as monitor wells, collected groundwater samples from the wells, and had TPH fingerprint analysis conducted on some samples. ESS collected groundwater samples from temporary wells completed in soil borings that indicated elevated PID readings or visual evidence of potentially significant impacts. VHB completed borings as monitor wells in areas that had not been previously investigated or in areas where monitor wells were destroyed or unusable. Groundwater encountered throughout the Site predominantly exhibited a strong odor, and in some instances had a sheen present. VHB also collected samples of NAPL for fingerprint analysis.

---

### Monitor Well Gauging Data and Observations

Monitor well gauging data and observations of the purge water from the VHB groundwater sampling is include in Table 5. LNAPL has been measured by VHB in monitor wells RCA-4, RCA-29, RCA-40, and VHB-10 (1-2 inches, 0.14 inches, 0.1 inches, and 0.12 inches, respectively) and has been observed as "droplets" in monitor wells VHB-1, VHB-3, VHB-7, and VHB-10. Dense non-aqueous phase liquid (DNAPL) has been observed by VHB in RCA-3.

On behalf of NEGC, CHES has been monitoring the recovery wells (RW-1 through RW-5) that were installed as part of the remedial activities conducted in Areas 2 and 3 during the summer of 2002. The data from these monitoring events is summarized

in Table 6. LNAPL has been detected in RW-1, located in Area 2 and RW-4 and RW-5, both located in Area 3. In general and subsequent to remedial excavations, LNAPL thickness appeared to decrease between the initial gauging event and the second event, followed by a sharp increase in thickness by the third event. Subsequent gauging events indicates a gradual decrease in measured LNAPL thickness to levels approximately equal to or below initial measurements.



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## Laboratory Analytical Results

Laboratory analytical results from groundwater investigations conducted by RCA, ESS, and VHB are described below. Figure 8 shows the monitor wells with laboratory analytical results that exceed RIDEM criteria.

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### RCA Groundwater Investigations

The RCA groundwater investigations were conducted in the mid-1990's and the analytical data from these investigations may be outdated. This data has also been summarized in previously submitted reports (RCA, 1995 and RCA, 1996). VHB has collected more recent samples from these monitor wells and the data is summarized in the VHB Groundwater Investigations section of this report. The TPH fingerprint analysis of the RCA samples was reviewed and summarized in this report for indications of the types of impacts.

TPH fingerprint analysis of samples collected from RCA-1, located in the northwest corner of the Site (proximate to the NEGC gas control building), RCA-28 located in the south central portion of the Site (the former Structure No. 6 area), and RCA-36, located in the northeast corner of the Site (along the north access road) indicated characteristics of coal tar. It should be noted that RCA noted an "asphaltic odor" in RCA-1, which is located proximate to the former Texaco asphalt facility (RCA,1995).

TPH fingerprint analysis of samples collected from RCA-7, located along the eastern access road; RCA-27, located in Area 2; RCA-29, RCA-32, RCA-33, and RCA-38, all located in Area 1; and RCA-5, RCA-20, RCA-21, and RCA-40, located in Area 3, indicated characteristics of "weathered fuel oil."

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### ESS Groundwater Investigations

Temporary microwells were installed to facilitate collection of groundwater grab samples in areas of the Site where no existing monitor wells were located and where observations through boring revealed elevated PID readings, or visual evidence of potentially significant impacts. Prior to sampling, the monitor wells were allowed to equilibrate for a minimum of 48 hours and were gauged for the detection of NAPL.

Nineteen of the 23 temporary wells installed were sampled. Four wells were not sampled because they did not contain enough water. Groundwater samples from locations C21 and A08 were collected from the existing monitor wells RCA-11 and RCA-6 that are located immediately adjacent to the temporary wells. Groundwater was encountered from four to ten feet below grade across the Site. No measurable LNAPL was detected in any temporary well and no sheens were observed from the groundwater samples.

Of the 16 constituents RIDEM has developed GB Groundwater Objectives, only one, benzene, was found to exceed its Method 1 objective. The benzene exceedance occurred in three samples: B01 and B05 in the center of the Site and E29 located between the two former gasholder tanks in the southwest portion of the Site. Table 7 summarizes laboratory analytical results of groundwater samples that exceeded RIDEM criteria.

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## VHB Groundwater Investigations

VHB completed 19 soil borings as monitor wells (VHB-1 to VHB-13 and VHB-18 to VHB-23) and sampled wells VHB-1 through VHB-13 on June 20, 2002. These wells are located throughout the Site. Monitor wells VHB-18 through VHB-23 were sampled on February 25, 2003 and these wells are located in the former Structure No. 6 area (VHB-18 to VHB-20) and the former portions of the MHA (VHB-21 to VHB-23). A round of sampling was also conducted by VHB on November 29, 2001 of select wells completed by RCA. Laboratory analytical results of the groundwater samples collected during these events is summarized in Tables 7 through 9.

## RCA Groundwater Monitor Wells

Additional groundwater sampling of the RCA monitor wells was conducted by VHB on November 29, 2001 and December 4, 2001. Exceedances of RIDEM GB groundwater quality objectives for benzene and VHB Method 2 derived groundwater quality objectives for naphthalene were documented in monitor wells RCA-4 and RCA-28. RCA-4 was destroyed during remedial actions conducted during the summer of 2002 in Area 3. RCA-28 is located on the LNG facility portion of the Site and is in the general area of former Structure No. 6.

Laboratory analytical results of a groundwater sample collected from RCA-36 indicated concentrations of benzene that exceeded the RIDEM GB groundwater quality objective. This well is located on the northeast corner of the Site, along the north access road. This well is proximate to the former location of the tar and oil tanks (Structure No. 26). These results are summarized in Table 9.

### VHB Groundwater Monitor Wells

There were only two compounds that exceeded RIDEM criteria in monitor wells VHB-1 through VHB-13. Naphthalene was detected in VHB-7 at a concentration of 22.2 mg/L. This concentration exceeds the Method 2 GB Groundwater Objective for naphthalene derived by VHB using Appendix F of RIDEM's *Remediation Regulations* (1996). The calculation of the Method 2 GB Groundwater Objective for naphthalene is in Appendix J. Benzene was detected in VHB-10 at a concentration of 0.185 mg/L, which exceeds the RIDEM GB Groundwater Objective of 0.14 mg/L.

Laboratory analytical results of a groundwater sample collected in the former Structure No. 6 area indicated concentrations of benzene in monitor well VHB-18 that exceeded GB groundwater quality objectives. Laboratory analytical results of a groundwater sample collected from the former portions of the MHA indicated concentrations of both benzene and naphthalene that exceed the RIDEM GB groundwater quality objectives. These results are summarized in Table 9

# 6

## Exposure Assessment

VHB has completed a preliminary exposure assessment based upon our understanding of physical Site characteristics, intended Site uses, and knowledge of the Site vicinity. The most critical aspect of an exposure assessment is the identification of exposure routes and potential human and environmental receptors.

---

### Contaminants of Concern

In order to determine the Contaminants of Concern (COC), the laboratory results of the Site characterization samples were compared to the RIDEM criteria listed in Tables 1, 2, and 4 of the Remediation Regulations. All substances found to exceed RIDEM criteria were considered to be COC. Soil and groundwater laboratory results indicate that TPH, several SVOCs and VOCs, arsenic, PCBs, and lead exceed RIDEM's Industrial/Commercial DEC and GB Leachability Criteria at various locations throughout the Site.

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### Exposure Pathways

VHB utilized the RIDEM I/C DEC's to determine the COC in surface soil, the GB Leachability Criteria to determine the COC in subsurface soil, and the GB Groundwater Objective to determine the COC in groundwater. By using these criteria we are addressing the same exposure pathways and utilizing the same default exposure criteria as RIDEM did in drafting the Remediation Regulations. The soil exposure pathways addressed by using the RIDEM Remediation Regulations are: oral ingestion and inhalation of vapors.

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### Extent of Impacts

As depicted in Figure 6, surficial soil impacts occur throughout the areas of the Site that have not undergone remedial actions. Although there are indications that the highest concentrations of PAHs in surficial soil occurred in soil sample A47, located on the St. Lawrence Cement Company portion of the Site, there appears to be a second area of the Site that also exhibited elevated concentrations of PAHs. This area is located proximate to the NEGC Gas Control Building, and appears to be between

Allen's Avenue, the processed materials storage pile, and the main access road to the Site. The highest concentrations of lead in surface soil appear to be concentrated between former Gasholders 18 and 21.

The subsurface soil impacts are scattered throughout the Site, but appear to be more prevalent in the former Structure No. 6 Area, areas around the NEGC Gas Control Building, and areas proximate to former Gasholder 18.

Groundwater impacts also appear to be scattered throughout the Site, but appear to be more prevalent in areas down gradient of the Regulator Area, areas proximate to former Gasholder 18, and the former Structure No. 6 Area.



## Remedial Alternatives

VHB has developed the following summary of selected remedial alternatives to address impacted soil and groundwater on the Site. A detailed Remedial Action Work Plan will be prepared and submitted to RIDEM upon issuance of a Remedial Decision Letter.

Based upon the information presented in this report and conversations with NEGC personnel, VHB has proposed three remedial alternatives:

### Option 1 – No Action / Natural Attenuation

The No Action/Natural Attenuation remedial response action is most appropriate for sites where the migration of site contaminants is expected to be minimal and the concentration of migrating impacts pose no significant risks to human health or the environment. This investigation has documented exceedances of RIDEM criteria presented in the *Remediation Regulations* in surface and subsurface soils and groundwater. The COC detected in surficial soils have little to no ability to naturally degrade (PAHs and metals) making this option unfeasible.

### Option 2 - Excavation and Offsite Disposal

This option would consist of the complete removal of soil COC that exceed RIDEM *Remediation Regulations* criteria via excavation and replacement of impacted soils with clean fill material. Excavation is traditionally one of the simplest and most conclusive forms of site remediation. This option is not feasible; however, because impacts are dispersed throughout a large area of the Site. The cost of soil disposal and clean fill materials associated with this approach would be exorbitant making this option unfeasible.

### Option 3 –Excavation of Subsurface Soils that Exceed RIDEM Criteria (where allowable), Limit Personnel from Areas of Site that Exceed Surficial Soil Criteria, Groundwater Monitoring, and NAPL Recovery

Subsurface excavations of sample locations that exceed the RIDEM GB Leachability Criteria in areas southwest of the former portions of the MHA and the former Structure No. 6 Area can be completed.

Based on the industrial nature of the surrounding area, the documented releases of petroleum hydrocarbons on all surrounding properties, the continued large-capacity storage of hazardous materials on and off-site, and the excavation of on-Site source

materials, groundwater impacts will be addressed through monitoring and passive recovery of NAPL.

NEGC has plans to develop their portion of the Site with an operations facility and storage of NEGC vehicles and heavy equipment. It is anticipated that in developing the Site, buildings would be demolished and the former gasholders would be dismantled. Due to the proximity to construction associated with the re-location of I-195 and the new associated off-ramps, NEGC does not intend to start any development of the Site until road construction is completed.

Based on a preliminary evaluation of risk to human health, continued use of the Site is acceptable. NEGC has limited personnel from areas of the Site that exceed RIDEM I/C surficial soil criteria. To support the future development of the property, the gas company will complete a Method 3 risk assessment for human health. NEGC will submit a Method 3 risk assessment work plan concurrent with submittal of the RAWP.

Since the Method 3 risk assessment will require limitations on the use and activities of the Site, an environmental land usage restriction ("ELUR") will be required for the Site. An ELUR is a legal document drafted for the purpose of placing a notice of restrictions on the use or physical condition of a property for the protection of human health. In the property chain of title for this Site, the ELUR will require that the capped portions of the property remain in place.

#### **VHB's Remedial Alternative Recommendation**

Based upon risk management and feasibility, VHB recommends remedial Option #3 as the best remedial alternative.

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## **Compliance with RIDEM Risk Management Provisions**

The proposed Remedial Alternative will be implemented with the intent to provide conservative levels of protection for human health and the environment.

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## **Technical Feasibility**

The Remedial Alternative selected is deemed to be technically feasible.

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## **Compliance with Federal, State, and Local Regulations**

The proposed Remedial Alternative will require the involvement and approval of RIDEM, Office of Waste Management and CRMC.

No work will proceed without prior RIDEM approval of a Remedial Action Work Plan and a Human Health Risk Assessment Work Plan. NEGC expects to submit a Remedial Action Work Plan and a Human Health Risk Assessment Work Plan to RIDEM upon receipt of a Remedial Approval Letter and in accordance with a schedule to be developed by RIDEM and NEGC.

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## **Willing and Able Performing Party**

NEGC is willing and able to undertake the responsibility involved with the remediation project. They will seek the assistance of firms whose employees and project history are suited to the completion of the selected Remedial Alternative.

# 8

## Conclusions

Based upon the investigatory activities described herein, VHB makes the following conclusions:

1. The Site is the location of a former manufactured gas plant (MGP) and is currently used for industrial purposes. The Site is located on the Providence River waterfront, and has been used for industrial purposes dating back to at least 1910. The MGP operations were conducted for approximately 44 years, between 1910 and concluding in 1954.
2. Portions of the Site landmass is almost entirely composed of fill. The fill was deposited to create additional terrestrial landmass along the Providence River waterfront. The fill is composed of sand, coal, coal ash, slag, coal, glass, concrete, and brick.
3. Site soil and groundwater have been impacted by releases of oil and hazardous materials. Impacts include TPH, VOCs, PAHs, and metals (primarily arsenic and lead).
4. Soil and groundwater concentrations exceed RIDEM reporting and Method 1 clean-up criteria. During the advancement of soil borings, observations of sheens and LNAPL have been observed on and within soil samples. LNAPL and LNAPL droplets have also been observed in on-Site monitor and recovery wells.
5. Site history and environmental testing indicate that former industrial processes and impacted fill emplaced during Site development are two likely sources of the observed impacts.
6. Groundwater measurements and gradient calculations from on-Site monitoring wells indicate an east-to-west groundwater flow direction. Ocean tides, however, briefly reverse the flow during the two daily high tides.

7. The Site is not situated within a groundwater or wellhead protection area. There are presently no known private drinking water wells in close proximity to the Site.
8. Subsurface soils exceeding the RIDEM GB Leachability Criteria in areas southwest of the former portions of the MHA and former Structure No. 6 will be excavated.
9. Based on the industrial nature of the surrounding area, the documented releases of petroleum hydrocarbons on all surrounding properties, the continued large-capacity storage of petroleum products, and the excavation of on-Site source materials, groundwater impacts will be addressed through monitoring and passive recovery of NAPL.
10. Limiting personnel from areas of the Site that exceed surficial soil criteria will be implemented as an added safety precaution. In the long term, NEGC has plans to develop their portion of the Site as an operations facility in a manner consistent with the findings of an RIDEM-approved Human Health Risk Assessment Work Plan and Remedial Action Work Plan.

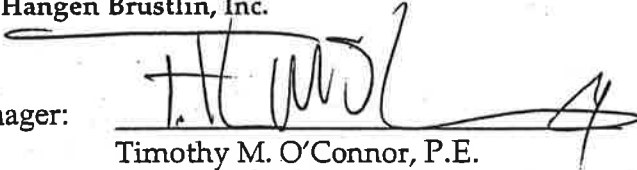
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## Certifications

In accordance with the requirements of *State of Rhode Island Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases* (Remediation Regulations) as amended August 1996, the undersigned attest that to the best of their knowledge, and at the time of completion, the information contained herein is a complete and accurate representation of Site Conditions.

For Vanasse Hangen Brustlin, Inc.

Project Manager:

  
Timothy M. O'Connor, P.E.

For The New England Gas Company

Project Manager:

  
Robert A. Young

# 10

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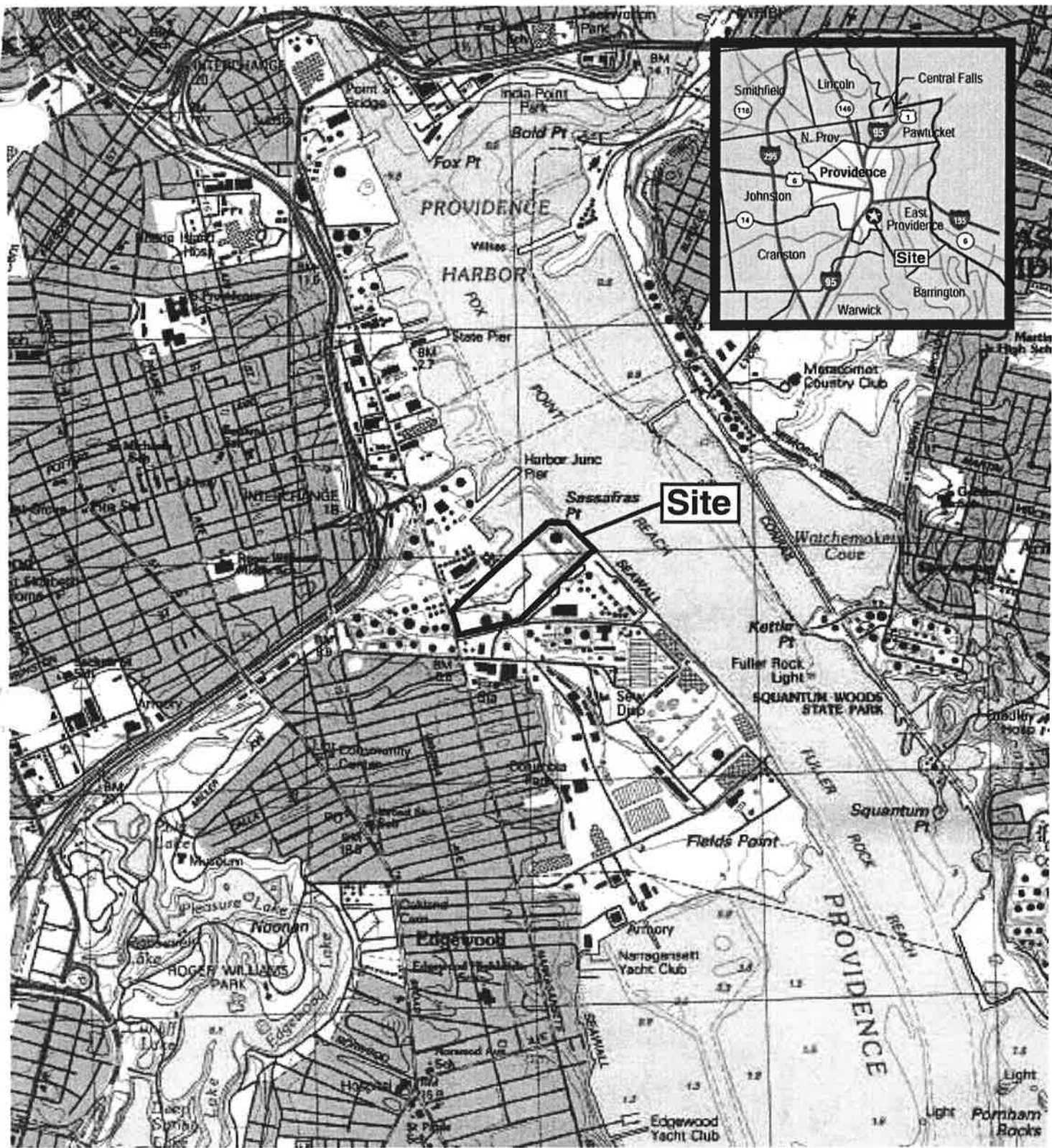
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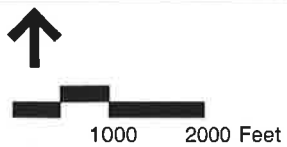


# Figures



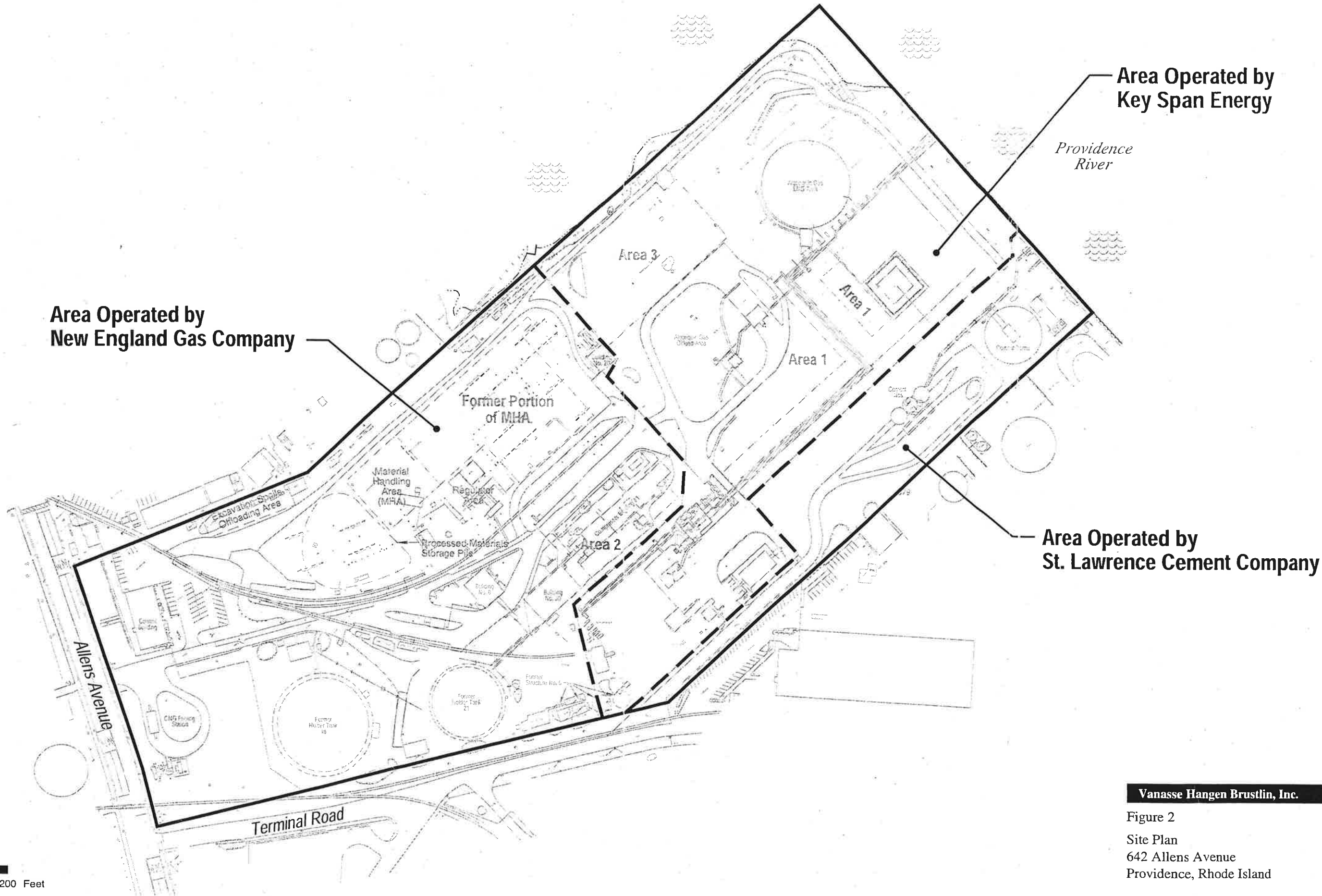
Source: Providence, RI U.S.G.S. Quadrangle.

**Vanasse Hangen Brustlin, Inc.**



Site Location Map  
 New England Gas Company  
 642 Allens Avenue  
 Providence, Rhode Island

Figure 1



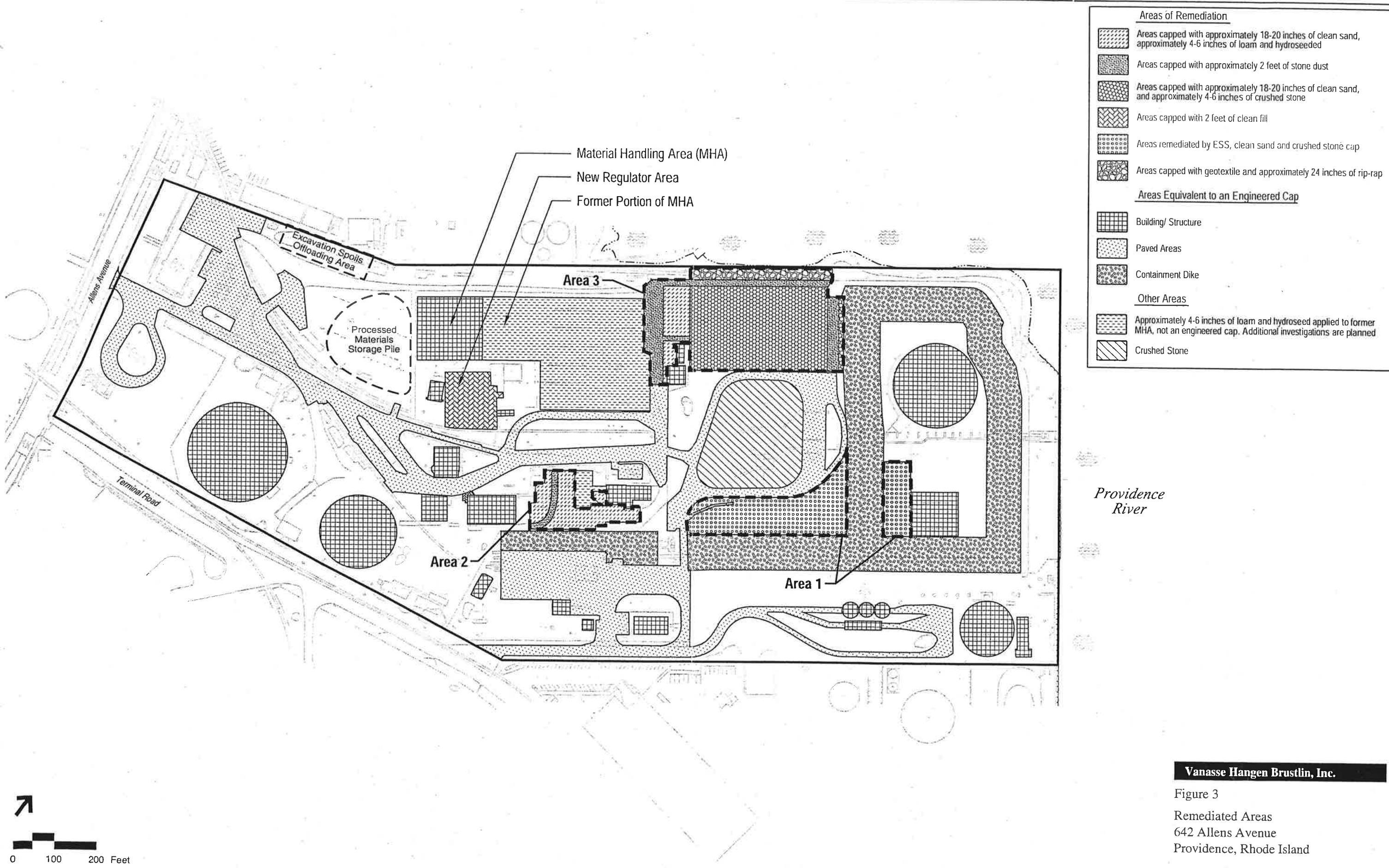
**Area Operated by Key Span Energy**

**Area Operated by New England Gas Company**

**Area Operated by St. Lawrence Cement Company**

**Vanasse Hangen Brustlin, Inc.**

Figure 2  
Site Plan  
642 Allens Avenue  
Providence, Rhode Island

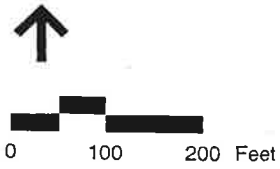


**Vanasse Hangen Brustlin, Inc.**

Figure 3  
 Remediated Areas  
 642 Allens Avenue  
 Providence, Rhode Island

**Legend**

- ⊙ VHB Monitoring Well Location
- ⊕ VHB Soil Boring Location
- ⊗ Existing RCA Monitoring Well Location

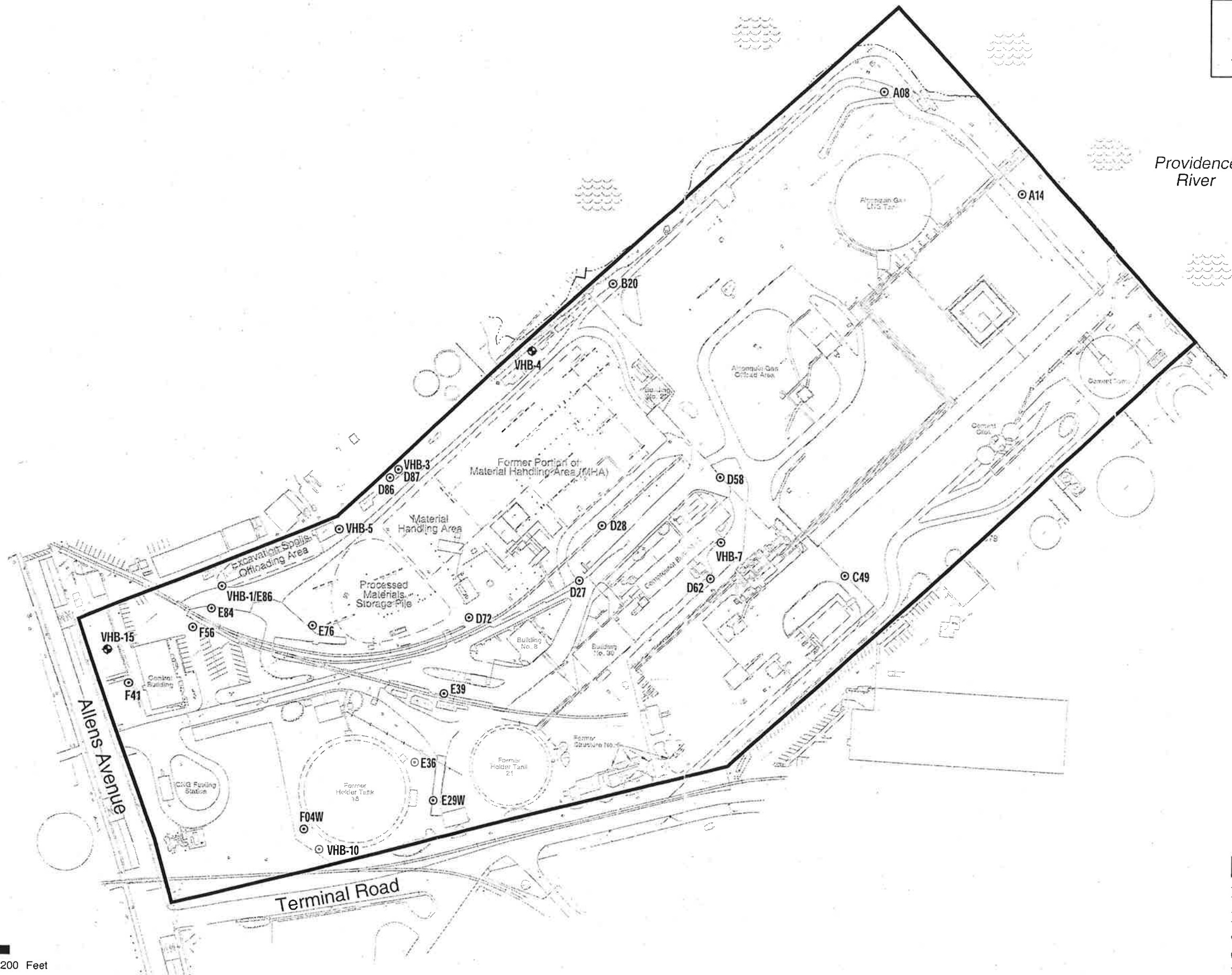


**Vanasse Hangen Brustlin, Inc.**

Figure 4  
 VHB Soil Borings and Monitoring Wells  
 642 Allens Avenue  
 Providence, Rhode Island

**Legend**

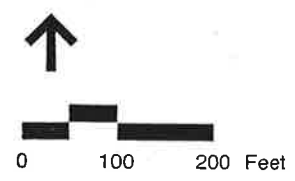
- VHB Monitoring Well Location
- ◆ VHB Soil Boring Location



Providence River

Allens Avenue

Terminal Road

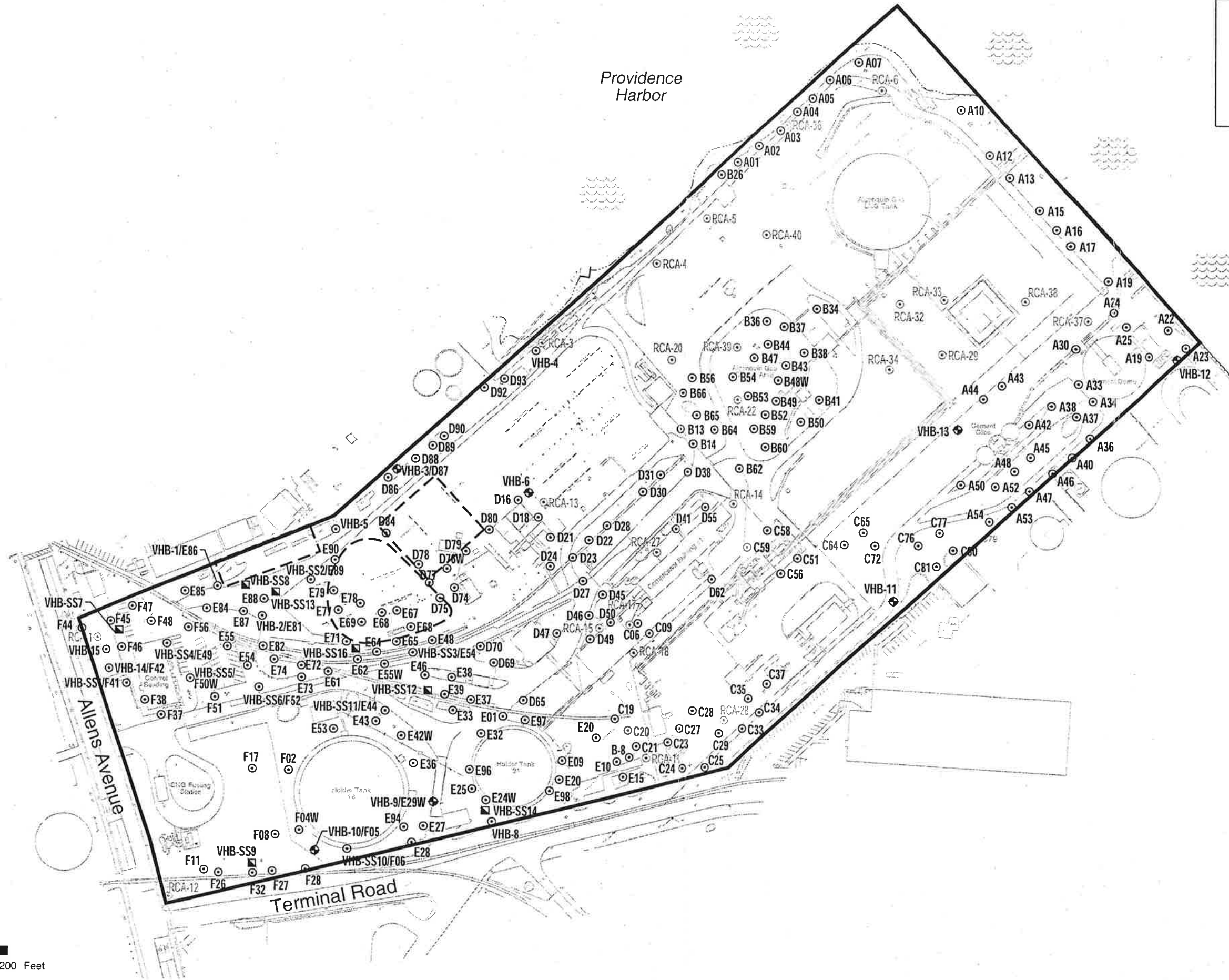


**Vanasse Hangen Brustlin, Inc.**

Figure 5  
 NAPL Observations in Soil  
 or Groundwater  
 642 Allens Avenue  
 Providence, Rhode Island

**Legend**

- ⊕ VHB Monitoring Well Location
- Soil Boring Location
- ▣ VHB Surface Soil Location
- ⊙ RCA Monitoring Well Location

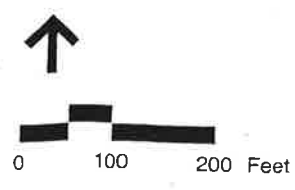
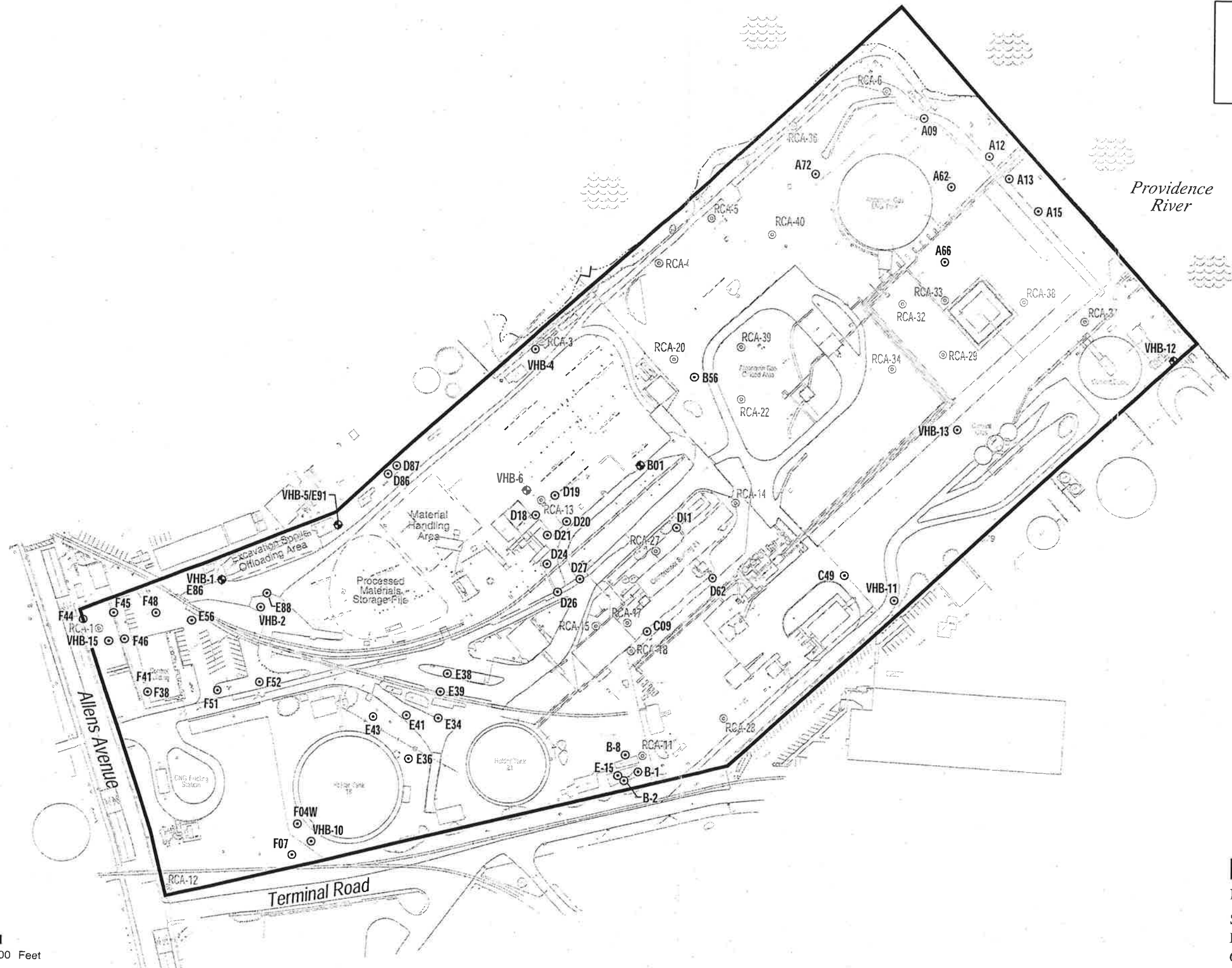


**Vanasse Hangen Brustlin, Inc.**

Figure 6  
Surface Soil Samples  
Exceeded RIDEM Criteria  
642 Allens Avenue  
Providence, Rhode Island

**Legend**

- ⊕ Monitoring Well Location
- Soil Boring Location
- ⊗ RCA Monitoring Well Location



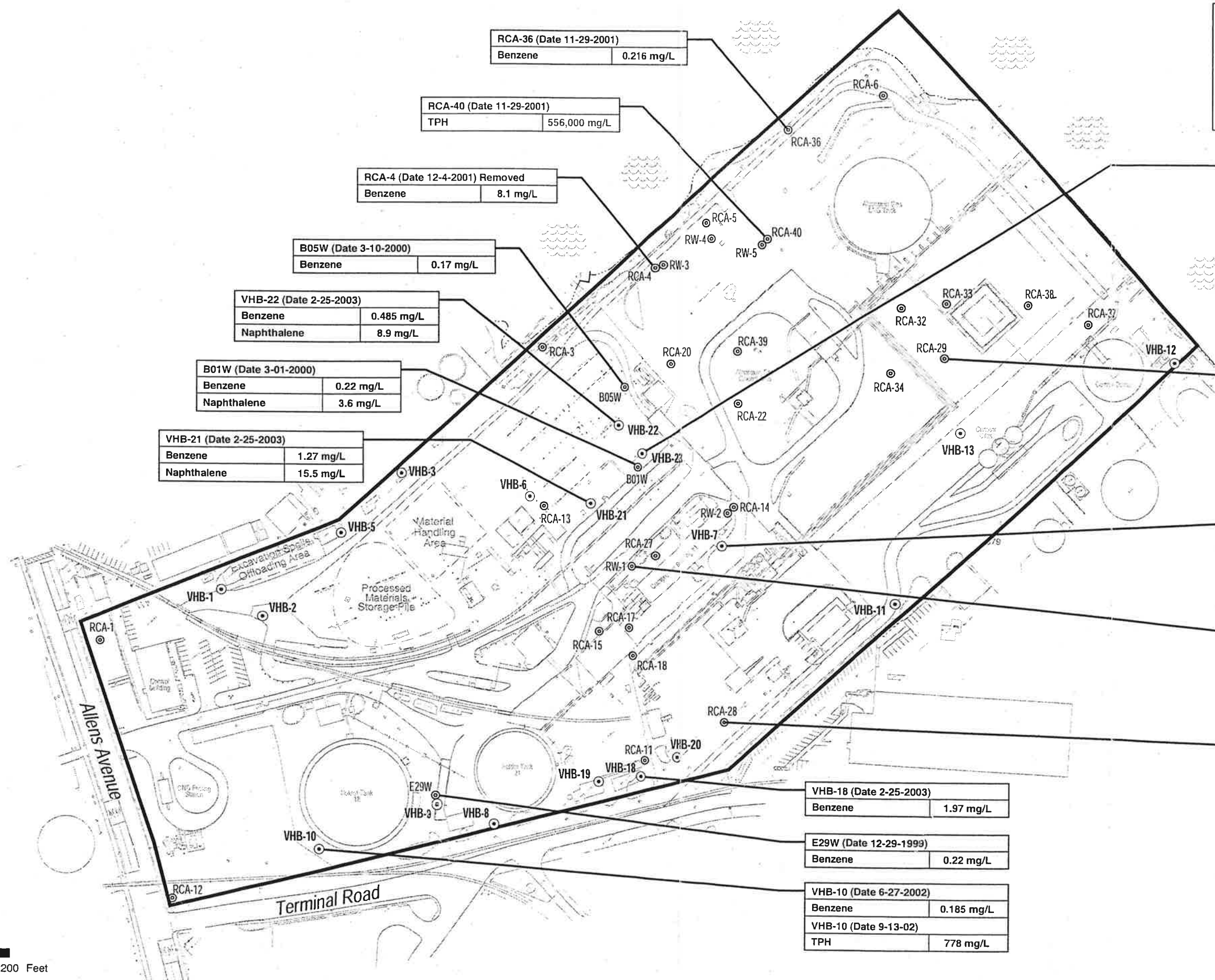
**Vanasse Hangen Brustlin, Inc.**

Figure 7  
 Subsurface Soil Sample Analytical  
 Results that Exceeded RIDEM Criteria  
 642 Allens Avenue  
 Providence, Rhode Island



**Legend**

- ⊙ VHB Monitoring Well Location
- ⊕ VHB Soil Boring Location
- ▣ VHB Surface Soil Location
- ⊙ RCA Monitoring Well Location



RCA-36 (Date 11-29-2001)	
Benzene	0.216 mg/L

RCA-40 (Date 11-29-2001)	
TPH	556,000 mg/L

RCA-4 (Date 12-4-2001) Removed	
Benzene	8.1 mg/L

B05W (Date 3-10-2000)	
Benzene	0.17 mg/L

VHB-22 (Date 2-25-2003)	
Benzene	0.485 mg/L
Naphthalene	8.9 mg/L

B01W (Date 3-01-2000)	
Benzene	0.22 mg/L
Naphthalene	3.6 mg/L

VHB-21 (Date 2-25-2003)	
Benzene	1.27 mg/L
Naphthalene	15.5 mg/L

VHB-23 (Date 2-25-2003)	
Benzene	0.142 mg/L
Naphthalene	3.18 mg/L

RCA-29 (Date 11-29-2001)	
TPH	579,000 mg/L
RCA-29 (Date 9-13-02)	
TPH	6,410 mg/L

VHB-7 (Date 6-20-2002)	
Naphthalene	22.2 mg/L

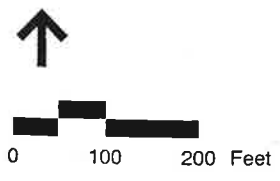
RW-1 (Date 9-13-2002)	
TPH	925,000 mg/L

RCA-28 (Date 11-29-2001)	
Benzene	0.177 mg/L

VHB-18 (Date 2-25-2003)	
Benzene	1.97 mg/L

E29W (Date 12-29-1999)	
Benzene	0.22 mg/L

VHB-10 (Date 6-27-2002)	
Benzene	0.185 mg/L
VHB-10 (Date 9-13-02)	
TPH	778 mg/L



**Vanasse Hangen Brustlin, Inc.**

Figure 8  
Groundwater Analytical Results that Exceeded RIDEM GB Criteria  
642 Allens Avenue  
Providence, Rhode Island



# Tables

**Table 1. Chain of Title Information.**

<b>Plat</b>	<b>Lot</b>	<b>Name</b>	<b>Date</b>
56	5	Providence Gas Company	June 15, 1918
	273	Providence Gas Company	December 1961
	316	Providence Gas Company	December, 1975
	317	Providence Gas Company	October 31, 1972
101	1	Providence Gas Company	May 1905

TABLE 2  
SUMMARY OF EXCEEDANCES  
OF SURFACE SOIL CRITERIA BY DETECTED CONSTITUENTS

Providence Gas Company  
642 Allens Avenue  
Providence, Rhode Island

Sample No.	Date Collected	Sample Depth Interval	Units	Constituent	Results	Surface Soil Remedial Objective
A01A1C01	2/3/00	00-02ft	mg/kg	Arsenic	7.6	7 (I)
A01A1C01	2/3/00	00-02ft	µg/kg	Benzo(a)pyrene	4,000	800 (I)
A01A1C01	2/3/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	960 J	800 (I)
A02A1C01	2/3/00	00-02ft	µg/kg	Benzo(a)anthracene	16,000	7,800 (I)
A02A1C01	2/3/00	00-02ft	µg/kg	Benzo(a)pyrene	15,000	800 (I)
A02A1C01	2/3/00	00-02ft	µg/kg	Benzo(b)fluoranthene	20,000	7,800 (I)
A02A1C01	2/3/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	2,900 J	800 (I)
A02A1C01	2/3/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	11,000	7,800 (I)
A03A1C01	3/2/00	00-02ft	µg/kg	Benzo(a)pyrene	2,900 J	800 (I)
A04A1C01	3/2/00	00-02ft	mg/kg	Arsenic	14	7 (I)
A05A1C01	3/2/00	00-02ft	mg/kg	Arsenic	9.7	7 (I)
A05A1C01	3/2/00	00-02ft	µg/kg	Benzo(a)pyrene	1,400 J	800 (I)
A06A1C01	3/3/00	00-02ft	mg/kg	Arsenic	44.8	7 (I)
A06A1C01	3/3/00	00-02ft	µg/kg	Benzo(a)pyrene	860 J	800 (I)
A07A1C01	3/3/00	00-02ft	mg/kg	Arsenic	12.3	7 (I)
A07A1C01	3/3/00	00-02ft	µg/kg	Benzo(a)pyrene	5,400	800 (I)
A07A1C01	3/3/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	930 J	800 (I)
A10A1C01	2/4/00	00-02ft	µg/kg	Benzo(a)pyrene	1,900 J	800 (I)
A12A1C01	3/3/00	00-02ft	mg/kg	TPH	3,600	2,500 (I)
A13A1C01	3/3/00	00-02ft	mg/kg	TPH	3,500	2,500 (I)
A15A1C01	2/3/00	00-02ft	µg/kg	Benzo(a)pyrene	1,400 J	800 (I)
A16A1C01	2/3/00	00-02ft	mg/kg	Arsenic	7.3	7 (I)
A16A1C01	2/3/00	00-02ft	µg/kg	Benzo(a)pyrene	1,400 J	800 (I)
A17A1C01	2/3/00	00-02ft	mg/kg	Arsenic	15.7	7 (I)
A19A1C01	2/4/00	00-02ft	mg/kg	Arsenic	13.9	7 (I)
A19A1C01	2/4/00	00-02ft	µg/kg	Benzo(a)pyrene	1,200 J	800 (I)
A22A1C01	2/8/00	00-02ft	µg/kg	Benzo(a)anthracene	45,000	7,800 (I)
A22A1C01	2/8/00	00-02ft	µg/kg	Benzo(a)pyrene	36,000	800 (I)
A22A1C01	2/8/00	00-02ft	µg/kg	Benzo(b)fluoranthene	53,000	7,800 (I)
A22A1C01	2/8/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	3,500 J	800 (I)
A22A1C01	2/8/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	15,000	7,800 (I)
A23A1C01	2/8/00	00-02ft	mg/kg	Arsenic	7.2	7 (I)
A24A1C01	2/9/00	00-02ft	µg/kg	Benzo(a)pyrene	2,800 J	800 (I)
A25A1C01	2/8/00	00-02ft	µg/kg	Benzo(a)anthracene	58,000 D	7,800 (I)
A25A1C01	2/8/00	00-02ft	µg/kg	Benzo(a)pyrene	45,000	800 (I)
A25A1C01	2/8/00	00-02ft	µg/kg	Benzo(b)fluoranthene	67,000 E	7,800 (I)
A25A1C01	2/8/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	4,000	800 (I)
A25A1C01	2/8/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	22,000 D	7,800 (I)
A26A1C01	2/8/00	00-02ft	µg/kg	Benzo(a)pyrene	1,600 J	800 (I)
A30A1C01	2/9/00	00-02ft	µg/kg	Benzo(a)pyrene	1,000 J	800 (I)
A33A1C01	2/8/00	00-02ft	mg/kg	Arsenic	7.3	7 (I)
A34A1C01	2/8/00	00-02ft	µg/kg	Benzo(a)pyrene	3,300 J	800 (I)
A36A1C01	2/8/00	00-02ft	µg/kg	Benzo(a)pyrene	860 J	800 (I)
A37A1C01	2/17/00	00-02ft	µg/kg	Benzo(a)pyrene	1,000 J	800 (I)
A38A1C01	2/9/00	00-02ft	mg/kg	Arsenic	26.5	7 (I)
A38A1C01	2/9/00	00-02ft	µg/kg	Benzo(a)pyrene	880 J	800 (I)
A38A1C01	2/9/00	00-02ft	mg/kg	Lead	661	500 (I)
A40A1C01	2/8/00	00-02ft	µg/kg	Benzo(a)anthracene	11,000	7,800 (I)
A40A1C01	2/8/00	00-02ft	µg/kg	Benzo(a)pyrene	9,000	800 (I)
A40A1C01	2/8/00	00-02ft	µg/kg	Benzo(b)fluoranthene	11,000	7,800 (I)
A40A1C01	2/8/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	930 J	800 (I)
A42A1C01	2/9/00	00-02ft	µg/kg	Benzo(a)anthracene	11,000	7,800 (I)
A42A1C01	2/9/00	00-02ft	µg/kg	Benzo(a)pyrene	9,600	800 (I)
A42A1C01	2/9/00	00-02ft	µg/kg	Benzo(b)fluoranthene	12,000	7,800 (I)
A42A1C01	2/9/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	1,500 J	800 (I)
A43A1C01	2/17/00	00-02ft	mg/kg	Arsenic	8.2	7 (I)

TABLE 2  
SUMMARY OF EXCEEDANCES  
OF SURFACE SOIL CRITERIA BY DETECTED CONSTITUENTS

Providence Gas Company  
642 Allens Avenue  
Providence, Rhode Island

Sample No.	Date Collected	Sample Depth Interval	Units	Constituent	Results	Surface Soil Remedial Objective
A44A1C01	2/17/00	00-02ft	mg/kg	Arsenic	7.7	7 (I)
A44A1C01	2/17/00	00-02ft	µg/kg	Benzo(a)anthracene	10,000	7,800 (I)
A44A1C01	2/17/00	00-02ft	µg/kg	Benzo(a)pyrene	9,500	800 (I)
A44A1C01	2/17/00	00-02ft	µg/kg	Benzo(b)fluoranthene	13,000	7,800 (I)
A44A1C01	2/17/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	1,500 J	800 (I)
A45A1C01	2/9/00	00-02ft	µg/kg	Benzo(a)pyrene	2,000 J	800 (I)
A46A1C01	2/10/00	00-02ft	µg/kg	Benzo(a)pyrene	4,600	800 (I)
A47A1C01	2/9/00	00-02ft	µg/kg	Benzo(a)anthracene	760,000 EJ	7,800 (I)
A47A1C01	2/9/00	00-02ft	µg/kg	Benzo(a)pyrene	620,000 EJ	800 (I)
A47A1C01	2/9/00	00-02ft	µg/kg	Benzo(b)fluoranthene	740,000 EJ	7,800 (I)
A47A1C01	2/9/00	00-02ft	µg/kg	Benzo(k)fluoranthene	280,000 J	78,000 (I)
A47A1C01	2/9/00	00-02ft	µg/kg	Carbazole	290,000 J	286,000 (I)
A47A1C01	2/9/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	100,000 J	800 (I)
A47A1C01	2/9/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	360,000 J	7,800 (I)
A47A1C01	2/9/00	00-02ft	mg/kg	TPH	5,900	2,500 (I)
A48A1C01	2/9/00	00-02ft	µg/kg	Benzo(a)pyrene	1,100 J	800 (I)
A52A1C01	2/9/00	00-02ft	µg/kg	Benzo(a)pyrene	1,200 J	800 (I)
A53A1C01	2/9/00	00-02ft	µg/kg	Benzo(a)pyrene	2,200 J	800 (I)
A54A1C01	2/10/00	00-02ft	µg/kg	Benzo(a)pyrene	2,400 J	800 (I)
A56A1C01	2/9/00	00-02ft	µg/kg	Benzo(a)pyrene	3,800	800 (I)
B04A1C01	1/27/00	00-02ft	µg/kg	Benzo(a)pyrene	2,400.00 J	800 (I)
B08A1C01	1/27/00	00-02ft	µg/kg	Benzo(a)pyrene	6,600.00	800 (I)
B08A1C01	1/27/00	00-02ft	µg/kg	Benzo(b)fluoranthene	8,700.00	7,800 (I)
B08A1C01	1/27/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	1,500.00 J	800 (I)
B09A1C01	1/27/00	00-02ft	µg/kg	Benzo(a)pyrene	1,100.00 J	800 (I)
B10A1C01	1/27/00	00-02ft	µg/kg	Benzo(a)anthracene	9,100.00	7,800 (I)
B10A1C01	1/27/00	00-02ft	µg/kg	Benzo(a)pyrene	6,700.00	800 (I)
B10A1C01	1/27/00	00-02ft	µg/kg	Benzo(b)fluoranthene	11,000.00	7,800 (I)
B10A1C01	1/27/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	1,200.00 J	800 (I)
B13A1C01	1/27/00	00-02ft	µg/kg	Benzo(a)anthracene	25,000.00	7,800 (I)
B13A1C01	1/27/00	00-02ft	µg/kg	Benzo(a)pyrene	20,000.00	800 (I)
B13A1C01	1/27/00	00-02ft	µg/kg	Benzo(b)fluoranthene	26,000.00	7,800 (I)
B13A1C01	1/27/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	3,400.00 J	800 (I)
B13A1C01	1/27/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	10,000.00	7,800 (I)
B14A1C01	1/27/00	00-02ft	µg/kg	Benzo(a)anthracene	48,000.00	7,800 (I)
B14A1C01	1/27/00	00-02ft	µg/kg	Benzo(a)pyrene	28,000.00	800 (I)
B14A1C01	1/27/00	00-02ft	µg/kg	Benzo(b)fluoranthene	33,000.00	7,800 (I)
B14A1C01	1/27/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	5,600.00 J	800 (I)
B14A1C01	1/27/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	12,000.00 J	7,800 (I)
B17A1C01	1/31/00	00-02ft	mg/kg	Arsenic	14.10	7 (I)
B17A1C01	1/31/00	00-02ft	µg/kg	Benzo(a)pyrene	2,100.00 J	800 (I)
B17A1C01	1/31/00	00-02ft	mg/kg	Lead	895.00	500 (I)
B19A1C01	1/27/00	00-02ft	µg/kg	Benzo(a)pyrene	2,000.00 J	800 (I)
B20A1C01	1/31/00	00-02ft	µg/kg	Benzo(a)pyrene	2,600.00 J	800 (I)
B21A1C01	1/31/00	00-02ft	mg/kg	Arsenic	13.50	7 (I)
B21A1C01	1/31/00	00-02ft	µg/kg	Benzo(a)anthracene	21,000.00	7,800 (I)
B21A1C01	1/31/00	00-02ft	µg/kg	Benzo(a)pyrene	32,000.00	800 (I)
B21A1C01	1/31/00	00-02ft	µg/kg	Benzo(b)fluoranthene	50,000.00	7,800 (I)
B21A1C01	1/31/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	7,800.00	800 (I)
B21A1C01	1/31/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	27,000.00	7,800 (I)
B21A1C01	1/31/00	00-02ft	mg/kg	TPH	2,800.00	2,500 (I)
B22A1C01	1/31/00	00-02ft	µg/kg	Benzo(a)anthracene	15,000.00	7,800 (I)
B22A1C01	1/31/00	00-02ft	µg/kg	Benzo(a)pyrene	14,000.00	800 (I)
B22A1C01	1/31/00	00-02ft	µg/kg	Benzo(b)fluoranthene	16,000.00	7,800 (I)
B22A1C01	1/31/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	1,900.00 J	800 (I)
B24A1C01	2/1/00	00-02ft	µg/kg	Benzo(a)pyrene	1,200.00 J	800 (I)
B25A1C01	2/1/00	00-02ft	mg/kg	Arsenic	9.30	7 (I)
B25A1C01	2/1/00	00-02ft	µg/kg	Benzo(a)pyrene	1,300.00 J	800 (I)
B26A1C01	2/3/00	00-02ft	µg/kg	Benzo(a)pyrene	3,400.00 J	800 (I)

TABLE 2  
SUMMARY OF EXCEEDANCES  
OF SURFACE SOIL CRITERIA BY DETECTED CONSTITUENTS

Providence Gas Company  
642 Allens Avenue  
Providence, Rhode Island

Sample No.	Date Collected	Sample Depth Interval	Units	Constituent	Results	Surface Soil Remedial Objective
B34A1C01	2/23/00	00-02ft	µg/kg	Benzo(a)pyrene	960.00 J	800 [1]
B36A1C01	2/22/00	00-02ft	mg/kg	Arsenic	13.80	7 [1]
B36A1C01	2/22/00	00-02ft	µg/kg	Benzo(a)pyrene	2,900.00 J	800 [1]
B37A1C01	3/2/00	00-02ft	µg/kg	Benzo(a)pyrene	2,400.00 J	800 [1]
B38A1C01	2/22/00	00-02ft	µg/kg	Benzo(a)anthracene	10,000.00	7,800 [1]
B38A1C01	2/22/00	00-02ft	µg/kg	Benzo(a)pyrene	7,500.00	800 [1]
B38A1C01	2/22/00	00-02ft	µg/kg	Benzo(b)fluoranthene	12,000.00	7,800 [1]
B38A1C01	2/22/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	1,900.00 J	800 [1]
B41A1C01	3/1/00	00-02ft	µg/kg	Benzo(a)pyrene	1,100.00 J	800 [1]
B42A1C01	2/22/00	00-02ft	µg/kg	Benzo(a)anthracene	11,000.00	7,800 [1]
B42A1C01	2/22/00	00-02ft	µg/kg	Benzo(a)pyrene	7,400.00	800 [1]
B42A1C01	2/22/00	00-02ft	µg/kg	Benzo(b)fluoranthene	9,900.00	7,800 [1]
B42A1C01	2/22/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	1,600.00 J	800 [1]
B43A1C01	2/22/00	00-02ft	mg/kg	Arsenic	7.60	7 [1]
B43A1C01	2/22/00	00-02ft	µg/kg	Benzo(a)pyrene	1,900.00 J	800 [1]
B44A1C01	2/22/00	00-02ft	µg/kg	Benzo(a)anthracene	10,000.00	7,800 [1]
B44A1C01	2/22/00	00-02ft	µg/kg	Benzo(a)pyrene	9,500.00	800 [1]
B44A1C01	2/22/00	00-02ft	µg/kg	Benzo(b)fluoranthene	14,000.00	7,800 [1]
B44A1C01	2/22/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	2,000.00 J	800 [1]
B47A1C01	2/18/00	00-02ft	µg/kg	Benzo(a)pyrene	1,400.00 J	800 [1]
B48A1C01	2/22/00	00-02ft	mg/kg	Arsenic	9.10	7 [1]
B49A1C01	2/18/00	00-02ft	µg/kg	Benzo(a)pyrene	3,000.00 J	800 [1]
B50A1C01	3/7/00	00-02ft	mg/kg	Arsenic	11.70	7 [1]
B50A1C01	3/7/00	00-02ft	µg/kg	Benzo(a)pyrene	3,400.00 J	800 [1]
B52A1C01 [4]	2/18/00	00-02ft	mg/kg	Beryllium	14.20	1 [2]
B53A1C01	2/18/00	00-02ft	µg/kg	Benzo(a)pyrene	1,800.00 J	800 [1]
B54A1C01	2/18/00	00-02ft	µg/kg	Benzo(a)pyrene	3,500.00 J	800 [1]
B54A1C01	2/18/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	950.00 J	800 [1]
B56A1C01	2/18/00	00-02ft	mg/kg	Arsenic	8.40	7 [1]
B56A1C01	2/18/00	00-02ft	µg/kg	Benzo(a)anthracene	8,700.00	7,800 [1]
B56A1C01	2/18/00	00-02ft	µg/kg	Benzo(a)pyrene	6,700.00	800 [1]
B56A1C01	2/18/00	00-02ft	µg/kg	Benzo(b)fluoranthene	8,600.00	7,800 [1]
B56A1C01	2/18/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	1,400.00 J	800 [1]
B59A1C01	2/18/00	00-02ft	µg/kg	Benzo(a)pyrene	830.00 J	800 [1]
B60A1C01	2/18/00	00-02ft	mg/kg	Arsenic	8.00	7 [1]
B62A1C01	2/16/00	00-02ft	mg/kg	Beryllium	2.10	1 [2]
B64A1C01	2/18/00	00-02ft	µg/kg	Benzo(a)pyrene	1,900.00 J	800 [1]
B65A1C01	2/18/00	00-02ft	µg/kg	Benzo(a)anthracene	32,000.00	7,800 [1]
B65A1C01	2/18/00	00-02ft	µg/kg	Benzo(a)pyrene	20,000.00	800 [1]
B65A1C01	2/18/00	00-02ft	µg/kg	Benzo(b)fluoranthene	23,000.00	7,800 [1]
B65A1C01	2/18/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	4,400.00	800 [1]
B65A1C01	2/18/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	10,000.00	7,800 [1]
B66A1C01	2/18/00	00-02ft	µg/kg	Benzo(a)pyrene	960.00 J	800 [1]
C05A1C01	1/11/00	00-02ft	mg/kg	Arsenic	23.7	7 [1]
C05A1C01	1/11/00	00-02ft	µg/kg	Benzo(a)pyrene	11,000	800 [1]
C05A1C01	1/11/00	00-02ft	µg/kg	Benzo(b)fluoranthene	16,000	7,800 [1]
C05A1C01	1/11/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	8,100	7,800 [1]
C05A1C01	1/11/00	00-02ft	mg/kg	Lead	530	500 [1]
C06A1C01	1/11/00	00-02ft	mg/kg	Arsenic	14.5	7 [1]
C06A1C01	1/11/00	00-02ft	µg/kg	Benzo(a)pyrene	33,000	800 [1]
C06A1C01	1/11/00	00-02ft	µg/kg	Benzo(b)fluoranthene	50,000	7,800 [1]
C06A1C01	1/11/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	23,000	7,800 [1]
C09A1C01	1/11/00	00-02ft	µg/kg	Benzo(a)pyrene	1,100 J	800 [1]
C19A1C01	12/13/99	00-02ft	mg/kg	Arsenic	10	7 [1]
C19A1C01	12/13/99	00-02ft	µg/kg	Benzo(a)pyrene	1,100	800 [1]
C20A1C01	12/14/99	00-02ft	mg/kg	Arsenic	8.3	7 [1]
C21A1C01	12/14/99	00-02ft	µg/kg	Benzo(a)pyrene	1,600	800 [1]
C23A1C01	2/15/00	00-02ft	mg/kg	Arsenic	7.4	7 [1]
C23A1C01	2/15/00	00-02ft	µg/kg	Benzo(a)pyrene	1,800 J	800 [1]

Footnotes at End of Table  
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TABLE 2  
SUMMARY OF EXCEEDANCES  
OF SURFACE SOIL CRITERIA BY DETECTED CONSTITUENTS

Providence Gas Company  
642 Allens Avenue  
Providence, Rhode Island

Sample No.	Date Collected	Sample Depth Interval	Units	Constituent	Results	Surface Soil Remedial Objective
C24A1C01	2/15/00	00-02ft	µg/kg	Benzo(a)pyrene	3,000 J	800 (1)
C25A1C01	2/24/00	00-02ft	µg/kg	Benzo(a)pyrene	1,000 J	800 (1)
C27A1C01	2/15/00	00-02ft	mg/kg	Arsenic	9.9	7 (1)
C27A1C01	2/15/00	00-02ft	µg/kg	Benzo(a)pyrene	1,200 J	800 (1)
C28A1C01	2/15/00	00-02ft	mg/kg	Arsenic	7.2	7 (1)
C29A1C01	2/15/00	00-02ft	µg/kg	Benzo(a)pyrene	1,400 J	800 (1)
C33A1C01	2/24/00	00-02ft	µg/kg	Benzo(a)pyrene	1,100 J	800 (1)
C34A1C01	2/24/00	00-02ft	mg/kg	Lead	2,920	500 (1)
C35A1C01	2/15/00	00-02ft	mg/kg	Arsenic	9.5	7 (1)
C37A1C01	2/15/00	00-02ft	mg/kg	Arsenic	9.5	7 (1)
C51A1C01	2/16/00	00-02ft	µg/kg	Benzo(a)anthracene	13,000	7,800 (1)
C51A1C01	2/16/00	00-02ft	µg/kg	Benzo(a)pyrene	11,000	800 (1)
C51A1C01	2/16/00	00-02ft	µg/kg	Benzo(b)fluoranthene	15,000	7,800 (1)
C51A1C01	2/16/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	3,000 J	800 (1)
C51A1C01	2/16/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	9,400	7,800 (1)
C56A1C01	2/16/00	00-02ft	µg/kg	Benzo(a)pyrene	1,500 J	800 (1)
C58A1C01	2/16/00	00-02ft	mg/kg	Arsenic	8	7 (1)
C58A1C01	2/16/00	00-02ft	µg/kg	Benzo(a)anthracene	12,000	7,800 (1)
C58A1C01	2/16/00	00-02ft	µg/kg	Benzo(a)pyrene	9,600	800 (1)
C58A1C01	2/16/00	00-02ft	µg/kg	Benzo(b)fluoranthene	11,000	7,800 (1)
C58A1C01	2/16/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	2,800 J	800 (1)
C58A1C01	2/16/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	8,000	7,800 (1)
C59A1C01	2/16/00	00-02ft	mg/kg	Arsenic	8.9	7 (1)
C59A1C01	2/16/00	00-02ft	µg/kg	Benzo(a)anthracene	8,600	7,800 (1)
C59A1C01	2/16/00	00-02ft	µg/kg	Benzo(a)pyrene	5,500	800 (1)
C59A1C01	2/16/00	00-02ft	µg/kg	Benzo(b)fluoranthene	10,000	7,800 (1)
C59A1C01	2/16/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	1,700 J	800 (1)
C64A1C01	2/11/00	00-02ft	mg/kg	Arsenic	11	7 (1)
C64A1C01	2/11/00	00-02ft	µg/kg	Benzo(a)pyrene	2,200 J	800 (1)
C65A1C01	2/11/00	00-02ft	µg/kg	Benzo(a)pyrene	1,300 J	800 (1)
C72A1C01	2/11/00	00-02ft	µg/kg	Benzo(a)pyrene	1,200 J	800 (1)
C76A1C01	2/10/00	00-02ft	µg/kg	Benzo(a)pyrene	3,100 J	800 (1)
C77A1C01	2/10/00	00-02ft	µg/kg	Benzo(a)pyrene	6,000 J	800 (1)
C77A1C01	2/10/00	00-02ft	µg/kg	Benzo(b)fluoranthene	8,700 J	7,800 (1)
C80A1C01	2/10/00	00-02ft	µg/kg	Benzo(a)pyrene	2,500 J	800 (1)
C81A1C01	2/10/00	00-02ft	µg/kg	Benzo(a)anthracene	23,000	7,800 (1)
C81A1C01	2/10/00	00-02ft	µg/kg	Benzo(a)pyrene	18,000	800 (1)
C81A1C01	2/10/00	00-02ft	µg/kg	Benzo(b)fluoranthene	24,000	7,800 (1)
C81A1C01	2/10/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	1,400 J	800 (1)
D03A1C01	11/17/99	00-02ft	mg/kg	Arsenic	9 *	7 (1)
D03A1C01	11/17/99	00-02ft	µg/kg	Benzo(a)pyrene	1,200	800 (1)
D04A1C01	11/17/99	00-02ft	µg/kg	Benzo(a)pyrene	3,300	800 (1)
D07A1C01	11/17/99	00-02ft	mg/kg	Arsenic	7.4 *	7 (1)
D07A1C01	11/17/99	00-02ft	mg/kg	Lead	930	500 (1)
D08A1C01	11/17/99	00-02ft	µg/kg	Benzo(a)pyrene	1,600	800 (1)
D09A1C01	11/17/99	00-02ft	mg/kg	Arsenic	22.3 *	7 (1)
D10A1C01	11/17/99	00-02ft	µg/kg	Benzo(a)pyrene	1,000	800 (1)
D13A1C01	11/18/99	00-02ft	mg/kg	Arsenic	10	7 (1)
D13A1C01	11/18/99	00-02ft	µg/kg	Benzo(a)pyrene	1,500 J	800 (1)
D14A1C01	11/18/99	00-02ft	mg/kg	Arsenic	8.1	7 (1)
D15A1C01	11/18/99	00-02ft	mg/kg	Arsenic	7.5	7 (1)
D16A1C01	11/29/99	00-02ft	mg/kg	Arsenic	10	7 (1)
D16A1C01	11/29/99	00-02ft	µg/kg	Benzo(a)pyrene	7,100	800 (1)
D16A1C01	11/29/99	00-02ft	µg/kg	Benzo(b)fluoranthene	10,000	7,800 (1)
D16A1C01	11/29/99	00-02ft	µg/kg	Dibenzo(a,h)anthracene	1,400 J	800 (1)
D17A1C01	11/29/99	00-02ft	mg/kg	Arsenic	8.9	7 (1)
D17A1C01	11/29/99	00-02ft	µg/kg	Benzo(a)pyrene	5,000	800 (1)
D18A1C01	11/29/99	00-02ft	mg/kg	Arsenic	14.8	7 (1)
D18A1C01	11/29/99	00-02ft	mg/kg	Lead	976	500 (1)

TABLE 2  
SUMMARY OF EXCEEDANCES  
OF SURFACE SOIL CRITERIA BY DETECTED CONSTITUENTS

Providence Gas Company  
642 Allens Avenue  
Providence, Rhode Island

Sample No.	Date Collected	Sample Depth Interval	Units	Constituent	Results	Surface Soil Remedial Objective
D21A1C01	11/30/99	00-02ft	µg/kg	Benzo(a)pyrene	960	800 [1]
D22A1C01	11/30/99	00-02ft	mg/kg	Arsenic	9	7 [1]
D23A1C01	11/30/99	00-02ft	mg/kg	Arsenic	7.5	7 [1]
D24A1C01	11/30/99	00-02ft	mg/kg	Arsenic	13.5	7 [1]
D28A1C01	12/1/99	00-02ft	µg/kg	Benzo(a)pyrene	1,600	800 [1]
D30A1C01	12/1/99	00-02ft	mg/kg	Arsenic	7.2	7 [1]
D30A1C01	12/1/99	00-02ft	µg/kg	Benzo(a)pyrene	1,500	800 [1]
D31A1C01	12/1/99	00-02ft	µg/kg	Benzo(a)pyrene	1,500	800 [1]
D35A1C01	12/2/99	00-02ft	µg/kg	Benzo(a)pyrene	1,200	800 [1]
D36A1C01	12/2/99	00-02ft	µg/kg	Benzo(a)pyrene	7,200	800 [1]
D36A1C01	12/2/99	00-02ft	µg/kg	Benzo(b)fluoranthene	13,000	7,800 [1]
D36A1C01	12/2/99	00-02ft	µg/kg	Dibenzo(a,h)anthracene	1,900	800 [1]
D38A1C01	12/3/99	00-02ft	mg/kg	Arsenic	14.5	7 [1]
D41A1C01	12/3/99	00-02ft	mg/kg	Arsenic	10	7 [1]
D41A1C01	12/3/99	00-02ft	µg/kg	Benzo(a)pyrene	1,900	800 [1]
D41A1C01	12/3/99	00-02ft	mg/kg	Lead	714	500 [1]
D45A1C01	12/6/99	00-02ft	µg/kg	Benzo(a)pyrene	2,600	800 [1]
D46A1C01	12/6/99	00-02ft	µg/kg	Benzo(a)pyrene	3,400	800 [1]
D47A1C01	12/6/99	00-02ft	µg/kg	Benzo(a)pyrene	950	800 [1]
D48A1C01	12/6/99	00-02ft	µg/kg	Aldrin	340 PEJ	300 [2]
D48A1C01	12/6/99	00-02ft	µg/kg	Aldrin	450 PDJ	300 [2]
D48A1C01	12/6/99	00-02ft	µg/kg	Aroclor-1242	140,000 J	10,000 [1]
D49A1C01	12/6/99	00-02ft	mg/kg	Lead	852	500 [1]
D50A1C01	12/7/99	00-02ft	mg/kg	Lead	655	500 [1]
D52A1C01	12/7/99	00-02ft	mg/kg	Arsenic	10	7 [1]
D52A1C01	12/7/99	00-02ft	µg/kg	Benzo(a)anthracene	640,000 E	7,800 [1]
D52A1C01	12/7/99	00-02ft	µg/kg	Benzo(a)pyrene	240,000 E	800 [1]
D52A1C01	12/7/99	00-02ft	µg/kg	Benzo(b)fluoranthene	330,000 E	7,800 [1]
D52A1C01	12/7/99	00-02ft	µg/kg	Benzo(k)fluoranthene	120,000 E	78,000 [1]
D52A1C01	12/7/99	00-02ft	mg/kg	Beryllium	1.7	1 [2]
D52A1C01	12/7/99	00-02ft	µg/kg	Dibenzo(a,h)anthracene	43,000	800 [1]
D52A1C01	12/7/99	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	160,000 E	7,800 [1]
D52A1C01	12/7/99	00-02ft	mg/kg	Lead	607	500 [1]
D52A1C01	12/7/99	00-02ft	mg/kg	TPH	34,000	2,500 [1]
D53A1C01	12/7/99	00-02ft	µg/kg	Aldrin	360 PEJ	300 [2]
D53A1C01	12/7/99	00-02ft	mg/kg	Arsenic	10	7 [1]
D53A1C01	12/7/99	00-02ft	µg/kg	Benzo(a)anthracene	320,000 E	7,800 [1]
D53A1C01	12/7/99	00-02ft	µg/kg	Benzo(a)pyrene	110,000 E	800 [1]
D53A1C01	12/7/99	00-02ft	µg/kg	Benzo(b)fluoranthene	200,000 E	7,800 [1]
D53A1C01	12/7/99	00-02ft	µg/kg	Benzo(k)fluoranthene	86,000 E	78,000 [1]
D53A1C01	12/7/99	00-02ft	µg/kg	Dibenzo(a,h)anthracene	27,000	800 [1]
D53A1C01	12/7/99	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	90,000 E	7,800 [1]
D53A1C01	12/7/99	00-02ft	mg/kg	Lead	1,540	500 [1]
D53A1C01	12/7/99	00-02ft	µg/kg	Naphthalene	29,000,000 E	10,000,000 [1]
D53A1C01	12/7/99	00-02ft	mg/kg	TPH	38,000	2,500 [1]
D55A1C01	12/8/99	00-02ft	mg/kg	Beryllium	1.4	1 [2]
D56A1C01	12/8/99	00-02ft	µg/kg	Benzo(a)pyrene	1,000	800 [1]
D56A1C01	12/8/99	00-02ft	mg/kg	TPH	2,800	2,500 [1]
D58A1C01	12/8/99	00-02ft	µg/kg	Benzo(a)pyrene	3,400	800 [1]
D61A1C01	12/9/99	00-02ft	mg/kg	Arsenic	22	7 [1]
D61A1C01	12/9/99	00-02ft	µg/kg	Benzo(a)anthracene	22,000	7,800 [1]
D61A1C01	12/9/99	00-02ft	µg/kg	Benzo(a)pyrene	30,000	800 [1]
D61A1C01	12/9/99	00-02ft	µg/kg	Benzo(b)fluoranthene	44,000	7,800 [1]
D61A1C01	12/9/99	00-02ft	µg/kg	Dibenzo(a,h)anthracene	8,000	800 [1]
D61A1C01	12/9/99	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	32,000	7,800 [1]



TABLE 2  
SUMMARY OF EXCEEDANCES  
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Providence Gas Company  
642 Allens Avenue  
Providence, Rhode Island

Sample No.	Date Collected	Sample Depth Interval	Units	Constituent	Results	Surface Soil Remedial Objective
D62A1C01	12/9/99	00-02ft	µg/kg	Benzo(a)anthracene	24,000	7,800 [1]
D62A1C01	12/9/99	00-02ft	µg/kg	Benzo(a)pyrene	28,000	800 [1]
D62A1C01	12/9/99	00-02ft	µg/kg	Benzo(b)fluoranthene	41,000	7,800 [1]
D62A1C01	12/9/99	00-02ft	µg/kg	Dibenzo(a,h)anthracene	5,800	800 [1]
D62A1C01	12/9/99	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	21,000	7,800 [1]
D63A1C01	12/9/99	00-02ft	mg/kg	Arsenic	49.9	7 [1]
D63A1C01	12/9/99	00-02ft	µg/kg	Benzo(a)anthracene	2,800,000 EJ	7,800 [1]
D63A1C01	12/9/99	00-02ft	µg/kg	Benzo(a)pyrene	1,800,000 J	800 [1]
D63A1C01	12/9/99	00-02ft	µg/kg	Benzo(b)fluoranthene	2,100,000 J	7,800 [1]
D63A1C01	12/9/99	00-02ft	µg/kg	Benzo(k)fluoranthene	840,000 J	78,000 [1]
D63A1C01	12/9/99	00-02ft	µg/kg	Carbazole	1,600,000 J	286,000 [3]
D63A1C01	12/9/99	00-02ft	µg/kg	Chrysene	2,300,000 EJ	780,000 [1]
D63A1C01	12/9/99	00-02ft	µg/kg	Dibenzo(a,h)anthracene	260,000 J	800 [1]
D63A1C01	12/9/99	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	810,000 J	7,800 [1]
D63A1C01	12/9/99	00-02ft	mg/kg	Lead	4,830	500 [1]
D63A1C01	12/9/99	00-02ft	µg/kg	Naphthalene	31,000,000 EJ	10,000,000 [1]
D63A1C01	12/9/99	00-02ft	µg/kg	Naphthalene (VOC)	12,000,000 EB	10,000,000 [1]
D63A1C01	12/9/99	00-02ft	mg/kg	TPH	190,000	2,500 [1]
D65A1C01	12/11/99	00-02ft	mg/kg	Arsenic	25.2	7 [1]
D65A1C01	12/11/99	00-02ft	µg/kg	Benzo(a)pyrene	840	800 [1]
D67A1C01	12/22/99	00-02ft	µg/kg	Benzo(a)pyrene	1,300	800 [1]
D67A1C01	12/22/99	00-02ft	mg/kg	Lead	591	500 [1]
D69A1C01	12/23/99	00-02ft	µg/kg	Benzo(a)pyrene	1,600	800 [1]
D70A1C01	12/23/99	00-02ft	µg/kg	Benzo(a)pyrene	4,500	800 [1]
D73A1C01	2/1/00	00-02ft	µg/kg	Benzo(a)pyrene	4,300	800 [1]
D73A1C01	2/1/00	00-02ft	µg/kg	Benzo(b)fluoranthene	8,400	7,800 [1]
D73A1C01	2/1/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	940 J	800 [1]
D74A1C01	1/26/00	00-02ft	µg/kg	Benzo(a)pyrene	2,000 J	800 [1]
D75A1C01	1/28/00	00-02ft	µg/kg	Benzo(a)pyrene	3,000 J	800 [1]
D76A1C01	1/26/00	00-02ft	µg/kg	Benzo(a)pyrene	7,900	800 [1]
D76A1C01	1/26/00	00-02ft	µg/kg	Benzo(b)fluoranthene	10,000	7,800 [1]
D76A1C01	1/26/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	1,300 J	800 [1]
D77A1C01	1/26/00	00-02ft	mg/kg	Arsenic	37.7	7 [1]
D77A1C01	1/26/00	00-02ft	µg/kg	Benzo(a)pyrene	3,400 J	800 [1]
D77A1C01	1/26/00	00-02ft	mg/kg	Beryllium	1.7	1 [2]
D78A1C01	1/26/00	00-02ft	µg/kg	Benzo(a)anthracene	14,000	7,800 [1]
D78A1C01	1/26/00	00-02ft	µg/kg	Benzo(a)pyrene	10,000	800 [1]
D78A1C01	1/26/00	00-02ft	µg/kg	Benzo(b)fluoranthene	16,000	7,800 [1]
D78A1C01	1/26/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	2,000 J	800 [1]
D79A1C01	1/26/00	00-02ft	µg/kg	Benzo(a)pyrene	1,900 J	800 [1]
D80A1C01	1/26/00	00-02ft	µg/kg	Benzo(a)pyrene	1,400 J	800 [1]
D81A1C01	1/19/00	00-02ft	mg/kg	Arsenic	21.2	7 [1]
D82A1C01	1/28/00	00-02ft	mg/kg	Arsenic	13.2	7 [1]
D82A1C01	1/28/00	00-02ft	µg/kg	Benzo(a)anthracene	28,000	7,800 [1]
D82A1C01	1/28/00	00-02ft	µg/kg	Benzo(a)pyrene	19,000	800 [1]
D82A1C01	1/28/00	00-02ft	µg/kg	Benzo(b)fluoranthene	36,000	7,800 [1]
D82A1C01	1/28/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	9,500	7,800 [1]
D84A1C01	1/25/00	00-02ft	mg/kg	Arsenic	7.3	7 [1]
D84A1C01	1/25/00	00-02ft	µg/kg	Benzo(a)pyrene	2,700 J	800 [1]
D86A1C01	2/2/00	00-02ft	mg/kg	Arsenic	9.1	7 [1]
D86A1C01	2/2/00	00-02ft	µg/kg	Benzo(a)pyrene	1,800 J	800 [1]
D87A1C01	1/25/00	00-02ft	mg/kg	Arsenic	9	7 [1]
D87A1C01	1/25/00	00-02ft	µg/kg	Benzo(a)pyrene	1,600 J	800 [1]
D88A1C01	1/25/00	00-02ft	mg/kg	Arsenic	8	7 [1]
D88A1C01	1/25/00	00-02ft	µg/kg	Benzo(a)anthracene	15,000	7,800 [1]
D88A1C01	1/25/00	00-02ft	µg/kg	Benzo(a)pyrene	13,000	800 [1]
D88A1C01	1/25/00	00-02ft	µg/kg	Benzo(b)fluoranthene	11,000	7,800 [1]
D88A1C01	1/25/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	2,100 J	800 [1]

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Providence Gas Company  
642 Allens Avenue  
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Sample No.	Date Collected	Sample Depth Interval	Units	Constituent	Results	Surface Soil Remedial Objective
D89A1C01	1/28/00	00-02ft	mg/kg	Arsenic	8.6	7 [1]
D89A1C01	1/28/00	00-02ft	µg/kg	Benzo(a)pyrene	1,700 J	800 [1]
D89A1C01	1/28/00	00-02ft	mg/kg	Beryllium	1.4	1 [2]
D90A1C01	1/28/00	00-02ft	µg/kg	Benzo(a)anthracene	34,000	7,800 [1]
D90A1C01	1/28/00	00-02ft	µg/kg	Benzo(a)pyrene	28,000	800 [1]
D90A1C01	1/28/00	00-02ft	µg/kg	Benzo(b)fluoranthene	36,000	7,800 [1]
D90A1C01	1/28/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	2,800 J	800 [1]
D90A1C01	1/28/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	8,400	7,800 [1]
D92A1C01	1/28/00	00-02ft	µg/kg	Benzo(a)pyrene	4,000	800 [1]
D93A1C01	1/28/00	00-02ft	mg/kg	Arsenic	7.2	7 [1]
D94A1C01	1/28/00	00-02ft	µg/kg	Benzo(a)pyrene	1,600 J	800 [1]
D95A1C01	3/7/00	00-02ft	mg/kg	Arsenic	11.1	7 [1]
D95A1C01	3/7/00	00-02ft	µg/kg	Benzo(a)anthracene	70,000 D	7,800 [1]
D95A1C01	3/7/00	00-02ft	µg/kg	Benzo(a)pyrene	74,000 D	800 [1]
D95A1C01	3/7/00	00-02ft	µg/kg	Benzo(b)fluoranthene	110,000 D	7,800 [1]
D95A1C01	3/7/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	18,000	800 [1]
D95A1C01	3/7/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	64,000 E	7,800 [1]
E01A1C01	12/11/99	00-02ft	µg/kg	Benzo(a)pyrene	3,300	800 [1]
E08A1C01	12/14/99	00-02ft	mg/kg	Arsenic	15.1	7 [1]
E09A1C01	12/14/99	00-02ft	mg/kg	TPH	3,000	2,500 [1]
E10A1C01	12/14/99	00-02ft	mg/kg	Arsenic	8.3	7 [1]
E11A1C01	12/14/99	00-02ft	mg/kg	Arsenic	7.3	7 [1]
E12A1C01	12/14/99	00-02ft	mg/kg	Arsenic	10.9	7 [1]
E12A1C01	12/14/99	00-02ft	mg/kg	Lead	515	500 [1]
E13A1C01	12/14/99	00-02ft	µg/kg	Benzo(a)pyrene	1,400	800 [1]
E15A1C01	12/15/99	00-02ft	mg/kg	Arsenic	7.6	7 [1]
E16A1C01	12/15/99	00-02ft	mg/kg	Arsenic	8.9	7 [1]
E17A1C01	12/15/99	00-02ft	mg/kg	Arsenic	7.7	7 [1]
E18A1C01	12/15/99	00-02ft	mg/kg	Arsenic	7.2	7 [1]
E19A1C01	12/15/99	00-02ft	mg/kg	Arsenic	15.4	7 [1]
E20A1C01	12/15/99	00-02ft	mg/kg	Arsenic	7.9	7 [1]
E20A1C01	12/15/99	00-02ft	mg/kg	Lead	711	500 [1]
E23A1C01	12/16/99	00-02ft	mg/kg	Arsenic	7.6	7 [1]
E24A1C01	12/16/99	00-02ft	mg/kg	Lead	2,770	500 [1]
E25A1C01	12/17/99	00-02ft	mg/kg	Lead	1,320	500 [1]
E26A1C01	12/17/99	00-02ft	µg/kg	Benzo(a)pyrene	1,100	800 [1]
E26A1C01	12/17/99	00-02ft	mg/kg	Lead	542	500 [1]
E27A1C01	12/20/99	00-02ft	µg/kg	Benzo(a)pyrene	840	800 [1]
E28A1C01 [5]	12/20/99	00-02ft	mg/kg	Lead	9,280	500 [1]
E28A1C01 [5]	12/20/99	00-02ft	mg/kg	Lead	3,030	500 [1]
E29A1C01	12/17/99	00-02ft	mg/kg	Arsenic	7.6	7 [1]
E29A1C01	12/17/99	00-02ft	mg/kg	Lead	938	500 [1]
E32A1C01	12/16/99	00-02ft	mg/kg	Arsenic	8.4	7 [1]
E32A1C01	12/16/99	00-02ft	mg/kg	Lead	1,800	500 [1]
E33A1C01	12/20/99	00-02ft	mg/kg	Arsenic	7.7	7 [1]
E33A1C01	12/20/99	00-02ft	µg/kg	Benzo(a)pyrene	2,300	800 [1]
E36A1C01	12/21/99	00-02ft	µg/kg	Benzo(a)pyrene	1,400	800 [1]
E36A1C01	12/21/99	00-02ft	mg/kg	Lead	1,450	500 [1]
E37A1C01	1/26/00	00-02ft	µg/kg	Benzo(a)pyrene	2,900 J	800 [1]
E37A1C01	1/26/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	990 J	800 [1]
E37A1C01	1/26/00	00-02ft	mg/kg	Lead	517	500 [1]
E38A1C01	12/21/99	00-02ft	mg/kg	Arsenic	11.5	7 [1]
E38A1C01	12/21/99	00-02ft	µg/kg	Benzo(a)pyrene	1,100	800 [1]
E39A1C01	1/26/00	00-02ft	µg/kg	Benzo(a)pyrene	2,200 J	800 [1]
E40A1C01	12/21/99	00-02ft	µg/kg	Benzo(a)anthracene	12,000	7,800 [1]
E40A1C01	12/21/99	00-02ft	µg/kg	Benzo(a)pyrene	5,800	800 [1]
E40A1C01	12/21/99	00-02ft	µg/kg	Benzo(b)fluoranthene	22,000	7,800 [1]
E40A1C01	12/21/99	00-02ft	µg/kg	Dibenzo(a,h)anthracene	2,300 J	800 [1]

GH  
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OBA  
GH  
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OH

OH

TABLE 2  
SUMMARY OF EXCEEDANCES  
OF SURFACE SOIL CRITERIA BY DETECTED CONSTITUENTS

Providence Gas Company  
642 Allens Avenue  
Providence, Rhode Island

Sample No.	Date Collected	Sample Depth Interval	Units	Constituent	Results	Surface Soil Remedial Objective
E42A1C01	12/21/99	00-02ft	mg/kg	Lead	732	500 [1]
E43A1C01	12/21/99	00-02ft	µg/kg	Benzo(a)pyrene	3,400	800 [1]
E44A1C01	12/22/99	00-02ft	µg/kg	Benzo(a)anthracene	8,400	7,800 [1]
E44A1C01	12/22/99	00-02ft	µg/kg	Benzo(a)pyrene	6,500	800 [1]
E44A1C01	12/22/99	00-02ft	µg/kg	Benzo(b)fluoranthene	8,800	7,800 [1]
E46A1C01	12/22/99	00-02ft	mg/kg	Beryllium	1.8	1 [2]
E48A1C01	2/1/00	00-02ft	µg/kg	Benzo(a)pyrene	1,100 J	800 [1]
E54A1C01	2/1/00	00-02ft	mg/kg	Arsenic	7.8	7 [1]
E55A1C01	2/1/00	00-02ft	mg/kg	Arsenic	8.4	7 [1]
E55A1C01	2/1/00	00-02ft	µg/kg	Benzo(a)anthracene	12,000	7,800 [1]
E55A1C01	2/1/00	00-02ft	µg/kg	Benzo(a)pyrene	12,000	800 [1]
E55A1C01	2/1/00	00-02ft	µg/kg	Benzo(b)fluoranthene	17,000	7,800 [1]
E55A1C01	2/1/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	1,600 J	800 [1]
E61A1C01	1/20/00	00-02ft	µg/kg	Benzo(a)pyrene	3,200 J	800 [1]
E62A1C01	1/20/00	00-02ft	mg/kg	Arsenic	8.6	7 [1]
E62A1C01	1/20/00	00-02ft	µg/kg	Benzo(a)pyrene	2,400 J	800 [1]
E62A1C01	1/20/00	00-02ft	µg/kg	Benzo(b)fluoranthene	13,000	7,800 [1]
E62A1C01	1/20/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	1,400 J	800 [1]
E64A1C01	2/2/00	00-02ft	mg/kg	Arsenic	7.3	7 [1]
E64A1C01	2/2/00	00-02ft	µg/kg	Benzo(a)pyrene	5,800	800 [1]
E64A1C01	2/2/00	00-02ft	µg/kg	Benzo(b)fluoranthene	13,000	7,800 [1]
E64A1C01	2/2/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	810 J	800 [1]
E65A1C01	1/21/00	00-02ft	µg/kg	Benzo(a)pyrene	4,100	800 [1]
E66A1C01	1/21/00	00-02ft	µg/kg	Benzo(a)pyrene	2,100	800 [1]
E67A1C01	1/21/00	00-02ft	µg/kg	Benzo(a)pyrene	5,600	800 [1]
E67A1C01	1/21/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	840	800 [1]
E68A1C01	1/20/00	00-02ft	µg/kg	Benzo(a)pyrene	3,900	800 [1]
E69A1C01	1/20/00	00-02ft	µg/kg	Benzo(a)pyrene	1,400 J	800 [1]
E70A1C01	1/20/00	00-02ft	mg/kg	Arsenic	7.2	7 [1]
E71A1C01	1/20/00	00-02ft	µg/kg	Benzo(a)anthracene	8,900	7,800 [1]
E71A1C01	1/20/00	00-02ft	µg/kg	Benzo(a)pyrene	3,400 J	800 [1]
E71A1C01	1/20/00	00-02ft	µg/kg	Benzo(b)fluoranthene	15,000	7,800 [1]
E71A1C01	1/20/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	1,600 J	800 [1]
E71A1C01	1/20/00	00-02ft	µg/kg	Dieldrin	1,600 J	400 [2]
E72A1C01	1/20/00	00-02ft	µg/kg	Benzo(a)pyrene	2,200 J	800 [1]
E73A1C01	1/20/00	00-02ft	µg/kg	Benzo(a)pyrene	1,700 J	800 [1]
E74A1C01	1/21/00	00-02ft	mg/kg	Arsenic	17.2	7 [1]
E74A1C01	1/21/00	00-02ft	µg/kg	Benzo(a)pyrene	2,200	800 [1]
E77A1C01	1/25/00	00-02ft	mg/kg	Arsenic	7.8	7 [1]
E77A1C01	1/25/00	00-02ft	µg/kg	Benzo(a)anthracene	85,000 D	7,800 [1]
E77A1C01	1/25/00	00-02ft	µg/kg	Benzo(a)pyrene	72,000 D	800 [1]
E77A1C01	1/25/00	00-02ft	µg/kg	Benzo(b)fluoranthene	110,000 D	7,800 [1]
E77A1C01	1/25/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	12,000	800 [1]
E77A1C01	1/25/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	40,000	7,800 [1]
E78A1C01	1/28/00	00-02ft	µg/kg	Benzo(a)pyrene	3,800	800 [1]
E79A1C01	1/25/00	00-02ft	mg/kg	Arsenic	7.5	7 [1]
E81A1C01	1/21/00	00-02ft	mg/kg	Arsenic	7.6	7 [1]
E82A1C01	1/24/00	00-02ft	µg/kg	Benzo(a)pyrene	1,400	800 [1]
E84A1C01	1/19/00	00-02ft	µg/kg	Benzo(a)pyrene	1,300 J	800 [1]
E85A1C01	1/19/00	00-02ft	µg/kg	Benzo(a)anthracene	11,000	7,800 [1]
E85A1C01	1/19/00	00-02ft	µg/kg	Benzo(a)pyrene	8,500	800 [1]
E85A1C01	1/19/00	00-02ft	µg/kg	Benzo(b)fluoranthene	14,000	7,800 [1]
E86A1C01	1/19/00	00-02ft	mg/kg	Arsenic	14.1	7 [1]
E86A1C01	1/19/00	00-02ft	µg/kg	Benzo(a)anthracene	30,000	7,800 [1]
E86A1C01	1/19/00	00-02ft	µg/kg	Benzo(a)pyrene	21,000	800 [1]
E86A1C01	1/19/00	00-02ft	µg/kg	Benzo(b)fluoranthene	31,000	7,800 [1]
E86A1C01	1/19/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	4,300	800 [1]
E86A1C01	1/19/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	13,000	7,800 [1]

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TABLE 2  
SUMMARY OF EXCEEDANCES  
OF SURFACE SOIL CRITERIA BY DETECTED CONSTITUENTS

Providence Gas Company  
642 Allens Avenue  
Providence, Rhode Island

Sample No.	Date Collected	Sample Depth Interval	Units	Constituent	Results	Surface Soil Remedial Objective
E87A1C01	1/19/00	00-02ft	mg/kg	Arsenic	10	7 (I)
E87A1C01	1/19/00	00-02ft	µg/kg	Benzo(a)pyrene	2,700 J	800 (I)
E88A1C01[6]	1/19/00	00-02ft	µg/kg	Benzo(a)anthracene	42,000	7,800 (I)
E88A1C01[6]	1/19/00	00-02ft	µg/kg	Benzo(a)pyrene	34,000	800 (I)
E88A1C01[6]	1/19/00	00-02ft	µg/kg	Benzo(b)fluoranthene	54,000	7,800 (I)
E88A1C01[6]	1/19/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	16,000	7,800 (I)
E88A1C01[6]	1/19/00	00-02ft	mg/kg	TPH	2,600	2,500 (I)
E89A1C01	1/24/00	00-02ft	mg/kg	Arsenic	7.5	7 (I)
E89A1C01	1/24/00	00-02ft	µg/kg	Benzo(a)anthracene	13,000	7,800 (I)
E89A1C01	1/24/00	00-02ft	µg/kg	Benzo(a)pyrene	11,000	800 (I)
E89A1C01	1/24/00	00-02ft	µg/kg	Benzo(b)fluoranthene	15,000	7,800 (I)
E89A1C01	1/24/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	2,400	800 (I)
E90A1C01	1/25/00	00-02ft	µg/kg	Benzo(a)pyrene	2,300 J	800 (I)
E94A1C01	3/9/00	00-02ft	mg/kg	Lead	5,410	500 (I)
E95A1C01	3/9/00	00-02ft	mg/kg	Lead	13,100	500 (I)
E96A1C01	3/9/00	00-02ft	mg/kg	Lead	14,900	500 (I)
E97A1C01	3/9/00	00-02ft	mg/kg	Lead	7,710	500 (I)
E98A1C01	3/9/00	00-02ft	mg/kg	Lead	3,550	500 (I)
F02A1C01	1/4/00	00-02ft	mg/kg	Lead	664	500 (I)
F05A1C01	1/4/00	00-02ft	µg/kg	Benzo(a)pyrene	5,300	800 (I)
F05A1C01	1/4/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	810 J	800 (I)
F06A1C01	1/4/00	00-02ft	µg/kg	Benzo(a)pyrene	5,600	800 (I)
F06A1C01	1/4/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	830 J	800 (I)
F06A1C01	1/4/00	00-02ft	mg/kg	Lead	642	500 (I)
F08A1C01	1/5/00	00-02ft	µg/kg	Benzo(a)pyrene	2,000 J	800 (I)
F11A1C01	1/6/00	00-02ft	µg/kg	Benzo(a)pyrene	2,400	800 (I)
F17A1C01	1/6/00	00-02ft	mg/kg	Arsenic	9.9	7 (I)
F26A1C01	2/2/00	00-02ft	µg/kg	Benzo(a)pyrene	1,400.00 J	800 (I)
F27A1C01	2/2/00	00-02ft	mg/kg	Arsenic	7.4	7 (I)
F28A1C01	2/2/00	00-02ft	mg/kg	Arsenic	7.1	7 (I)
F28A1C01	2/2/00	00-02ft	µg/kg	Benzo(a)pyrene	2,100 J	800 (I)
F32A1C01	2/2/00	00-02ft	mg/kg	Arsenic	12.7	7 (I)
F32A1C01	2/2/00	00-02ft	µg/kg	Benzo(a)anthracene	14,000	7,800 (I)
F32A1C01	2/2/00	00-02ft	µg/kg	Benzo(a)pyrene	12,000	800 (I)
F32A1C01	2/2/00	00-02ft	µg/kg	Benzo(b)fluoranthene	19,000	7,800 (I)
F32A1C01	2/2/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	1,600 J	800 (I)
F37A1C01	1/12/00	00-02ft	µg/kg	Benzo(a)pyrene	930 J	800 (I)
F38A1C01	1/12/00	00-02ft	mg/kg	Arsenic	8.7	7 (I)
F38A1C01	1/12/00	00-02ft	µg/kg	Benzo(a)anthracene	8,200	7,800 (I)
F38A1C01	1/12/00	00-02ft	µg/kg	Benzo(a)pyrene	6,500	800 (I)
F38A1C01	1/12/00	00-02ft	µg/kg	Benzo(b)fluoranthene	11,000	7,800 (I)
F38A1C01	1/12/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	1,300 J	800 (I)
F41A1C01	1/12/00	00-02ft	mg/kg	Arsenic	9.1	7 (I)
F41A1C01	1/12/00	00-02ft	µg/kg	Benzo(a)anthracene	220,000 D	7,800 (I)
F41A1C01	1/12/00	00-02ft	µg/kg	Benzo(a)pyrene	130,000 E	800 (I)
F41A1C01	1/12/00	00-02ft	µg/kg	Benzo(b)fluoranthene	230,000 E	7,800 (I)
F41A1C01	1/12/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	24,000	800 (I)
F41A1C01	1/12/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	72,000 DJ	7,800 (I)
F41A1C01	1/12/00	00-02ft	mg/kg	Lead	614	500 (I)
F41A1C01	1/12/00	00-02ft	mg/kg	TPH	15,000	2,500 (I)
F42A1C01	1/12/00	00-02ft	µg/kg	Benzo(a)anthracene	12,000	7,800 (I)
F42A1C01	1/12/00	00-02ft	µg/kg	Benzo(a)pyrene	10,000	800 (I)
F42A1C01	1/12/00	00-02ft	µg/kg	Benzo(b)fluoranthene	16,000	7,800 (I)
F42A1C01	1/12/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	1,900 J	800 (I)



TABLE 2  
SUMMARY OF EXCEEDANCES  
OF SURFACE SOIL CRITERIA BY DETECTED CONSTITUENTS

Providence Gas Company  
642 Allens Avenue  
Providence, Rhode Island

Sample No.	Date Collected	Sample Depth Interval	Units	Constituent	Results	Surface Soil Remedial Objective
F43A1C01	1/12/00	00-02ft	µg/kg	2,4-Dinitrotoluene	14,000	8,400 [2]
F43A1C01	1/12/00	00-02ft	mg/kg	Arsenic	27.3	7 [1]
F43A1C01	1/12/00	00-02ft	µg/kg	Benzo(a)anthracene	48,000	7,800 [1]
F43A1C01	1/12/00	00-02ft	µg/kg	Benzo(a)pyrene	40,000	800 [1]
F43A1C01	1/12/00	00-02ft	µg/kg	Benzo(b)fluoranthene	63,000 E	7,800 [1]
F43A1C01	1/12/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	2,300 J	800 [1]
F43A1C01	1/12/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	21,000 D	7,800 [1]
F44A1C01	1/12/00	00-02ft	µg/kg	Benzo(a)pyrene	1,300 J	800 [1]
F45A1C01	1/13/00	00-02ft	µg/kg	Benzo(a)pyrene	980 J	800 [1]
F46A1C01	1/12/00	00-02ft	mg/kg	Arsenic	11.3	7 [1]
F46A1C01	1/12/00	00-02ft	µg/kg	Benzo(a)anthracene	22,000	7,800 [1]
F46A1C01	1/12/00	00-02ft	µg/kg	Benzo(a)pyrene	15,000	800 [1]
F46A1C01	1/12/00	00-02ft	µg/kg	Benzo(b)fluoranthene	23,000	7,800 [1]
F47A1C01	1/13/00	00-02ft	µg/kg	Benzo(a)pyrene	3,500	800 [1]
F48A1C01	1/13/00	00-02ft	mg/kg	Arsenic	16.1	7 [1]
F48A1C01	1/13/00	00-02ft	µg/kg	Benzo(a)anthracene	330,000 E	7,800 [1]
F48A1C01	1/13/00	00-02ft	µg/kg	Benzo(a)pyrene	220,000 E	800 [1]
F48A1C01	1/13/00	00-02ft	µg/kg	Benzo(b)fluoranthene	340,000 D	7,800 [1]
F48A1C01	1/13/00	00-02ft	µg/kg	Benzo(k)fluoranthene	150,000 D	78,000 [1]
F48A1C01	1/13/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	41,000	800 [1]
F48A1C01	1/13/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	100,000 E	7,800 [1]
F48A1C01	1/13/00	00-02ft	mg/kg	Lead	649	500 [1]
F48A1C01	1/13/00	00-02ft	mg/kg	TPH	15,000 J	2,500 [1]
F49A1C01	1/13/00	00-02ft	mg/kg	Arsenic	8.3	7 [1]
F49A1C01	1/13/00	00-02ft	µg/kg	Benzo(a)anthracene	39,000	7,800 [1]
F49A1C01	1/13/00	00-02ft	µg/kg	Benzo(a)pyrene	26,000	800 [1]
F49A1C01	1/13/00	00-02ft	µg/kg	Benzo(b)fluoranthene	47,000	7,800 [1]
F50A1C01	1/13/00	00-02ft	mg/kg	Arsenic	11.1	7 [1]
F50A1C01	1/13/00	00-02ft	µg/kg	Benzo(a)anthracene	570,000 D	7,800 [1]
F50A1C01	1/13/00	00-02ft	µg/kg	Benzo(a)pyrene	260,000 DJ	800 [1]
F50A1C01	1/13/00	00-02ft	µg/kg	Benzo(b)fluoranthene	410,000 D	7,800 [1]
F50A1C01	1/13/00	00-02ft	µg/kg	Benzo(k)fluoranthene	180,000 DJ	78,000 [1]
F50A1C01	1/13/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	40,000 DJ	800 [1]
F50A1C01	1/13/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	120,000 DJ	7,800 [1]
F50A1C01	1/13/00	00-02ft	mg/kg	TPH	6,100 J	2,500 [1]
F51A1C01	1/11/00	00-02ft	µg/kg	Benzo(a)pyrene	3,000 J	800 [1]
F52A1C01	1/19/00	00-02ft	mg/kg	Arsenic	22.9	7 [1]
F52A1C01	1/19/00	00-02ft	µg/kg	Benzo(a)anthracene	330,000 D	7,800 [1]
F52A1C01	1/19/00	00-02ft	µg/kg	Benzo(a)pyrene	310,000 E	800 [1]
F52A1C01	1/19/00	00-02ft	µg/kg	Benzo(b)fluoranthene	430,000 E	7,800 [1]
F52A1C01	1/19/00	00-02ft	µg/kg	Benzo(k)fluoranthene	150,000 E	78,000 [1]
F52A1C01	1/19/00	00-02ft	µg/kg	Dibenzo(a,h)anthracene	42,000	800 [1]
F52A1C01	1/19/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	160,000 D	7,800 [1]
F52A1C01	1/19/00	00-02ft	mg/kg	TPH	31,000 J	2,500 [1]
F53A1C01	1/19/00	00-02ft	µg/kg	Benzo(a)pyrene	3,800	800 [1]
F54A1C01	1/21/00	00-02ft	µg/kg	Benzo(a)anthracene	19,000	7,800 [1]
F54A1C01	1/21/00	00-02ft	µg/kg	Benzo(a)pyrene	14,000	800 [1]
F54A1C01	1/21/00	00-02ft	µg/kg	Benzo(b)fluoranthene	22,000	7,800 [1]
F54A1C01	1/21/00	00-02ft	µg/kg	Indeno(1,2,3-cd)pyrene	8,700	7,800 [1]
F55A1C01	1/19/00	00-02ft	µg/kg	Benzo(a)pyrene	5,300	800 [1]
F55A1C01	1/19/00	00-02ft	µg/kg	Benzo(b)fluoranthene	8,700	7,800 [1]
F56A1C01	1/19/00	00-02ft	µg/kg	Benzo(a)anthracene	10,000	7,800 [1]
F56A1C01	1/19/00	00-02ft	µg/kg	Benzo(a)pyrene	8,400	800 [1]
F56A1C01	1/19/00	00-02ft	µg/kg	Benzo(b)fluoranthene	12,000	7,800 [1]

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TABLE 2  
SUMMARY OF EXCEEDANCES  
OF SURFACE SOIL CRITERIA BY DETECTED CONSTITUENTS

Providence Gas Company  
642 Allens Avenue  
Providence, Rhode Island

**NOTES:**

Table presents all positive detections above Surface Soil Remedial Objective  
Constituents that are not detected at reporting limits above Surface Soil Remedial Objectives are not presented  
Duplicate sample results not presented, except as footnoted herein  
Where dilutions of re-analyses were performed; the maximum detected concentration is presented  
Surface soil Remedial Objectives basis:

[1] Remedial Objective presented in Remedial Action Work Plan (RAWP)

[2] If no RAWP criterion available; objective obtained from Remediation Regulations

[3] If no RAWP or Remediation Regulation objectives available; Method 2 Remedial Objective calculated

U = Undetected at reporting limit

J = Estimated concentration

E = Estimated concentration; calibration range exceeded

D = Analysis performed on diluted sample

B = Constituent detected in laboratory blank (organics only)

\* = Estimated concentration, duplicate analysis out of control limits

P = Estimated concentration; greater than 40% difference between GC columns

[4] The sample contained 6.3 mg/kg of arsenic; duplicate of the sample contained 7.3 mg/kg

[5] Location sampled twice

[6] Sample did not contain detectable concentration of dibenzo(a,h)anthracene; duplicate analysis of sample had 3,600 ug/kg (above objective)



Table 4. ESS Subsurface Soil Boring Laboratory Analytical Data that exceeds RIDEM Criteria.

Sample ID	RIDEM GB Leachability Criteria	A09	A12	A13	A15	A72	A62	A66	B21	B01	B56	C09	C49	D18	D19	D20	D21	D41	D62	D62	D87
Date		02/04/99	03/03/00	03/03/00	02/03/00	02/25/00	02/25/00	02/29/00	01/31/00	01/27/00	03/02/00	01/11/00	02/16/00	11/29/99	11/30/99	11/30/99	11/30/99	12/03/99	12/09/99	06/20/00	01/25/00
Depth (ft.)		8-10	8-10	8-10	2-4	8-10	6-8	6-8	4-6	4-6	4-6	4-6	2-4	4-6	4-6	4-6	2-4	4-6	8-10	4-6	4-6
Within 100' of Shore?		Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No
<b>Analyte</b>																					
TPH (mg/Kg)	2,500	<b>19,000</b>	<b>12,000</b>	<b>3,100</b>	<b>4,200</b>	<b>5,500</b>	<b>8,900</b>	<b>3,300</b>	<b>2,500</b>	<b>2,600</b>	<b>3,100</b>	<b>3,900</b>	<b>3,400</b>	<b>6,900</b>	<b>3,700</b>	<b>15,000</b>	<b>4,000</b>	<b>3,600</b>	<b>35,000</b>	<b>3,700</b>	<b>9,300</b>
<b>VOCs (mg/Kg)</b>																					
Benzene	4.3	--	--	--	--	--	--	--	--	--	--	<b>59</b>	0.76	--	--	<b>35</b>	0.6	<b>16</b>	<b>280</b>	--	--
Ethylbenzene	62	--	0.97	--	--	--	--	--	--	--	--	<b>54</b>	--	7.5	2.3	<b>230</b>	0.1	<b>4.9</b>	<b>65</b>	--	--
Styrene	64	--	--	--	--	--	--	--	--	--	--	<b>230</b>	--	--	--	--	--	--	<b>17</b>	--	--
Toluene	54	--	--	--	--	0.37	--	--	--	--	--	<b>390</b>	--	--	0.3	14	0.1	--	<b>830</b>	--	--
Xylenes (Total)	540	--	--	--	--	--	--	--	--	--	--	<b>650</b>	3.7	1.0	0.8	<b>550</b>	--	26	<b>610</b>	--	--
<b>PAHs (mg/Kg)</b>																					
Naphthalene	NE	2.2	38	3.6	1.7	11	160	3.6	1.2	24	7.8	1,100	5,200	15	42	810	3.3	3.6	3,000	85	0.94
<b>PCBs (mg/Kg)</b>																					
	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Sample ID	RIDEM GB Leachability Criteria	D95	E15	E34	E36	E38	E39	E41	E43	E86	E88	E91	F04	F07	F38	F41	F44	F45	F46	F48	F51	F52
Date		01/25/00	12/15/99	12/20/99	12/21/99	12/21/99	01/26/00	12/21/99	12/21/99	01/19/00	01/19/00	01/25/00	01/04/00	01/05/00	01/12/00	01/12/00	01/12/00	01/13/00	01/12/00	01/13/00	01/11/00	01/19/00
Depth (ft.)		4-6	4-6	4-6	4-6	4-6	4-6	2-4	4-6	2-4	2-4	2-4	8-10	8-10	4-6	4-6	4-6	4-6	4-6	4-6	6-8	2-4
Within 100' of Shore?		No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
<b>Analyte</b>																						
TPH (mg/Kg)	2,500	<b>4,700</b>	<b>9,700</b>	<b>5,600</b>	<b>2,800</b>	<b>4,600</b>	<b>6,100</b>	<b>7,500</b>	<b>2,500</b>	<b>7,200</b>	<b>22,000</b>	<b>28,000</b>	<b>10,000</b>	<b>3,600</b>	<b>3,700</b>	<b>17,000</b>	<b>2,800</b>	<b>20,000</b>	<b>2,800</b>	<b>4,100</b>	<b>25,000</b>	<b>19,000</b>
<b>VOCs (mg/Kg)</b>																						
Benzene	4.3	1.2	<b>43</b>	1.3	--	--	--	0.3	0.3	--	--	--	0.6	<b>4.8</b>	--	0.1	--	--	--	--	<b>22.0</b>	--
Ethylbenzene	62	40	18	14.0	0.6	46.0	8.0	10.0	0.2	--	--	--	2.7	0.3	--	--	0.1	--	--	--	1.4	--
Styrene	64	--	--	62.0	--	--	--	--	--	--	--	--	--	1.2	--	--	--	--	--	--	4.7	--
Toluene	54	3.6	43	<b>97.0</b>	--	--	--	--	0.210	--	--	--	0.1	4.0	--	0.2	--	1.3	--	--	20.0	--
Xylenes (Total)	540	100	23	210	0.36	2	60	9.7	0.31	--	--	--	1.7	5.3	--	0.3	0.1	44.0	--	--	30.0	--
<b>PAHs (mg/Kg)</b>																						
Naphthalene	NE	110	670	430	13	160	190	780	1.8	36	290	39	4.5	630	240	300	2.3	48	9.6	1.9	440	40
<b>PCBs (mg/Kg)</b>																						
	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

All concentrations are equivalent to mg/Kg or parts per million (ppm).  
 All concentrations shown as **BOLD** exceed the RIDEM GB Leachability Criteria.  
 -- = Not detected above reporting limit.





**Table 6. Monitor Well Gauging Information and Observations.**

Groundwater Monitor Well Description (11/12/01)

Well Id:	SWL (ft.)	Depth (ft.)	Comments:
RCA-1	11.05	14.25	Dark gray/gray color, purged 4 gallons.
RCA-3	6.0	18.25	Dark gray, black color/clear, purged 10 gallons, 1-2" DNAPL on bottom of well.
RCA-4	12.5	14.85	1-2" LNAPL, gray color, purged dry.
RCA-5	11.0	13.25	Clear, purged dry.
RCA-6	10.8	16.9	Gray/clear color, 5 gal. purge, slight sheen/NAPL on bottom of sampling tube.
RCA-11	7.5	14.6	Blue, green initial color, some sheen, then clear. 8 gallon purge. Odor present.
RCA-12	--	4.6	Well destroyed, bent riser. ———
RCA-14	9.7	15.4	Orange/clear. Purged dry.
RCA-15	8.6	17.9	Gray/clear. 10 gallon purge.
RCA-17	8.4	14.2	Gray/clear. 6 gallon purge.
RCA-18	--	2.4	Well destroyed, closed. ———
RCA-20	7.8	11.5	Clear color, possible bailer in well.
RCA-22	10.3	13.5	Clear color, possible bailer in well.
RCA-23	--	5.25	Riser bent, well destroyed. ———
RCA-27	9.6	10.9	Clear, purged dry.
RCA-28	13.5	16.8	Gray, purged approximately 4 gallons, slight odor.
RCA-29	12.0	12.9	4" LNAPL purged several bailers, possible bailer in well.
RCA-32	10.45	15.5	Brown/orange to clear. Purged dry.
RCA-33	8.7	13.1	Gray color, purged dry.
RCA-34	11.0	14.9	Dark gray/gray color, purged dry.
RCA-36	12.5	15.8	Well not purged. Bent riser, possible bailer in well.
RCA-37	8.3	16.2	Gray color, slight odor. Purged until dry.
RCA-38	8.2	16.8	Orange/clear. Purged 8 gallons.
RCA-39	10.8	14.45	Gray color, purged dry.
RCA-40	7.5	18.75	2-3" LNAPL. Purged approximately 10 gallons.

**Table 6 (Cont'd). Monitor Well Gauging Information and Observations.**

**Sampling Groundwater Monitor Well Notes (06/20/02)**

<b>Well Id:</b>	<b>SWL (ft.)</b>	<b>Depth (ft.)</b>	<b>Comments:</b>
VHB-1	4.01	11.52	Drk. Gr./very turbid. With some LNAPL, droplets. Strong odor and sheen.
VHB-2	4.25	11.50	Dark Gr. Very turbid. Slight odor, no sheen.
VHB-3	5.18	12.55	Drk. Gr./very turbid. With some LNAPL, droplets. Strong odor and sheen.
VHB-5	4.70	12.85	Drk. Gr./very turbid. No sheen, slight odor.
VHB-6	7.15	14.0	Br. very turbid. No odor, very light sheen.
VHB-7	8.9	14.9	Drk. Gr., Blk. and turbid. With some LNAPL, droplets. Strong odor and sheen.
VHB-8	7.1	14.7	Br./Gr., turbid. No odor or sheen.
VHB-9	8.5	13.7	Drk. Gr. Turbid. Odor and sheen observed.
VHB-10	9.85	16.75	Drk. Gr., Blk. and turbid. With some LNAPL, droplets. Strong odor and sheen.
VHB-11	9.42	12.15	Tan, slightly turbid with silt. No odor, no sheen. (sampled on 6/27/02)
VHB-12	7.33	12.10	Br. very turbid with silt, sand. No odors, no sheen. (sampled on 6/27/02)
VHB-13	10.45	16.10	Lt. Br. tan, turbid with silt. No odors, no sheen.

**Groundwater Monitor Well Gauging (09/13/02)**

<b>Well Id:</b>	<b>SWL (ft.)</b>	<b>Depth (ft.)</b>	<b>Comments:</b>
RCA-1	10.95	14.25	Slight odor, no sheen.
RCA-3	9.13	18.25	Strong odor, possible DNAPL on bottom of well.
RCA-4	--	--	Destroyed.
RCA-5	10.26	13.25	Slight odor, no sheen.
RCA-6	10.82	16.90	Odor present, slight sheen.
RCA-11	7.08	14.6	Strong odor present, no sheen.
RCA-12	--	--	Destroyed.
RCA-13	7.4	15.2	No odor, no sheen.
RCA-14	9.41	15.4	Slight odor, no sheen.
RCA-15	8.36	17.9	Slight odor, no sheen.
RCA-17	8.04	14.2	Slight odor, no sheen.
RCA-18	--	--	Destroyed.
RCA-20	10.31	11.5	No odor, no sheen.
RCA-22	9.95	13.5	No odor, no sheen.
RCA-27	--	--	Destroyed.
RCA-28	12.28	16.8	Strong odor, no sheen.

**Table 6 (Cont'd). Monitor Well Gauging Information and Observations.**

Groundwater Monitor Well Gauging Cont. 09/13/02)

Well Id:	SWL (ft.)	Depth (ft.)	Comments:
RCA-29	11.7	12.9	Strong odor, 0.14" LNAPL.
RCA-32	10.00	15.5	No odor, no sheen.
RCA-33	8.29	13.1	Slight odor, no sheen.
RCA-34	12.42	14.9	Slight odor, no sheen.
RCA-36	10.26	15.8	Slight odor, slight sheen.
RCA-37	7.92	16.2	Slight odor, no sheen.
RCA-38	8.19	16.8	No odor, no sheen.
RCA-39	10.31	14.45	No odor, no sheen.
RCA-40	10.8	18.75	Strong odor, 0.1" of LNAPL.
VHB-1	4.60	11.5	Strong odor, sheen, some LNAPL droplets.
VHB-2	4.76	11.5	Slight odor, no sheen.
VHB-3	6.23	12.5	Strong odor and sheen, some LNAPL droplets.
VHB-5	5.56	12.8	Slight odor, some sheen.
VHB-6	8.65	14.0	No odor, slight sheen.
VHB-7	9.56	14.9	Strong odor and sheen, some LNAPL droplets.
VHB-8	8.24	14.7	No odor, no sheen.
VHB-9	9.57	13.7	Odor and sheen.
VHB-10	12.75	16.75	Strong odor, 0.12" of LNAPL.
VHB-11	9.65	12.15	No odor, no sheen.
VHB-12	--	--	Destroyed.
VHB-13	10.78	16.1	No odor, no sheen.

Groundwater Monitor Well Purge Description (02/03/03)

Well Id:	SWL (ft.)	Depth (ft.)	Comments:
VHB-18	8.34	18.05	Dark gray, slight dark green color, very turbid, strong odor, sheen present.
VHB-19	8.40	16.7	Tan, brown color, slight odor, no sheen, turbid.
VHB-20	5.29	14.58	Dark gray, black color, very turbid, strong odor, sheen present.
VHB-21	8.70	16.70	Dark gray, black color, very turbid, very strong odor, sheen present.
VHB-22	8.99	18.0	Dark gray, black color, very turbid, strong odor, sheen present.
VHB-23	8.39	17.4	Tan, dark brown color, turbid, strong odor and slight sheen present.

Table 7. CHES Recovery Well Gauging Data.

Date	Well #	Constituent	10/8/02 Depth (ft.)	10/22/02 Depth (ft.)	11/15/02 Depth (ft.)	12/7/02 Depth (ft.)	12/24/02 Depth (ft.)	1/8/03 Depth (ft.)	2/11/03 Depth (ft.)	2/28/03 Depth (ft.)	
RW-1		NAPL	8.08	7.76	8.33	8.17	5.98	5.71	8.49	ND	
		Water	8.11	7.80	8.41	8.21	5.99	5.73	8.5	7.2	ND
		NAPL Thickness (ft.)	0.03	0.04	0.08	0.04	0.01	0.02	0.01	0.01	NA
RW-2		NAPL	ND	ND	ND	ND	ND	ND	ND	ND	
		Water	10.25	10.20	10.5	10.23	9.1	8.76	10.75	10.45	ND
		NAPL Thickness (ft.)	NA	NA	NA	NA	NA	NA	NA	NA	NA
RW-3		NAPL	ND	ND	ND	ND	ND	ND	ND	ND	
		Water	12.26	12.56	12.31	12.09	11.83	11.41	13.46	13.46	ND
		NAPL Thickness (ft.)	NA	NA	NA	NA	NA	NA	NA	NA	NA
RW-4		NAPL	11.37	11.48	11.42	11.37	11.21	10.81	12.16	11.99	
		Water	11.40	11.50	11.51	11.45	11.26	10.84	12.19	12.01	11.99
		NAPL Thickness (ft.)	0.03	0.02	0.09	0.08	0.05	0.03	0.03	0.03	0.02
RW-5		NAPL	12.04	12.17	12.11	11.97	11.85	11.46	12.8	12.65	
		Water	12.09	12.21	12.23	12.06	11.91	11.51	12.82	12.67	12.67
		NAPL Thickness (ft.)	0.05	0.04	0.12	0.09	0.06	0.05	0.05	0.02	0.02

ND = NAPL non-detectable, NA = Not Applicable

**Table 8. Summary of Groundwater Results from ESS Monitor Wells**

Sample ID:	RIDEM GB	A08	A18	A39	A73	B01	B05	B22	B48	C21	D61	D76	D91	E02	E24	E29	E42	E42	E55	E85	F16	F29	F50
Date:	Groundwater Objectives	03/16/00	03/13/00	03/14/00	03/14/00	03/01/00	03/10/00	03/10/00	03/14/00	12/29/99	12/10/99	03/01/00	03/10/00	12/29/99	12/29/99	12/29/99	04/13/00	03/09/00	03/10/00	03/24/00	03/10/00	03/09/00	03/09/00
VOCs (mg/L)																							
Benzene	0.14	0.002	--	--	0.029	<b>0.22</b>	<b>0.17</b>	0.012	--	0.007	0.019	0.002	--	--	--	<b>0.22</b>	0.12	0.012	0.002	--	--	--	--
Elhybenzene	1.6	--	--	--	0.016	0.29	0.089	0.031	--	--	0.6	--	--	--	--	--	--	0.04	--	--	--	--	--
MTBE	5	--	--	--	--	--	--	--	--	--	--	--	--	--	0.38	--	--	--	--	--	--	--	--
Naphthalene	2.76*	--	--	--	0.15	<b>3.6</b>	0.73	0.51	--	0.12	--	--	--	--	0.004	0.24	0.24	--	--	0.039	--	--	0.009
Toluene	1.7	--	--	--	0.002	0.063	0.002	0.012	--	0.009	0.2	0.003	--	--	--	--	--	0.004	--	--	--	--	--
Xylenes	NE	--	--	--	0.02	0.56	0.03	0.079	--	0.01	1.4	--	--	--	--	0.001	--	0.052	--	--	--	--	--

Concentrations shown as **Bold** indicates an exceedance of RIDEM GB Groundwater Objectives

\* = GB Objective for Naphthalene derived by VHB using Appendix F in RIDEM Remediation Regulations

Table 8. Summary of Groundwater Results From RCA Monitor Wells.

Sample ID:	RCA-1	RCA-3	RCA-5	RCA-6	RCA-11	RCA-14	RCA-15	RCA-17	RCA-22	RCA-27	RCA-27	RCA-28	RCA-32	RCA-33	RCA-34	RCA-36	RCA-37	RCA-38	RCA-39
Date:	11/29/2001	11/29/2001	11/29/2001	11/29/2001	11/29/2001	11/29/2001	11/29/2001	11/29/2001	11/29/2001	12/6/2001	11/29/2001	11/29/2001	11/29/2001	11/29/2001	11/29/2001	11/29/2001	11/29/2001	11/29/2001	11/29/2001
SVOCs (mg/L)	0.16	0.024	0.0393	0.0393	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	0.04	ND	ND	ND	ND
Acenaphthene	ND	0.019	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	0.028	0.0112	0.0112	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	0.011	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	0.016	ND	ND	ND	ND
Carbazole	ND	0.013	ND	ND	ND	ND	ND	ND	ND	NT	ND	0.0711	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	0.017	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	0.067	0.033	0.033	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	0.27	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	0.0133	ND	ND	ND	ND
2-Methylnaphthalene	ND	0.99	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	0.032	ND	ND	ND	ND
Naphthalene	0.133	0.1	0.026	0.026	ND	ND	ND	ND	ND	NT	0.186	5.222	ND	0.03	0.032	ND	ND	ND	ND
Phenanthrene	ND	0.1	0.0135	0.0135	ND	ND	ND	ND	ND	NT	0.186	5.222	ND	0.032	0.032	ND	ND	ND	ND
Pyrene	ND	0.028	0.0146	0.0146	ND	ND	ND	ND	ND	NT	0.186	5.222	ND	0.024	0.024	ND	ND	ND	ND
VOCs (mg/L)																			
Benzene	0.14	0.0036	0.0036	0.0022	0.032	ND	ND	0.0346	0.022	ND	0.0346	0.177	ND	ND	0.216	ND	ND	ND	ND
Ethylbenzene	1.6	0.061	0.0151	0.003	0.002	ND	ND	ND	0.0034	0.023	0.0034	0.259	ND	ND	0.0775	ND	ND	ND	ND
Isopropylbenzene	NE	ND	0.0022	ND	ND	ND	ND	ND	0.0023	0.023	0.0034	0.259	ND	ND	0.0775	ND	ND	ND	ND
4-Isopropyltoluene	NE	ND	ND	ND	ND	ND	ND	ND	0.0023	0.023	0.0034	0.259	ND	ND	0.0775	ND	ND	ND	ND
Naphthalene	2.76*	1.12	2.19	ND	0.505	ND	ND	ND	0.875	0.875	1.4	20.6	ND	ND	0.304	ND	ND	ND	ND
n-Propylbenzene	NE	ND	0.0398	ND	0.505	ND	ND	ND	0.875	0.875	1.4	20.6	ND	ND	0.304	ND	ND	ND	ND
Styrene	NE	ND	ND	ND	0.0195	ND	ND	ND	0.875	0.875	1.4	20.6	ND	ND	0.304	ND	ND	ND	ND
Toluene	NE	ND	ND	ND	0.0195	ND	ND	ND	0.875	0.875	1.4	20.6	ND	ND	0.304	ND	ND	ND	ND
1,2,4-Trimethylbenzene	1.7	0.002	ND	ND	0.0295	ND	ND	ND	0.875	0.875	1.4	20.6	ND	ND	0.304	ND	ND	ND	ND
1,3,5-Trimethylbenzene	NE	0.165	0.0051	ND	0.0295	ND	ND	ND	0.875	0.875	1.4	20.6	ND	ND	0.304	ND	ND	ND	ND
Xylenes	NE	0.043	0.0051	ND	0.0295	ND	ND	ND	0.875	0.875	1.4	20.6	ND	ND	0.304	ND	ND	ND	ND
	NE	0.099	0.0063	ND	0.024	ND	ND	0.0096	0.0175	0.0175	0.0259	1.08	ND	ND	0.555	ND	ND	ND	ND

RCA-28 - 556,000 ppm of TPH in diesel range (11/29/01)  
RCA-40 - 579,000 ppm of TPH in diesel range (11/29/01).

Notes:

- All concentrations are in (mg/L), equivalent to parts per million (ppm).
- All concentrations reported in BOLD exceed the RIEM GB Groundwater Criteria.
- ND - Not detected above method reporting limit; NA - Not analyzed; NE - RIEM GB Groundwater Criteria does not exist; BIC - By individual constituent.
- \*\* - GB Objective for Naphthalene derived by VHB using Appendix F in RIEM Remediation Regulations.

Table 10. Summary of Groundwater Results from VHB Monitor Wells.

Sample ID:	RIDEM GB Groundwater Objective (mg/L)	VHB-1	VHB-2	VHB-3	VHB-5	VHB-6	VHB-7	VHB-8	VHB-8a	VHB-9	VHB-10	VHB-11	VHB-12	VHB-13	VHB-18	VHB-19	VHB-20	VHB-21	VHB-22	VHB-23
Date:		6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/27/2002	6/27/2002	6/20/2002	6/20/2002	2/25/2003	2/25/2003	2/25/2003	2/25/2003	2/25/2003	2/25/2003
Total Cyanide	NE	0.804	0.225	1.68	1.35	1.93	0.125	0.052	0.254	0.091	ND	ND	3.41	0.041	10.6	0.909	14.2	1.66	ND	0.006
<b>SVOCs (mg/L)</b>																				
Acenaphthene	NE	ND	ND	ND	ND	ND	0.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	ND	ND
Anthracene	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	NE	ND	ND	ND	0.013	ND	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NE	ND	ND	ND	ND	ND	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	NE	ND	ND	ND	ND	ND	0.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	NE	ND	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NE	ND	ND	ND	ND	ND	1.3	ND	ND	0.032	ND	ND	ND	ND	ND	ND	ND	0.265	0.078	0.039
Naphthalene	NE	ND	ND	0.244	ND	0.017	9.1	ND	ND	0.39	1.82	ND	ND	ND	ND	ND	0.04	ND	3.32	0.25
Phenanthrene	NE	ND	ND	ND	ND	ND	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.022	ND
Pyrene	NE	ND	ND	ND	ND	ND	0.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>VOCs (mg/L)</b>																				
Benzene	0.14	ND	0.0028	0.0085	ND	ND	0.0425	ND	ND	ND	0.185	ND	ND	ND	1.97	ND	0.0127	1.27	0.485	0.142
sec-Butylbenzene	NE	0.0052	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	ND
Carbon Disulfide	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND
Ethylbenzene	1.6	ND	ND	0.0027	ND	0.0039	1.02	ND	ND	0.0436	ND	ND	ND	ND	0.168	ND	0.0077	1.41	0.13	1
Isopropylbenzene	NE	0.0134	ND	ND	ND	ND	0.0461	ND	ND	0.0209	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0366
4-Isopropyltoluene	NE	ND	ND	ND	ND	ND	0.0048	ND	ND	0.0024	ND	ND	ND	ND	ND	ND	ND	ND	0.105	ND
Naphthalene	2.76*	0.0109	ND	1.15	0.0793	0.0782	22.2	ND	ND	2.24	0.385	ND	ND	ND	0.76	ND	0.163	15.5	8.9	3.18
n-Propylbenzene	NE	0.008	ND	ND	ND	ND	0.0156	ND	ND	0.003	ND	ND	ND	ND	0.0104	ND	0.0019	0.0109	0.07	0.0095
Styrene	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1.7	ND	ND	0.0025	ND	ND	0.109	ND	ND	ND	ND	ND	ND	ND	0.0318	ND	0.0019	1.01	ND	0.003
1,2,4-Trimethylbenzene	NE	0.0058	ND	0.0196	0.0021	0.0063	0.445	ND	ND	0.19	ND	ND	ND	ND	0.107	ND	0.019	0.606	ND	0.178
1,3,5-Trimethylbenzene	NE	0.0014	ND	0.0062	ND	ND	0.205	ND	ND	0.0205	ND	ND	ND	ND	0.0464	ND	0.0086	0.28	ND	0.102
Xylenes	NE	ND	ND	0.0146	0.0026	0.0032	2.99	ND	ND	0.0688	ND	ND	ND	ND	0.36	ND	0.0232	3.12	ND	0.826

Notes:

All concentrations are in (mg/L), equivalent to parts per million (ppm).

All concentrations reported in **BOLD** exceed the RIDEM GB Groundwater Criteria.

ND - Not detected above method reporting limit; NA - Not analyzed; NE - RIDEM GB Groundwater Criteria does not exist; BIC - By individual constituent.

\* = GB Objective for Naphthalene derived by VHB using Appendix F in RIDEM Remediation Regulations

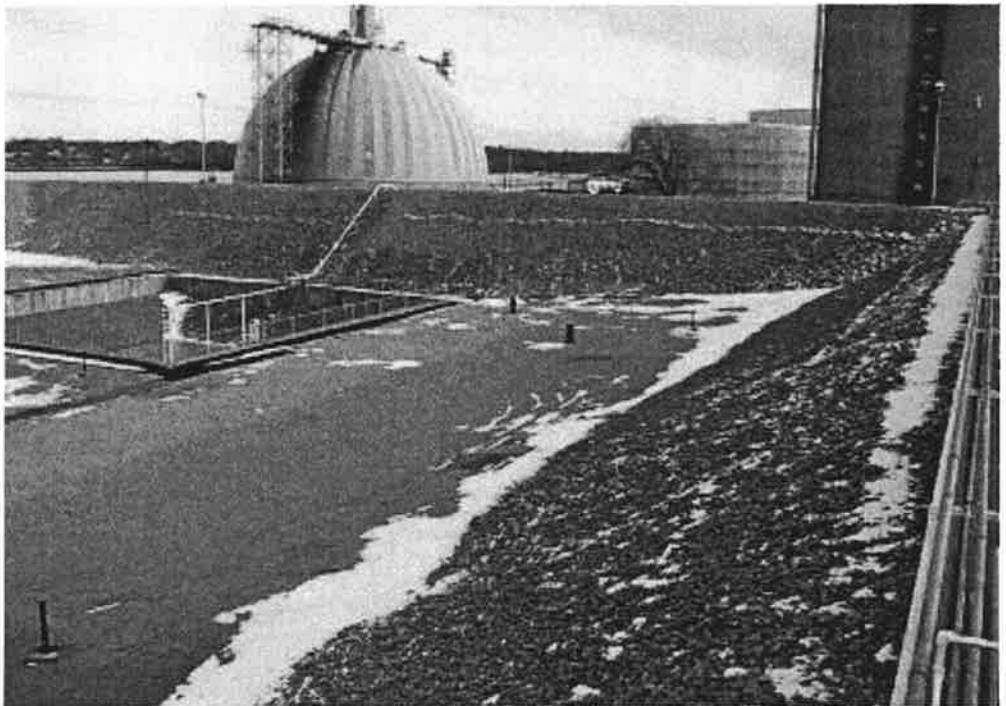




# Photographs



View of recent conditions of Area 1 looking to the south.



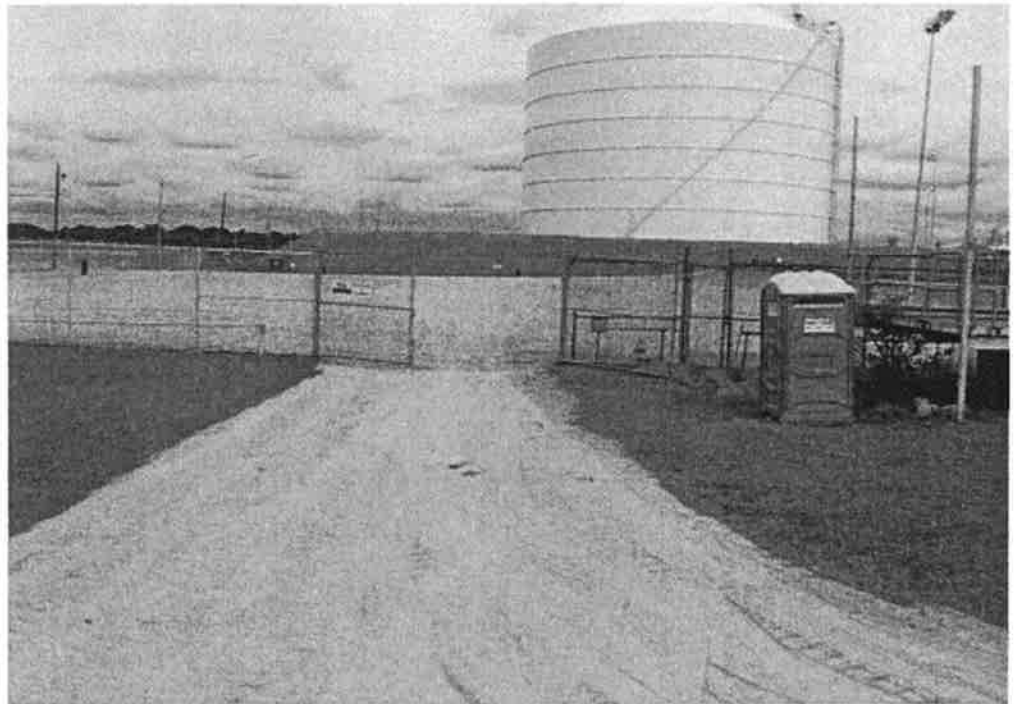
View of recent conditions of Area 1 within the containment dike.

**Vanasse Hangen Brustlin, Inc.**

Site Photographs  
642 Allens Avenue  
Providence, Rhode Island



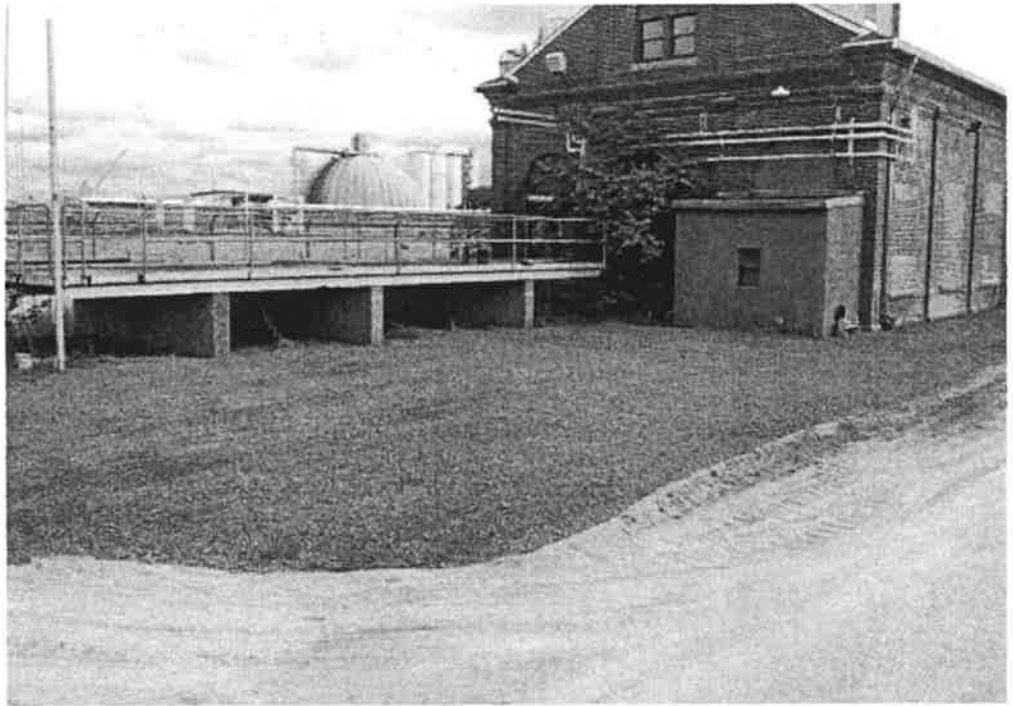
View of Area 2.



View of Area 3.

**Vanasse Hangen Brustlin, Inc.**

Site Photographs  
642 Allens Avenue  
Providence, Rhode Island



View of areas north of Building No. 20.



View of Access Road restoration.

**Vanasse Hangen Brustlin, Inc.**

Site Photographs  
642 Allens Avenue  
Providence, Rhode Island



View of Access Road adjacent to Motiva water lot.

**Vanasse Hangen Brustlin, Inc.**

Site Photographs  
642 Allens Avenue  
Providence, Rhode Island

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## Appendix A – Limitations

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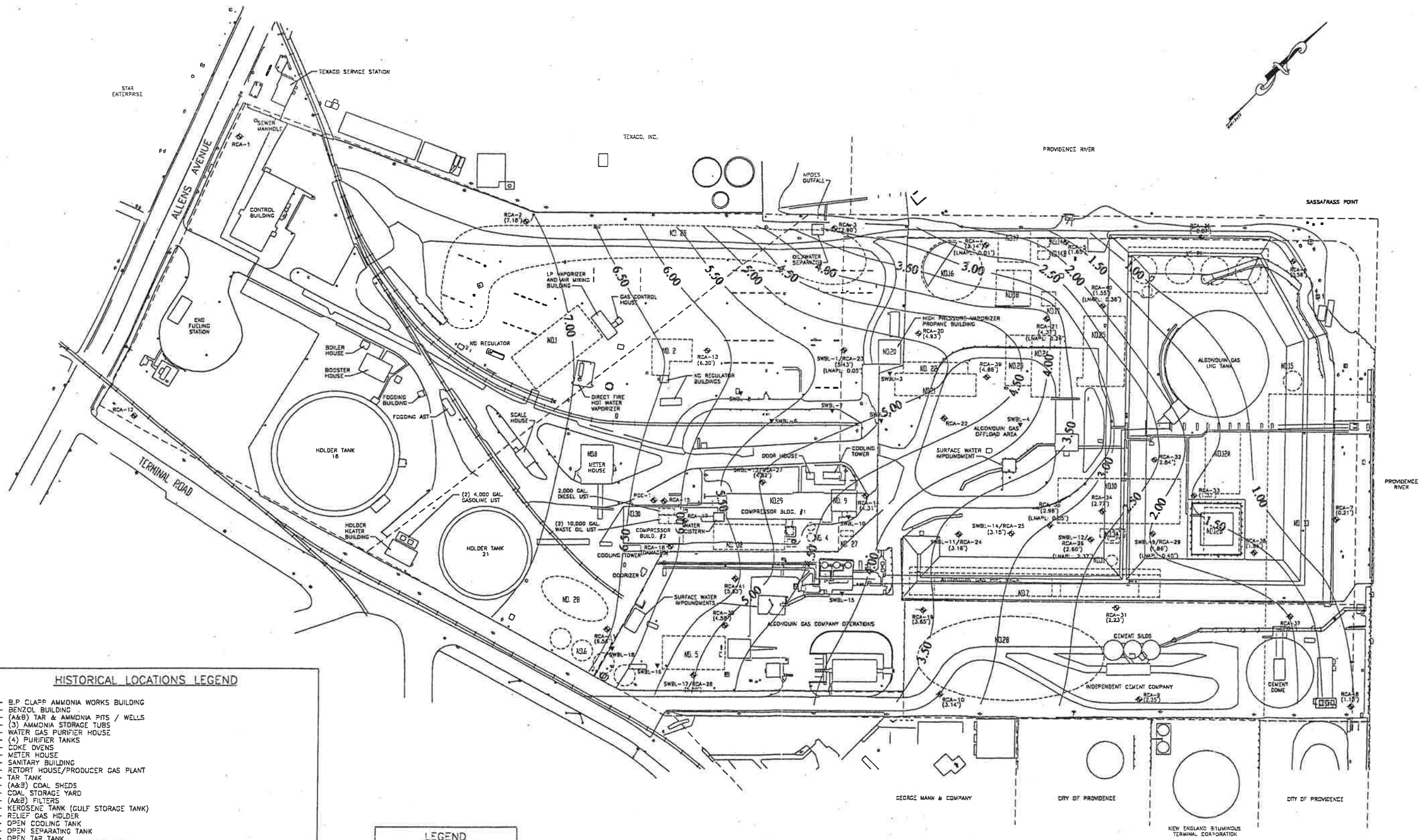
### New England Gas Company Providence, RI

- This report has been prepared for the sole and exclusive use of New England Gas Company (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 the User's sole risk.
- In preparing this report, 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 property. Except as otherwise noted, no attempt has been made to verify the accuracy or completeness of such information.
- 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 are limited by the scope of services outlined in our Agreement, which reflects schedule and budgetary constraints imposed by the Client for the current phase of environmental assessment. 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. 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.



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# Appendix B – RCA Groundwater Contour Map



**HISTORICAL LOCATIONS LEGEND**

- 1- B.P. CLAPP AMMONIA WORKS BUILDING
- 2- BENZOL BUILDING
- 3- (A&B) TAR & AMMONIA PITS / WELLS
- 4- (3) AMMONIA STORAGE TUBS
- 5- WATER GAS PURIFIER HOUSE
- 6- (4) PURIFIER TANKS
- 7- COKE OVENS
- 8- METER HOUSE
- 9- SANITARY BUILDING
- 10- RETORT HOUSE/PRODUCER GAS PLANT
- 11- TAR TANK
- 12- (A&B) COAL SHEDS
- 13- COAL STORAGE YARD
- 14- (A&B) FILTERS
- 15- KEROSENE TANK (GULF STORAGE TANK)
- 16- RELIEF GAS HOLDER
- 17- OPEN COOLING TANK
- 18- OPEN SEPARATING TANK
- 19- OPEN TAR TANK
- 20- HIGH-PRESSURE VAPORIZER PROPANE BUILDING (FORMER WASHER & TAR HOUSE)
- 21- MACHINE SHOP/DRAFTING OFFICE
- 22- BLACKSMITH/CARPENTER/STORAGE BUILDING
- 23- ENGINE / POWER HOUSE
- 24- BOILER HOUSE
- 25- WATER GAS GENERATOR HOUSE
- 26- (2) TAR & (2) OIL TANKS
- 27- ABOVEGROUND FUEL OIL TANK
- 28- COKE / COAL PILE STORAGE AREA
- 29- COMPRESSOR BUILDING NO. 1 (FORMER CONDENSER HOUSE)
- 30- COMPRESSOR BUILDING NO. 2 (FORMER COAL GAS PURIFIER HOUSE)

**LEGEND**

- ▼ STRUCTURAL BORINGS
- ◆ RCA MONITORING WELLS WITH EQUIVALENT DN ELEVATION (FEET)
- HISTORICAL LOCATIONS
- EXISTING FACILITIES
- 0.50- GROUNDWATER CONTOUR LINE
- LNAP- LIGHT NONAQUEOUS PHASE LIQUID HYDROCARBON THICKNESS (FEET)



**NOTES:**

1. WELLS GAUGED ON MAY 14, 1996
2. WELLS NOT INCLUDED IN CONTOURING:  
 RCA-1  
 RCA-12  
 RCA-15  
 RCA-17  
 RCA-18  
 RCA-22

Figure based on AutoCAD file V:\BCAD 7051.PL by Venesse Hengen Brustlin, Inc. on 12-20-93, as modified by Resource Control Associates, Inc.

<b>RESOURCE CONTROLS</b> <small>The premier resource in your underground world.</small> <small>431 Broadway, Providence, RI 02902</small> <small>401-734-8800 (ext. 60) 731-1900</small> <small>18 Orange Avenue, Scituate, RI 02884</small> <small>417-543-3900</small>		<b>GROUNDWATER CONTOUR PLAN</b> MAY 14, 1996 <b>PROVIDENCE GAS COMPANY</b> 642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND	
DRAWN	CHECKED	APPROVED	SCALE
BY: [Signature]	BY: [Signature]	BY: [Signature]	1"=80'
DATE: 5-15-96	DATE: 5-15-96	DATE: 5-15-96	PROJECT: A0000100
			FILE: 01588
			FIGURE: 1
			REV: 1



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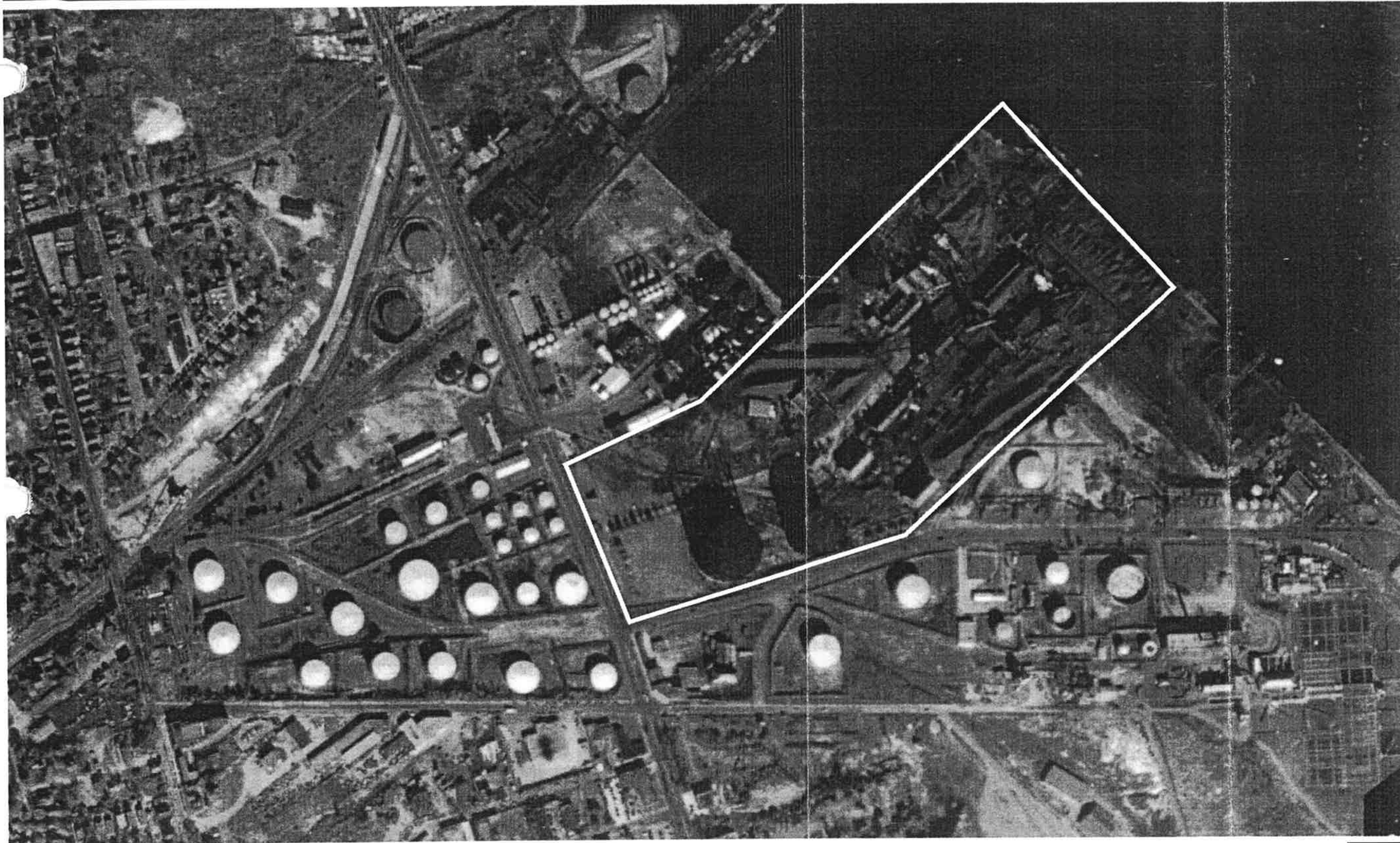
■

# Appendix C – Historic Aerial Photography



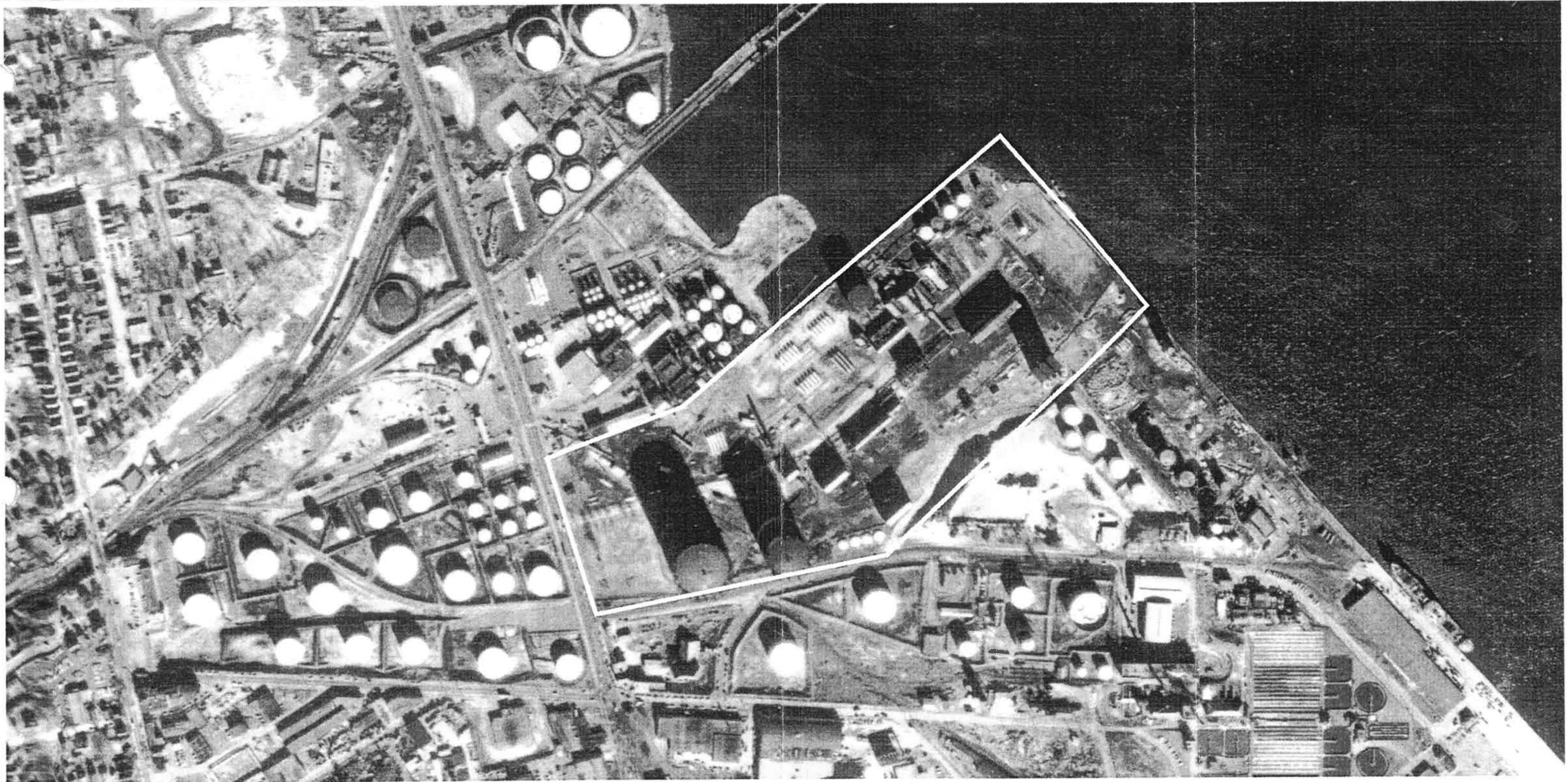
Vanasse Hangen Brustlin, Inc.

1939 Aerial Photograph  
642 Allens Avenue  
Providence, Rhode Island



Vanasse Hangen Brustlin, Inc.

1951 Aerial Photograph  
642 Allens Avenue  
Providence, Rhode Island



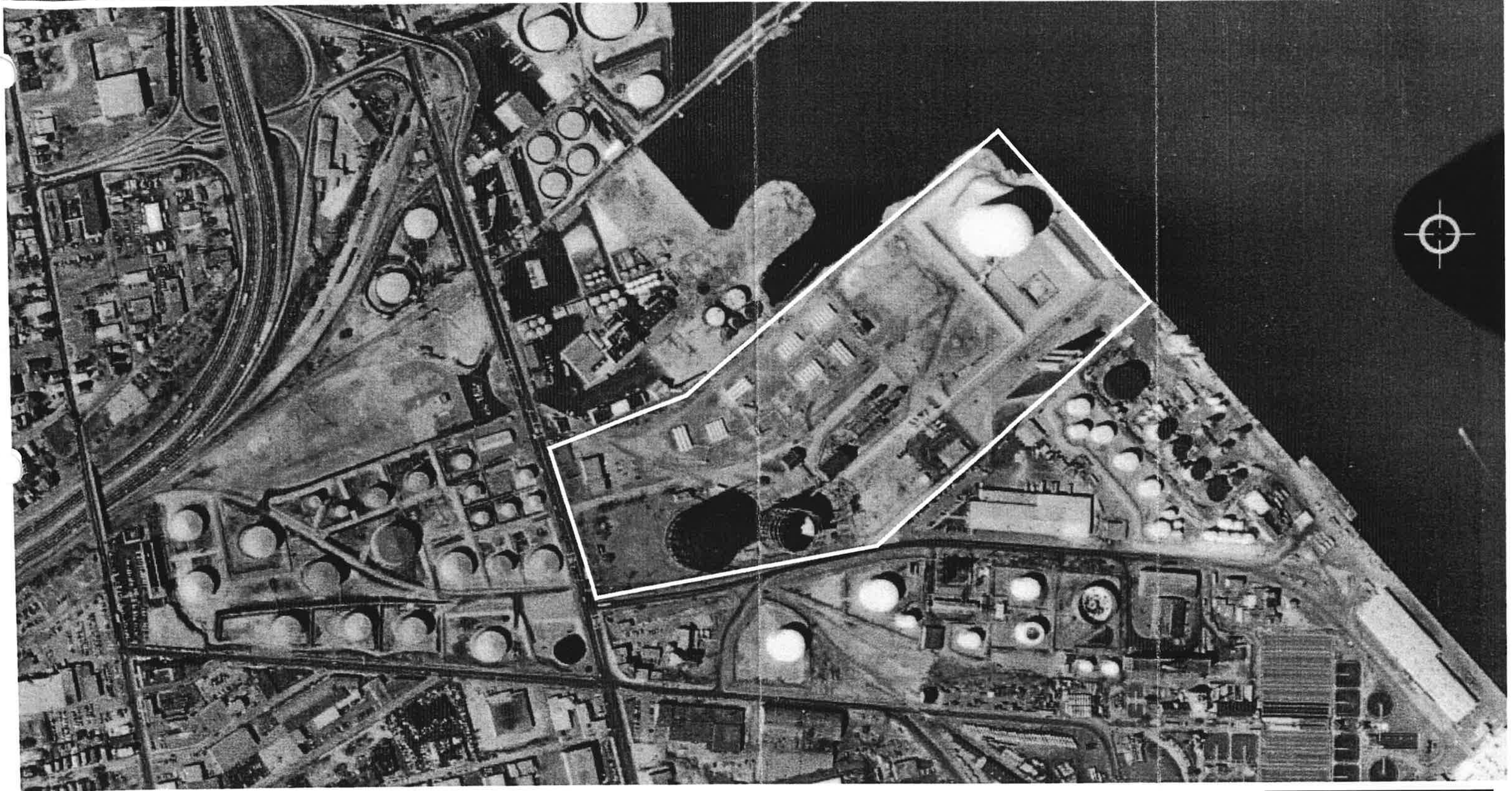
Vanasse Hangen Brustlin, Inc.

1962 Aerial Photograph  
642 Allens Avenue  
Providence, Rhode Island



Vanasse Hangen Brustlin, Inc.

1972 Aerial Photograph  
642 Allens Avenue  
Providence, Rhode Island



Vanasse Hangen Brustlin, Inc.

1981 Aerial Photograph  
642 Allens Avenue  
Providence, Rhode Island



Vanasse Hangen Brustlin, Inc.

1995 Aerial Photograph  
642 Allens Avenue  
Providence, Rhode Island



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# Appendix D – FirstSearch Report



**Environmental FirstSearch  
Search Summary Report**

**Target Site:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**FirstSearch Summary**

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2 >	ZIP	TOTALS
NPL	Y	05-08-02	1.00	0	0	0	0	0	0	0
CERCLIS	Y	05-08-02	0.50	0	0	1	3	-	0	4
RCRA TSD	Y	06-08-02	0.50	0	0	0	0	-	0	0
RCRA COR	Y	06-08-02	1.00	0	0	0	0	2	0	2
RCRA GEN	Y	06-08-02	0.25	1	1	11	-	-	0	13
RCRA NLR	N	06-08-02	0.25	-	-	-	-	-	-	-
ERNS	Y	12-31-01	0.25	0	2	17	-	-	0	19
NPDES	N	01-14-02	0.25	-	-	-	-	-	-	-
FINDS	N	07-08-01	0.25	-	-	-	-	-	-	-
TRIS	N	07-16-98	0.25	-	-	-	-	-	-	-
State Sites	Y	05-07-02	1.00	0	0	10	12	38	2	62
Spills-1990	Y	01-04-01	0.25	0	1	16	-	-	9	26
Spills-1980	N	NA	0.25	-	-	-	-	-	-	-
SWL	Y	01-24-01	0.50	0	0	0	0	-	0	0
Permits	N	NA	0.25	-	-	-	-	-	-	-
Other	N	NA	0.25	-	-	-	-	-	-	-
REG UST/AST	Y	02-19-01	0.25	0	1	17	-	-	0	18
Leaking UST	Y	05-07-02	0.50	0	1	3	12	-	0	16
State Wells	N	07-11-00	0.50	-	-	-	-	-	-	-
Aquifers	N	10-21-98	0.50	-	-	-	-	-	-	-
ACEC	N	03-15-00	0.50	-	-	-	-	-	-	-
Wetlands	N	11-20-00	0.50	-	-	-	-	-	-	-
Floodplains	N	05-13-98	0.50	-	-	-	-	-	-	-
Receptors	Y	01-01-95	0.50	0	0	0	0	-	0	0
Nuclear Permits	N	04-30-99	0.50	-	-	-	-	-	-	-
Historic/Landmark	N	03-08-01	0.50	-	-	-	-	-	-	-
Federal Land Use	N	06-17-98	0.50	-	-	-	-	-	-	-
Federal Wells	N	NA	0.50	-	-	-	-	-	-	-
Releases(Air/Water)	N	12-31-01	0.25	-	-	-	-	-	-	-
- TOTALS -				1	6	75	27	40	11	160

**Notice of Disclaimer**

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to DataMap Technology Corp., certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in DataMap Technology Corp.'s databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

**Waiver of Liability**

Although DataMap Technology Corp. uses its best efforts to research the actual location of each site, DataMap Technology Corp. does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of DataMap Technology Corp.'s services proceeding are signifying an understanding of DataMap Technology Corp.'s searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

# *DataMap Technology Corporation*

## **Environmental FirstSearch™ Report**

TARGET PROPERTY:

**642 ALLENS AVE**

**PROVIDENCE RI 02905**

Job Number: 71274

**PREPARED FOR:**

Vanasse Hangen Brustlin, Inc.

530 Broadway

Providence, RI 02909

08-01-02



*Tel: (781) 320-3720*

*Fax: (781) 320-3715*

**Environmental FirstSearch  
Site Information Report**

**Request Date:** 08-01-02  
**Requestor Name:** Claude Masse  
**Standard:** ASTM

**Search Type:** COORD  
**Job Number:** 71274  
**FILTERED REPORT**

**Target Address:** 642 ALLENS AVE  
 PROVIDENCE RI 02905

*Demographics*

<b>Sites:</b> 160	<b>Non-Geocoded:</b> 11	<b>Population:</b> NA
<b>Radon:</b> 0.7 -3.1 PCI/L		

*Site Location*

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>		<u>UTMs</u>
<b>Longitude:</b>	-71.398252	-71:23:54	<b>Easting:</b>	300741.339
<b>Latitude:</b>	41.797305	41:47:50	<b>Northing:</b>	4629838.706
			<b>Zone:</b>	19

*Comment*

**Comment:**

*Additional Requests/Services*

<b>Adjacent ZIP Codes:</b> 0.00 Mile(s)					<b>Services:</b>																																				
<table border="1"> <thead> <tr> <th>ZIP Code</th> <th>City Name</th> <th>ST</th> <th>Dist/Dir</th> <th>Sel</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>					ZIP Code	City Name	ST	Dist/Dir	Sel						<table border="1"> <thead> <tr> <th></th> <th><u>Requested?</u></th> <th><u>Date</u></th> </tr> </thead> <tbody> <tr> <td>Sanborns</td> <td>N</td> <td></td> </tr> <tr> <td>Aerial Photographs</td> <td>N</td> <td></td> </tr> <tr> <td>Topo Maps (hardcopy)</td> <td>N</td> <td></td> </tr> <tr> <td>City Directories</td> <td>N</td> <td></td> </tr> <tr> <td>Title Search</td> <td>N</td> <td></td> </tr> <tr> <td>Municipal Reports</td> <td>N</td> <td></td> </tr> <tr> <td>Online Topo Map</td> <td>N</td> <td></td> </tr> </tbody> </table>				<u>Requested?</u>	<u>Date</u>	Sanborns	N		Aerial Photographs	N		Topo Maps (hardcopy)	N		City Directories	N		Title Search	N		Municipal Reports	N		Online Topo Map	N	
ZIP Code	City Name	ST	Dist/Dir	Sel																																					
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City Directories	N																																								
Title Search	N																																								
Municipal Reports	N																																								
Online Topo Map	N																																								

## Environmental FirstSearch Sites Summary Report

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**TOTAL:** 160      **GEOCODED:** 149      **NON GEOCODED:** 11      **SELECTED:** 0

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
1	CERCLIS	BOLIDEN METECH, INC. RID981885023/NOT PROPOSED	434 ALLENS AVENUE PROVIDENCE RI 02905	0.33 NW	1
2	CERCLIS	BOSCO TRUCKING RID075705327/NFRAP-N	RUGBY STREET & PAVILION AVENUE PROVIDENCE RI 02905	0.42 SW	2
3	CERCLIS	ROGER WILLIAMS HOME SITE RI0001414408/NFRAP-N	THURBERS AVE PROVIDENCE RI 02903	0.49 NW	6
4	CERCLIS	TEXACO USA DIV OF TEXACO INC. RID059741520/NFRAP-N	520 ALLENS AVENUE PROVIDENCE RI 02905	0.15 NW	7
5	RCRACOR	NARRAGANSETT IMPROVEMENT CO RID006807911/NLR	223 ALLENS AVE PROVIDENCE RI 02903	0.77 NW	8
6	RCRACOR	NORTHLAND ENVIRONMENTAL INC RID040098352/TSD	275 ALLENS AVE PROVIDENCE RI 02905	0.69 NW	5
7	RCRAGN	BISHOP TERMINAL SERVICE LLC RID005909957/SGN	35 TERMINAL RD PROVIDENCE RI 02905	0.14 SE	10
8	RCRAGN	FERGUSON PERFORATING & WIRE CO RID001198399/SGN	130 ERNEST ST PROVIDENCE RI 02905	0.21 SW	11
9	RCRAGN	GUERRERA R J INC RI5000010231/SGN	470 ALLENS AVE PROVIDENCE RI 02905	0.21 NW	12
10	RCRAGN	HUDSON TERM CORP RID981894967/SGN	29 TERMINAL RD PROVIDENCE RI 02905	0.14 SE	10
11	RCRAGN	LEHIGH PORTLAND CEMENT CO RID048972681/SGN	25 TERMINAL RD MUNICIPAL WHARF PROVIDENCE RI 02905	0.14 SE	13
12	RCRAGN	NEW ENGLAND GAS CO ALLENS RID007918774/VGN	642 ALLENS AVE PROVIDENCE RI 02905	0.16 SE	16
13	RCRAGN	PROVIDENCE CITY OF D P W RID982762742/SGN	20 ERNEST ST PROVIDENCE RI 02905	0.25 SE	17
14	RCRAGN	QUINLAN COMPANIES THE RIR000015115/SGN	125 ERNEST ST PROVIDENCE RI 02905	0.18 SW	18
15	RCRAGN	REFINING ONE INC RI5000001065/SGN	85 ELLENFIELD ST PROVIDENCE RI 02905	0.24 SW	19
16	RCRAGN	SOLUBLE METALS INC RID987487212/SGN	85 ELLENFIELD ST PROVIDENCE RI 02905	0.24 SW	19
17	RCRAGN	STAR ENTERPRISE RID059741520/LGN	520 ALLENS AVE PROVIDENCE RI 02905	0.15 NW	7
18	RCRAGN	TEXACO SERVICE STA RID987471224/SGN	540 ALLENS AVE PROVIDENCE RI 02905	0.10 NW	22
19	RCRAGN	WEST BAY TRANSPORTATION INC RIR000500082/SGN	101 TERMINAL RD PROVIDENCE RI 02905	0.15 SE	24
20	ERNS	BOUCHARD TRANSPORTATION 478949/UNKNOWN	CITGO PETROLEUM PROVIDENCE RI 02905	0.16 SE	25

## Environmental FirstSearch Sites Summary Report

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**TOTAL:** 160      **GEOCODED:** 149      **NON GEOCODED:** 11      **SELECTED:** 0

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
21	ERNS	CITIZEN PETROLEUM 575133/UNKNOWN	130 TERMINAL ROAD PROVIDENCE RI 02905	0.20 SE	26
22	ERNS	PROVIDENCE GAS 575128/UNKNOWN (NRC)	ALLENS AVE PROVIDENCE RI 02905	0.16 SE	16
23	ERNS	REINAUER TRANSPORT CO 413437/UNKNOWN	STAR TERMINALS 520 ALLENS AVE PROVIDENCE RI 02905	0.15 NW	7
24	ERNS	STAR ENTERPRISE 487822/UNKNOWN	520 ALLENS AVE PROVIDENCE RI 02905	0.15 NW	7
25	ERNS	STAR ENTERPRISE 279524/FIXED FACILITY	520 ALLENS AVENUE PROVIDENCE RI 02903	0.15 NW	7
26	ERNS	STAR ENTERPRISE 584986/FIXED FAC./AST	520 ALLENS AVE PROVIDENCE RI 02905	0.15 NW	7
27	ERNS	STAR ENTERPRISE 575131/UNKNOWN	ALLENS AVE EAST PROVIDENC RI 02914	0.15 NW	7
28	ERNS	STAR ENTERPRISE TEXACO 565660/UNKNOWN	520 ALLENS AVE NORTH SIDE OF D PROVIDENCE RI 02905	0.15 NW	7
29	ERNS	STAR ENTERPRISES 251996/FIXED FACILITY	520 ALLENS AVE PROVIDENCE RI 02903	0.15 NW	7
30	ERNS	SUN OIL 426245/UNKNOWN (NRC)	35 TERMINAL RD. PROVIDENCE RI 02905	0.14 SE	10
31	ERNS	UNKNOWN 425998/HIGHWAY RELATED	ERNEST & ALLENS AVE. PROVIDENCE RI 02905	0.18 SE	27
32	ERNS	D50266/FIX FAC	520 ISLANDS AVE PROVIDENCE RI 02905	0.15 NW	7
33	ERNS	L41278/FIX FAC	ALLENS AVE PROVIDENCE RI 02905	0.15 NW	7
34	ERNS	NRC-589143/FIXED	HUDSON TERMINAL 29 TERMINAL RD PROVIDENCE RI 20905	0.12 SE	28
35	ERNS	X41325/UNKNOWN	35 TERMINAL RD. PROVIDENCE RI 02905	0.14 SE	10
36	ERNS	NRC-568101/FIXED	29 TERMINAL RD PROVIDENCE RI 02905	0.12 SE	28
37	ERNS	D40832/HIGHWAY	PROVIDENCE RI 02915	0.18 SE	29
38	ERNS	D20467/FIX FAC	520 ALLENS AVE PROVIDENCE RI 02905	0.15 NW	7
39	STATE	ALLEN S MANUFACTURING CO. INC. AMCI-HWM/ACTIVE	89 SHIPYARD STREET PROVIDENCE RI 02905	0.56 SE	30
40	STATE	ARMED FORCES RESERVE CENTER AFRC-DOD/INACTIVE	FIELDS POINT PROVIDENCE RI 02905	0.98 SE	31

*ERNS- EMERGENCY RESPONSE NOTIFICATION SYSTEM*

**Environmental FirstSearch  
Sites Summary Report**

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**TOTAL:** 160      **GEOCODED:** 149      **NON GEOCODED:** 11      **SELECTED:** 0

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
41	STATE	ARMED FORCES RESERVE CENTER ASRC-HWM/INACTIVE	NARRAGANSETT ST-FIELDS POINT PROVIDENCE RI 02907	0.98 SE	31
42	STATE	ASTRO PLATING ASP-HWM/ACTIVE	165 RHODES STREET PROVIDENCE RI 02903	0.89 NW	32
43	STATE	AUDIT (E.W.) AND SONS EAAS-HWM/INACTIVE	169 BAY STREET PROVIDENCE RI 02905	0.76 NW	3
44	STATE	AUDIT (E.W.) AND SONS EAAS-SFA/INACTIVE	169 BAY STREET PROVIDENCE RI 02905	0.76 NW	3
45	STATE	AUTO FLUFF/PROMET CORPORATION AFPR-HWM/INACTIVE	242 ALLENS AVENUE PROVIDENCE RI 02905	0.72 NW	33
46	STATE	BOLIDEN METECH BOL-SFA/ACTIVE	434 ALLENS AVENUE PROVIDENCE RI 02905	0.33 NW	1
47	STATE	BOLIDEN METECH BOLI-HWM/ACTIVE	434 ALLENS AVENUE PROVIDENCE RI 02905	0.33 NW	1
48	STATE	BOSCO TRUCKING BOTR-SFA/INACTIVE	RUGBY AND PAVILLION STREET PROVIDENCE RI 02905	0.42 SW	2
49	STATE	BREITENSTEIN, C.B. BCB-HWM/INACTIVE	91 MINER STREET PROVIDENCE RI 02905	0.75 NW	34
50	STATE	CITGO PETROLEUM CORPORATION CITG-HWM/ACTIVE	25 ERNEST STREET PROVIDENCE RI 02905	0.23 SE	35
51	STATE	CITY PLATING CPL-HWM/ACTIVE	165 POE STREET PROVIDENCE RI 02905	0.47 NW	36
52	STATE	CITY TIRE COMPANY (FORMER) CTC-HWM/ACTIVE	210 ALLENS AVENUE PROVIDENCE RI	0.74 NW	37
53	STATE	ESCO ESCO-HWM/INACTIVE	267 PLAIN STREET PROVIDENCE RI 02905	0.96 NW	38
54	STATE	FED LITHOGRAPHIC (FORMER)-QUEBECOR FFL-HWM/INACTIVE	369 PRAIRE AVENUE PROVIDENCE RI 02905	0.96 NW	39
55	STATE	FIELDS POINT DISPOSAL AREA FPDA-SFA/INACTIVE	NEW YORK AVENUE PROVIDENCE RI 02905	0.51 SE	4
56	STATE	FIELDS POINT WWTF FPWW-HWM/ACTIVE	2 ERNEST STREET PROVIDENCE RI 02908	0.40 SE	15
57	STATE	GEORGE MANN COMPANY GMCT-HWM/ACTIVE	175 TERMINAL ROAD PROVIDENCE RI 02905	0.27 SE	23
58	STATE	GEORGE MANN COMPANY GMCO-HWM/ACTIVE	1 HARBORSIDE BOULEVARD PROVIDENCE RI 02905	0.97 SE	40
59	STATE	GORDON AVENUE SCHOOL GASP-HWM/ACTIVE	68 GORDON AVENUE PROVIDENCE RI 02905	0.97 NW	41
60	STATE	GRAND FURNITURE & TOURTELLOT PRODUC GFTP-HWM/ACTIVE	42 HASWELL STREET PROVIDENCE RI 02905	0.45 NW	42

## Environmental FirstSearch Sites Summary Report

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**TOTAL:** 160      **GEOCODED:** 149      **NON GEOCODED:** 11      **SELECTED:** 0

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
61	STATE	HARBORSIDE PARK - PARCEL 5A/5B HARB-HWM/ACTIVE	HARBORSIDE BLVD. PROVIDENCE RI 02905	0.93 SE	43
62	STATE	HARBORSIDE PARK - PARCEL 7/8 HBSP-HWM/ACTIVE	250 & 310 SHIPYARD STREET PROVIDENCE RI 02905	0.73 SE	44
63	STATE	HUDSON LIQUID ASPHALTS INC HLA-HWM/ACTIVE	1 SERVICE ROAD PROVIDENCE RI 02905	0.39 SE	14
64	STATE	IMPROVED LAMINATED METALS (FORMER) ILME-HWM/ACTIVE	775 EDDY STREET PROVIDENCE RI 02905	0.78 NW	45
65	STATE	JEWELERS REFINERY JWLR-HWM/INACTIVE	85 ELLENFIELD STREET PROVIDENCE RI 02905	0.24 SW	19
66	STATE	JOHNSON & WALES UNIVERSITY PARCEL 9 J&WU-HWM/ACTIVE	HARBORSIDE BLVD PROVIDENCE RI 02905	0.91 SE	46
67	STATE	LEHIGH PORTLAND CEMENT COMPANY LPOR-HWM/ACTIVE	FIELDS POINT DRIVE/PROVPORT PROVIDENCE RI 02905	0.14 SE	13
68	STATE	MANDELLA WOODS (FAMILY DEVELOPMENT) MANW-HWM/INACTIVE	49 PAVILION AVENUE PROVIDENCE RI 02905	0.29 NW	47
69	STATE	NORTHEAST PETROLEUM, INC. NEPI-HWM/ACTIVE	170 ALLENS AVENUE PROVIDENCE RI 02903	0.81 NW	48
70	STATE	NORTHLAND ENVIR. INC. (STABLEX) NLEI-SFA/INACTIVE	252 & 275 ALLENS AVENUE PROVIDENCE RI 02905	0.69 NW	5
71	STATE	PATRIOT METALS PMET-HWM/ACTIVE	1 NEW YORK AVENUE PROVIDENCE RI 02905	0.66 SE	49
72	STATE	PROVIDENCE GAS CO.-AA PGC-HWM/ACTIVE	642 ALLENS AVENUE PROVIDENCE RI 02905	0.16 SE	16
73	STATE	PROVIDENCE GAS COMPANY (HOLDER) PGCH-HWM/ACTIVE	20 BLACKSTONE STREET PROVIDENCE RI 02903	0.99 NW	50
74	STATE	PROVIDENCE GAS MGP PROV. (SEE P.GAS) PGAS-HWM/INACTIVE	642 ALLENS AVENUE PROVIDENCE RI 02905	0.16 SE	16
75	STATE	PROVIDENCE PUBLIC BUILDING AUTHORIT PPBA-HWM/ACTIVE	182 THURBERS AVENUE PROVIDENCE RI 02905	0.47 NW	51
76	STATE	PROVIDENCE PUBLIC HOUSING AUTHORITY PPHA-HWM/ACTIVE	182 THURBERS AVENUE PROVIDENCE RI 02905	0.47 NW	51
77	STATE	PROVIDENCE PUBLIC WORKS PPWK-HWM/INACTIVE	ERNEST STREET PROVIDENCE RI 02905	0.25 SE	17
78	STATE	PROVIDENCE TERMINAL ASSOCIATES PTA-HWM/ACTIVE	25 ERNEST STREET PROVIDENCE RI 02905	0.23 SE	35
79	STATE	R. WILLIAMS HOME SITE (SEE MANDELLA) RWHS-SFA/INACTIVE	THURBER AVENUE PROVIDENCE RI 02905	0.49 NW	6
80	STATE	ROUTE 195 DOT PROJECT DT76-DOT/ACTIVE	PLAT 46 LOT 249-155 PUBLIC STR PROVIDENCE RI 02903	0.81 NW	52

## Environmental FirstSearch Sites Summary Report

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**TOTAL:** 160      **GEOCODED:** 149      **NON GEOCODED:** 11      **SELECTED:** 0

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
81	STATE	ROUTE 195 DOT PROJECT DT80-DOT/ACTIVE	PLAT 46 LOT 603-103 PUBLIC STR PROVIDENCE RI 02903	0.80 NW	53
82	STATE	ROUTE 195 DOT PROJECT DT86-DOT/ACTIVE	PLAT 47 LOT 800-141 POE STREET PROVIDENCE RI 02905	0.62 NW	54
83	STATE	ROUTE 195 DOT PROJECT DT87-DOT/ACTIVE	PLAT 47 LOT 802-125 POE STREET PROVIDENCE RI 02905	0.63 NW	55
84	STATE	ROUTE 195 DOT PROJECT DT82-DOT/ACTIVE	PLAT 46 LOT 605-153 PUBLIC ST PROVIDENCE RI 02903	0.81 NW	56
85	STATE	ROUTE 195 DOT PROJECT DT 77-DOT/ACTIVE	PLAT 46 LOT 414-162 O CONNELL PROVIDENCE RI 02905	0.74 NW	57
86	STATE	ROUTE 195 DOT PROJECT DT77-DOT/ACTIVE	PLAT 46 LOT 414-162 O CONNELL PROVIDENCE RI 02905	0.74 NW	57
87	STATE	ROUTE 195 DOT PROJECT DT75-DOT/ACTIVE	PLAT 46 LOT 144-702 EDDY STREE PROVIDENCE RI 02903	0.93 NW	58
88	STATE	ROUTE 195 DOT PROJECT DT78-DOT/ACTIVE	PLAT 46 LOT 530-170 RHODES STR PROVIDENCE RI 02903	0.87 NW	59
89	STATE	ROUTE 195 DOT PROJECT DT79-DOT/ACTIVE	PLAT 46 LOT 599-172 RHODES STR PROVIDENCE RI 02903	0.87 NW	60
90	STATE	ROUTE 195 DOT PROJECT DT85-DOT/ACTIVE	PLAT 46 LOT 617-722 EDDY STREE PROVIDENCE RI 02903	0.88 NW	61
91	STATE	ROUTE 195 DOT PROJECT DT74-DOT/ACTIVE	PLAT 48 LOT 143-694 EDDY STRET PROVIDENCE RI 02903	0.95 NW	62
92	STATE	ROUTE 195 DOT PROJECT DT83-DOT/ACTIVE	PLAT 46 LOT 611-20 BLACKSTONE PROVIDENCE RI 02907	0.99 NW	50
93	STATE	ROUTE 195 DOT PROJECT DT84-DOT/ACTIVE	PLAT 46 LOT 612-30 BLACKSTONE PROVIDENCE RI 02907	0.99 NW	63
94	STATE	SPRAGUE ENERGY CORP-PROV. TERMINAL SECP-HWM/ACTIVE	144 ALLENS AVENUE PROVIDENCE RI 02903	0.94 NW	64
95	STATE	STAR ENTERPRISE STEP-HWM/ACTIVE	520 ALLENS AVENUE PROVIDENCE RI 02905	0.15 NW	7
96	STATE	SUN TERMINAL SUN-HWM/ACTIVE	35 TERMINAL ROAD PROVIDENCE RI 02905	0.14 SE	10
97	STATE	TEXACO, STAR ENTERPRISES STEP-SFA/INACTIVE	520 ALLENS AVENUE PROVIDENCE RI 02905	0.15 NW	7
98	STATE	US ARMY RESERVE MAINT. ARM-SFA/INACTIVE	1 NARRAGANSETT AVENUE CRANSTON RI 02905	0.98 SE	31
99	SPILLS	29 TERMINAL ROAD 98-354	29 TERMINAL ROAD PROVIDENCE RI 02905	0.14 SE	10
100	SPILLS	520 ALLENS AVE 95-012	520 ALLENS AVE PROVIDENCE RI 02905	0.15 NW	7



## Environmental FirstSearch Sites Summary Report

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**TOTAL:** 160      **GEOCODED:** 149      **NON GEOCODED:** 11      **SELECTED:** 0

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
101	SPILLS	520 ALLENS AVE 98-024	520 ALLENS AVE PROVIDENCE RI 02905	0.15 NW	7
102	SPILLS	520 ALLENS AVE 96-051	520 ALLENS AVE PROVIDENCE RI 02905	0.15 NW	7
103	SPILLS	520 ALLENS AVE 95-492	520 ALLENS AVE PROVIDENCE RI 02905	0.15 NW	7
104	SPILLS	540 ALLENS AVE 94-575	540 ALLENS AVE PROVIDENCE RI 02905	0.10 NW	22
105	SPILLS	642 ALLENS AVE 98-133	642 ALLENS AVE PROVIDENCE RI 02905	0.16 SE	16
106	SPILLS	642 ALLENS AVE 98-186	642 ALLENS AVE PROVIDENCE RI 02905	0.16 SE	16
107	SPILLS	ALLENS & ERNEST 94-572	PROVIDENCE RI 02905	0.18 SE	27
108	SPILLS	GULF OIL 94-160	520 ALLENS AVE PROVIDENCE RI 02905	0.15 NW	7
109	SPILLS	PROVIDENCE GAS COMPANY 93-048	ALLENS AVENUE PROVIDENCE RI 02905	0.16 SE	16
110	SPILLS	STAR 94-591	ALLENS AVE PROVIDENCE RI 02905	0.15 NW	7
111	SPILLS	STAR ENTERPRISE 94-513	520 ALLENS AVE PROVIDENCE RI 02905	0.15 NW	7
112	SPILLS	STAR ENTERPRISES 94-276	520 ALLENS AVE PROVIDENCE RI 02905	0.15 NW	7
113	SPILLS	TRUCK 94-364	520 ALLENS AVE PROVIDENCE RI 02905	0.15 NW	7
114	SPILLS	12041	35 TERMINAL ROAD PROVIDENCE RI 02905	0.14 SE	10
115	SPILLS	12149	642 ALLENS AVE PROVIDENCE RI 02905	0.16 SE	16
116	UST	ALLENS AVENUE FIRE STATION 03261	776 ALLENS AVENUE PROVIDENCE RI 02905	0.23 SE	66
117	UST	AMICA MUTUAL INSURANCE COMPANY 00684	1 BAKER STREET PROVIDENCE RI 02905	0.24 SE	67
118	UST	ARGONNE JEWELRY CO INC 02626	45 BAKER STREET PROVIDENCE RI 02905	0.25 SW	68
119	UST	BAKER STREET REALTY ASSOC LLC 03499	35 BAKER STREET PROVIDENCE RI 02905	0.25 SW	69
120	UST	FERGUSON PERFORATING AND WIRE CO 02404	130 ERNEST STREET PROVIDENCE RI 02905	0.21 SW	11

## Environmental FirstSearch Sites Summary Report

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**TOTAL:** 160      **GEOCODED:** 149      **NON GEOCODED:** 11      **SELECTED:** 0

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
121	UST	HIGHWAY GARAGE (DPW) 18726	20 ERNEST ST PROVIDENCE RI 02905	0.25 SE	17
122	UST	HUDSON TERMINAL CORPORATION 03500	29 TERMINAL ROAD PROVIDENCE RI 02905	0.14 SE	10
123	UST	J.J. HUDSON COMPANY 01705	25 TERMINAL ROAD PROVIDENCE RI 02905	0.14 SE	13
124	UST	JRS REFINERS INC 03203	P O BOX 2299 PROVIDENCE RI 02905	0.24 SW	19
125	UST	LITTLE & CO INC 00682	697 ALLENS AVENUE PROVIDENCE RI 02905	0.20 SE	71
126	UST	MUNICIPAL GARAGE (DPW) 18725	30 ERNEST ST PROVIDENCE RI 02905	0.23 SE	72
127	UST	PROVIDENCE GAS CO/GAS SUPPLY DIV 01352	642 ALLENS AVE PROVIDENCE RI 02905	0.16 SE	16
128	UST	SANITARY GARAGE 18718	100 TERMINAL ROAD PROVIDENCE RI 02905	0.17 SE	74
129	UST	SHANE REALTY, LLC 00683	125 ERNEST STREET PROVIDENCE RI 02905	0.18 SW	18
130	UST	STAR ENTERPRISE 00488	520 ALLENS AVENUE PROVIDENCE RI 02905	0.15 NW	7
131	UST	STAR ENTERPRISE CUMBERLAND FARMS 03189	520 ALLENS AVENUE PROVIDENCE RI 02905	0.15 NW	7
132	UST	SUN REFINING AND MARKETING CO 01250	35 TERMINAL ROAD PROVIDENCE RI 02905	0.14 SE	10
133	UST	TEXACO 00429	540 ALLENS AVENUE PROVIDENCE RI 02905	0.10 NW	22
134	LUST	ARDENTE SUPPLY 28151-ST/SRO - SOIL REMOVAL O	217 CHAPMAN ST PROVIDENCE RI 02905	0.35 SW	21
135	LUST	ARMBRUST CHAIN CORP. 2854-LS/I - INACTIVE	735 ALLENS AVE. PROVIDENCE RI 02905	0.31 SE	9
136	LUST	BANK OF BOSTON PROPERTY 28136-ST/SRO - SOIL REMOVAL O	75 BAKER ST PROVIDENCE RI 02905	0.27 SW	73
137	LUST	DES OFFSET 28174-ST/SRO - SOIL REMOVAL O	55 JOHNSON STREET PROVIDENCE RI 02905	0.34 SW	70
138	LUST	DRAKE PETROLEUM 2863-LS/A - ACTIVE	355 ALLENS AVENUE PROVIDENCE RI 02905	0.45 NW	65
139	LUST	GEORGE MANN & CO INC 28196-LS/SRO - SOIL REMOVAL O	175 TERMINAL RD PROVIDENCE RI 02905	0.27 SE	23
140	LUST	HUDSON LIQUID ASPHALT 28193-LS/SRO - SOIL REMOVAL O	1 SERVICE ROAD PROVIDENCE RI 02905	0.39 SE	14

***Environmental FirstSearch  
Sites Summary Report***

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**TOTAL:** 160      **GEOCODED:** 149      **NON GEOCODED:** 11      **SELECTED:** 0

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
141	LUST	L. RUSSO TRUCKING 28180-LS/SRO - SOIL REMOVAL O	5 SHIPYARD STREET PROVIDENCE RI 02905	0.31 SE	20
142	LUST	MANDELLA WOODS (FAMILY DEVELOPMENT 2893-ST/I - INACTIVE	49 PAVILLION AVENUE PROVIDENCE RI 02905	0.29 NW	47
143	LUST	NARRAGANSETT BAY COMMISION 2827-LS/I - INACTIVE	FIELDS PT. PROVIDENCE RI 02905	0.40 SE	15
144	LUST	PETRO OIL 2806-LS/I - INACTIVE	POE STREET @ PLEASURE STREET PROVIDENCE RI 02905	0.49 NW	75
145	LUST	PUBLIC WORKS DEPARTMENT CITY OF PRO 28217-LS/SRO - SOIL REMOVAL O	ERNEST STREET PROVIDENCE RI 02905	0.25 SE	17
146	LUST	ROGER WILLIAMS HOUSING PROJECT 2820-LS/NO	PROVIDENCE RI	0.49 NW	6
147	LUST	STAR ENTERPRISE SERVICE STATION 2807-LS/I - INACTIVE	540 ALLENS AVENUE PROVIDENCE RI 02905	0.10 NW	22
148	LUST	SUN TERMINAL 28110-LS/NO	35 TERMINAL ROAD PROVIDENCE RI 02905	0.14 SE	10
149	LUST	SUN TERMINAL 28110-ST/I - INACTIVE	35 TERMINAL ROAD PROVIDENCE RI 02905	0.14 SE	10

**Environmental FirstSearch  
Sites Summary Report**

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**TOTAL:** 160      **GEOCODED:** 149      **NON GEOCODED:** 11      **SELECTED:** 0

<b>ID</b>	<b>DB Type</b>	<b>Site Name/ID/Status</b>	<b>Address</b>	<b>Dist/Dir</b>	<b>Map ID</b>
150	STATE	CNC CHEMICAL CNCC-HWM/INACTIVE	EDDY STREET PROVIDENCE RI 02905	NON GC	
151	STATE	NARRAGANSETT ELECTRIC POLE 19 NE19-HWM/ACTIVE	SMITH STREET CRANSTON RI 02905	NON GC	
152	SPILLS	75 ELLENFIELD ST 96-040	75 ELLENFIELD ST CRANSTON RI 02905	NON GC	
153	SPILLS	ALLENS AVE 96-277	ALLENS AVE PROVIDENCE RI	NON GC	
154	SPILLS	ALLENS AVE 98-235	ALLENS AVE PROVIDENCE RI	NON GC	
155	SPILLS	ALLENS AVE 99-518	ALLENS AVE PROVIDENCE RI 02905	NON GC	
156	SPILLS	ALLENS AVE 99-405	ALLENS AVE PROVIDENCE RI 02905	NON GC	
157	SPILLS	ALLENS AVE 97-198	ALLENS AVE PROVIDENCE RI	NON GC	
158	SPILLS	ALLENS AVE 95-100	ALLENS AVE PROVIDENCE RI	NON GC	
159	SPILLS	94-005	TERMINAL ROAD PROVIDENCE RI 02905	NON GC	
160	SPILLS	12147	ALLENS AVE ENTRANCE RA PROVIDENCE RI	NON GC	

# Environmental FirstSearch Site Detail Report

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

## CERCLIS SITE

**SEARCH ID:** 1                                  **DIST/DIR:** 0.33 NW                                  **MAP ID:** 1

<b>NAME:</b> BOLIDEN METECH, INC.	<b>REV:</b> 5/8/02
<b>ADDRESS:</b> 434 ALLENS AVENUE PROVIDENCE RI 02905	<b>ID1:</b> RID981885023
	<b>ID2:</b> 0101408
	<b>STATUS:</b> NOT PROPOSED
<b>CONTACT:</b>	<b>PHONE:</b>

**DESCRIPTION:**

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
SITE REASSESSMENT Low	EPA Fund-Financed		08-02-2001
DISCOVERY	State, Fund Financed		02-05-1987
PRELIMINARY ASSESSMENT Low	State, Fund Financed		09-01-1989
SITE INSPECTION Low	EPA Fund-Financed		02-23-1993

**Environmental FirstSearch  
Site Detail Report**

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

CERCLIS SITE

**SEARCH ID:** 2                                      **DIST/DIR:** 0.42 SW                                      **MAP ID:** 2

<b>NAME:</b>	BOSCO TRUCKING	<b>REV:</b>	5/8/02
<b>ADDRESS:</b>	RUGBY STREET & PAVILION AVENUE PROVIDENCE RI 02908	<b>ID1:</b>	RID075705327
		<b>ID2:</b>	0101260
		<b>STATUS:</b>	NFRAP-N
<b>CONTACT:</b>		<b>PHONE:</b>	

**DESCRIPTION:**

<b>ACTION/QUALITY</b>	<b>AGENCY/RPS</b>	<b>START/RAA</b>	<b>END</b>
ARCHIVE SITE			05-10-1990
DISCOVERY	EPA Fund-Financed		04-01-1978
PRELIMINARY ASSESSMENT NFRAP (No Further Remedial Action Planned)	EPA Fund-Financed		05-10-1990

CERCLIS SITE

**SEARCH ID:** 3                                      **DIST/DIR:** 0.49 NW                                      **MAP ID:** 6

<b>NAME:</b>	ROGER WILLIAMS HOME SITE	<b>REV:</b>	5/8/02
<b>ADDRESS:</b>	THURBERS AVE PROVIDENCE RI 02903	<b>ID1:</b>	RI0001414408
		<b>ID2:</b>	0102882
		<b>STATUS:</b>	NFRAP-N
<b>CONTACT:</b>		<b>PHONE:</b>	

**DESCRIPTION:**

<b>ACTION/QUALITY</b>	<b>AGENCY/RPS</b>	<b>START/RAA</b>	<b>END</b>
ARCHIVE SITE			01-09-1997
REMOVAL ASSESSMENT	EPA Fund-Financed Primary	06-25-1996	11-27-1996

***Environmental FirstSearch  
Site Detail Report***

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**CERCLIS SITE**

**SEARCH ID:** 4                                  **DIST/DIR:** 0.15 NW                                  **MAP ID:** 7

<p><b>NAME:</b> TEXACO USA DIV OF TEXACO INC. <b>ADDRESS:</b> 520 ALLENS AVENUE PROVIDENCE RI 02905</p>	<p><b>REV:</b> 5/8/02 <b>ID1:</b> RID059741520 <b>ID2:</b> 0101248 <b>STATUS:</b> NFRAP-N <b>PHONE:</b></p>
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**CONTACT:**

**DESCRIPTION:**

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
ARCHIVE SITE			02-01-1983
DISCOVERY	EPA Fund-Financed		06-01-1981
PRELIMINARY ASSESSMENT NFRAP (No Further Remedial Action Planned)	EPA Fund-Financed		02-01-1983

*Environmental FirstSearch*  
*Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

RCRA COR SITE

**SEARCH ID:** 5                                      **DIST/DIR:** 0.77 NW                                      **MAP ID:** 8

**NAME:** NARRAGANSETT IMPROVEMENT CO  
**ADDRESS:** 223 ALLENS AVE  
PROVIDENCE RI 02903  
**CONTACT:** KIRKE EVERSON

**REV:** 3/11/02  
**ID1:** RID006807911  
**ID2:**  
**STATUS:** NLR  
**PHONE:** 4013317420

**SITE INFORMATION**

**CONTACT INFORMATION:** KIRKE EVERSON  
223 ALLENS AVE  
PROVIDENCE RI 02905  
**PHONE:** 4013317420

**CONTACT INFORMATION:** KIRKE EVERSON  
223 ALLENS AVE  
PROVIDENCE RI 02903  
**PHONE:** 4013317420

**UNIVERSE NAME:**

NO LONGER REGULATED

**SIC INFORMATION:**

4226 - TRANS. & UTILITIES - SPECIAL WAREHOUSING AND STORA  
5171 - WHOLESALE TRADE - PETROLEUM BULK STATIONS AND TERM  
2951 - MANUFACTURING - ASPHALT PAVING MIXTURES AND BLOCKS  
2992 - MANUFACTURING - LUBRICATING OILS AND GREASES

**ENFORCEMENT INFORMATION:**

**AGENCY:** S - STATE                      **DATE:** 16-SEP-91  
**TYPE:** 210 - INITIAL 3008(A) COMPLIANCE ORDER

**AGENCY:** S - STATE                      **DATE:** 25-AUG-89  
**TYPE:** 120 - WRITTEN INFORMAL

**VIOLATION INFORMATION:**

**VIOLATION NUMBER:** 0004                      **RESPONSIBLE:** S - STATE  
**DETERMINED:** 05-DEC-86                      **DETERMINED BY:** S - STATE  
**CITATION:**                                      **RESOLVED:** 25-AUG-89  
**TYPE:** DOT - TSD OTHER REQUIREMENTS (OVERSIGHT LEVEL)

**VIOLATION NUMBER:** 0005                      **RESPONSIBLE:** S - STATE  
**DETERMINED:** 22-AUG-89                      **DETERMINED BY:** S - STATE

- Continued on next page -

















*Environmental FirstSearch  
Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

RCRA GENERATOR SITE

**SEARCH ID:** 10

**DIST/DIR:** 0.14 SE

**MAP ID:** 10

**NAME:** HUDSON TERM CORP  
**ADDRESS:** 29 TERMINAL RD  
PROVIDENCE RI 02905

**REV:** 6/8/02  
**ID1:** RID981894967  
**ID2:**  
**STATUS:** SGN  
**PHONE:** 4019410500

**CONTACT:** DENNIS LEAMY

**SITE INFORMATION**

**CONTACT INFORMATION:** GEORGE SOUSA  
29 TERMINAL RD  
PROVIDENCE RI 02905

**PHONE:** 4019410500

**UNIVERSE NAME:**

SGN: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

**SIC INFORMATION:**

**ENFORCEMENT INFORMATION:**

**VIOLATION INFORMATION:**



***Environmental FirstSearch  
Site Detail Report***

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**RCRA GENERATOR SITE**

**SEARCH ID:** 11                                      **DIST/DIR:** 0.14 SE                                      **MAP ID:** 13

<b>NAME:</b> LEHIGH PORTLAND CEMENT CO	<b>REV:</b> 6/8/02
<b>ADDRESS:</b> 25 TERMINAL RD MUNICIPAL WHARF PROVIDENCE RI 02905	<b>ID1:</b> RID048972681
	<b>ID2:</b>
<b>CONTACT:</b> R P MACDONNELL	<b>STATUS:</b> SGN
	<b>PHONE:</b> 4014676750

**SITE INFORMATION**

**CONTACT INFORMATION:** R P MACDONNELL  
TERMINAL MGR  
25 TERMINAL RD MUNICIPAL WHARF  
PROVIDENCE RI 02905

**PHONE:** 4014676750

**UNIVERSE NAME:**

SGN: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

**SIC INFORMATION:**

5032 - WHOLESALE TRADE - BRICK, STONE, AND RELATED MATERI

**ENFORCEMENT INFORMATION:**

**VIOLATION INFORMATION:**

**Environmental FirstSearch  
Site Detail Report**

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**RCRA GENERATOR SITE**

**SEARCH ID:** 12                      **DIST/DIR:** 0.16 SE                      **MAP ID:** 16

**NAME:** NEW ENGLAND GAS CO ALLENS  
**ADDRESS:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**REV:** 6/8/02  
**ID1:** RID007918774  
**ID2:**  
**STATUS:** VGN  
**PHONE:** 4012725040

**CONTACT:** MARC VIERA

**SITE INFORMATION**

**CONTACT INFORMATION:** ALEXANDER BOND  
100 WEYBOSSET ST  
PROVIDENCE RI 02903

**PHONE:** 4012725040

**UNIVERSE NAME:**

SGN: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

**SIC INFORMATION:**

4924 - TRANS. & UTILITIES - NATURAL GAS DISTRIBUTION

**ENFORCEMENT INFORMATION:**

**AGENCY:** S - STATE                      **DATE:** 05-MAR-90  
**TYPE:** 310 - FINAL 3008(A) COMPLIANCE ORDER

**AGENCY:** S - STATE                      **DATE:** 09-FEB-90  
**TYPE:** 210 - INITIAL 3008(A) COMPLIANCE ORDER

**AGENCY:** S - STATE                      **DATE:** 30-JAN-90  
**TYPE:** 120 - WRITTEN INFORMAL

**VIOLATION INFORMATION:**

**VIOLATION NUMBER:** 0001                      **RESPONSIBLE:** S - STATE  
**DETERMINED:** 19-JAN-90                      **DETERMINED BY:** S - STATE  
**CITATION:**                      **RESOLVED:** 01-MAY-1990  
**TYPE:** GER - GENERATOR ALL REQUIREMENTS

**VIOLATION NUMBER:** 0002                      **RESPONSIBLE:** S - STATE  
**DETERMINED:** 24-JAN-90                      **DETERMINED BY:** S - STATE  
**CITATION:**                      **RESOLVED:** 05-APR-1990  
**TYPE:** GER - GENERATOR ALL REQUIREMENTS

**VIOLATION NUMBER:** 0003                      **RESPONSIBLE:** S - STATE  
**DETERMINED:** 05-MAR-90                      **DETERMINED BY:** S - STATE  
**CITATION:**                      **RESOLVED:** 01-MAY-1990  
**TYPE:** GER - GENERATOR ALL REQUIREMENTS

# Environmental FirstSearch Site Detail Report

**TARGET SITE:** 642ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

## RCRA GENERATOR SITE

**SEARCH ID:** 13

**DIST/DIR:** 0.25 SE

**MAP ID:** 17

**NAME:** PROVIDENCE CITY OF D P W  
**ADDRESS:** 20 ERNEST ST  
PROVIDENCE RI 02905

**REV:** 6/8/02  
**ID1:** RID982762742  
**ID2:**

**CONTACT:** B-JAMES SUZMAN

**STATUS:** SGN  
**PHONE:** 4014677950

### SITE INFORMATION

**CONTACT INFORMATION:** B-JAMES SUZMAN  
D P W DIR  
700 ALLENS AVE  
PROVIDENCE RI 02905

**PHONE:** 4014677950

### UNIVERSE NAME:

SGN: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

### SIC INFORMATION:

### ENFORCEMENT INFORMATION:

<b>AGENCY:</b>	S - STATE	<b>DATE:</b>	13-SEP-96
<b>TYPE:</b>	120 - WRITTEN INFORMAL		

<b>AGENCY:</b>	S - STATE	<b>DATE:</b>	15-OCT-99
<b>TYPE:</b>	210 - INITIAL 3008(A) COMPLIANCE ORDER		

### VIOLATION INFORMATION:

<b>VIOLATION NUMBER:</b>	0001	<b>RESPONSIBLE:</b>	S - STATE
<b>DETERMINED:</b>	16-JUL-96	<b>DETERMINED BY:</b>	S - STATE
<b>CITATION:</b>	5.02 264.175	<b>RESOLVED:</b>	
<b>TYPE:</b>	GMC		

<b>VIOLATION NUMBER:</b>	0002	<b>RESPONSIBLE:</b>	S - STATE
<b>DETERMINED:</b>	16-JUL-96	<b>DETERMINED BY:</b>	S - STATE
<b>CITATION:</b>	5.08 262.11	<b>RESOLVED:</b>	
<b>TYPE:</b>	GHW		

<b>VIOLATION NUMBER:</b>	0003	<b>RESPONSIBLE:</b>	S - STATE
<b>DETERMINED:</b>	16-JUL-96	<b>DETERMINED BY:</b>	S - STATE
<b>CITATION:</b>	5.04 262.11	<b>RESOLVED:</b>	
<b>TYPE:</b>	GPT - GENERATOR PRE-TRANSPORT REQUIREMENTS		

<b>VIOLATION NUMBER:</b>	0004	<b>RESPONSIBLE:</b>	S - STATE
<b>DETERMINED:</b>	05-JAN-99	<b>DETERMINED BY:</b>	S - STATE
<b>CITATION:</b>	5.02 262.34	<b>RESOLVED:</b>	
<b>TYPE:</b>	GMC		

- Continued on next page -

## Environmental FirstSearch Site Detail Report

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

### RCRA GENERATOR SITE

**SEARCH ID:** 13                      **DIST/DIR:** 0.25 SE                      **MAP ID:** 17

<b>NAME:</b> PROVIDENCE CITY OF D P W	<b>REV:</b> 6/8/02
<b>ADDRESS:</b> 20 ERNEST ST PROVIDENCE RI 02905	<b>ID1:</b> RID982762742
	<b>ID2:</b>
	<b>STATUS:</b> SGN
<b>CONTACT:</b> B-JAMES SUZMAN	<b>PHONE:</b> 4014677950

<b>VIOLATION NUMBER:</b>	0005	<b>RESPONSIBLE:</b>	S - STATE
<b>DETERMINED:</b>	05-JAN-99	<b>DETERMINED BY:</b>	S - STATE
<b>CITATION:</b>	5.02 262.34	<b>RESOLVED:</b>	
<b>TYPE:</b>	GGR - GENERATOR GENERAL REQUIREMENTS		
<b>VIOLATION NUMBER:</b>	0006	<b>RESPONSIBLE:</b>	S - STATE
<b>DETERMINED:</b>	05-JAN-99	<b>DETERMINED BY:</b>	S - STATE
<b>CITATION:</b>	5.02 265.35	<b>RESOLVED:</b>	
<b>TYPE:</b>	GMC		
<b>VIOLATION NUMBER:</b>	0007	<b>RESPONSIBLE:</b>	S - STATE
<b>DETERMINED:</b>	05-JAN-99	<b>DETERMINED BY:</b>	S - STATE
<b>CITATION:</b>	5.02 265.174	<b>RESOLVED:</b>	
<b>TYPE:</b>	GIS		
<b>VIOLATION NUMBER:</b>	0008	<b>RESPONSIBLE:</b>	S - STATE
<b>DETERMINED:</b>	05-JAN-99	<b>DETERMINED BY:</b>	S - STATE
<b>CITATION:</b>	5.02 265.51	<b>RESOLVED:</b>	
<b>TYPE:</b>	GCP		
<b>VIOLATION NUMBER:</b>	0009	<b>RESPONSIBLE:</b>	S - STATE
<b>DETERMINED:</b>	05-JAN-99	<b>DETERMINED BY:</b>	S - STATE
<b>CITATION:</b>	5.02 265.16	<b>RESOLVED:</b>	
<b>TYPE:</b>	GPR		
<b>VIOLATION NUMBER:</b>	0010	<b>RESPONSIBLE:</b>	S - STATE
<b>DETERMINED:</b>	05-JAN-99	<b>DETERMINED BY:</b>	S - STATE
<b>CITATION:</b>	5.06 262.40	<b>RESOLVED:</b>	
<b>TYPE:</b>	GRR - GENERATOR RECORD KEEPING REQUIREMENTS		
<b>VIOLATION NUMBER:</b>	0011	<b>RESPONSIBLE:</b>	S - STATE
<b>DETERMINED:</b>	05-JAN-99	<b>DETERMINED BY:</b>	S - STATE
<b>CITATION:</b>	5.09	<b>RESOLVED:</b>	
<b>TYPE:</b>	GGR - GENERATOR GENERAL REQUIREMENTS		
<b>VIOLATION NUMBER:</b>	0012	<b>RESPONSIBLE:</b>	S - STATE
<b>DETERMINED:</b>	05-JAN-99	<b>DETERMINED BY:</b>	S - STATE
<b>CITATION:</b>	5.05 262.41	<b>RESOLVED:</b>	
<b>TYPE:</b>	GGR - GENERATOR GENERAL REQUIREMENTS		

*Environmental FirstSearch  
Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

RCRA GENERATOR SITE

**SEARCH ID:** 14

**DIST/DIR:** 0.18 SW

**MAP ID:** 18

**NAME:** QUINLAN COMPANIES THE  
**ADDRESS:** 125 ERNEST ST  
PROVIDENCE RI 02905

**REV:** 6/8/02  
**ID1:** RIR000015115  
**ID2:**  
**STATUS:** SGN  
**PHONE:** 4014615353

**CONTACT:** THOMAS QUINLAN

SITE INFORMATION

**CONTACT INFORMATION:** THOMAS QUINLAN  
PRES  
125 ERNEST ST  
PROVIDENCE RI 02905

**PHONE:** 4014615353

UNIVERSE NAME:

SGN: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

SIC INFORMATION:

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

*Environmental FirstSearch  
Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

RCRA GENERATOR SITE

**SEARCH ID:** 15

**DIST/DIR:** 0.24 SW

**MAP ID:** 19

**NAME:** REFINING ONE INC  
**ADDRESS:** 85 ELLENFIELD ST  
PROVIDENCE RI 02905

**REV:** 6/8/02  
**ID1:** RI5000001065  
**ID2:**  
**STATUS:** SGN  
**PHONE:** 4014672700

**CONTACT:** JEFF SITKIN

**SITE INFORMATION**

**CONTACT INFORMATION:** JEFF SITKIN  
PRESIDENT  
85 ELLENFIELD ST  
PROVIDENCE RI 02864

**PHONE:** 4014672700

**UNIVERSE NAME:**

SGN: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

**SIC INFORMATION:**

**ENFORCEMENT INFORMATION:**

**VIOLATION INFORMATION:**

*Environmental FirstSearch  
Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

RCRA GENERATOR SITE

**SEARCH ID:** 16

**DIST/DIR:** 0.24 SW

**MAP ID:** 19

**NAME:** SOLUBLE METALS INC  
**ADDRESS:** 85 ELLENFIELD ST  
PROVIDENCE RI 02903

**REV:** 6/8/02  
**ID1:** RID987487212  
**ID2:**  
**STATUS:** SGN  
**PHONE:** 4014672700

**CONTACT:** JEFFREY STIKIN

**SITE INFORMATION**

**CONTACT INFORMATION:** WILLIAM CONLAN  
PRESIDENT  
85 ELLENFIELD ST  
PROVIDENCE RI 02903

**PHONE:** 4014355543

**UNIVERSE NAME:**

SGN: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

**SIC INFORMATION:**

**ENFORCEMENT INFORMATION:**

**VIOLATION INFORMATION:**

*Environmental FirstSearch  
Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

RCRA GENERATOR SITE

**SEARCH ID:** 17

**DIST/DIR:** 0.15 NW

**MAP ID:** 7

**NAME:** STAR ENTERPRISE  
**ADDRESS:** 520 ALLENS AVE  
PROVIDENCE RI 02905

**REV:** 6/8/02  
**ID1:** RID059741520  
**ID2:**  
**STATUS:** LGN  
**PHONE:** 7132412258

**CONTACT:** SONDR A BIENVENU

SITE INFORMATION

**CONTACT INFORMATION:** SONDR A BIENVENU  
DISP COORD  
PO BOX 2099  
HOUSTON TX 772522099

**PHONE:** 7132412258

UNIVERSE NAME:

LGN: GENERATES MORE THAN 1000 KG/MONTH OF HAZARDOUS WASTE

SIC INFORMATION:

5171 - WHOLESALE TRADE - PETROLEUM BULK STATIONS AND TERM

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:



*Environmental FirstSearch  
Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

RCRA GENERATOR SITE

**SEARCH ID:** 18

**DIST/DIR:** 0.10 NW

**MAP ID:** 22

**NAME:** TEXACO SERVICE STA  
**ADDRESS:** 540 ALLENS AVE  
PROVIDENCE RI 02905

**REV:** 6/8/02  
**ID1:** RID987471224  
**ID2:**  
**STATUS:** SGN  
**PHONE:** 7132412258

**CONTACT:** SANDRA BIENVENU

SITE INFORMATION

**CONTACT INFORMATION:** JOHN-F LOVE  
303 FELLOWSHIP RD CW 18  
MOORESTOWN NJ 08057  
**PHONE:** 6098663233

UNIVERSE NAME:

SGN: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

SIC INFORMATION:

5541 - RETAIL TRADE - GASOLINE SERVICE STATIONS

ENFORCEMENT INFORMATION:

VIOLATION INFORMATION:

*Environmental FirstSearch  
Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

RCRA GENERATOR SITE

**SEARCH ID:** 19

**DIST/DIR:** 0.15 SE

**MAP ID:** 24

**NAME:** WEST BAY TRANSPORTATION INC  
**ADDRESS:** 101 TERMINAL RD  
PROVIDENCE RI 02905

**REV:** 6/8/02  
**ID1:** RIR000500082  
**ID2:**  
**STATUS:** SGN  
**PHONE:** 4019419905

**CONTACT:** LOUIS PELOPIDA

**SITE INFORMATION**

**CONTACT INFORMATION:** LOUIS PELOPIDA  
PRES  
101 TERMINAL RD  
PROVIDENCE RI 02905

**PHONE:** 4019419905

**UNIVERSE NAME:**

SGN: GENERATES 100 - 1000 KG/MONTH OF HAZARDOUS WASTE

**SIC INFORMATION:**

**ENFORCEMENT INFORMATION:**

**VIOLATION INFORMATION:**

*Environmental FirstSearch*  
*Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

EMERGENCY RESPONSE NOTIFICATION SITE

**SEARCH ID:** 20                                          **DIST/DIR:** 0.16 SE                                          **MAP ID:** 25

**NAME:** BOUCHARD TRANSPORTATION  
**ADDRESS:** CITGO PETROLEUM  
PROVIDENCE RI 02905

**REV:**  
**ID1:** 478949  
**ID2:**  
**STATUS:** UNKNOWN  
**PHONE:**

**CONTACT:**

**CERCLIS (Y/N):**

**MAT:** GASOLINE: AUTOMOTIVE (UNLEADED)                                          **QUANT:** 50 GALLONS

**LOCATION:** CITGO PETROLEUM  
**CITY:** HICKSVILLE NY 11801                                          **REPORTED:** 02/09/96

**SOURCE:** UNKNOWN                                          **MEDIUM:** WATER

**CAUSE:** T/B B-125 / PACKING GLAND ON A CARGO PUMP  
UNKNOWN

**ACT:** CLEANUP CREWS EN ROUTE / SHEEN DISSIPATING  
**BY:**

EMERGENCY RESPONSE NOTIFICATION SITE

**SEARCH ID:** 21                                          **DIST/DIR:** 0.20 SE                                          **MAP ID:** 26

**NAME:** CITIZEN PETROLEUM  
**ADDRESS:** 130 TERMINAL ROAD  
PROVIDENCE RI 02905

**REV:**  
**ID1:** 575133  
**ID2:**  
**STATUS:** UNKNOWN  
**PHONE:**

**CONTACT:**

**CERCLIS (Y/N):**

**MAT:** THIS IS A DRILL                                          **QUANT:** 0.00 UNKNOWN

**LOCATION:** 130 TERMINAL ROAD  
**CITY:** PROVIDENCE RI 02905-                                          **REPORTED:** 03/23/98

**SOURCE:** UNKNOWN                                          **MEDIUM:** WATER

**CAUSE:** UNKNOWN  
THIS IS ONLY A DRILL ON B-80 BARGE LEAKING FLANGE AND A B-80 BARGE LOST 200 G  
ALS #12 HEATING OIL @ 13:20

**ACT:** THIS IS THE INITIAL NOTIFICATION PHASE OF THE EXERCISE.  
**BY:**

**Environmental FirstSearch  
Site Detail Report**

**TARGET SITE:** 642ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**EMERGENCY RESPONSE NOTIFICATION SITE**

**SEARCH ID:** 22                              **DIST/DIR:** 0.16 SE                              **MAP ID:** 16

**NAME:** PROVIDENCE GAS  
**ADDRESS:** ALLENS AVE  
E.PROVIDENCE RI 02914

**REV:** 3/26/98  
**ID1:** 575128  
**ID2:**  
**STATUS:** UNKNOWN (NRC)  
**PHONE:**

**CONTACT:**

**SPILL INFORMATION**

**DATE OF SPILL:** 3/26/98                      **TIME OF SPILL:** 0000

**PRODUCT RELEASED (1):** CRESOTE  
**QUANTITY (1):** 1  
**UNITS (1):** UNK

**PRODUCT RELEASED (2):**  
**QUANTITY (2):**  
**UNITS (2):**

**PRODUCT RELEASED (3):**  
**QUANTITY (3):**  
**UNITS (3):**

**MEDIUM/MEDIA AFFECTED**

**AIR:** NO                                      **GROUNDWATER:** NO  
**LAND:** YES                                  **FIXED FACILITY:** NO  
**WATER:** YES                               **OTHER:** NO  
**WATERBODY AFFECTED BY RELEASE:** LAND>DRAIN>NARAGANSETT BAY

**CAUSE OF RELEASE**

**DUMPING:** NO                              **EQUIPMENT FAILURE:** NO  
**NATURAL PHENOMENON:** NO           **OPERATOR ERROR:** NO  
**OTHER CAUSE:** YES                      **TRANSP. ACCIDENT:** NO  
**UNKNOWN:** NO

**ACTIONS TAKEN:** IN PROCESS OF REMEDIATION  
**RELEASE DETECTION:** COAL GAS REFINERY  
**MISC. NOTES:**

**DISCHARGER INFORMATION**

**DISCHARGER ID:** 575128                      **DUN & BRADSTREET #:**  
**TYPE OF DISCHARGER:** PRIVATE ENTERPRISE  
**NAME OF DISCHARGER:** PROVIDENCE GAS  
**ADDRESS:** ALLENS AVE  
E.PROVIDENCE RI 02914-1208

## Environmental FirstSearch Site Detail Report

**TARGET SITE:** 642ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

### EMERGENCY RESPONSE NOTIFICATION SITE

<b>SEARCH ID:</b> 23	<b>DIST/DIR:</b> 0.15 NW	<b>MAP ID:</b> 7
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<b>NAME:</b> REINAUER TRANSPORT CO	<b>REV:</b>
<b>ADDRESS:</b> STAR TERMINALS 520 ALLENS AVE	<b>ID1:</b> 413437
PROVIDENCE RI 02905	<b>ID2:</b>
<b>CONTACT:</b>	<b>STATUS:</b> UNKNOWN
	<b>PHONE:</b>

**CERCLIS (Y/N):**

<b>MAT:</b>	GASOLINE: AUTOMOTIVE (UNLEADED),	<b>QUANT:</b> 40, GALLONS
<b>LOCATION:</b>	STAR TERMINALS 520 ALLENS AVE	
<b>CITY:</b>	STATEN ISLAND NY 10303	<b>REPORTED:</b> 01/19/95
<b>SOURCE:</b>	UNKNOWN	<b>MEDIUM:</b> WATER
<b>CAUSE:</b>	TANK BARGE RTC 31/OFFICIAL NUMBER D511288//VESSEL LEAKING OUT OF NR 4 PORT TA	
	NK/CAUSE UNKNOWN/SINGLE SKIN BARGE	
<b>ACT:</b>	OFFLOAD BARGE/CLEANUP CREWS ON SCENE/AREA BOOMED OFF	
<b>BY:</b>		

### EMERGENCY RESPONSE NOTIFICATION SITE

<b>SEARCH ID:</b> 24	<b>DIST/DIR:</b> 0.15 NW	<b>MAP ID:</b> 7
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<b>NAME:</b> STAR ENTERPRISE	<b>REV:</b>
<b>ADDRESS:</b> 520 ALLENS AVE	<b>ID1:</b> 487822
PROVIDENCE RI 02905	<b>ID2:</b>
<b>CONTACT:</b>	<b>STATUS:</b> UNKNOWN
	<b>PHONE:</b>

**CERCLIS (Y/N):**

<b>MAT:</b>	OIL, FUEL: NO. 2,	<b>QUANT:</b> 15 GALLONS
<b>LOCATION:</b>	520 ALLENS AVE	
<b>CITY:</b>	PROVIDENCE RI 02905	<b>REPORTED:</b> 02/12/96
<b>SOURCE:</b>	UNKNOWN	<b>MEDIUM:</b> AIR
<b>CAUSE:</b>	STORAGE TANK/UNKNOWN	
	UNKNOWN	
<b>ACT:</b>	MATERIAL CONTAINED IN A STEEL WALL DIKE	
<b>BY:</b>		

**Environmental FirstSearch  
Site Detail Report**

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**EMERGENCY RESPONSE NOTIFICATION SITE**

**SEARCH ID:** 25                      **DIST/DIR:** 0.15 NW                      **MAP ID:** 7

<b>NAME:</b> STAR ENTERPRISE	<b>REV:</b> 8/28/92
<b>ADDRESS:</b> 520 ALLENS AVENUE	<b>ID1:</b> 279524
PROVIDENCE RI 02903	<b>ID2:</b>
PROVIDENCE	<b>STATUS:</b> FIXED FACILITY
<b>CONTACT:</b>	<b>PHONE:</b>

**SPILL INFORMATION**

**DATE OF SPILL:** 8/28/92                      **TIME OF SPILL:** 0610

**PRODUCT RELEASED (1):** OIL, FUEL: NO. 2  
**QUANTITY (1):** 20  
**UNITS (1):** GAL

**PRODUCT RELEASED (2):**  
**QUANTITY (2):**  
**UNITS (2):**

**PRODUCT RELEASED (3):**  
**QUANTITY (3):**  
**UNITS (3):**

**MEDIUM/MEDIA AFFECTED**

<b>AIR:</b> NO	<b>GROUNDWATER:</b> NO
<b>LAND:</b> YES	<b>FIXED FACILITY:</b> NO
<b>WATER:</b> NO	<b>OTHER:</b> NO
<b>WATERBODY AFFECTED BY RELEASE:</b>	<b>SOIL:</b>

**CAUSE OF RELEASE**

<b>DUMPING:</b> NO	<b>EQUIPMENT FAILURE:</b> NO
<b>NATURAL PHENOMENON:</b> NO	<b>OPERATOR ERROR:</b> NO
<b>OTHER CAUSE:</b> NO	<b>TRANSP. ACCIDENT:</b> NO
<b>UNKNOWN:</b> NO	

**ACTIONS TAKEN:** RECOVERING THE LIQUID MATERIAL AND WILL REMOVE THE CONTAMINATED SOIL  
**RELEASE DETECTION:** STORAGE TANK/ HOLE  
**MISC. NOTES:** WILL NTFY EPAI

**DISCHARGER INFORMATION**

<b>DISCHARGER ID:</b> 279524	<b>DUN &amp; BRADSTREET #:</b>
<b>TYPE OF DISCHARGER:</b> PRIVATE ENTERPRISE	
<b>NAME OF DISCHARGER:</b> STAR ENTERPRISE	
<b>ADDRESS:</b> 520 ALLENS AVENUE	
PROVIDENCE RI 02903	

**Environmental FirstSearch  
Site Detail Report**

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**EMERGENCY RESPONSE NOTIFICATION SITE**

**SEARCH ID:** 26

**DIST/DIR:** 0.15 NW

**MAP ID:** 7

**NAME:** STAR ENTERPRISE  
**ADDRESS:** 520 ALLENS AVE  
PROVIDENCE RI 02905

**REV:** 6/17/98  
**ID1:** 584986  
**ID2:**  
**STATUS:** FIXED FAC./AST  
**PHONE:**

**CONTACT:**

**SPILL INFORMATION**

**DATE OF SPILL:** 6/17/98                      **TIME OF SPILL:** 0000

**PRODUCT RELEASED (1):** THIS IS AN EXERCISE  
**QUANTITY (1):** 0  
**UNITS (1):** UNK

**PRODUCT RELEASED (2):** #2 FUEL 15,000 LBL  
**QUANTITY (2):** 0  
**UNITS (2):** UNK

**PRODUCT RELEASED (3):**  
**QUANTITY (3):**  
**UNITS (3):**

**MEDIUM/MEDIA AFFECTED**

**AIR:** NO                                      **GROUNDWATER:** NO  
**LAND:** YES                                **FIXED FACILITY:** NO  
**WATER:** YES                              **OTHER:** NO  
**WATERBODY AFFECTED BY RELEASE:**

**CAUSE OF RELEASE**

**DUMPING:** NO                                **EQUIPMENT FAILURE:** NO  
**NATURAL PHENOMENON:** NO            **OPERATOR ERROR:** NO  
**OTHER CAUSE:** YES                      **TRANSP. ACCIDENT:** NO  
**UNKNOWN:** NO

**ACTIONS TAKEN:**

**RELEASE DETECTION:** THIS IS AN EXERCISE/TANK COLLAPSED BARGE WAS OFF LOADING INTO THEIR AST.

**MISC. NOTES:** THIS IS AN EXERCISE/1000 LBL LEAKING PER HOUR INTO PROVIDENCE RIVER TO NARRAGANSETT BAY/WIND IS FROM THE SOUTH/GOING THRU THE PROCESS OF NOTIFICATION.

**DISCHARGER INFORMATION**

**DISCHARGER ID:** 584986  
**TYPE OF DISCHARGER:** PRIVATE ENTERPRISE  
**NAME OF DISCHARGER:** STAR ENTERPRISE  
**ADDRESS:** 520 ALLENS AVE  
PROVIDENCE RI 02905

**DUN & BRADSTREET #:**

*Environmental FirstSearch  
Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

EMERGENCY RESPONSE NOTIFICATION SITE

**SEARCH ID:** 27                                    **DIST/DIR:** 0.15 NW                                    **MAP ID:** 7

**NAME:** STAR ENTERPRISE  
**ADDRESS:** ALLENS AVE  
E.PROVIDENCE RI 02914

**REV:**  
**ID1:** 575131  
**ID2:**  
**STATUS:** UNKNOWN  
**PHONE:**

**CONTACT:**

**CERCLIS (Y/N):**

**MAT:** OIL                                                            **QUANT:** 1.00                                    UNKNOWN

**LOCATION:** ALLENS AVE  
**CITY:** E.PROVIDENCE RI                                    **REPORTED:** 03/07/98

**SOURCE:** UNKNOWN                                    **MEDIUM:** WATER

**CAUSE:** UNKNOWN

OIL COMING FROM THE SOIL

**ACT:** DOING SOIL ANALYSIS/PLACED BOOMS AT THEIR OUTFALL/CONTAINED WITH  
**BY:**

EMERGENCY RESPONSE NOTIFICATION SITE

**SEARCH ID:** 28                                    **DIST/DIR:** 0.15 NW                                    **MAP ID:** 7

**NAME:** STAR ENTERPRISE TEXACO  
**ADDRESS:** 520 ALLENS AVE NORTH SIDE OF DOCK  
PROVIDENCE RI 02905

**REV:**  
**ID1:** 565660  
**ID2:**  
**STATUS:** UNKNOWN  
**PHONE:**

**CONTACT:**

**CERCLIS (Y/N):**

**MAT:** OIL: DIESEL                                                            **QUANT:** 30.00                                    GALLONS

**LOCATION:** 520 ALLENS AVE NORTH SIDE OF DOCK  
**CITY:** PROVIDENCE RI 02905                                    **REPORTED:** 01/23/98

**SOURCE:** UNKNOWN                                    **MEDIUM:** WATER  
T/B GREAT LAKES HOSE CONNECTION / VALVE WAS NOT CLOSED PRIOR TO BEING OPENED

**CAUSE:** UNKNOWN  
/ BARGE TO SHORE TRANSFER

**ACT:** CLEANUP CONTRACTOR HAS BEEN NOTIFIED / CONTRACTOR ENROUTE / FIRE  
**BY:**





*Environmental FirstSearch*  
*Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

EMERGENCY RESPONSE NOTIFICATION SITE

**SEARCH ID:** 30

**DIST/DIR:** 0.14 SE

**MAP ID:** 10

**NAME:** SUN OIL  
**ADDRESS:** 35 TERMINAL RD.  
PROVIDENCE RI 02905  
PROVIDENCE

**REV:** 6/30/94  
**ID1:** 426245  
**ID2:**  
**STATUS:** UNKNOWN (NRC)  
**PHONE:**

**CONTACT:**

**SPILL INFORMATION**

**DATE OF SPILL:** 6/30/94                      **TIME OF SPILL:** 0830

**PRODUCT RELEASED (1):** UNKNOWN MATERIAL  
**QUANTITY (1):** 1  
**UNITS (1):** UNK

**PRODUCT RELEASED (2):**  
**QUANTITY (2):**  
**UNITS (2):**

**PRODUCT RELEASED (3):**  
**QUANTITY (3):**  
**UNITS (3):**

**MEDIUM/MEDIA AFFECTED**

<b>AIR:</b>	NO	<b>GROUNDWATER:</b>	NO
<b>LAND:</b>	YES	<b>FIXED FACILITY:</b>	NO
<b>WATER:</b>	NO	<b>OTHER:</b>	NO

**WATERBODY AFFECTED BY RELEASE:**

**CAUSE OF RELEASE**

<b>DUMPING:</b>	NO	<b>EQUIPMENT FAILURE:</b>	YES
<b>NATURAL PHENOMENON:</b>	NO	<b>OPERATOR ERROR:</b>	NO
<b>OTHER CAUSE:</b>	NO	<b>TRANSP. ACCIDENT:</b>	NO
<b>UNKNOWN:</b>	NO		

**ACTIONS TAKEN:** VERIFICATION OF TELEPHONE NUMBERS.

**RELEASE DETECTION:** OPA 90 EXERCISE SCHEDULED OPA-90 EXERCISE

**MISC. NOTES:** REPORTER WAS CHECKING TELEPHONES FROM THE PLAN. MOSTLY AND TELEPHONE EXERCISE.

**DISCHARGER INFORMATION**

<b>DISCHARGER ID:</b>	426245	<b>DUN &amp; BRADSTREET #:</b>	
<b>TYPE OF DISCHARGER:</b>	PRIVATE ENTERPRISE		
<b>NAME OF DISCHARGER:</b>	SUN OIL		
<b>ADDRESS:</b>	35 TERMINAL RD. PROVIDENCE RI 02905-		

## Environmental FirstSearch Site Detail Report

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

### EMERGENCY RESPONSE NOTIFICATION SITE

**SEARCH ID:** 31                                              **DIST/DIR:** 0.18 SE                                              **MAP ID:** 27

<b>NAME:</b>	UNKNOWN	<b>REV:</b>	3/31/94
<b>ADDRESS:</b>	ERNEST & ALLENS AVE. PROVIDENCE RI 02905 PROVIDENCE	<b>ID1:</b>	425998
<b>CONTACT:</b>		<b>ID2:</b>	
		<b>STATUS:</b>	HIGHWAY RELATED
		<b>PHONE:</b>	

**SPILL INFORMATION**

**DATE OF SPILL:** 3/31/94                                              **TIME OF SPILL:** 0641

**PRODUCT RELEASED (1):** GASOLINE  
**QUANTITY (1):** 1  
**UNITS (1):** UNK

**PRODUCT RELEASED (2):**  
**QUANTITY (2):**  
**UNITS (2):**

**PRODUCT RELEASED (3):**  
**QUANTITY (3):**  
**UNITS (3):**

**MEDIUM/MEDIA AFFECTED**

<b>AIR:</b>	NO	<b>GROUNDWATER:</b>	NO
<b>LAND:</b>	YES	<b>FIXED FACILITY:</b>	NO
<b>WATER:</b>	NO	<b>OTHER:</b>	NO

**WATERBODY AFFECTED BY RELEASE:**

**CAUSE OF RELEASE**

<b>DUMPING:</b>	NO	<b>EQUIPMENT FAILURE:</b>	YES
<b>NATURAL PHENOMENON:</b>	NO	<b>OPERATOR ERROR:</b>	YES
<b>OTHER CAUSE:</b>	NO	<b>TRANSP. ACCIDENT:</b>	NO
<b>UNKNOWN:</b>	NO		

**ACTIONS TAKEN:**

**RELEASE DETECTION:** GASOLINE TANKER TRUCK CAR IS UNDER THE TANKER

**MISC. NOTES:** VERDONE CALLED (401)277-2284 AND SPOKE WITH PAUL TURRONIS. SITUATION: CAR IS UNDERNEATH GAS TANKER. TANKER DID NOT FLIP OVER. TANKER CARRYING 7,000 GALS OF GASOLINE. UNK AMOUNT OF GASOLINE SPILLED. RI DEM HAS RESPONDED. 0800 VERDON

**DISCHARGER INFORMATION**

<b>DISCHARGER ID:</b>	425998	<b>DUN &amp; BRADSTREET #:</b>	
<b>TYPE OF DISCHARGER:</b>	UNKNOWN		
<b>NAME OF DISCHARGER:</b>	UNKNOWN		
<b>ADDRESS:</b>	UNKNOWN		

***Environmental FirstSearch  
Site Detail Report***

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

EMERGENCY RESPONSE NOTIFICATION SITE

**SEARCH ID:** 32                              **DIST/DIR:** 0.15 NW                              **MAP ID:** 7

**NAME:**  
**ADDRESS:** 520 ISLANDS AVE  
PROVIDENCE RI 02905  
**CONTACT:** MICHAUD MARICE  
**REV:**  
**ID1:** D50266  
**ID2:**  
**STATUS:** FIX FAC  
**PHONE:** 401-461-6600

**CERCLIS (Y/N):**

**MAT:** GASOLINE: AUTOMOTIVE (UNLEADED)                              **QUANT:** 150.00 GALLONS

**LOCATION:** 520 ISLANDS AVE  
**CITY:** PROVIDENCE RI 02905                              **REPORTED:** 19941205

**SOURCE:** FIX FAC                              **MEDIUM:** LAND

**CAUSE:** PUMP TO A A LOADING RACK HAD A PACKING SEAL FAIL

**ACT:** SHUT OFF THE PUMP/ABSORBENTS USED  
**BY:**

EMERGENCY RESPONSE NOTIFICATION SITE

**SEARCH ID:** 33                              **DIST/DIR:** 0.15 NW                              **MAP ID:** 7

**NAME:**  
**ADDRESS:** ALLENS AVE  
PROVIDENCE RI 02905  
**CONTACT:** GULICK, BOB  
**REV:**  
**ID1:** L41278  
**ID2:**  
**STATUS:** FIX FAC  
**PHONE:** 401-461-6600

**CERCLIS (Y/N):**

**MAT:** GASOLINE: AUTOMOTIVE (UNLEADED)                              **QUANT:** 50432.00 GALLONS

**LOCATION:** ALLENS AVE STORAGE TANK NO.7549  
**CITY:** PROVIDENCE RI 02914                              **REPORTED:** 19940622

**SOURCE:** FIX FAC                              **MEDIUM:** LAND

**CAUSE:** STORAGE TANK AT TANK FARM/FAULTY VALVE ON FILL PIPE

**ACT:** SPILL CONTAINED IN TANK BERM/LEAK SECURED AT 0640  
**BY:** EPA EMERGENCY RESPONSE DI

***Environmental FirstSearch  
Site Detail Report***

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

EMERGENCY RESPONSE NOTIFICATION SITE

**SEARCH ID:** 34

**DIST/DIR:** 0.12 SE

**MAP ID:** 28

<b>NAME:</b>		<b>REV:</b>	12/31/01
<b>ADDRESS:</b>	HUDSON TERMINAL 29 TERMINAL RD.	<b>ID1:</b>	NRC-589143
	PROVIDENCE RI 20905	<b>ID2:</b>	
	PROVIDENCE	<b>STATUS:</b>	FIXED
<b>CONTACT:</b>	DENNIS LEMAY	<b>PHONE:</b>	4019410500

**SITE INFORMATION**

**THIS INFORMATION WAS OBTAINED FROM THE NATIONAL RESPONSE CENTER**

<b>DATE RECEIVED:</b>	20-DEC-01	<b>DATE COMPLETE:</b>	20-DEC-01
<b>CALL TAKER:</b>	MAJ4739	<b>CALL TYPE:</b>	INC

<b>RESPONSIBLE PARTY:</b>	DENNIS LEMAY
<b>PHONE #1:</b>	4019410500 PRIMARY
<b>PHONE #2:</b>	
<b>PHONE #3:</b>	

<b>RESPONSIBLE COMPANY:</b>	
<b>ORGANIZATION TYPE:</b>	PRIVATE CITIZEN

<b>ADDRESS:</b>	HUDSON TERMINAL 29 TERMINAL RD.
	PROVIDENCE RI 20905

**INITIALLY REPORTED BY:**  
**PHONE:**

<b>INIT REPORTED COMPANY:</b>	
<b>ON BEHALF OF:</b>	N
<b>SOURCE:</b>	TELEPHONE

**INCIDENT INFORMATION**

**INCIDENT DESCRIPTION:** THE CALLER STATED THAT AN ASPHALT S HEATING LINE IS FAULTY, WHICH CAUSED HEATING OIL TO SPILL.

<b>INCIDENT TYPE:</b>	FIXED	<b>INCIDENT CAUSE:</b>	EQUIPMENT FAILURE
<b>INCIDENT DATE:</b>	18-DEC-01	<b>INCIDENT DATE DESC:</b>	OCCURRED
<b>DISTANCE FROM CITY:</b>		<b>DISTANCE UNITS:</b>	
<b>DIRECTION FROM CITY:</b>		<b>LOCATION SECTION:</b>	
<b>LOCATION TOWNSHIP:</b>		<b>LOCATION RANGE:</b>	
<b>WMD CHEM FLAG:</b>	F	<b>RAD FLAG:</b>	F
<b>BIO FLAG:</b>	F	<b>OIL FLAG:</b>	T
<b>POTENTIAL_FLAG:</b>		<b>AMT MATERIAL FLAG:</b>	
<b>MILITARY ORG FLAG:</b>	N	<b>LNG FLAG:</b>	

<b>AIRCRAFT TYPE:</b>		<b>AIRCRAFT MODEL:</b>	
<b>AIRCRAFT ID:</b>		<b>AIRCRAFT FUEL CAPACITY:</b>	
<b>AIRCRAFT FUEL CAPACITY UNITS:</b>		<b>AIRCRAFT FUEL ON BOARD:</b>	
<b>AIRCRAFT FUEL ON BOARD UNITS:</b>		<b>AIRCRAFT SPOT NUMBER:</b>	
<b>AIRCRAFT HANGER:</b>		<b>AIRCRAFT RUNWAY NUM:</b>	
<b>ROAD MILE MARKER:</b>		<b>BUILDING ID:</b>	

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**Environmental FirstSearch  
Site Detail Report**

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**EMERGENCY RESPONSE NOTIFICATION SITE**

**SEARCH ID:** 34

**DIST/DIR:** 0.12 SE

**MAP ID:** 28

**NAME:**  
**ADDRESS:** HUDSON TERMINAL 29 TERMINAL RD.  
PROVIDENCE RI 02905  
PROVIDENCE  
**CONTACT:** DENNIS LEMAY

**REV:** 12/31/01  
**ID1:** NRC-589143  
**ID2:**  
**STATUS:** FIXED  
**PHONE:** 4019410500

<b>TYPE OF FIXED OBJECT:</b>	OTHER	<b>POWER GEN FACILITY:</b>	N
<b>GENERATING CAPACITY:</b>		<b>TYPE OF FUEL:</b>	
<b>NPDES:</b>		<b>NPDES COMPLIANCE:</b>	U
<b>PIPELINE TYPE:</b>		<b>DOT REGULATED:</b>	U
<b>PIPELINE ABOVE GROUND:</b>	ABOVE	<b>EXPOSED UNDERWATER:</b>	N
<b>PIPELINE COVERED:</b>	U	<b>RAILROAD HOTLINE:</b>	
<b>GRADE CROSSING:</b>	N	<b>LOCATION SUBDIVISION:</b>	
<b>RAILROAD MILEPOST:</b>		<b>TYPE VEHICLE INVOLVED:</b>	
<b>CROSSING DEVICE TYPE:</b>		<b>DEVICE OPERATIONAL:</b>	Y

<b>DOT CROSSING NUMBER:</b>		<b>BRAKE FAILURE:</b>	N
<b>TANK ABOVE GROUND:</b>	ABOVE	<b>TRANSPORTABLE CONTAINER:</b>	U
<b>TANK REGULATED:</b>	U	<b>TANK REGULATED BY:</b>	
<b>TANK ID:</b>		<b>CAPACITY OF TANK:</b>	
<b>CAPACITY OF TANK UNITS:</b>		<b>ACTUAL AMOUNT:</b>	
<b>ACTUAL AMOUNT UNITS:</b>		<b>PLATFORM RIG NAME:</b>	
<b>PLATFORM LETTER:</b>		<b>LOCATION AREA ID:</b>	
<b>LOCATION BLOCK ID:</b>			

**DESCRIPTION OF TANK:**

<b>OCSG NUMBER:</b>		<b>OCSP NUMBER:</b>	
<b>STATE LEASE NUMBER:</b>		<b>PIER DOCK NUMBER:</b>	
<b>BERTH SLIP NUMBER:</b>		<b>CONTIN RELEASE TYPE:</b>	
<b>INITIAL CONT RELEASE NUM:</b>		<b>CONT RELEASE PERMIT:</b>	
<b>ALLISION:</b>	N	<b>TYPE OF STRUCTURE:</b>	
<b>STRUCTURE NAME:</b>		<b>STRUCT OPERATIONAL:</b>	U
<b>AIRBAG DEPLOYED:</b>		<b>DATE NORMAL SERVICE:</b>	
<b>SERVICE DISRUPT TIME:</b>		<b>SERVICE DISRUPT UNITS:</b>	
<b>TRANSIT BUS FLAG:</b>		<b>CR BEGIN DATE:</b>	
<b>CR END DATE:</b>		<b>CR CHANGE DATE:</b>	

<b>FIRE INVOLVED:</b>	N	<b>FIRE EXTINGUISHED:</b>	U
<b>ANY EVACUATIONS:</b>	N	<b>NUMBER EVACUATED:</b>	
<b>WHO EVACUATED:</b>		<b>RADIUS OF EVACUATION:</b>	
<b>ANY INJURIES:</b>	N	<b>NUMBER INJURED:</b>	
<b>NUMBER HOSPITALIZED:</b>		<b>ANY FATALITIES:</b>	N
<b>NUMBER FATALITIES:</b>		<b>ANY DAMAGES:</b>	N
<b>DAMAGE AMOUNT:</b>		<b>AIR CORRIDOR CLOSED:</b>	N
<b>AIR CORRIDOR DESC:</b>		<b>AIR CLOSURE TIME:</b>	
<b>WATERWAY CLOSED:</b>	N	<b>WATERWAY DESC:</b>	
<b>WATERWAY CLOSURE TIME:</b>		<b>ROAD CLOSED:</b>	N
<b>ROAD DESC:</b>		<b>ROAD CLOSURE TIME:</b>	
<b>CLOSURE DIRECTION:</b>		<b>MAJOR ARTERY:</b>	N

<b>TRACK CLOSED:</b>	N	<b>TRACK DESC:</b>	
<b>TRACK CLOSURE TIME:</b>		<b>MEDIA INTEREST:</b>	NONE
<b>MEDIUM DESC:</b>	LAND	<b>ADDTL MEDIUM INFO:</b>	GROUND / CATCH BASIN
<b>BODY OF WATER:</b>		<b>TRIBUTARY OF:</b>	
<b>NEAREST RIVER MILE MARK:</b>		<b>RELEASE SECURED:</b>	U

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## Environmental FirstSearch Site Detail Report

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

### EMERGENCY RESPONSE NOTIFICATION SITE

**SEARCH ID:** 34                                      **DIST/DIR:** 0.12 SE                                      **MAP ID:** 28

<p><b>NAME:</b> <b>ADDRESS:</b> HUDSON TERMINAL 29 TERMINAL RD. PROVIDENCE RI 02905 PROVIDENCE <b>CONTACT:</b> DENNIS LEMAY</p>	<p><b>REV:</b> 12/31/01 <b>ID1:</b> NRC-589143 <b>ID2:</b> <b>STATUS:</b> FIXED <b>PHONE:</b> 4019410500</p>
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<p><b>EST DUR OF RELEASE:</b> <b>TRACK CLOSE DIR:</b> <b>ST AGENCY RPT NUM:</b> <b>WEATHER CONDITIONS:</b> <b>WIND SPEED:</b> <b>WATER SUPPLY CONTAM:</b> U <b>SHEEN COLOR:</b> <b>SHEEN ODOR DESCRIPTION:</b> <b>CURRENT SPEED:</b> <b>WATER TEMPERATURE:</b></p>	<p><b>RELEASE RATE:</b> <b>ST AGENCY ON SCENE:</b> <b>OTHER AGENCY NOTIFIED:</b> <b>AIR TEMPERATURE:</b> <b>WIND DIRECTION:</b> <b>SHEEN SIZE:</b> <b>DIR OF SHEEN TRAVEL:</b> <b>WAVE CONDITION:</b> <b>CURRENT DIRECTION:</b></p>
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**DESC OF REMEDIAL ACTION:** NOTIFIED CLEAN UP CONTRACTOR TO PUMP IT OUT

<p><b>EMPL FATALITY:</b> <b>COMMUNITY IMPACT:</b> N <b>EMPLOYEE INJURIES:</b> <b>OCCUPANT FATALITY:</b> <b>ROAD CLOSURE UNITS:</b> <b>SHEEN SIZE UNITS:</b> <b>FED AGENCY NOTIFIED:</b> <b>TYPE OF STRUCTURE:</b> <b>STRUCTURE OPERATIONAL:</b> <b>SHEEN SIZE LENGTH:</b> N <b>SHEEN SIZE WIDTH:</b> <b>OFFSHORE:</b> <b>RELEASE RATE UNIT:</b></p>	<p><b>PASS FATALITY:</b> <b>WIND SPEED UNITS:</b> <b>PASSENGER INJURIES:</b> <b>CURRENT SPEED UNITS:</b> <b>TRACK CLOSURE UNITS:</b> <b>STATE AGENCY NOTIFIED:</b> <b>STRUCTURE NAME:</b> <b>ALLISION:</b> <b>NEAREST RIVER MILE MARK:</b> <b>SHEEN SIZE LENGTH UNITS:</b> <b>SHEEN SIZE WIDTH UNITS:</b> <b>DURATION UNIT:</b> <b>RELEASE RATE RATE:</b></p>
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**ADDITIONAL INFO:** THE CALLER HAD NO ADDITIONAL INFORMATION

**MATERIAL INFORMATION**

<p><b>CHRIS CODE:</b> <b>UN NUMBER:</b></p>	<p>OTH</p>	<p><b>CASE NUMBER:</b> <b>REACHED WATER:</b></p>	<p>000000-00-0 NO</p>
<p><b>NAME OF MATERIAL:</b> <b>AMOUNT OF MATERIAL:</b> <b>AMOUNT IN WATER:</b></p>	<p>HEATING OIL 25 GALLON(S)</p>		

**OTHER MATERIAL INFORMATION**

**MOBILE DETAILS INFORMATION**

**TRAIN INFORMATION**

**VESSEL INFORMATION**

***Environmental FirstSearch  
Site Detail Report***

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**EMERGENCY RESPONSE NOTIFICATION SITE**

**SEARCH ID:** 35                                 **DIST/DIR:** 0.14 SE                                 **MAP ID:** 10

<b>NAME:</b>	<b>REV:</b>
<b>ADDRESS:</b> 35 TERMINAL RD. PROVIDENCE RI 02905	<b>ID1:</b> X41325
	<b>ID2:</b>
<b>CONTACT:</b> BRENNAN KEVIN	<b>STATUS:</b> UNKNOWN
	<b>PHONE:</b> 401-461-8600

**CERCLIS (Y/N):**

**MAT:** UNKNOWN MATERIAL                                 **QUANT:** 1.00                                 UNKNOWN

**LOCATION:** 35 TERMINAL RD.  
**CITY:** PROVIDENCE RI 02905                                 **REPORTED:** 19940630

**SOURCE:** UNKNOWN                                 **MEDIUM:** OTHER

**CAUSE:** OTHER  
SCHEDULED OPA-90 EXERCISE

**ACT:** VERIFICATION OF TELEPHONE NUMBERS.

**BY:**





## Environmental FirstSearch Site Detail Report

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

### EMERGENCY RESPONSE NOTIFICATION SITE

**SEARCH ID:** 36                                      **DIST/DIR:** 0.12 SE                                      **MAP ID:** 28

<b>NAME:</b>	<b>REV:</b> 12/31/01
<b>ADDRESS:</b> 29 TERMINAL RD	<b>ID1:</b> NRC-568101
PROVIDENCE RI 02905	<b>ID2:</b>
PROVIDENCE	<b>STATUS:</b> FIXED
<b>CONTACT:</b> DENNIS LEAMY	<b>PHONE:</b> 4019410500

<b>GENERATING CAPACITY:</b>	<b>TYPE OF FUEL:</b>
<b>NPDES:</b>	<b>NPDES COMPLIANCE:</b> U
<b>PIPELINE TYPE:</b>	<b>DOT REGULATED:</b> U
<b>PIPELINE ABOVE GROUND:</b> ABOVE	<b>EXPOSED UNDERWATER:</b> N
<b>PIPELINE COVERED:</b> U	<b>RAILROAD HOTLINE:</b>
<b>GRADE CROSSING:</b> N	<b>LOCATION SUBDIVISION:</b>
<b>RAILROAD MILEPOST:</b>	<b>TYPE VEHICLE INVOLVED:</b>
<b>CROSSING DEVICE TYPE:</b>	<b>DEVICE OPERATIONAL:</b> Y
<b>DOT CROSSING NUMBER:</b>	<b>BRAKE FAILURE:</b> N
<b>TANK ABOVE GROUND:</b> ABOVE	<b>TRANSPORTABLE CONTAINER:</b> U
<b>TANK REGULATED:</b> U	<b>TANK REGULATED BY:</b>
<b>TANK ID:</b>	<b>CAPACITY OF TANK:</b>
<b>CAPACITY OF TANK UNITS:</b>	<b>ACTUAL AMOUNT:</b>
<b>ACTUAL AMOUNT UNITS:</b>	<b>PLATFORM RIG NAME:</b>
<b>PLATFORM LETTER:</b>	<b>LOCATION AREA ID:</b>
<b>LOCATION BLOCK ID:</b>	

**DESCRIPTION OF TANK:**

<b>OCSG NUMBER:</b>	<b>OCCP NUMBER:</b>
<b>STATE LEASE NUMBER:</b>	<b>PIER DOCK NUMBER:</b>
<b>BERTH SLIP NUMBER:</b>	<b>CONTIN RELEASE TYPE:</b>
<b>INITIAL CONT RELEASE NUM:</b>	<b>CONT RELEASE PERMIT:</b>
<b>ALLISION:</b> N	<b>TYPE OF STRUCTURE:</b>
<b>STRUCTURE NAME:</b>	<b>STRUCT OPERATIONAL:</b> U
<b>AIRBAG DEPLOYED:</b>	<b>DATE NORMAL SERVICE:</b>
<b>SERVICE DISRUPT TIME:</b>	<b>SERVICE DISRUPT UNITS:</b>
<b>TRANSIT BUS FLAG:</b>	<b>CR BEGIN DATE:</b>
<b>CR END DATE:</b>	<b>CR CHANGE DATE:</b>
<b>FIRE INVOLVED:</b> N	<b>FIRE EXTINGUISHED:</b> U
<b>ANY EVACUATIONS:</b> N	<b>NUMBER EVACUATED:</b>
<b>WHO EVACUATED:</b>	<b>RADIUS OF EVACUATION:</b>
<b>ANY INJURIES:</b> N	<b>NUMBER INJURED:</b>
<b>NUMBER HOSPITALIZED:</b>	<b>ANY FATALITIES:</b> N
<b>NUMBER FATALITIES:</b>	<b>ANY DAMAGES:</b> N
<b>DAMAGE AMOUNT:</b>	<b>AIR CORRIDOR CLOSED:</b> N
<b>AIR CORRIDOR DESC:</b>	<b>AIR CLOSURE TIME:</b>
<b>WATERWAY CLOSED:</b> N	<b>WATERWAY DESC:</b>
<b>WATERWAY CLOSURE TIME:</b>	<b>ROAD CLOSED:</b> N
<b>ROAD DESC:</b>	<b>ROAD CLOSURE TIME:</b>
<b>CLOSURE DIRECTION:</b>	<b>MAJOR ARTERY:</b> N
<b>TRACK CLOSED:</b> N	<b>TRACK DESC:</b>
<b>TRACK CLOSURE TIME:</b>	<b>MEDIA INTEREST:</b> NONE
<b>MEDIUM DESC:</b> LAND	<b>ADDTL MEDIUM INFO:</b> CONCRETE PIT
<b>BODY OF WATER:</b>	<b>TRIBUTARY OF:</b>
<b>NEAREST RIVER MILE MARK:</b>	<b>RELEASE SECURED:</b> N
<b>EST DUR OF RELEASE:</b>	<b>RELEASE RATE:</b>

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**Environmental FirstSearch  
Site Detail Report**

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**EMERGENCY RESPONSE NOTIFICATION SITE**

**SEARCH ID:** 37 **DIST/DIR:** 0.18 SE **MAP ID:** 29

<b>NAME:</b>		<b>REV:</b>	06-03-94
<b>ADDRESS:</b>		<b>ID1:</b>	D40832
	PROVIDENCE RI 02915	<b>ID2:</b>	
<b>CONTACT:</b>		<b>STATUS:</b>	HIGHWAY
		<b>PHONE:</b>	

**CERCLIS (Y/N):**

**MAT:** GASOLINE **QUANT:** 1.00 UNKNOWN

**LOCATION:** ERNEST & ALLENS AVE.  
**CITY:** UNKNOWN **REPORTED:** 19940331

**SOURCE:** HIGHWAY **MEDIUM:** LAND

**CAUSE:** GASOLINE TANKER TRUCK  
TRANS ACCIDENT  
CAR IS UNDER THE TANKER

**ACT:**  
**BY:**

**EMERGENCY RESPONSE NOTIFICATION SITE**

**SEARCH ID:** 38 **DIST/DIR:** 0.15 NW **MAP ID:** 7

<b>NAME:</b>		<b>REV:</b>	12-13-93
<b>ADDRESS:</b>	520 ALLENS AVE	<b>ID1:</b>	D20467
	PROVIDENCE RI 02905	<b>ID2:</b>	
<b>CONTACT:</b>	LYNCH, JOHN	<b>STATUS:</b>	FIX FAC
		<b>PHONE:</b>	401-461-6600

**CERCLIS (Y/N):**

**MAT:** GASOLINE ADDITIVE **QUANT:** 50.00 GALLONS

**LOCATION:** 520 ALLENS AVE  
**CITY:** PROVIDENCE RI 02905 **REPORTED:** 19920125

**SOURCE:** FIX FAC **MEDIUM:** LAND

**CAUSE:** EQUIP FAILURE  
LINE BROKEN COUPLING

**ACT:** SORBENTS USED  
**BY:**

**Environmental FirstSearch  
Site Detail Report**

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

STATE SITE

**SEARCH ID:** 39                      **DIST/DIR:** 0.56 SE                      **MAP ID:** 30

<b>NAME:</b> ALLEN S MANUFACTURING CO. INC.	<b>REV:</b> 5/7/02
<b>ADDRESS:</b> 89 SHIPYARD STREET PROVIDENCE RI	<b>ID1:</b> AMCI-HWM
	<b>ID2:</b>
<b>CONTACT:</b>	<b>STATUS:</b> ACTIVE
	<b>PHONE:</b>

SITE INFORMATION

**PROJECT DATE:** 06/24/94

STATE SITE

**SEARCH ID:** 40                      **DIST/DIR:** 0.98 SE                      **MAP ID:** 31

<b>NAME:</b> ARMED FORCES RESERVE CENTER	<b>REV:</b> 5/7/02
<b>ADDRESS:</b> FIELDS POINT PROVIDENCE RI	<b>ID1:</b> AFRC-DOD
	<b>ID2:</b>
<b>CONTACT:</b>	<b>STATUS:</b> INACTIVE
	<b>PHONE:</b>

SITE INFORMATION

**PROJECT DATE:**

STATE SITE

**SEARCH ID:** 41                      **DIST/DIR:** 0.98 SE                      **MAP ID:** 31

<b>NAME:</b> ARMED FORCES RESERVE CENTER	<b>REV:</b> 5/7/02
<b>ADDRESS:</b> NARRAGANSETT ST-FIELDS POINT PROVIDENCE RI	<b>ID1:</b> ASRC-HWM
	<b>ID2:</b>
<b>CONTACT:</b>	<b>STATUS:</b> INACTIVE
	<b>PHONE:</b>

SITE INFORMATION

**PROJECT DATE:** 02/01/88

*Environmental FirstSearch*  
*Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

STATE SITE

**SEARCH ID:** 42                                  **DIST/DIR:** 0.89 NW                                  **MAP ID:** 32

**NAME:** ASTRO PLATING  
**ADDRESS:** 165 RHODES STREET  
PROVIDENCE RI

**REV:** 5/7/02  
**ID1:** ASP-HWM  
**ID2:**  
**STATUS:** ACTIVE  
**PHONE:**

**CONTACT:**

**SITE INFORMATION**

**PROJECT DATE:**

STATE SITE

**SEARCH ID:** 43                                  **DIST/DIR:** 0.76 NW                                  **MAP ID:** 3

**NAME:** AUDIT (E.W.) AND SONS  
**ADDRESS:** 169 BAY STREET  
PROVIDENCE RI

**REV:** 5/7/02  
**ID1:** EAAS-HWM  
**ID2:**  
**STATUS:** INACTIVE  
**PHONE:**

**CONTACT:**

**SITE INFORMATION**

**PROJECT DATE:**

STATE SITE

**SEARCH ID:** 44                                  **DIST/DIR:** 0.76 NW                                  **MAP ID:** 3

**NAME:** AUDIT (E.W.) AND SONS  
**ADDRESS:** 169 BAY STREET  
PROVIDENCE RI

**REV:** 5/7/02  
**ID1:** EAAS-SFA  
**ID2:**  
**STATUS:** INACTIVE  
**PHONE:**

**CONTACT:**

**SITE INFORMATION**

**PROJECT DATE:** 02/05/87

## *Environmental FirstSearch* *Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

### STATE SITE

**SEARCH ID:** 45 **DIST/DIR:** 0.72 NW **MAP ID:** 33

**NAME:** AUTO FLUFF/PROMET CORPORATION  
**ADDRESS:** 242 ALLENS AVENUE  
PROVIDENCE RI

**REV:** 5/7/02  
**ID1:** AFPR-HWM  
**ID2:**  
**STATUS:** INACTIVE  
**PHONE:**

**CONTACT:**

**SITE INFORMATION**

**PROJECT DATE:**

### STATE SITE

**SEARCH ID:** 46 **DIST/DIR:** 0.33 NW **MAP ID:** 1

**NAME:** BOLIDEN METECH  
**ADDRESS:** 434 ALLENS AVENUE  
PROVIDENCE RI

**REV:** 5/7/02  
**ID1:** BOL-SFA  
**ID2:**  
**STATUS:** ACTIVE  
**PHONE:**

**CONTACT:**

**SITE INFORMATION**

**PROJECT DATE:** 02/05/87

### STATE SITE

**SEARCH ID:** 47 **DIST/DIR:** 0.33 NW **MAP ID:** 1

**NAME:** BOLIDEN METECH  
**ADDRESS:** 434 ALLENS AVENUE  
PROVIDENCE RI

**REV:** 5/7/02  
**ID1:** BOLI-HWM  
**ID2:**  
**STATUS:** ACTIVE  
**PHONE:**

**CONTACT:**

**SITE INFORMATION**

**PROJECT DATE:**

*Environmental FirstSearch  
Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

STATE SITE			
<b>SEARCH ID:</b> 48	<b>DIST/DIR:</b> 0.42 SW	<b>MAP ID:</b> 2	
<b>NAME:</b> BOSCO TRUCKING <b>ADDRESS:</b> RUGBY AND PAVILLION STREET PROVIDENCE RI		<b>REV:</b> 5/7/02 <b>ID1:</b> BOTR-SFA <b>ID2:</b> <b>STATUS:</b> INACTIVE <b>PHONE:</b>	
<b>CONTACT:</b>			
<u>SITE INFORMATION</u>			
<b>PROJECT DATE:</b>	04/01/78		

STATE SITE			
<b>SEARCH ID:</b> 49	<b>DIST/DIR:</b> 0.75 NW	<b>MAP ID:</b> 34	
<b>NAME:</b> BREITENSTEIN, C.B. <b>ADDRESS:</b> 91 MINER STREET PROVIDENCE RI		<b>REV:</b> 5/7/02 <b>ID1:</b> BCB-HWM <b>ID2:</b> <b>STATUS:</b> INACTIVE <b>PHONE:</b>	
<b>CONTACT:</b>			
<u>SITE INFORMATION</u>			
<b>PROJECT DATE:</b>			

STATE SITE			
<b>SEARCH ID:</b> 50	<b>DIST/DIR:</b> 0.23 SE	<b>MAP ID:</b> 35	
<b>NAME:</b> CITGO PETROLEUM CORPORATION <b>ADDRESS:</b> 25 ERNEST STREET PROVIDENCE RI		<b>REV:</b> 5/7/02 <b>ID1:</b> CITG-HWM <b>ID2:</b> <b>STATUS:</b> ACTIVE <b>PHONE:</b>	
<b>CONTACT:</b>			
<u>SITE INFORMATION</u>			
<b>PROJECT DATE:</b>			













*Environmental FirstSearch  
Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

STATE SITE

**SEARCH ID:** 66                      **DIST/DIR:** 0.91 SE                      **MAP ID:** 46

**NAME:** JOHNSON & WALES UNIVERSITY PARCEL 9 & 10  
**ADDRESS:** HARBORSIDE BLVD  
PROVIDENCE RI

**REV:** 5/7/02  
**ID1:** J&WU-HWM  
**ID2:**  
**STATUS:** ACTIVE  
**PHONE:**

**CONTACT:**

SITE INFORMATION

**PROJECT DATE:** 06/20/01

STATE SITE

**SEARCH ID:** 67                      **DIST/DIR:** 0.14 SE                      **MAP ID:** 13

**NAME:** LEHIGH PORTLAND CEMENT COMPANY  
**ADDRESS:** FIELDS POINT DRIVE/PROVPORT  
PROVIDENCE RI

**REV:** 5/7/02  
**ID1:** LPOR-HWM  
**ID2:**  
**STATUS:** ACTIVE  
**PHONE:**

**CONTACT:**

SITE INFORMATION

**PROJECT DATE:** 07/20/99

STATE SITE

**SEARCH ID:** 68                      **DIST/DIR:** 0.29 NW                      **MAP ID:** 47

**NAME:** MANDELLA WOODS (FAMILY DEVELOPMENT)  
**ADDRESS:** 49 PAVILION AVENUE  
PROVIDENCE RI

**REV:** 5/7/02  
**ID1:** MANW-HWM  
**ID2:**  
**STATUS:** INACTIVE  
**PHONE:**

**CONTACT:**

SITE INFORMATION

**PROJECT DATE:** 12/08/89

























**Environmental FirstSearch  
Site Detail Report**

**TARGET SITE:** 642ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

STATE SPILLS SITE			
<b>SEARCH ID:</b> 99	<b>DIST/DIR:</b> 0.14 SE	<b>MAP ID:</b> 10	
<b>NAME:</b> 29 TERMINAL ROAD <b>ADDRESS:</b> 29 TERMINAL ROAD PROVIDENCE RI		<b>REV:</b> 4/10/00 <b>ID1:</b> 98-354 <b>ID2:</b> <b>STATUS:</b> <b>PHONE:</b>	
<b>CONTACT:</b> J LEO			
<b>SPILL DATE:</b> 06-25-98 <b>STAFF:</b> J LEO		<b>SPILL NOTIFIER:</b>	
<b>MATERIAL SPILLED:</b> LIQUID ASPHALT <b>SPILL AMOUNT REPORTED:</b> 300 GALLON <b>INCIDENT:</b> SPILL		<b>SOURCE OF SPILL:</b>	
<b>LUST?:</b> <b>PCB LEVEL:</b>		<b>SOIL CONTAMINATED?:</b>	

STATE SPILLS SITE			
<b>SEARCH ID:</b> 100	<b>DIST/DIR:</b> 0.15 NW	<b>MAP ID:</b> 7	
<b>NAME:</b> 520 ALLENS AVE <b>ADDRESS:</b> 520 ALLENS AVE PROVIDENCE, RI 02905		<b>REV:</b> 4/10/00 <b>ID1:</b> 95-012 <b>ID2:</b> <b>STATUS:</b> <b>PHONE:</b>	
<b>CONTACT:</b> D SQUIRES			
<b>SPILL DATE:</b> 01-19-95 <b>STAFF:</b> D SQUIRES		<b>SPILL NOTIFIER:</b> CHRIS HOGAN (STAR ENTERPRISES)	
<b>MATERIAL SPILLED:</b> DIESEL <b>SPILL AMOUNT REPORTED:</b> 50 GALLONS <b>INCIDENT:</b> OFF LOADING DOCK		<b>SOURCE OF SPILL:</b>	
<b>LUST?:</b> <b>PCB LEVEL:</b>		<b>SOIL CONTAMINATED?:</b>	



*Environmental FirstSearch  
Site Detail Report*

**TARGET SITE:** 642ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

STATE SPILLS SITE

**SEARCH ID:** 103

**DIST/DIR:** 0.15 NW

**MAP ID:** 7

**NAME:** 520 ALLENS AVE  
**ADDRESS:** 520 ALLENS AVE  
PROVIDENCE RI 02905

**REV:** 4/10/00  
**ID1:** 95-492  
**ID2:**  
**STATUS:**  
**PHONE:**

**CONTACT:** D SQUIRES

**SPILL DATE:** 10-27-95  
**STAFF:** D SQUIRES

**SPILL NOTIFIER:** LARRY YETTER

**MATERIAL SPILLED:** GASOLINE ADDITIVE  
**SPILL AMOUNT REPORTED:** 200-300 GALLONS  
**INCIDENT:**

**SOURCE OF SPILL:**

**LUST?:**  
**PCB LEVEL:**

**SOIL CONTAMINATED?:**

STATE SPILLS SITE

**SEARCH ID:** 104

**DIST/DIR:** 0.10 NW

**MAP ID:** 22

**NAME:** 540 ALLENS AVE  
**ADDRESS:** 540 ALLENS AVE  
PROVIDENCE RI 02905

**REV:** 4/10/00  
**ID1:** 94-575  
**ID2:**  
**STATUS:**  
**PHONE:**

**CONTACT:** K GILLEN

**SPILL DATE:** 12-03-94  
**STAFF:** K GILLEN

**SPILL NOTIFIER:** STAR ENTERPRISE

**MATERIAL SPILLED:** GASOLINE  
**SPILL AMOUNT REPORTED:** 150 GALLONS  
**INCIDENT:** FITTING LET GO

**SOURCE OF SPILL:** PUMP

**LUST?:**  
**PCB LEVEL:**

**SOIL CONTAMINATED?:**

**Environmental FirstSearch  
Site Detail Report**

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**STATE SPILLS SITE**

**SEARCH ID:** 105                      **DIST/DIR:** 0.16 SE                      **MAP ID:** 16

**NAME:** 642 ALLENS AVE                      **REV:** 4/10/00  
**ADDRESS:** 642 ALLENS AVE                      **ID1:** 98-133  
PROVIDENCE RI                      **ID2:**  
**CONTACT:** J BALL                      **STATUS:**  
**PHONE:**

**SPILL DATE:** 03-24-98                      **SPILL NOTIFIER:**  
**STAFF:** J BALL  
**MATERIAL SPILLED:** PETROLEUM  
**SPILL AMOUNT REPORTED:** SHEN  
**INCIDENT:**                      **SOURCE OF SPILL:**  
**LUST?:**                      **SOIL CONTAMINATED?:**  
**PCB LEVEL:**

**STATE SPILLS SITE**

**SEARCH ID:** 106                      **DIST/DIR:** 0.16 SE                      **MAP ID:** 16

**NAME:** 642 ALLENS AVE                      **REV:** 4/10/00  
**ADDRESS:** 642 ALLENS AVE                      **ID1:** 98-186  
PROVIDENCE RI                      **ID2:**  
**CONTACT:** J BALL                      **STATUS:**  
**PHONE:**

**SPILL DATE:** 04-10-98                      **SPILL NOTIFIER:**  
**STAFF:** J BALL  
**MATERIAL SPILLED:** PCB OIL  
**SPILL AMOUNT REPORTED:** 30 GALLONS  
**INCIDENT:** RELEASE                      **SOURCE OF SPILL:**  
**LUST?:**                      **SOIL CONTAMINATED?:**  
**PCB LEVEL:**

*Environmental FirstSearch*  
*Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

STATE SPILLS SITE			
<b>SEARCH ID:</b> 107		<b>DIST/DIR:</b> 0.18 SE	
<b>MAP ID:</b> 27			
<b>NAME:</b> ALLENS & ERNEST		<b>REV:</b> 4/10/00	
<b>ADDRESS:</b> PROVIDENCE RI 02905		<b>ID1:</b> 94-572	
		<b>ID2:</b>	
		<b>STATUS:</b>	
<b>CONTACT:</b> J BALL		<b>PHONE:</b>	
<b>SPILL DATE:</b> 12-01-94		<b>SPILL NOTIFIER:</b> PROVIDENCE FIRE DEPT	
<b>STAFF:</b> J BALL			
<b>MATERIAL SPILLED:</b> DIESEL			
<b>SPILL AMOUNT REPORTED:</b> 2 GALLONS			
<b>INCIDENT:</b> ON ROAD		<b>SOURCE OF SPILL:</b>	
<b>LUST?:</b>		<b>SOIL CONTAMINATED?:</b>	
<b>PCB LEVEL:</b>			

STATE SPILLS SITE			
<b>SEARCH ID:</b> 108		<b>DIST/DIR:</b> 0.15 NW	
<b>MAP ID:</b> 7			
<b>NAME:</b> GULF OIL		<b>REV:</b> 4/10/00	
<b>ADDRESS:</b> 520 ALLENS AVE PROVIDENCE RI 02905		<b>ID1:</b> 94-160	
		<b>ID2:</b>	
		<b>STATUS:</b>	
<b>CONTACT:</b> D SQUIRES		<b>PHONE:</b>	
<b>SPILL DATE:</b> 04-07-94		<b>SPILL NOTIFIER:</b> DON SQUIRES RIDEM	
<b>STAFF:</b> D SQUIRES			
<b>MATERIAL SPILLED:</b> DIESEL ADDITIVE			
<b>SPILL AMOUNT REPORTED:</b> 250-300 GALLONS			
<b>INCIDENT:</b> GAUGE RUPTURED		<b>SOURCE OF SPILL:</b>	
<b>LUST?:</b>		<b>SOIL CONTAMINATED?:</b>	
<b>PCB LEVEL:</b>			

**Environmental FirstSearch  
Site Detail Report**

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**STATE SPILLS SITE**

**SEARCH ID:** 109                      **DIST/DIR:** 0.16 SE                      **MAP ID:** 16

**NAME:** PROVIDENCE GAS COMPANY                      **REV:** 4/10/00  
**ADDRESS:** ALLENS AVENUE                      **ID1:** 93-048  
PROVIDENCE RI                      **ID2:**  
**CONTACT:** D SQUIRES                      **STATUS:**  
**PHONE:**

**SPILL DATE:** 10-19-93                      **SPILL NOTIFIER:** GEORGE  
**STAFF:** D SQUIRES

**MATERIAL SPILLED:** OIL/WATER  
**SPILL AMOUNT REPORTED:** 180 GALLONS  
**INCIDENT:** CRACK                      **SOURCE OF SPILL:** PIPE

**LUST?:**                      **SOIL CONTAMINATED?:**  
**PCB LEVEL:**

**STATE SPILLS SITE**

**SEARCH ID:** 110                      **DIST/DIR:** 0.15 NW                      **MAP ID:** 7

**NAME:** STAR                      **REV:** 4/10/00  
**ADDRESS:** ALLENS AVE                      **ID1:** 94-591  
PROVIDENCE RI 02905                      **ID2:**  
**CONTACT:** P SULLIVAN                      **STATUS:**  
**PHONE:**

**SPILL DATE:** 12-05-94                      **SPILL NOTIFIER:** HEADQUARTERS DEM  
**STAFF:** P SULLIVAN

**MATERIAL SPILLED:** GASOLINE  
**SPILL AMOUNT REPORTED:** 20 GALLONS  
**INCIDENT:** BREAL                      **SOURCE OF SPILL:** LINE

**LUST?:**                      **SOIL CONTAMINATED?:**  
**PCB LEVEL:**

*Environmental FirstSearch  
Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

STATE SPILLS SITE

**SEARCH ID:** 111                      **DIST/DIR:** 0.15 NW                      **MAP ID:** 7

**NAME:** STAR ENTERPRISE                      **REV:** 4/10/00  
**ADDRESS:** 520 ALLENS AVE                      **ID1:** 94-513  
PROVIDENCE RI 02905                      **ID2:**  
**CONTACT:** D SQUIRES                      **STATUS:**  
**PHONE:**

**SPILL DATE:** 11-03-94                      **SPILL NOTIFIER:** LARRY YETTER  
**STAFF:** D SQUIRES

**MATERIAL SPILLED:** #2 FUEL OIL  
**SPILL AMOUNT REPORTED:** 40 GALLONS  
**INCIDENT:** OVERFILL                      **SOURCE OF SPILL:**

**LUST?:**                      **SOIL CONTAMINATED?:**  
**PCB LEVEL:**

STATE SPILLS SITE

**SEARCH ID:** 112                      **DIST/DIR:** 0.15 NW                      **MAP ID:** 7

**NAME:** STAR ENTERPRISES                      **REV:** 4/10/00  
**ADDRESS:** 520 ALLENS AVE                      **ID1:** 94-276  
PROVIDENCE RI 02905                      **ID2:**  
**CONTACT:** D SQUIRES                      **STATUS:**  
**PHONE:**

**SPILL DATE:** 06-22-94                      **SPILL NOTIFIER:** STAR ENTERPRISES  
**STAFF:** D SQUIRES

**MATERIAL SPILLED:** UNLEADED GASOLINE  
**SPILL AMOUNT REPORTED:** 50000 GALLONS  
**INCIDENT:** VALVE PROBLEM                      **SOURCE OF SPILL:** TANK

**LUST?:**                      **SOIL CONTAMINATED?:**  
**PCB LEVEL:**

***Environmental FirstSearch  
Site Detail Report***

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**STATE SPILLS SITE**

**SEARCH ID:** 113                      **DIST/DIR:** 0.15 NW                      **MAP ID:** 7

**NAME:** TRUCK  
**ADDRESS:** 520 ALLENS AVE  
PROVIDENCE RI 02905

**REV:** 4/10/00  
**ID1:** 94-364  
**ID2:**  
**STATUS:**  
**PHONE:**

**CONTACT:** J BALL

**SPILL DATE:** 08-03-94  
**STAFF:** J BALL

**SPILL NOTIFIER:** DON WEIGOLD

**MATERIAL SPILLED:** #2 FUEL OIL  
**SPILL AMOUNT REPORTED:** 50 GALLONS  
**INCIDENT:** OVERFILL

**SOURCE OF SPILL:** TRUCK

**LUST?:**  
**PCB LEVEL:**

**SOIL CONTAMINATED?:**

**STATE SPILLS SITE**

**SEARCH ID:** 114                      **DIST/DIR:** 0.14 SE                      **MAP ID:** 10

**NAME:**  
**ADDRESS:** 35 TERMINAL ROAD  
PROVIDENCE RI

**REV:** 1/04/01  
**ID1:** 12041  
**ID2:**  
**STATUS:**  
**PHONE:**

**CONTACT:**

**SITE INFORMATION**

**COMPLAINT DATE:** 10/31/00  
**COMPLAINT NUMBER:** 15291  
**INSPECTION DATE:** 11/2/00  
**FOUNDED:** Y  
**AMOUNT OF MATERIAL:** 42000 BARRELS



**Environmental FirstSearch  
Site Detail Report**

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**STATE SPILLS SITE**

**SEARCH ID:** 115

**DIST/DIR:** 0.16 SE

**MAP ID:** 16

**NAME:**  
**ADDRESS:** 642 ALLENS AVE  
PROVIDENCE RI

**REV:** 1/04/01  
**ID1:** 12149  
**ID2:**  
**STATUS:**  
**PHONE:**

**CONTACT:**

**SITE INFORMATION**

**COMPLAINT DATE:** 11/14/00  
**COMPLAINT NUMBER:** 15429  
**INSPECTION DATE:** 11/14/00  
**FOUNDED:** Y  
**AMOUNT OF MATERIAL:** 20 CUBIC YARDS

**Environmental FirstSearch  
Site Detail Report**

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**REGISTERED UNDERGROUND STORAGE TANKS**

**SEARCH ID:** 116                                      **DIST/DIR:** 0.23 SE                                      **MAP ID:** 66

**NAME:** ALLENS AVENUE FIRE STATION                                      **REV:** 2/19/01  
**ADDRESS:** 776 ALLENS AVENUE                                      **ID1:** 03261  
PROVIDENCE RI 02905                                      **ID2:**

**CONTACT:**                                      **STATUS:**  
**PHONE:**

	<u>TANKS</u>	<u>INSTALLED</u>	<u>CAPACITY</u>
<b>CURRENT:</b>	1	99-99	1,000
<b>REMOVED:</b>			
<b>PERMANENT:</b>	1		550
<b>UNKNOWN:</b>			
<b>TEMP:</b>			
<b>CLOSED:</b>			

**PRODUCT STORED:** #2 FUEL OIL/HOME HEATING OIL,DIESEL

**REGISTERED UNDERGROUND STORAGE TANKS**

**SEARCH ID:** 117                                      **DIST/DIR:** 0.24 SE                                      **MAP ID:** 67

**NAME:** AMICA MUTUAL INSURANCE COMPANY                                      **REV:** 2/19/01  
**ADDRESS:** 1 BAKER STREET                                      **ID1:** 00684  
PROVIDENCE RI 02905                                      **ID2:**

**CONTACT:**                                      **STATUS:**  
**PHONE:**

	<u>TANKS</u>	<u>INSTALLED</u>	<u>CAPACITY</u>
<b>CURRENT:</b>			
<b>REMOVED:</b>	1	04-74	5,000
<b>PERMANENT:</b>			
<b>UNKNOWN:</b>			
<b>TEMP:</b>			
<b>CLOSED:</b>			

**PRODUCT STORED:** UNLEADED REGULAR GASOLINE

**Environmental FirstSearch  
Site Detail Report**

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**REGISTERED UNDERGROUND STORAGE TANKS**

**SEARCH ID:** 118                      **DIST/DIR:** 0.25 SW                      **MAP ID:** 68

**NAME:** ARGONNE JEWELRY CO INC  
**ADDRESS:** 45 BAKER STREET  
PROVIDENCE RI 02905

**REV:** 2/19/01  
**ID1:** 02626  
**ID2:**  
**STATUS:**  
**PHONE:**

**CONTACT:**

	<u>TANKS</u>	<u>INSTALLED</u>	<u>CAPACITY</u>
<b>CURRENT:</b>	1	06-58	1,500
<b>REMOVED:</b>			
<b>PERMANENT:</b>			
<b>UNKNOWN:</b>			
<b>TEMP:</b>			
<b>CLOSED:</b>			

**PRODUCT STORED:** #2 FUEL OIL/HOME HEATING OIL

**REGISTERED UNDERGROUND STORAGE TANKS**

**SEARCH ID:** 119                      **DIST/DIR:** 0.25 SW                      **MAP ID:** 69

**NAME:** BAKER STREET REALTY ASSOC LLC  
**ADDRESS:** 35 BAKER STREET  
PROVIDENCE RI 02905

**REV:** 11/24/95  
**ID1:** 03499  
**ID2:**  
**STATUS:**  
**PHONE:**

**CONTACT:**

	<u>TANKS</u>	<u>INSTALLED</u>	<u>CAPACITY</u>
<b>CURRENT:</b>			
<b>REMOVED:</b>			
<b>PERMANENT:</b>			
<b>UNKNOWN:</b>	1	ABND	2,000
<b>TEMP:</b>			
<b>CLOSED:</b>			

**PRODUCT STORED:** #2 FUEL OIL/HOME HEATING OIL



## *Environmental FirstSearch Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

REGISTERED UNDERGROUND STORAGE TANKS																															
<b>SEARCH ID:</b> 122	<b>DIST/DIR:</b> 0.14 SE	<b>MAP ID:</b> 10																													
<b>NAME:</b> HUDSON TERMINAL CORPORATION		<b>REV:</b> 2/19/01																													
<b>ADDRESS:</b> 29 TERMINAL ROAD PROVIDENCE RI 02905		<b>ID1:</b> 03500																													
<b>CONTACT:</b>		<b>ID2:</b>																													
		<b>STATUS:</b>																													
		<b>PHONE:</b>																													
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="text-align: center; width: 20%;"><u>TANKS</u></th> <th style="text-align: center; width: 20%;"><u>INSTALLED</u></th> <th style="text-align: center; width: 20%;"><u>CAPACITY</u></th> </tr> </thead> <tbody> <tr> <td><b>CURRENT:</b></td> <td style="text-align: center;">1</td> <td style="text-align: center;">05-75</td> <td style="text-align: center;">10,000</td> </tr> <tr> <td><b>REMOVED:</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>PERMANENT:</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>UNKNOWN:</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>TEMP:</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>CLOSED:</b></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p><b>PRODUCT STORED:</b> #6 (BUNKER C) FUEL OIL</p>					<u>TANKS</u>	<u>INSTALLED</u>	<u>CAPACITY</u>	<b>CURRENT:</b>	1	05-75	10,000	<b>REMOVED:</b>				<b>PERMANENT:</b>				<b>UNKNOWN:</b>				<b>TEMP:</b>				<b>CLOSED:</b>			
	<u>TANKS</u>	<u>INSTALLED</u>	<u>CAPACITY</u>																												
<b>CURRENT:</b>	1	05-75	10,000																												
<b>REMOVED:</b>																															
<b>PERMANENT:</b>																															
<b>UNKNOWN:</b>																															
<b>TEMP:</b>																															
<b>CLOSED:</b>																															

REGISTERED UNDERGROUND STORAGE TANKS																															
<b>SEARCH ID:</b> 123	<b>DIST/DIR:</b> 0.14 SE	<b>MAP ID:</b> 13																													
<b>NAME:</b> J.J. HUDSON COMPANY		<b>REV:</b> 2/19/01																													
<b>ADDRESS:</b> 25 TERMINAL ROAD PROVIDENCE RI		<b>ID1:</b> 01705																													
<b>CONTACT:</b>		<b>ID2:</b>																													
		<b>STATUS:</b>																													
		<b>PHONE:</b>																													
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	<u>TANKS</u>	<u>INSTALLED</u>	<u>CAPACITY</u>																												
<b>CURRENT:</b>	1	08-68	10,000																												
<b>REMOVED:</b>																															
<b>PERMANENT:</b>																															
<b>UNKNOWN:</b>																															
<b>TEMP:</b>																															
<b>CLOSED:</b>																															

*Environmental FirstSearch  
Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**REGISTERED UNDERGROUND STORAGE TANKS**

**SEARCH ID:** 124

**DIST/DIR:** 0.24 SW

**MAP ID:** 19

**NAME:** JRS REFINERS INC  
**ADDRESS:** P O BOX 2299  
PROVIDENCE RI 02905

**REV:** 2/19/01  
**ID1:** 03203  
**ID2:**  
**STATUS:**  
**PHONE:**

**CONTACT:**

	<u>TANKS</u>	<u>INSTALLED</u>	<u>CAPACITY</u>
<b>CURRENT:</b>	2	99-99	5,000
<b>REMOVED:</b>			
<b>PERMANENT:</b>			
<b>UNKNOWN:</b>			
<b>TEMP:</b>			
<b>CLOSED:</b>			

**PRODUCT STORED:** #2 FUEL OIL/HOME HEATING OIL

**REGISTERED UNDERGROUND STORAGE TANKS**

**SEARCH ID:** 125

**DIST/DIR:** 0.20 SE

**MAP ID:** 71

**NAME:** LITTLE & CO INC  
**ADDRESS:** 697 ALLENS AVENUE  
PROVIDENCE RI 02905

**REV:** 2/19/01  
**ID1:** 00682  
**ID2:**  
**STATUS:**  
**PHONE:**

**CONTACT:**

	<u>TANKS</u>	<u>INSTALLED</u>	<u>CAPACITY</u>
<b>CURRENT:</b>			
<b>REMOVED:</b>	1	99-99	1,000
<b>PERMANENT:</b>			
<b>UNKNOWN:</b>			
<b>TEMP:</b>			
<b>CLOSED:</b>			

**PRODUCT STORED:** #2 FUEL OIL/HOME HEATING OIL

**Environmental FirstSearch  
Site Detail Report**

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**REGISTERED UNDERGROUND STORAGE TANKS**

**SEARCH ID:** 126                                      **DIST/DIR:** 0.23 SE                                      **MAP ID:** 72

**NAME:** MUNICIPAL GARAGE (DPW)                                      **REV:** 2/19/01  
**ADDRESS:** 30 ERNEST ST                                      **ID1:** 18725  
PROVIDENCE RI                                      **ID2:**

**CONTACT:**                                      **STATUS:**  
**PHONE:**

	<u>TANKS</u>	<u>INSTALLED</u>	<u>CAPACITY</u>
<b>CURRENT:</b>	1		10,000
<b>REMOVED:</b>			
<b>PERMANENT:</b>	4		550-10,000
<b>UNKNOWN:</b>			
<b>TEMP:</b>			
<b>CLOSED:</b>			

**PRODUCT STORED:** HEATING OIL,GASOLINE,USED OIL

**REGISTERED UNDERGROUND STORAGE TANKS**

**SEARCH ID:** 127                                      **DIST/DIR:** 0.16 SE                                      **MAP ID:** 16

**NAME:** PROVIDENCE GAS CO/GAS SUPPLY DIV                                      **REV:** 2/19/01  
**ADDRESS:** 642 ALLENS AVE                                      **ID1:** 01352  
NORTH PROVIDENCE RI 02905                                      **ID2:**

**CONTACT:**                                      **STATUS:**  
**PHONE:**

	<u>TANKS</u>	<u>INSTALLED</u>	<u>CAPACITY</u>
<b>CURRENT:</b>			
<b>REMOVED:</b>	3	05-74	2,000-4,000
<b>PERMANENT:</b>	2	FILLED	10,000
<b>UNKNOWN:</b>			
<b>TEMP:</b>			
<b>CLOSED:</b>			

**PRODUCT STORED:** UNLEADED REGULAR GASOLINE,UNSPECIFIED DIESEL

**Environmental FirstSearch  
Site Detail Report**

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**REGISTERED UNDERGROUND STORAGE TANKS**

**SEARCH ID:** 128                      **DIST/DIR:** 0.17 SE                      **MAP ID:** 74

**NAME:** SANITARY GARAGE  
**ADDRESS:** 100 TERMINAL ROAD  
PROVIDENCE RI

**REV:** 2/19/01  
**ID1:** 18718  
**ID2:**  
**STATUS:**  
**PHONE:**

**CONTACT:**

	<u>TANKS</u>	<u>INSTALLED</u>	<u>CAPACITY</u>
<b>CURRENT:</b>	1		275
<b>REMOVED:</b>			
<b>PERMANENT:</b>	1		8,000
<b>UNKNOWN:</b>			
<b>TEMP:</b>			
<b>CLOSED:</b>			

**PRODUCT STORED:** HEATING OIL,DIESEL

**REGISTERED UNDERGROUND STORAGE TANKS**

**SEARCH ID:** 129                      **DIST/DIR:** 0.18 SW                      **MAP ID:** 18

**NAME:** SHANE REALTY, LLC  
**ADDRESS:** 125 ERNEST STREET  
PROVIDENCE RI 02905

**REV:** 2/19/01  
**ID1:** 00683  
**ID2:**  
**STATUS:**  
**PHONE:**

**CONTACT:**

	<u>TANKS</u>	<u>INSTALLED</u>	<u>CAPACITY</u>
<b>CURRENT:</b>	1	04-83	4,000
<b>REMOVED:</b>	1	99-99	2,000
<b>PERMANENT:</b>			
<b>UNKNOWN:</b>			
<b>TEMP:</b>			
<b>CLOSED:</b>			

**PRODUCT STORED:** #2 FUEL OIL/HOME HEATING OIL,UNKNOWN



*Environmental FirstSearch  
Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

REGISTERED UNDERGROUND STORAGE TANKS		
<b>SEARCH ID:</b> 130	<b>DIST/DIR:</b> 0.15 NW	<b>MAP ID:</b> 7
<b>NAME:</b> STAR ENTERPRISE <b>ADDRESS:</b> 520 ALLENS AVENUE PROVIDENCE RI 02905	<b>REV:</b> 3/29/00 <b>ID1:</b> 00488 <b>ID2:</b> <b>STATUS:</b> <b>PHONE:</b>	
<b>CONTACT:</b>		
	<u>TANKS</u>	<u>INSTALLED</u>
<b>CURRENT:</b>		<u>CAPACITY</u>
<b>REMOVED:</b>	17	04-55
<b>PERMANENT:</b>		250-10,000
<b>UNKNOWN:</b>		
<b>TEMP:</b>		
<b>CLOSED:</b>		
<b>PRODUCT STORED:</b> UNSPECIFIED GASOLINE,GASOLINE ADD,DIESEL,#2 FUEL OIL,WASTE OIL		

REGISTERED UNDERGROUND STORAGE TANKS		
<b>SEARCH ID:</b> 131	<b>DIST/DIR:</b> 0.15 NW	<b>MAP ID:</b> 7
<b>NAME:</b> STAR ENTERPRISE CUMBERLAND FARMS <b>ADDRESS:</b> 520 ALLENS AVENUE PROVIDENCE RI 02905	<b>REV:</b> 2/19/01 <b>ID1:</b> 03189 <b>ID2:</b> <b>STATUS:</b> <b>PHONE:</b>	
<b>CONTACT:</b>		
	<u>TANKS</u>	<u>INSTALLED</u>
<b>CURRENT:</b>		<u>CAPACITY</u>
<b>REMOVED:</b>	17	04-55
<b>PERMANENT:</b>		400-10,000
<b>UNKNOWN:</b>		
<b>TEMP:</b>		
<b>CLOSED:</b>		
<b>PRODUCT STORED:</b> GASOLINE ADDITIVE		

### Environmental FirstSearch Site Detail Report

**TARGET SITE:** 642ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

REGISTERED UNDERGROUND STORAGE TANKS			
<b>SEARCH ID:</b> 132	<b>DIST/DIR:</b> 0.14 SE	<b>MAP ID:</b> 10	
<b>NAME:</b> SUN REFINING AND MARKETING CO		<b>REV:</b> 2/19/01	
<b>ADDRESS:</b> 35 TERMINAL ROAD PROVIDENCE RI 02905		<b>ID1:</b> 01250	
<b>CONTACT:</b>		<b>ID2:</b>	
		<b>STATUS:</b>	
		<b>PHONE:</b>	
	<u>TANKS</u>	<u>INSTALLED</u>	<u>CAPACITY</u>
<b>CURRENT:</b>			
<b>REMOVED:</b>	4	05-63	550-4,000
<b>PERMANENT:</b>			
<b>UNKNOWN:</b>			
<b>TEMP:</b>			
<b>CLOSED:</b>			
<b>PRODUCT STORED:</b> #2 FUEL OIL,WASTE OIL,VAPOR RECOVERY DROPOUT			

REGISTERED UNDERGROUND STORAGE TANKS			
<b>SEARCH ID:</b> 133	<b>DIST/DIR:</b> 0.10 NW	<b>MAP ID:</b> 22	
<b>NAME:</b> TEXACO		<b>REV:</b> 2/19/01	
<b>ADDRESS:</b> 540 ALLENS AVENUE PROVIDENCE RI 02905		<b>ID1:</b> 00429	
<b>CONTACT:</b>		<b>ID2:</b>	
		<b>STATUS:</b>	
		<b>PHONE:</b>	
	<u>TANKS</u>	<u>INSTALLED</u>	<u>CAPACITY</u>
<b>CURRENT:</b>			
<b>REMOVED:</b>	2	04-71	500-6,000
<b>PERMANENT:</b>			
<b>UNKNOWN:</b>			
<b>TEMP:</b>			
<b>CLOSED:</b>			
<b>PRODUCT STORED:</b> UNLEADED REGULAR/SUPER GASOLINE,DIESEL,#2 FUEL OIL,WASTE OIL			

*Environmental FirstSearch  
Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

LEAKING UNDERGROUND STORAGE TANKS			
<b>SEARCH ID:</b> 134	<b>DIST/DIR:</b> 0.35 SW	<b>MAP ID:</b> 21	
<b>NAME:</b> ARDENTE SUPPLY <b>ADDRESS:</b> 217 CHAPMAN ST PROVIDENCE RI		<b>REV:</b> 5/7/02 <b>ID1:</b> 28151-ST <b>ID2:</b> <b>STATUS:</b> SRO - SOIL REMOVAL ONLY <b>PHONE:</b>	
<b>CONTACT:</b>			
<b>PROJECT DATE:</b>		11/2/1997 0:00:00	

LEAKING UNDERGROUND STORAGE TANKS			
<b>SEARCH ID:</b> 135	<b>DIST/DIR:</b> 0.31 SE	<b>MAP ID:</b> 9	
<b>NAME:</b> ARMBRUST CHAIN CORP. <b>ADDRESS:</b> 735 ALLENS AVE. PROVIDENCE RI		<b>REV:</b> 5/7/02 <b>ID1:</b> 2854-LS <b>ID2:</b> <b>STATUS:</b> I - INACTIVE <b>PHONE:</b>	
<b>CONTACT:</b>			
<b>PROJECT DATE:</b>		7/30/1993 0:00:00	

LEAKING UNDERGROUND STORAGE TANKS			
<b>SEARCH ID:</b> 136	<b>DIST/DIR:</b> 0.27 SW	<b>MAP ID:</b> 73	
<b>NAME:</b> BANK OF BOSTON PROPERTY <b>ADDRESS:</b> 75 BAKER ST PROVIDENCE RI		<b>REV:</b> 5/7/02 <b>ID1:</b> 28136-ST <b>ID2:</b> <b>STATUS:</b> SRO - SOIL REMOVAL ONLY <b>PHONE:</b>	
<b>CONTACT:</b>			
<b>PROJECT DATE:</b>		1/27/1997 0:00:00	

*Environmental FirstSearch  
Site Detail Report*

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

LEAKING UNDERGROUND STORAGE TANKS

**SEARCH ID:** 137                                    **DIST/DIR:** 0.34 SW                                    **MAP ID:** 70

**NAME:** DES OFFSET                                    **REV:** 5/7/02  
**ADDRESS:** 55 JOHNSON STREET                                    **ID1:** 28174-ST  
PROVIDENCE RI                                    **ID2:**  
**CONTACT:**                                    **STATUS:** SRO - SOIL REMOVAL ONLY  
**PHONE:**

**PROJECT DATE:** 10/22/1998 0:00:00

LEAKING UNDERGROUND STORAGE TANKS

**SEARCH ID:** 138                                    **DIST/DIR:** 0.45 NW                                    **MAP ID:** 65

**NAME:** DRAKE PETROLEUM                                    **REV:** 5/7/02  
**ADDRESS:** 355 ALLENS AVENUE                                    **ID1:** 2863-LS  
PROVIDENCE RI                                    **ID2:**  
**CONTACT:**                                    **STATUS:** A - ACTIVE  
**PHONE:**

**PROJECT DATE:** 10/21/1993 0:00:00

LEAKING UNDERGROUND STORAGE TANKS

**SEARCH ID:** 139                                    **DIST/DIR:** 0.27 SE                                    **MAP ID:** 23

**NAME:** GEORGE MANN & CO INC                                    **REV:** 5/7/02  
**ADDRESS:** 175 TERMINAL RD                                    **ID1:** 28196-LS  
PROVIDENCE RI                                    **ID2:**  
**CONTACT:**                                    **STATUS:** SRO - SOIL REMOVAL ONLY  
**PHONE:**

**PROJECT DATE:** 2/3/1999 0:00:00

*Environmental FirstSearch  
Site Detail Report*

**TARGET SITE:** 642ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

LEAKING UNDERGROUND STORAGE TANKS

**SEARCH ID:** 140 **DIST/DIR:** 0.39 SE **MAP ID:** 14

**NAME:** HUDSON LIQUID ASPHALT  
**ADDRESS:** 1 SERVICE ROAD  
PROVIDENCE RI

**REV:** 5/7/02  
**ID1:** 28193-LS  
**ID2:**  
**STATUS:** SRO - SOIL REMOVAL ONLY  
**PHONE:**

**CONTACT:**

**PROJECT DATE:** 3/17/1999 0:00:00

LEAKING UNDERGROUND STORAGE TANKS

**SEARCH ID:** 141 **DIST/DIR:** 0.31 SE **MAP ID:** 20

**NAME:** L. RUSSO TRUCKING  
**ADDRESS:** 5 SHIPYARD STREET  
PROVIDENCE RI

**REV:** 5/7/02  
**ID1:** 28180-LS  
**ID2:**  
**STATUS:** SRO - SOIL REMOVAL ONLY  
**PHONE:**

**CONTACT:**

**PROJECT DATE:** 12/2/1998 0:00:00

LEAKING UNDERGROUND STORAGE TANKS

**SEARCH ID:** 142 **DIST/DIR:** 0.29 NW **MAP ID:** 47

**NAME:** MANDELLA WOODS (FAMILY DEVELOPMENT CORP.)  
**ADDRESS:** 49 PAVILLION AVENUE  
PROVIDENCE RI

**REV:** 5/7/02  
**ID1:** 2893-ST  
**ID2:**  
**STATUS:** I - INACTIVE  
**PHONE:**

**CONTACT:**

**PROJECT DATE:** 10/20/1994 0:00:00

**Environmental FirstSearch  
Site Detail Report**

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

**LEAKING UNDERGROUND STORAGE TANKS**

**SEARCH ID:** 143                                      **DIST/DIR:** 0.40 SE                                      **MAP ID:** 15

**NAME:** NARRAGANSETT BAY COMMISSION  
**ADDRESS:** FIELDS PT.  
PROVIDENCE RI

**REV:** 5/7/02  
**ID1:** 2827-LS  
**ID2:**  
**STATUS:** I - INACTIVE  
**PHONE:**

**CONTACT:**

**PROJECT DATE:** 9/5/1991 0:00:00

**LEAKING UNDERGROUND STORAGE TANKS**

**SEARCH ID:** 144                                      **DIST/DIR:** 0.49 NW                                      **MAP ID:** 75

**NAME:** PETRO OIL  
**ADDRESS:** POE STREET @ PLEASURE STREET  
PROVIDENCE RI

**REV:** 5/7/02  
**ID1:** 2806-LS  
**ID2:**  
**STATUS:** I - INACTIVE  
**PHONE:**

**CONTACT:**

**PROJECT DATE:** 1/1/1989 0:00:00

**LEAKING UNDERGROUND STORAGE TANKS**

**SEARCH ID:** 145                                      **DIST/DIR:** 0.25 SE                                      **MAP ID:** 17

**NAME:** PUBLIC WORKS DEPARTMENT CITY OF PROVIDENCE  
**ADDRESS:** ERNEST STREET  
PROVIDENCE RI

**REV:** 5/7/02  
**ID1:** 28217-LS  
**ID2:**  
**STATUS:** SRO - SOIL REMOVAL ONLY  
**PHONE:**

**CONTACT:**

**PROJECT DATE:** 12/18/2000 0:00:00

## Environmental FirstSearch Site Detail Report

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

### LEAKING UNDERGROUND STORAGE TANKS

**SEARCH ID:** 146                                **DIST/DIR:** 0.49 NW                                **MAP ID:** 6

<b>NAME:</b> ROGER WILLIAMS HOUSING PROJECT	<b>REV:</b>	
<b>ADDRESS:</b> PROVIDENCE RI	<b>ID1:</b>	2820-LS
	<b>ID2:</b>	
<b>CONTACT:</b>	<b>STATUS:</b>	NO
	<b>PHONE:</b>	

<b>REPORT DATE:</b> 02-01-91	<b>FED REG:</b>	
<b>MATERIAL:</b>	<b>NUMBER OF TANKS:</b>	
<b>LOW CAPACITY:</b>	<b>HIGH CAPACITY:</b>	
<b>PRODUCT:</b>		

<b>TANK REMOVED:</b>	<b>UNCONTROLLED RELEASE:</b>	<b>EMERGENCY:</b>
<b>TANK RELEASE:</b>	<b>PIPING RELEASE:</b>	<b>OVERFILL RELEASE:</b>

<b>REMEDIAION:</b> INVEST/REMEDIATION REQUIRED	<b>COMPLETE:</b>	NO
<b>REFERRED:</b>		
<b>COMMENT:</b>		

### LEAKING UNDERGROUND STORAGE TANKS

**SEARCH ID:** 147                                **DIST/DIR:** 0.10 NW                                **MAP ID:** 22

<b>NAME:</b> STAR ENTERPRISE SERVICE STATION	<b>REV:</b>	5/7/02
<b>ADDRESS:</b> 540 ALLENS AVENUE PROVIDENCE RI	<b>ID1:</b>	2807-LS
	<b>ID2:</b>	
<b>CONTACT:</b>	<b>STATUS:</b>	I - INACTIVE
	<b>PHONE:</b>	

**PROJECT DATE:** 2/1/1989 0:00:00

**Environmental FirstSearch**  
**Site Detail Report**

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

LEAKING UNDERGROUND STORAGE TANKS

**SEARCH ID:** 148                      **DIST/DIR:** 0.14 SE                      **MAP ID:** 10

<b>NAME:</b> SUN TERMINAL	<b>REV:</b>
<b>ADDRESS:</b> 35 TERMINAL ROAD	<b>ID1:</b> 28110-LS
PROVIDENCE RI 02905	<b>ID2:</b>
	<b>STATUS:</b> NO
<b>CONTACT:</b>	<b>PHONE:</b>

<b>REPORT DATE:</b> 07-10-95	<b>FED REG:</b>	
<b>MATERIAL:</b>	<b>NUMBER OF TANKS:</b>	
<b>LOW CAPACITY:</b>	<b>HIGH CAPACITY:</b>	
<b>PRODUCT:</b>		
<b>TANK REMOVED:</b>	<b>UNCONTROLLED RELEASE:</b>	<b>EMERGENCY:</b>
<b>TANK RELEASE:</b>	<b>PIPING RELEASE:</b>	<b>OVERFILL RELEASE:</b>
<b>REMEDIAATION:</b> INVEST/REMEDIATION REQUIRED	<b>COMPLETE:</b> NO	
<b>REFERRED:</b>		
<b>COMMENT:</b>		

LEAKING UNDERGROUND STORAGE TANKS

**SEARCH ID:** 149                      **DIST/DIR:** 0.14 SE                      **MAP ID:** 10

<b>NAME:</b> SUN TERMINAL	<b>REV:</b> 5/7/02
<b>ADDRESS:</b> 35 TERMINAL ROAD	<b>ID1:</b> 28110-ST
PROVIDENCE RI	<b>ID2:</b>
	<b>STATUS:</b> I - INACTIVE
<b>CONTACT:</b>	<b>PHONE:</b>

**PROJECT DATE:** 7/10/1995 0:00:00



**Environmental FirstSearch  
Federal Databases and Sources**

1. **NPL: National Priority List.** The EPA's list of confirmed or proposed Superfund sites.

*Updated quarterly.*

2. **CERCLIS: Comprehensive Environmental Response Compensation and Liability Information System.** The EPA's database of current and potential Superfund sites currently or previously under investigation.

*Updated quarterly.*

3. **RCRIS: Resource Conservation and Recovery Information System.** The EPA's database of registered hazardous waste generators and treatment, storage and disposal facilities. Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List).

*Updated quarterly.*

4. **ERNS: Emergency Response Notification System.** The EPA's database of EPA emergency response actions.

*Updated quarterly.*

5. **NPDES: National Pollution Discharge Elimination System.** The EPA's database of all permitted facilities receiving and discharging effluents to and from the environment.

*Updated semi-annually.*

6. **FINDS: The Facility Index System.** The EPA's Index of identification numbers associated with a property or facility which the EPA has investigated or has been made aware of in conjunction with various regulatory programs. Each record indicates the EPA office that may have files on the site or facility.

*Updated quarterly.*

**Environmental FirstSearch  
Rhode Island Databases and Sources**

1. **Spills:** The RI Department of Environmental Management's list of Oil and Chemical Spills produced by the Division of Site Remediation.

*Updated quarterly.*

2. **Landfills:** The RI Department of Environmental Management's listing of Solid Waste Management Facilities maintained by the Division of Waste Management.

*Updated annually.*

3. **UST:** Underground Storage Tanks. The RI Department of Environmental Management's database listing of the Underground Storage Tanks Facility Master List maintained by the Underground Storage Tank Section of the Division of Waste Management.

*Updated quarterly.*

4. **PWS:** Public Water Supplies. The RI Department of Administration's database of public water supply locations maintained by the Division of Planning/RIGIS.

*Updated annually.*

**Environmental FirstSearch**  
**Street Name Report for Streets within .25 Mile(s) of Target Property**

**TARGET SITE:** 642 ALLENS AVE  
PROVIDENCE RI 02905

**JOB:** 71274

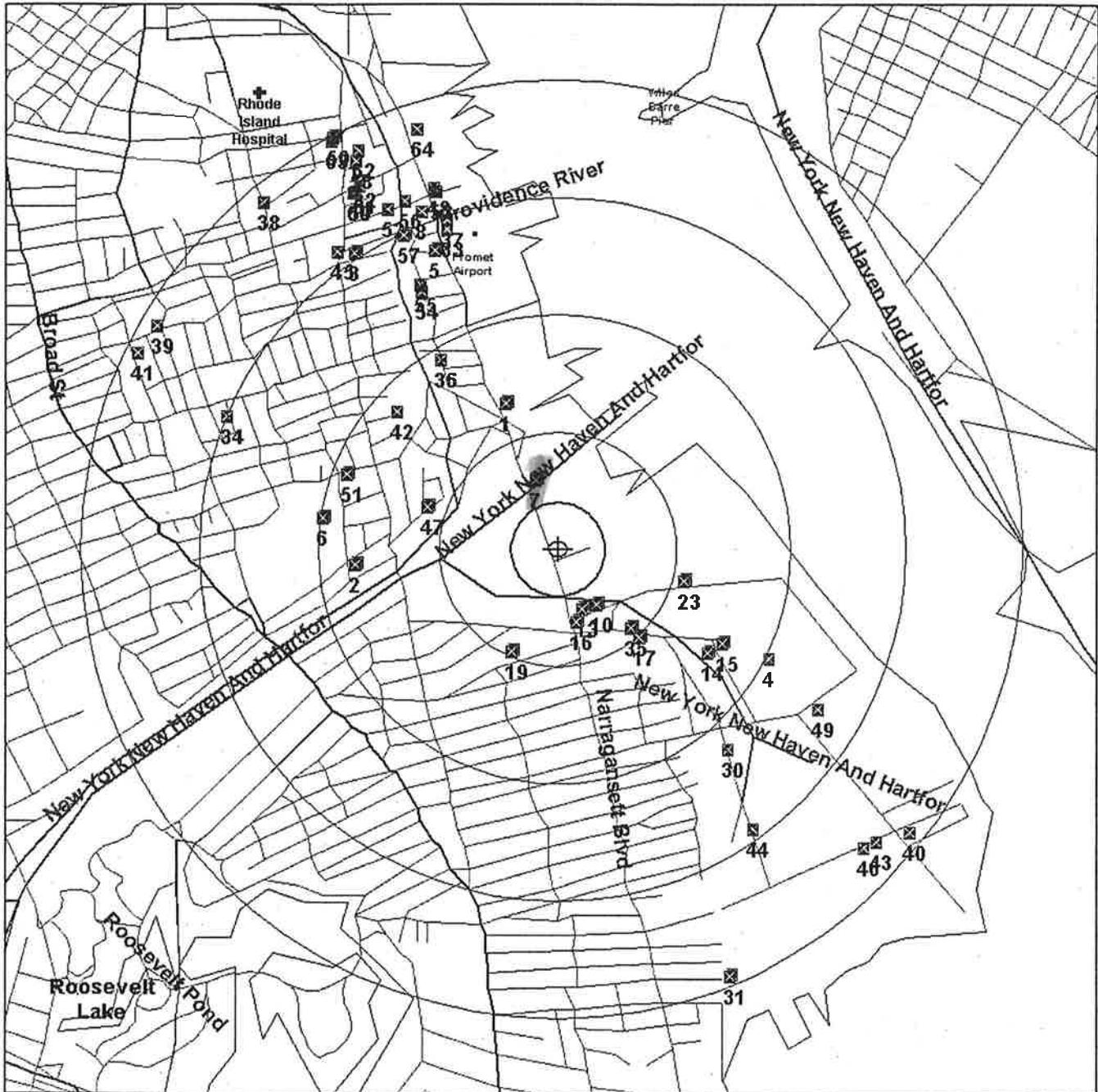
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Allens Ave	0.02 SW		
Baker St	0.24 SE		
Ellenfield St	0.21 SE		
Ellis St	0.18 SE		
Ernest St	0.17 SW		
I-95	0.23 NW		
Johnson St	0.19 SW		
Porter St	0.24 SW		
Terminal Rd	0.15 SE		



**Environmental FirstSearch**  
 1 Mile Radius  
 ASTM Map: NPL, RCRACOR, STATE Sites



**642 ALLENS AVE, PROVIDENCE RI 02905**



Source: 1999 U.S. Census TIGER Files

- Target Site (Latitude: 41.797305 Longitude: -71.398252) .....
- Identified Site, Multiple Sites, Receptor .....
- NPL, Solid Waste Landfill (SWL) or Hazardous Waste .....
- Railroads .....

Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius



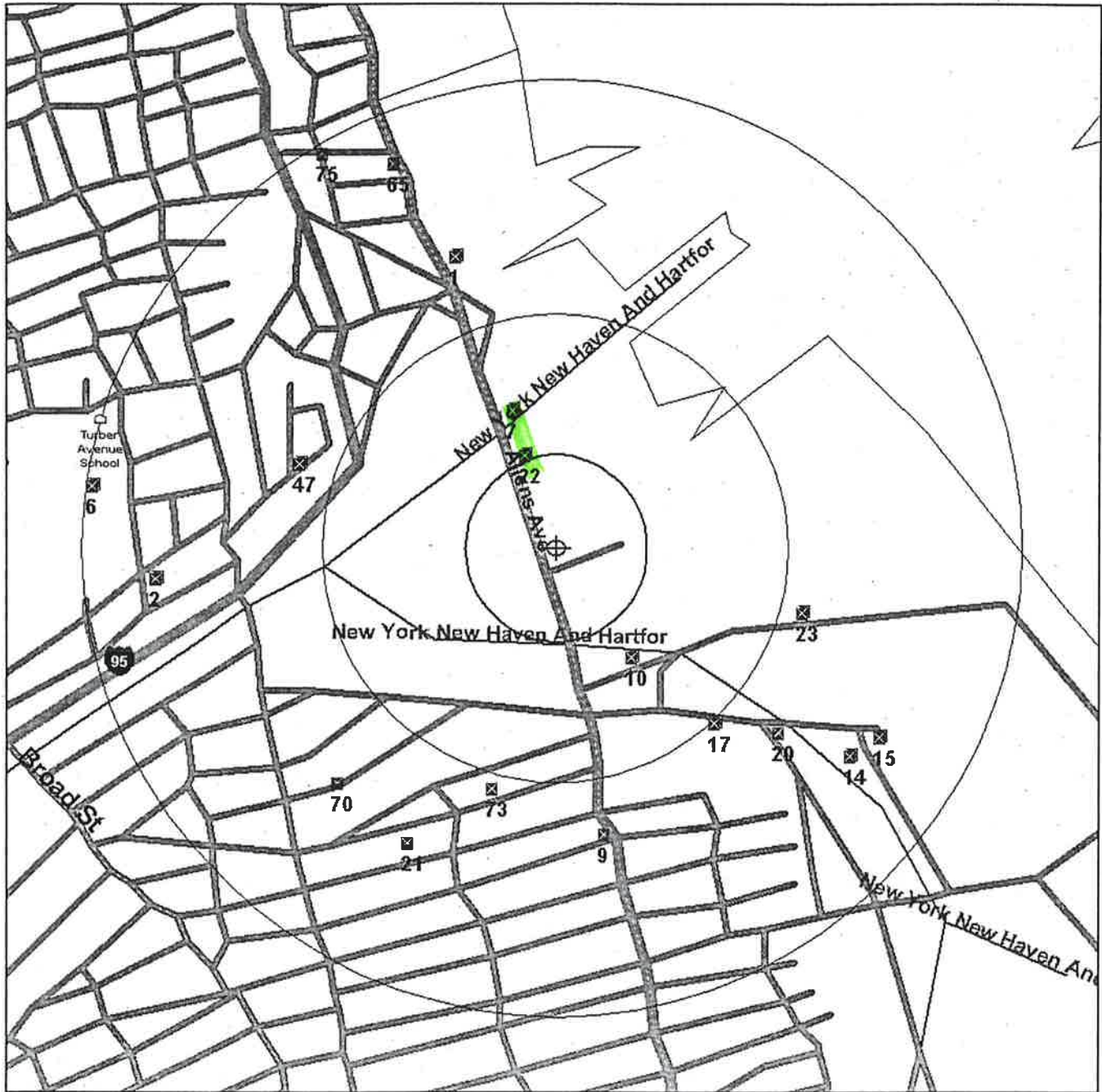
# Environmental FirstSearch

.5 Mile Radius

ASTM Map: CERCLIS, RCRATSD, LUST, SWL



## 642 ALLENS AVE, PROVIDENCE RI 02905



Source: 1999 U.S. Census TIGER Files

- Target Site (Latitude: 41.797305 Longitude: -71.398252) .....
- Identified Site, Multiple Sites, Receptor .....
- NPL, Solid Waste Landfill (SWL) or Hazardous Waste .....
- Railroads .....

Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius



# Environmental FirstSearch

.25 Mile Radius

ASTM Map: RCRAGEN, ERNS, UST



## 642 ALLENS AVE, PROVIDENCE RI 02905



Source: 1999 U.S. Census TIGER Files

- Target Site (Latitude: 41.797305 Longitude: -71.398252) .....
- Identified Site, Multiple Sites, Receptor .....
- NPL, Solid Waste Landfill (SWL) or Hazardous Waste .....
- Railroads .....

Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

# Environmental FirstSearch

.25 Mile Radius  
Non-ASTM Map: Spills 90



642 ALLENS AVE, PROVIDENCE RI 02905



Source: 1999 U.S. Census TIGER Files

- Target Site (Latitude: 41.797305 Longitude: -71.398252) .....
- Identified Site, Multiple Sites, Receptor .....
- NPL, Solid Waste Landfill (SWL) or Hazardous Waste .....
- National Historic Sites and Landmark Sites .....
- Railroads .....

Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius



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# Appendix E – Soil Borings Logs



# Soil Boring Report

**PROJECT**  
**New England Gas Company**  
**642 Allens Avenue**  
**Providence, Rhode Island**

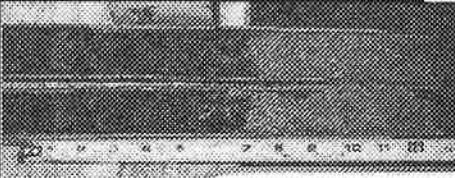
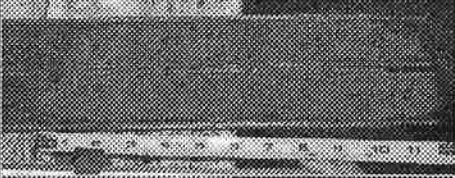


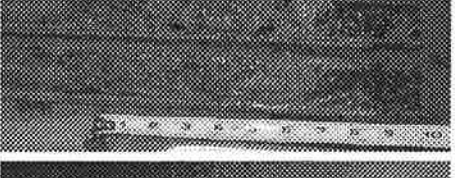
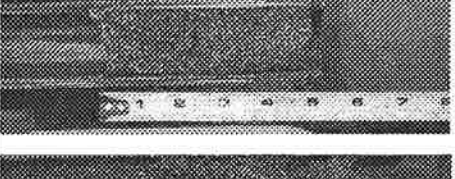
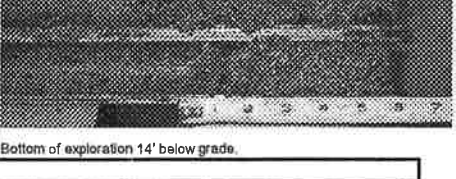
Report of Boring No. **VHB-1**

Well ID: **VHB-1**

Job Number: **71274** Sheet 1 of 1

Drilling Company: <b>Subsurface Drilling and Remediation</b>	Boring Location: <b>By office / property line north</b>
Driller: <b>Jim Goldthwaite / Josh Downing</b>	Elevation: <b>NA</b> Datum: <b>NA</b>
Inspector: <b>Keith Sullivan / Adam Rosenblatt</b>	Start Date: <b>1/15/2002</b> End Date: <b>1/15/2002</b>

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2' split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
0 - 2	1.2	S1	24 / 13	8 - 12 13 - 10	3" Asphalt over 7" coal slag, over light brown, medium dense fine SAND trace silt, trace gravel moist, no sheen or odor.	
2 - 4	ND	S2	24 / 12	8 - 7 6 - 6	Light brown, loose, fine SAND, moist, no sheen or odors.	
4 - 6	111.6	S3	24 / 11	1 - 2 1 - 2	Grayish brown, very loose, fine to medium SAND, trace silt, strong chemical odor, separate phase product, strong chemical odor.	
6 - 8	85.4	S4	24 / 10	2 - 2 2 - 1	Grayish brown, very loose, fine to medium SAND, trace silt, strong chemical odor, separate phase product, strong chemical odor.	
8 - 10	105.6	S5	24 / 11	1 - 3 5 - 6	8" gray, loose, fine SAND, trace silt, over 3" black coarse SAND, oil saturated, strong chemical odor.	
10 - 12	64.2	S6	24 / 10	1 - 2 1 - 2	Black, very loose, medium SAND, strong chemical odor, wet.	
12 - 14	31.2	S7	24 / 6	1 - 2 2 - 4	Black, very loose, medium SAND, strong chemical odor, wet.	

Bottom of exploration 14' below grade.

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS	Notes
0 - 4	V. Loose	<2	V. Soft	Trace 0 - 10%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grainsize. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10.eV photoionization detector (PID).
4 - 10	Loose	2 - 4	Soft	Little 10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some 20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And 35 - 50%	
>50	V. Dense	15 - 30	V. Stiff		
		>30	Hard		

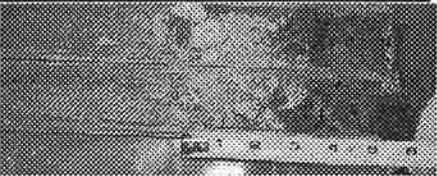
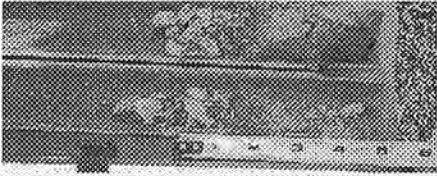
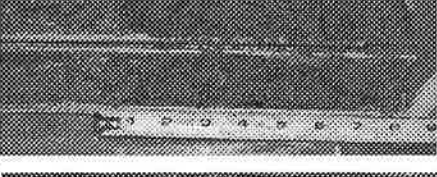
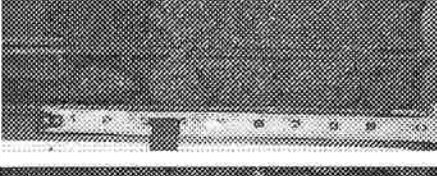
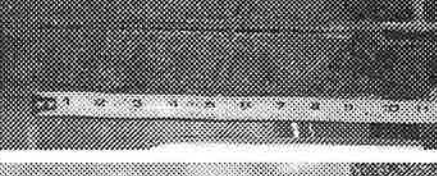
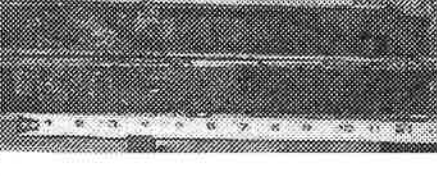
# Soil Boring Report

**PROJECT**  
 New England Gas Company  
 642 Allens Avenue  
 Providence, Rhode Island

Report of Boring No. **VHB-2**  
 Well ID: **VHB-2**  
 Job Number: **71274** Sheet 1 of 1

Drilling Company: **Subsurface Drilling and Remediation** Boring Location: **West of asphalt pile.**  
 Driller: **Jim Goldthwaite / Josh Downing** Elevation: **NA** Datum: **NA**  
 Inspector: **Keith Sullivan / Adam Rosenblatt** Start Date: **1/16/2002** End Date: **1/16/2002**

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2" split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Per/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
0 - 2	ND	S1	24 / 5	19 - 18 20 - 19	3" Asphalt over 2" black coal fragments, dry, no sheen or odors.	
2 - 4	ND	S2	24 / 5	19 - 7 9 - 8	5" Asphalt & coal fragments, dry, no sheen or odors.	
4 - 6	ND	S3	24 / 8	2 - 3 3 - 5	Dark brown to gray, loose, medium SAND and silt, some rock fragments moist to wet, no sheen or odors.	
6 - 8	ND	S4	24 / 10	2 - 3 2 - 3	Dark brown to gray, loose, medium SAND and silt, some rock fragments moist to wet, no sheen or odors.	
8 - 10	ND	S5	24 / 11	2 - 9 9 - 6	9" Olive gray, fine to medium SAND, some silt over 2" black, fine to medium SAND, trace pebbles, wet, no sheen or odors.	
10 - 12	ND	S6	24 / 13	5 - 5 10 - 9	Black, fine to coarse coal dust/coal slag, faint chemical odor, wet.	
						Bottom of exploration 12' below grade.

GRANULAR SOILS BLOWS/FT DENSITY	COHESIVE SOILS BLOWS/FT DENSITY	PROPORTIONS	Notes
0 - 4 V. Loose	<2 V. Soft	Trace 0 - 10%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grainsize. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10.eV photoionization detector (PID).
4 - 10 Loose	2 - 4 Soft	Little 10 - 20%	
10 - 30 M, Dense	4 - 8 M, Stiff	Some 20 - 35%	
30 - 50 Dense	8 - 15 Stiff	And 35 - 50%	
>50 V. Dense	15 - 30 V. Stiff		
	>30 Hard		

# Soil Boring Report

**PROJECT**  
New England Gas Company  
642 Allens Avenue  
Providence, Rhode Island

Report of Boring No. **VHB-3**  
Well ID: **VHB-3**  
Job Number: **71274** Sheet 1 of 1

Drilling Company: **Subsurface Drilling and Remediation**

Boring Location:

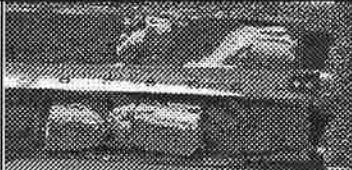
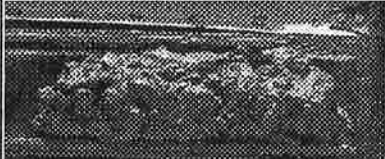

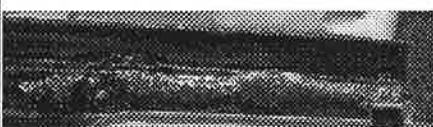

Driller: **Jim Goldthwaite / Josh Downing**

Elevation: **NA** Datum: **NA**

Inspector: **Keith Sullivan / Adam Rosenblatt**

Start Date: **1/14/2002** End Date: **1/14/2002**

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2' split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
0 - 2	0.4	S1	24 / 6	2 - 2 1 - 2	Light brownish gray (2.5Y 6/2), very loose, fine sand, dry, no sheen or odors.	
2 - 4	13.3	S2	24 / 5	1 - 1 4 - 4	Black (10YR 2/1), loose, sand, some silt, little gravel, wet, moderate chemical odor, slight sheen.	
4 - 6	20.3	S3	24 / 5	6 - 3 2 - 1	Black (10YR 2/1), loose sand, little silt, wet, faint to moderate chemical odor, slight sheen.	
6 - 8		S4	NR	wt rods	Slight sheen on spoon.	
8 - 10		S5	NR	rods - 12 5 - 4	Faint chemical odor, slight sheen on spoon.	
10 - 12	43.6	S6	24 / 12	2 - 2 1 - 2	Black (10YR 2/1), very loose fine sand, some silt, wet, sheen, free product.	
12 - 14	9.0	S7	24 / 18	1 - 2 1 - 2	Black (10YR 2/1), very loose, organic silt over dark greenish gray (10Y 3/1) fine sand, little silt, wet, no sheen or odor.	

Bottom of exploration 14' below grade.

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS	Notes
0 - 4	V. Loose	<2	V. Soft	Trace 0 - 10%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grainsize. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10.eV photoionization detector (PID).
4 - 10	Loose	2 - 4	Soft	Little 10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some 20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And 35 - 50%	
>50	V. Dense	15 - 30	V. Stiff		
		>30	Hard		

# Soil Boring Report







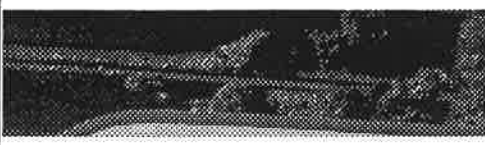
**PROJECT**  
**New England Gas Company**  
**642 Allens Avenue**  
**Providence, Rhode Island**

Report of Boring No. VHB-4  
 Well ID: NA  
 Job Number: 71274 Sheet 1 of 1

Drilling Company: Subsurface Drilling and Remediation  
 Driller: Jim Goldthwaite / Josh Downing  
 Inspector: Keith Sullivan / Adam Rosenblatt

Boring Location: \_\_\_\_\_  
 Elevation: NA Datum: NA  
 Start Date: 1/14/2002 End Date: 1/14/2002

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2" split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/5"	SAMPLE DESCRIPTION	Boring Photo
0 - 2	1.2	S1	24 / 13	2 - 4 9 - 9	Very dark grayish brown (10YR 3/2) over black (10YR 2/1) over very dark grayish brown (10YR 3/2) over light brownish gray (2.5Y 6/2) over black (10YR2/1), medium dense, fine SAND, little silt, some gravel, moist, no sheen or odors.	
2 - 4	ND	S2	24 / 9	5 - 6 14 - 20	Black (10YR 2/1) over light brownish gray (2.5Y 6/2), medium dense, fine SAND, some gravel, moist, no sheen or odors.	
4 - 6	3.0	S3	24 / 13	6 - 9 6 - 7	Very dark grayish brown (10YR 3/2) over light brownish gray (2.5Y 6/2), medium dense, fine SAND, some gravel, wet, no sheen or odors.	
6 - 8	53.0	S4	24 / 13	5 - 3 2 - 5	Light brownish gray (2.5Y 6/2), loose, fine sand, trace gravel over black (10YR 2/1) fine sand, some silt, wet, faint chemical odor.	
8 - 10	52.0	S5	24 / 14	5 - 1 1 - 2	Grayish brown (10YR 5/2), very loose, fine sand, little silt, trace gravel, wet, faint chemical odor, separate phase product.	
10 - 12	46.0	S6	24 / 6	w/rod - 3 6 - 10	Dark gray to dark grayish brown (2.5Y4/1-4/2) loose, fine sand, little silt, trace gravel, wet, faint chemical odor, separate phase product on sample bag.	
12 - 14	20.0	S7	24 / 4	4 - 5 9 - 10	Black, medium dense, fine sand, little silt, some gravel, wet, moderate chemical odor, slight sheen on sample, stained.	

Bottom of exploration 14' below grade.

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS		Notes
0 - 4	V. Loose	<2	V. Soft	Trace	0 - 10%	
4 - 10	Loose	2 - 4	Soft	Little	10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some	20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And	35 - 50%	
>50	V. Dense	15 - 30	V. Stiff			
		>30	Hard			

- 1) Soil stratification lines represent a graphical depiction of changes in soil type and grainsize. Actual changes may be gradual.
- 2) Bedrock was not encountered.
- 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates.
- 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10.eV photoionization detector (PID).

# Soil Boring Report

**PROJECT**  
**New England Gas Company**  
**642 Allens Avenue**  
**Providence, Rhode Island**

Report of Boring No. **VHB-5**

Well ID: **VHB-5**

Job Number: **71274** Sheet 1 of 2

Drilling Company: **Subsurface Drilling and Remediation**

Boring Location: **East of asphalt pile**



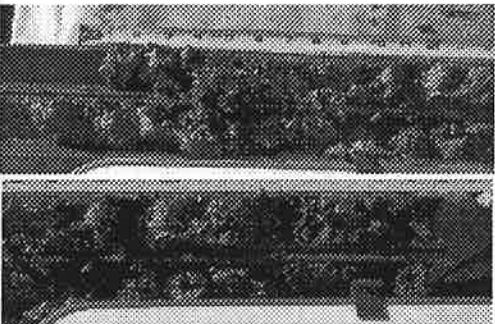
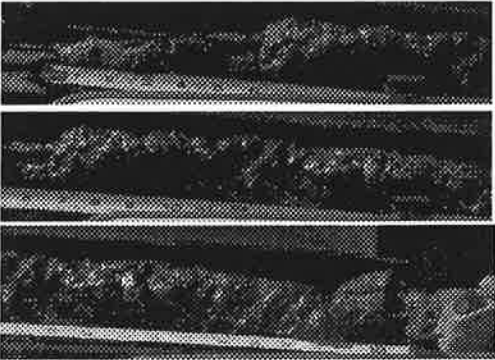
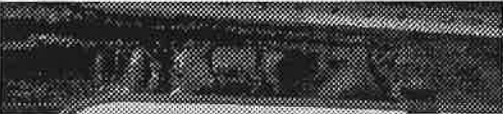
Driller: **Jim Goldthwaite / Josh Downing**

Elevation: **NA** Datum: **NA**

Inspector: **Keith Sullivan / Adam Rosenblatt**

Start Date: **1/14/2002** End Date: **1/14/2002**

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2' split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
0 - 2	ND	S1	24 / 12	8 - 18 40 - 22	Very dark grayish brown (10YR 3/2), fine sand, little silt, dry, over concrete, no sheen or odors.	
2 - 4	ND	S2	24 / 6	7 - 10 4 - 4	Very dark grayish brown (10YR 3/2), medium dense, sand and silt, little gravel, wet, no sheen, faint chemical odor.	
4 - 6	ND	S3	24 / 20	1 - 2 4 - 5	Very dark grayish brown (10YR 3/2), loose, fine SAND, little silt, wet, over black silt over dark greenish gray (5BG 3/1) sand and silt over black sand and silt, separate phase product, moderate ammonia odor.	
6 - 8	ND	S4	24 / 10	4 - 4 1 - 1	Black (10YR 2/1), loose, silt, some sand, trace gravel, wet, faint chemical odor, slight sheen on sample, coal tar droplets.	
8 - 10	ND	S5	24 / 10	1 - 2 1 - 3	Black stained very loose, sand, some silt, coal tar droplets, over dark olive gray (5Y 3/2) sand, little silt, faint chemical odor, slight sheen.	

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS		Notes
0 - 4	V. Loose	<2	V. Soft	Trace	0 - 10%	
4 - 10	Loose	2 - 4	Soft	Little	10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some	20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And	35 - 50%	
>50	V. Dense	15 - 30	V. Stiff			
		>30	Hard			

# Soil Boring Report

**PROJECT**  
New England Gas Company  
642 Allens Avenue  
Providence, Rhode Island

Report of Boring No. **VHB-5**

Well ID: **VHB-5**

Job Number: **71274** Sheet 2 of 2

Drilling Company: **Subsurface Drilling and Remediation**

Boring Location: **East of asphalt pile**


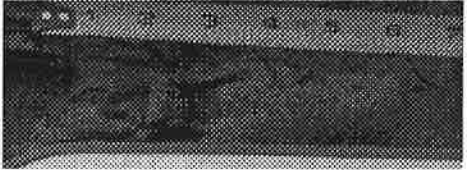
Driller: **Jim Goldthwaite / Josh Downing**

Elevation: **NA** Datum: **NA**

Inspector: **Keith Sullivan / Adam Rosenblatt**

Start Date: **1/14/2002** End Date: **1/14/2002**

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2' split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
10 - 12	ND	S6	24 / 7	1 - 11/2 3	Dark olive gray (5Y 3/2) very loose, fine sand, some silt, wet, no odors or sheen.	
12 - 14	ND	S7	24 / 6	1 - 2 1 - 3	Dark olive gray (5Y 3/2) very loose, fine sand, some silt, trace gravel, wet, no odors or sheen.	

Bottom of exploration 14' below grade.

GRANULAR SOILS		COHESIVE SOILS		PROPORTIONS		Notes
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY			
0 - 4	V. Loose	<2	V. Soft	Trace	0 - 10%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grainsize. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10.eV photoionization detector (PID).
4 - 10	Loose	2 - 4	Soft	Little	10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some	20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And	35 - 50%	
>50	V. Dense	15 - 30	V. Stiff			
		>30	Hard			

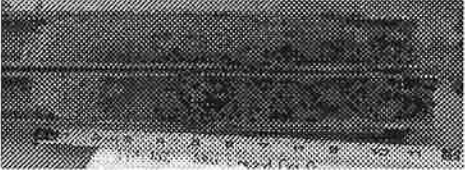
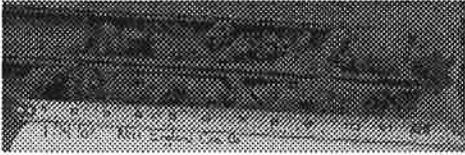




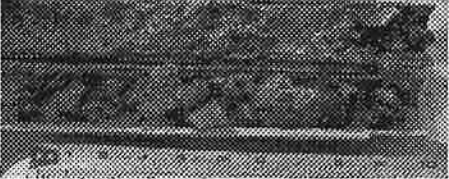
# Soil Boring Report

**PROJECT**  
**New England Gas Company**  
**642 Allens Avenue**  
**Providence, Rhode Island**

Report of Boring No. VHB-6  
 Well ID: VHB-6  
 Job Number: 71274 Sheet 1 of 1

Drilling Company: Subsurface Drilling and Remediation Boring Location: By Material Handling Area  
 Driller: Jim Goldthwaite / Josh Downing Elevation: NA Datum: NA  
 Inspector: Keith Sullivan / Adam Rosenblatt Start Date: 1/14/2002 End Date: 1/14/2002

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2" split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Per/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
0 - 2	ND	S1	24 / 12	2 - 4 8 - 9	Grayish brown (2.5Y 5/2), medium dense, sand, little silt, over very dark grayish brown (10YR 3/2) sand, some silt, little gravel, moist, no sheen or odors.	
2 - 4	ND	S2	24 / 12	10 - 11 11 - 12	Dark yellowish brown (10YR 4/6), medium dense, fine SAND, some silt, some gravel, over olive brown (2.5Y 4/3) sand, little silt, moist, no sheen or odors.	
4 - 6	8.5	S3	24 / 7	5 - 5 2 - 1	Dark grayish brown, loose, SAND, little silt, over black stained silt, faint chemical odor over dark grayish brown (10YR 4/2) fine sand, little silt.	
6 - 6 3/4	ND	S4	9 / 5	1 - 120/3"	Dark grayish brown (10YR 4/2), SAND, some silt, moist, no sheen or odor.	
8 - 10	ND	S5	24 / 5	5 - 4 2 - 2	Dark grayish brown (2.5Y 4/2), loose, SAND, little silt, some gravel, wet, no sheen or odors.	
10 - 12	ND	S6	24 / 12	4 - 1 1 - 1	Dark grayish brown (2.5Y 4/2), very loose, SAND, little silt, little gravel, wet, no sheen or odors.	
12 - 14	ND	S7	24 / 10	1 - 1 2 - 2	Dark grayish brown (2.5Y 4/2), very loose, SAND, little silt, over gray (2.5Y 5/1) and black stained fine sand, little silt, wet, faint chemical odor.	

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS	Notes
0 - 4	V. Loose	<2	V. Soft	Trace 0 - 10%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grainsize. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10.eV photoionization detector (PID).
4 - 10	Loose	2 - 4	Soft	Little 10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some 20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And 35 - 50%	
>50	V. Dense	15 - 30	V. Stiff		
		>30	Hard		

# Soil Boring Report


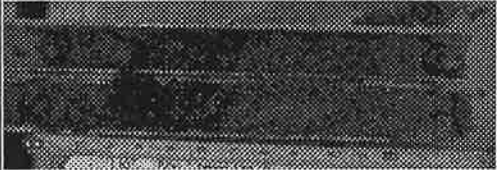

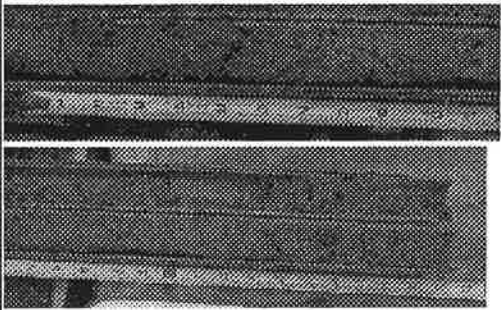
**PROJECT**  
 New England Gas Company  
 642 Allens Avenue  
 Providence, Rhode Island

Report of Boring No. VHB-7  
 Well ID: VHB-7  
 Job Number: 71274 Sheet 1 of 2

Drilling Company: Subsurface Drilling and Remediation  
 Driller: Jim Goldthwaite / Josh Downing  
 Inspector: Keith Sullivan / Adam Rosenblatt

Boring Location: East of 3B  
 Elevation: NA Datum: NA  
 Start Date: 1/14/2002 End Date: 1/14/2002

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2' split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Per/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
0 - 2	ND	S1	24 / 9	3 - 5 5 - 5	Very dark grayish brown (2.5Y 3/2), loose SAND, some silt, moist, no sheen or odors.	
2 - 4	ND	S2	24 / 14	2 - 3 2 - 2	Black stained over very dark grayish brown (2.5Y 3/2) loose, sand, some silt, trace gravel, moist, no sheen or odors.	
4 - 6	ND	S3	NR	2 - 1 2 - 2	Dark grayish brown (10YR 4/2), very loose, SAND, some silt, wet, faint chemical odor.	
6 - 6 3/4	12.5	S4	24 / 4	2 - 7 9 - 9	Dark gray (10YR 4/1), medium dense, SAND, some silt, wet, strong chemical odor, separate phase product observed on sample bag.	
8 - 10	164	S5	24 / 22	7 - 8 8 - 8	Dark gray (2.5Y 4/1), medium dense, SAND, some silt, wet, strong chemical odor, slight sheen on split spoon sampler, separate phase product observed on sample bag.	

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS		Notes
0 - 4	V. Loose	<2	V. Soft	Trace	0 - 10%	
4 - 10	Loose	2 - 4	Soft	Little	10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some	20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And	35 - 50%	
>50	V. Dense	15 - 30	V. Stiff			
		>30	Hard			



# Soil Boring Report

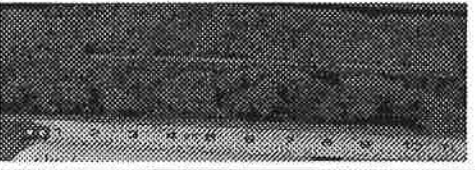

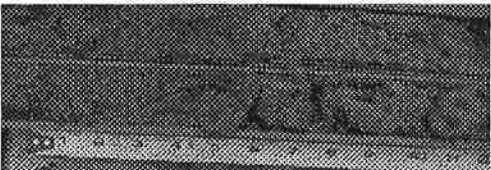
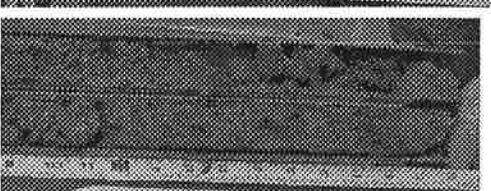
**PROJECT**  
**New England Gas Company**  
**642 Allens Avenue**  
**Providence, Rhode Island**

Report of Boring No. VHB-7  
 Well ID: VHB-7  
 Job Number: 71274 Sheet 2 of 2

Drilling Company: Subsurface Drilling and Remediation  
 Driller: Jim Goldthwaite / Josh Downing  
 Inspector: Keith Sullivan / Adam Rosenblatt

Boring Location: East of 3B  
 Elevation: NA Datum: NA  
 Start Date: 1/14/2002 End Date: 1/14/2002

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2" split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
10 - 12	153	S6	24 / 16	2 - 4 8 - 9	Dark gray (2.5Y 4/1) to olive gray (5Y 4/2), medium dense, SAND, little silt, wet, strong chemical odor, slight sheen on split spoon sampler, separate phase product observed on sample bag.	
						
12 - 14	250	S7	24 / 22	9 - 6 6 - 8	Olive gray (5Y 4/2), medium dense, fine SAND, little silt, trace gravel, with dark gray (5Y 4/1) and gray (5Y 5/1) lenses, wet, strong chemical odor, slight sheen on split spoon sampler, separate phase product observed on sample bag.	
						
						Bottom of exploration 14' below grade.

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS		Notes
0 - 4	V. Loose	<2	V. Soft	Trace	0 - 10%	
4 - 10	Loose	2 - 4	Soft	Little	10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some	20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And	35 - 50%	
>50	V. Dense	15 - 30	V. Stiff			
		>30	Hard			

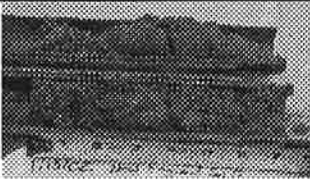
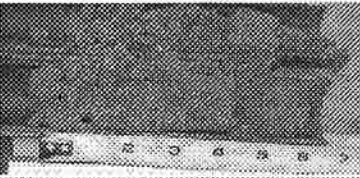
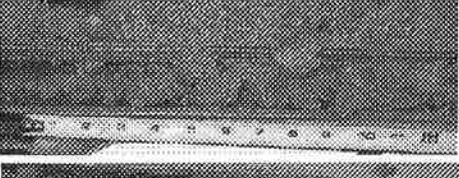


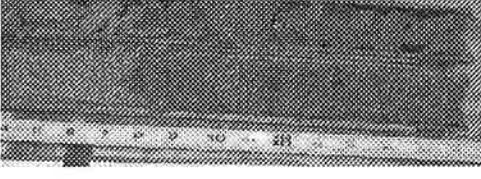
# Soil Boring Report

**PROJECT**  
**New England Gas Company**  
**642 Allens Avenue**  
**Providence, Rhode Island**

Report of Boring No. **VHB-8**  
 Well ID: **VHB-8**  
 Job Number: **71274** Sheet 1 of 3

Drilling Company: **Subsurface Drilling and Remediation** Boring Location: **Behind gasholder**  
 Driller: **Jim Goldthwaite / Josh Downing** Elevation: **NA** Datum: **NA**  
 Inspector: **Keith Sullivan / Adam Rosenblatt** Start Date: **1/15/2002** End Date: **1/15/2002**

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2' split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
0 - 2	ND	S1	24 / 7	2 - 3 3 - 3	Very dark grayish brown (10YR 3/2) over olive brown (2.5Y 4/3), loose, fine SAND, little silt, trace gravel, moist, no sheen or odors.	
2 - 4	3.0	S2	24 / 6	1 - 2 4 - 7	Olive brown (2.5Y 4/3), loose, fine SAND, some silt, moist, black staining, faint chemical odor.	
4 - 6	1.8	S3	24 / 18	2 - 3 3 - 2	Light brown, loose, fine to medium SAND, trace gravel, wet, rust bands, no sheen or odors.	
6 - 8	ND	S4	24 / 16	3 - 2 2 - 2	6" Light brown, loose, fine to medium SAND, over 10" grayish brown, fine to medium SAND, little silt wet, no sheen or odors.	
						
						

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS		Notes
0 - 4	V. Loose	<2	V. Soft	Trace	0 - 10%	
4 - 10	Loose	2 - 4	Soft	Little	10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some	20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And	35 - 50%	
>50	V. Dense	15 - 30	V. Stiff			
		>30	Hard			

# Soil Boring Report

**PROJECT**  
**New England Gas Company**  
**642 Allens Avenue**  
**Providence, Rhode Island**

Report of Boring No. VHB-8  
 Well ID: VHB-8  
 Job Number: 71274 Sheet 2 of 3

Drilling Company: Subsurface Drilling and Remediation

Boring Location: Behind gasholder

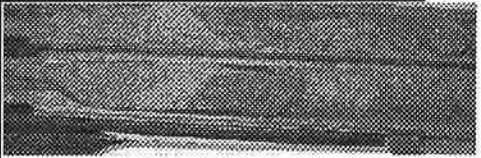
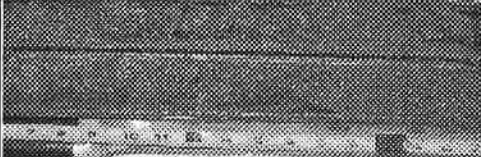

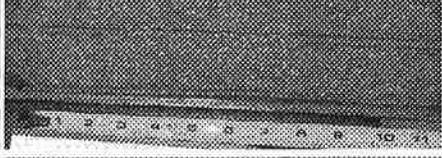

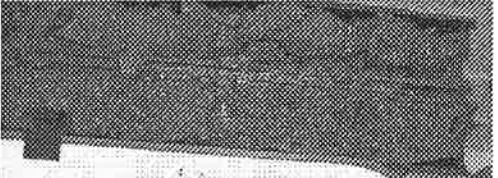
Driller: Jim Goldthwaite / Josh Downing

Elevation: NA Datum: NA

Inspector: Keith Sullivan / Adam Rosenblatt

Start Date: 1/15/2002 End Date: 1/15/2002

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2' split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Par/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
8 - 10	ND	S5	24 / 24	2 - 4 6 - 7	Grayish brown, medium dense, fine to medium SAND, little silt, wet, no sheen or odors.	
						
						
10 - 12	ND	S6	24 / 10	1 - 2 4 - 6	Light brown, loose, medium to coarse SAND, trace gravel, wet, no sheen or odors.	
						
						

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS		Notes
0 - 4	V. Loose	<2	V. Soft	Trace	0 - 10%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grainsize. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10.eV photoionization detector (PID).
4 - 10	Loose	2 - 4	Soft	Little	10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some	20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And	35 - 50%	
>50	V. Dense	15 - 30	V. Stiff			
		>30	Hard			

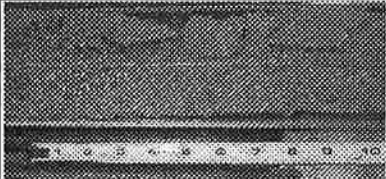
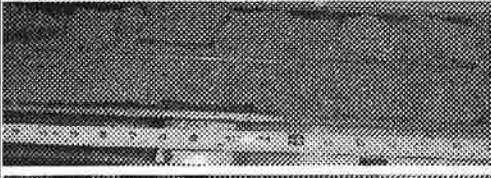

# Soil Boring Report

**PROJECT**  
 New England Gas Company  
 642 Allens Avenue  
 Providence, Rhode Island

Report of Boring No. VHB-8  
 Well ID: VHB-8  
 Job Number: 71274 Sheet 3 of 3

Drilling Company: Subsurface Drilling and Remediation Boring Location: Behind gasholder  
 Driller: Jim Goldthwaite / Josh Downing Elevation: NA Datum: NA  
 Inspector: Keith Sullivan / Adam Rosenblatt Start Date: 1/15/2002 End Date: 1/15/2002

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2" split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
12 - 14	ND	S7	24 / 10	7 - 8  11 - 8	Light brown, loose, medium to coarse SAND, trace gravel, wet, no sheen or odors.	
						
						
						Bottom of exploration 14' below grade.

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS	Notes
0 - 4	V. Loose	<2	V. Soft	Trace 0 - 10%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grainsize. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10.eV photoionization detector (PID).
4 - 10	Loose	2 - 4	Soft	Little 10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some 20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And 35 - 50%	
>50	V. Dense	15 - 30	V. Stiff		
		>30	Hard		

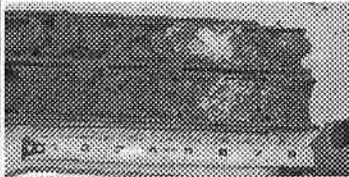
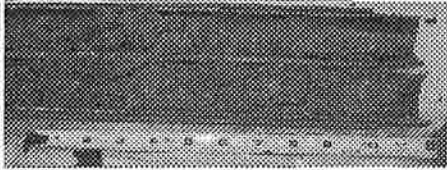

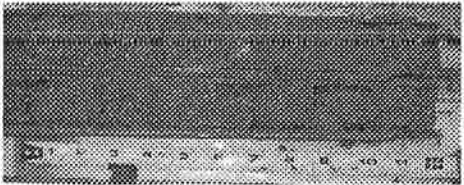
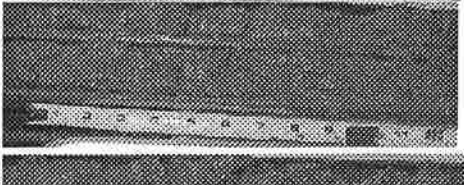
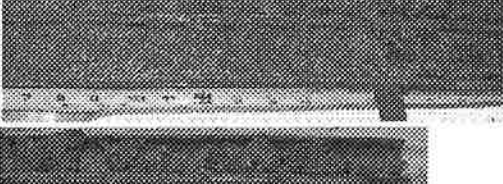

# Soil Boring Report

**PROJECT**  
**New England Gas Company**  
**642 Allens Avenue**  
**Providence, Rhode Island**

Report of Boring No. VHB-9  
 Well ID: VHB-9  
 Job Number: 71274 Sheet 1 of 2

Drilling Company: Subsurface Drilling and Remediation Boring Location: In between gas holders  
 Driller: Jim Goldthwaite / Josh Downing Elevation: NA Datum: NA  
 Inspector: Keith Sullivan / Adam Rosenblatt Start Date: 1/15/2002 End Date: 1/15/2002

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2' split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Per/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
0 - 2	ND	S1	24 / 8	2 - 8 7 - 5	Grayish brown, loose, fine SAND and silt, rock in spoon tip, moist, no sheen or odor.	
2 - 4	ND	S2	24 / 14	6 - 4 3 - 4	Grayish brown, loose fine SAND and silt, trace gravel, moist, no sheen or odor.	
4 - 6	ND	S3	24 / 12	4 - 4 3 - 3	Grayish brown, loose fine SAND and silt, trace gravel, moist no sheen or odor, wet tip.	
6 - 6 3/4	3.0	S4	24 / 16	3 - 2 2 - 4	Grayish brown, very loose medium SAND, some silt, wet, no sheen or odor.	
8 - 10	42.1	S5	24 / 22	1 - 1 1 - 5	16" Grayish brown, very loose, medium to coarse SAND, trace gravel, over 6" black, very loose SAND, wet, faint chemical odor, wet.	
						
						

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS		Notes
0 - 4	V. Loose	<2	V. Soft	Trace	0 - 10%	
4 - 10	Loose	2 - 4	Soft	Little	10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some	20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And	35 - 50%	
>50	V. Dense	15 - 30	V. Stiff			
		>30	Hard			

# Soil Boring Report

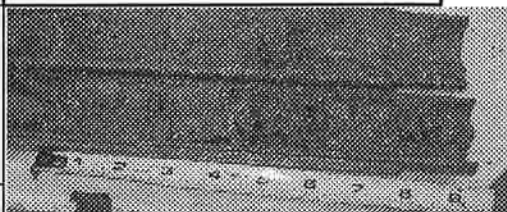
**PROJECT**  
 New England Gas Company  
 642 Allens Avenue  
 Providence, Rhode Island

Report of Boring No. VHB-9  
 Well ID: VHB-9  
 Job Number: 71274 Sheet 2 of 2

Drilling Company: Subsurface Drilling and Remediation  
 Driller: Jim Goldthwaite / Josh Downing  
 Inspector: Keith Sullivan / Adam Rosenblatt

Boring Location: In between gas holders  
 Elevation: NA Datum: NA  
 Start Date: 1/15/2002 End Date: 1/15/2002

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2' split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo	
10 - 12	41.5	S6	24 / 12	1 - 30+	12" Grayish brown, loose medium SAND and silt, over brick (possible old sewer), wet, chemical odor, and oily sheen.	 Bottom of exploration 12' below grade.	

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS		Notes
0 - 4	V. Loose	<2	V. Soft	Trace	0 - 10%	
4 - 10	Loose	2 - 4	Soft	Little	10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some	20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And	35 - 50%	
>50	V. Dense	15 - 30	V. Stiff			
		>30	Hard			

# Soil Boring Report

**PROJECT**  
 New England Gas Company  
 642 Allens Avenue  
 Providence, Rhode Island

Report of Boring No. VHB-10

Well ID: VHB-10

Job Number: 71274

Sheet 1 of 2

Drilling Company: Subsurface Drilling and Remediation

Boring Location: By Allens Avenue and Terminal Road

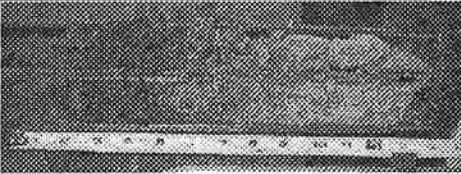
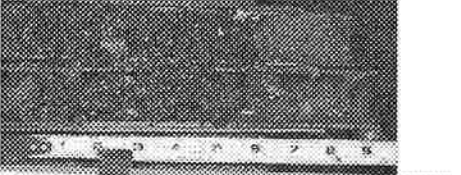

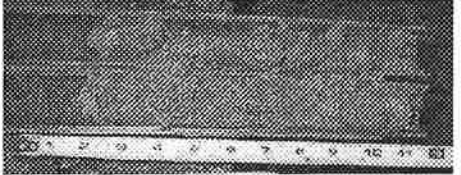

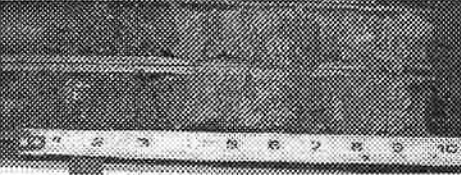

Driller: Jim Goldthwaite / Josh Downing

Elevation: NA Datum: NA

Inspector: Keith Sullivan / Adam Rosenblatt

Start Date: 1/15/2002 End Date: 1/15/2002

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2' split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
0 - 2	ND	S1	24 / 13	1 - 2 2 - 3	3" brown, very loose, medium SAND, over 4" ground asphalt, over 6" light brown, very loose SAND moist, no sheen or odor.	
2 - 4	ND	S2	24 / 9	2 - 3 6 - 10	9" ground ASPHALT, moist no sheen, asphaltic odor.	
4 - 6	ND	S3	24 / 12	4 - 6 4 - 5	Light brown, loose, medium SAND, some ground asphalt, little coal slag, moist, no sheen or odor.	
6 - 8	ND	S4	24 / 18	5 - 4 4 - 5	Light brown, loose, fine SAND, little silt, moist, no sheen or odor.	
8 - 10	58.9	S5	24 / 16	6 - 6 8 - 10	Light olive gray, medium dense, fine SAND trace silt, wet, faint chemical odor.	
10 - 12	60.4	S6	24 / 10	2 - 1 6 - 10	Light gray, loose, fine SAND, over 3" COAL SLAG layer, wet, faint chemical odor.	
12 - 14	57.4	S7	24 / 14	6 - 6 5 - 5	8" light gray, loose SILT, over 6" black COAL SLAG, wet, faint chemical odor, oily sheen.	

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS		Notes
0 - 4	V. Loose	<2	V. Soft	Trace	0 - 10%	
4 - 10	Loose	2 - 4	Soft	Little	10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some	20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And	35 - 50%	
>50	V. Dense	15 - 30	V. Stiff			
		>30	Hard			

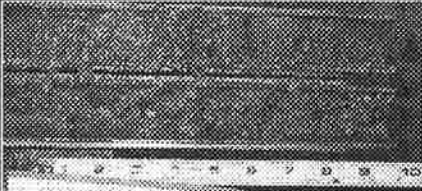
# Soil Boring Report

**PROJECT**  
 New England Gas Company  
 642 Allens Avenue  
 Providence, Rhode Island

Report of Boring No. VHB-10  
 Well ID: VHB-10  
 Job Number: 71274 Sheet 2 of 2

Drilling Company: Subsurface Drilling and Remediation Boring Location: By Allens Avenue and Terminal Road  
 Driller: Jim Goldthwaite / Josh Downing Elevation: NA Datum: NA  
 Inspector: Keith Sullivan / Adam Rosenblatt Start Date: 1/15/2002 End Date: 1/15/2002

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2' split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
15 - 17	57.4	S8	24 / 10	6 - 3 4 - 2	Gray to black, loose SAND, some coal slag, little silt, faint chemical odor, oily sheen.	 <p>Bottom of exploration 17' below grade.</p>

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS		Notes
0 - 4	V. Loose	<2	V. Soft	Trace	0 - 10%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grainsize. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10.eV photoionization detector (PID).
4 - 10	Loose	2 - 4	Soft	Little	10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some	20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And	35 - 50%	
>50	V. Dense	15 - 30	V. Stiff			
		>30	Hard			



# Soil Boring Report

**PROJECT**  
 New England Gas Company  
 642 Allens Avenue  
 Providence, Rhode Island

Report of Boring No. VHB-11

Well ID: VHB-11

Job Number: 71274 Sheet 1 of 2

Drilling Company: Subsurface Drilling and Remediation

Boring Location: Entrance to cement plant

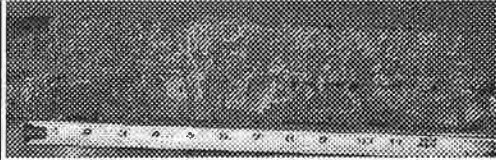

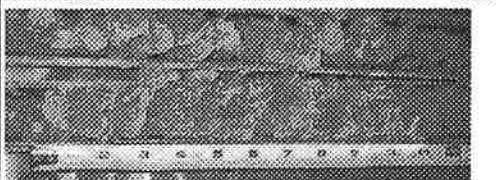
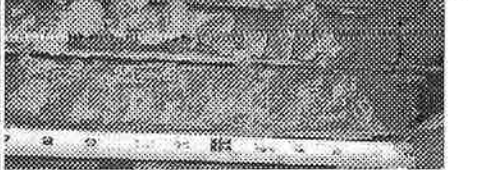
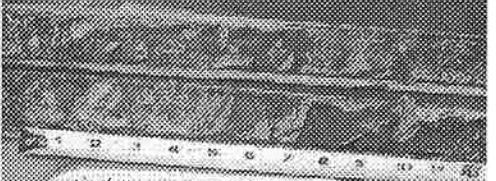
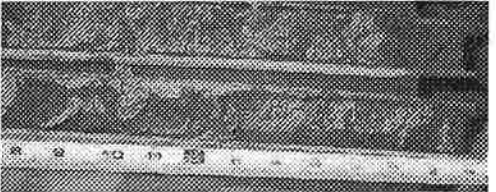

Driller: Jim Goldthwaite / Josh Downing

Elevation: NA Datum: NA

Inspector: Keith Sullivan / Adam Rosenblatt

Start Date: 1/16/2002 End Date: 1/16/2002

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2' split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
0 - 2	ND	S1	24 / 16	1 - 3 5 - 9	Light brown, loose, fine SAND some silt, moist, no sheen or odors.	
						
2 - 4	ND	S2	24 / 18	8 - 12 12 - 13	Light brown, medium dense, fine SAND, some silt, moist, no sheen or odors.	
						
4 - 6	ND	S3	24 / 19	9 - 10 12 - 15	Light brown, medium dense, fine SAND, some silt, wet @ 5', no sheen or odors.	
						
						

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS		Notes
0 - 4	V. Loose	<2	V. Soft	Trace	0 - 10%	
4 - 10	Loose	2 - 4	Soft	Little	10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some	20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And	35 - 50%	
>50	V. Dense	15 - 30	V. Stiff			
		>30	Hard			

# Soil Boring Report

**PROJECT**  
**New England Gas Company**  
**642 Allens Avenue**  
**Providence, Rhode Island**

Report of Boring No. **VHB-11**

Well ID: **VHB-11**

Job Number: **71274**

Sheet 2 of 2

Drilling Company: **Subsurface Drilling and Remediation**

Boring Location: **Entrance to cement plant**

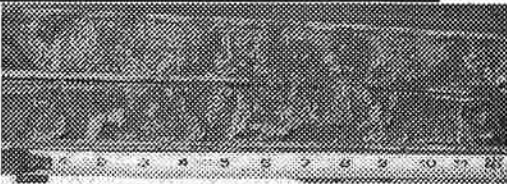
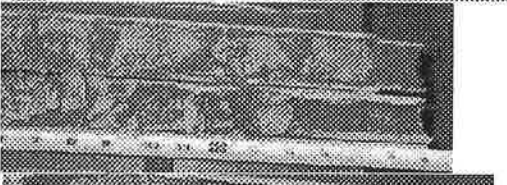
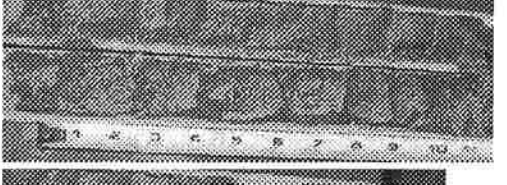

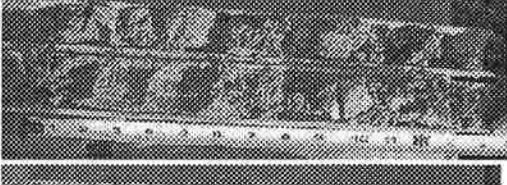

Driller: **Jim Goldthwaite / Josh Downing**

Elevation: **NA** Datum: **NA**

Inspector: **Keith Sullivan / Adam Rosenblatt**

Start Date: **1/16/2002** End Date: **1/16/2002**

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2" split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
6 - 8	ND	S4	24 / 18	15 - 15 15 - 15	Light brown, dense, fine SAND, some silt, wet, no sheen or odors.	
						
8 - 10	ND	S5	24 / 17	15 - 15 17 - 22	Light brown, dense, fine SAND, some silt, wet, no sheen or odors.	
						
10 - 12	ND	S6	24 / 14	8 - 17 23 - 21	Light brown, dense, fine SAND, some silt, wet, no sheen or odors.	
12 - 14	ND	S7	24 / 16	21 - 25 17 - 15	Light brown, dense, fine SAND, some silt, little gravel, trace root matter, wet, no sheen or odors.	
						Bottom of exploration 14' below grade.

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS	Notes
0 - 4	V. Loose	<2	V. Soft	Trace 0 - 10%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grainsize. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10.eV photoionization detector (PID).
4 - 10	Loose	2 - 4	Soft	Little 10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some 20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And 35 - 50%	
>50	V. Dense	15 - 30	V. Stiff		
		>30	Hard		

# Soil Boring Report

**PROJECT**  
 New England Gas Company  
 642 Allens Avenue  
 Providence, Rhode Island

Report of Boring No. **VHB-12**

Well ID: **VHB-12**

Job Number: **71274**

Sheet 1 of 2

Drilling Company: **Subsurface Drilling and Remediation**

Boring Location: **Cement plant, by water**

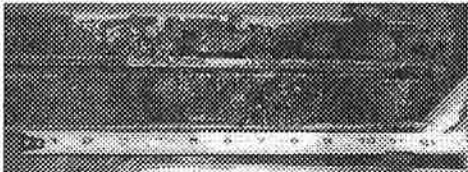
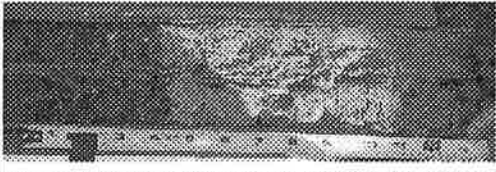


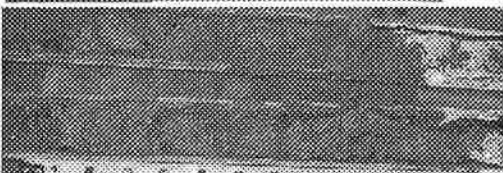
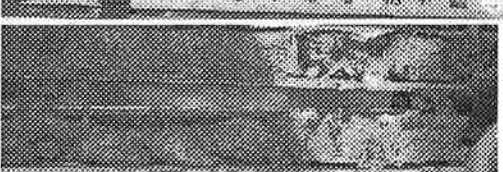
Driller: **Jim Goldthwaite / Josh Downing**

Elevation: **NA** Datum: **NA**

Inspector: **Keith Sullivan / Adam Rosenblatt**

Start Date: **1/16/2002** End Date: **1/16/2002**

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2' split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
0 - 2	ND	S1	24 / 12	4 - 4 5 - 7	Black, loose COAL SLAG and coal fragments, trace brick and rock fragments, moist, no sheen or odor.	
2 - 4	ND	S2	24 / 13	5 - 6 6 - 6	4" black, medium dense COAL SLAG, over 9" light brown, medium dense fine sand, trace silt, moist, no sheen or odor.	
4 - 6	1.8	S3	24 / 15	4 - 3 3 - 4	Light brown, loose, fine SAND, trace silt, trace pebbles, wet, no sheen or odors.	
						
6 - 8	ND	S4	24 / 21	2 - 2 2 - 5	Light brown, loose, fine SAND, trace silt, trace pebbles, wet, rust bands, no sheen or odors.	
						

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS	Notes
0 - 4	V. Loose	<2	V. Soft	Trace	1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10.eV photoionization detector (PID).
4 - 10	Loose	2 - 4	Soft	Little	
10 - 30	M. Dense	4 - 8	M. Stiff	Some	
30 - 50	Dense	8 - 15	Stiff	And	
>50	V. Dense	15 - 30	V. Stiff		
		>30	Hard		

# Soil Boring Report

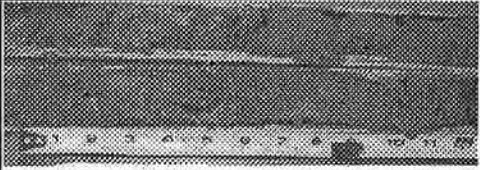
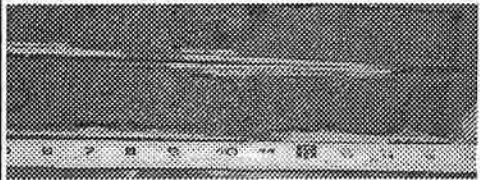
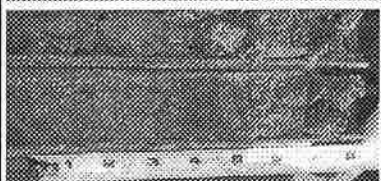
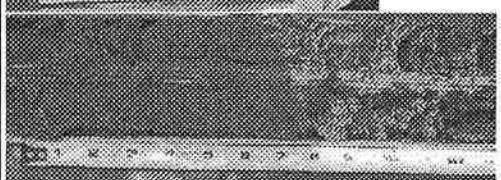
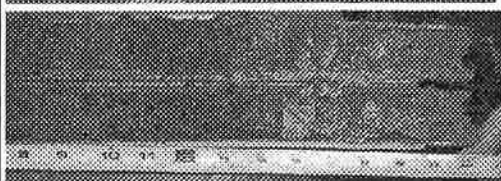
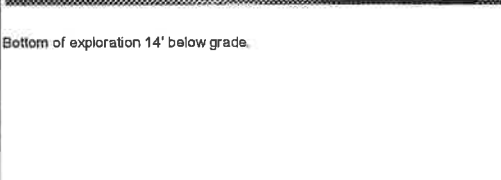

**PROJECT**  
 New England Gas Company  
 642 Allens Avenue  
 Providence, Rhode Island

Report of Boring No. VHB-12  
 Well ID: VHB-12  
 Job Number: 71274 Sheet 2 of 2

Drilling Company: Subsurface Drilling and Remediation  
 Driller: Jim Goldthwaite / Josh Downing  
 Inspector: Keith Sullivan / Adam Rosenblatt

Boring Location: Cement plant, by water  
 Elevation: NA Datum: NA  
 Start Date: 1/16/2002 End Date: 1/16/2002

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2' split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
8 - 10	ND	S5	24 / 15	2 - 3	Light brown, loose, fine SAND, over 4" rusty coarse SAND, wet, no sheen or odor.	
				3 - 5		
						
10 - 12	ND	S6	24 / 8	5 - 6	4" light brown, medium dense, fine SAND, over 4" rusty brown, coarse SAND, wet, no sheen or odor.	
				9 - 12		
12 - 14	ND	S7	24 / 20	24 - 18	15" Rusty brown, medium dense, coarse SAND, over light brown, medium dense, fine SAND, and pebbles, wet, no sheen or odor.	
				10 - 8		
						
						
						

Bottom of exploration 14' below grade.

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS		Notes
0 - 4	V. Loose	<2	V. Soft	Trace	0 - 10%	
4 - 10	Loose	2 - 4	Soft	Little	10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some	20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And	35 - 50%	
>50	V. Dense	15 - 30	V. Stiff			
		>30	Hard			

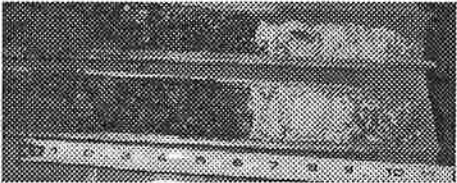
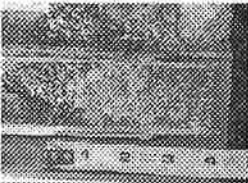
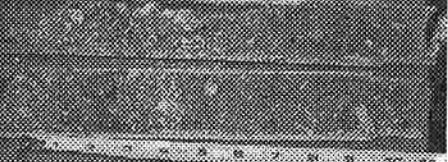
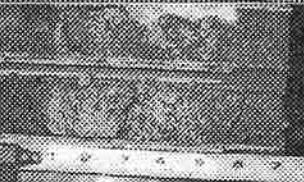

# Soil Boring Report

**PROJECT**  
**New England Gas Company**  
**642 Allens Avenue**  
**Providence, Rhode Island**

Report of Boring No. VHB-13  
 Well ID: VHB-13  
 Job Number: 71274 Sheet 1 of 1

Drilling Company: Subsurface Drilling and Remediation Boring Location: Cement plant, by cement silos  
 Driller: Jim Goldthwaite / Josh Downing Elevation: NA Datum: NA  
 Inspector: Keith Sullivan / Adam Rosenblatt Start Date: 1/16/2002 End Date: 1/16/2002

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2' split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
0 - 2	ND	S1	NA	NA	Post hole digger to 3', look for water line. 3' to 4' - dark brown, sand, silt and gravel, moist no sheen or odors. 4' to 5' Gray to black, dense rotten rock and coal slag, dry, no sheen or odors.	
2 - 4	ND	S2	NA	NA	Post hole digger to 3', look for water line. 3' to 4' - dark brown, sand, silt and gravel, moist no sheen or odors. 4' to 5' Gray to black, dense rotten rock and coal slag, dry, no sheen or odors.	
4 - 6	ND	S3	24 / 11	2 - 6 9 - 13	Gray, medium dense ROCK FRAGMENTS, some silt, dry, no sheen or odor.	
6 - 8	ND	S4	24 / 4	10 - 10 10 - 13	Brown to gray, medium dense, SAND, some silt, little gravel, trace coal slag, dry, no sheen or odors.	
8 - 10	ND	S5	24 / 11	8 - 6 4 - 7	Brown to gray, loose, SAND and silt, little gravel, trace coal slag, wet at 12', no sheen or odors.	
10 - 12	ND	S6	24 / 7	7 - 6 11 - 10	Brown to gray, medium dense, SILT, some sand, trace gravel, wet, no sheen or odors.	
12 - 14	ND	S7	24 / 10	11 - 8 12 - 16	Brown to gray, medium dense, SILT, some sand, trace gravel, wet, no sheen or odors.	

Bottom of exploration 14' below grade.

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS	Notes
0 - 4	V. Loose	<2	V. Soft	Trace 0 - 10%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10.eV photoionization detector (PID).
4 - 10	Loose	2 - 4	Soft	Little 10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some 20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And 35 - 50%	
>50	V. Dense	15 - 30	V. Stiff		
		>30	Hard		

# Soil Boring Report

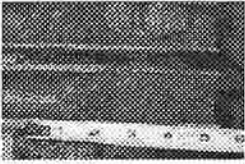
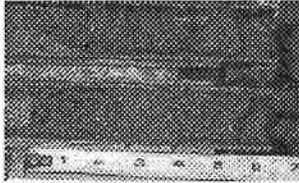
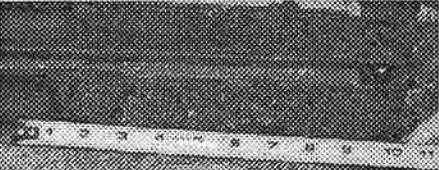
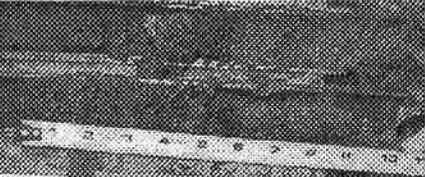
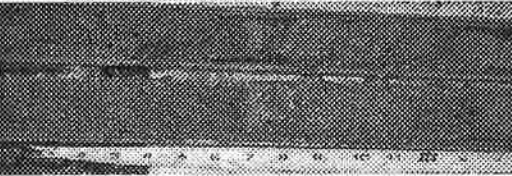
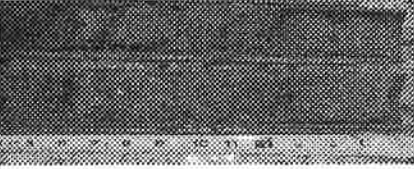
**PROJECT**  
**New England Gas Company**  
**642 Allens Avenue**  
**Providence, Rhode Island**

Report of Boring No. VHB-14  
 Well ID: NA  
 Job Number: 71274 Sheet 1 of 1

Drilling Company: Subsurface Drilling and Remediation  
 Driller: Jim Goldthwaite / Josh Downing  
 Inspector: Keith Sullivan / Adam Rosenblatt

Boring Location: West of Office, along Allens Ave.  
 Elevation: NA Datum: NA  
 Start Date: 1/17/2002 End Date: 1/17/2002

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2" split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
0 - 5	ND	S1	NA	NA	Auger cuttings - Loose, dark brown, medium SAND and silt, trace coal slag, moist.	
5 - 7	ND	S7	24 / 5	1 - 1 1 - 1	Brown to black, very loose SAND and silt, some coal slag, trace gravel, moist, no sheen or odor.	
7 - 9	1.8	S3	24 / 6	1 - 4 5 - 1	Black, loose COAL SLAG and rock fragments, trace brick, wet, no sheen or odor.	
9 - 11	1.8	S4	24 / 10	1 - 3 3 - 4	Gray to black, loose, medium to coarse SAND, trace brick, no sheen or odors.	
10 - 12	1.8	S5	24 / 6	1 - 4 5 - 1	7" gray to black, loose, medium to coarse SAND over 7" light grayish brown medium SAND trace gravel, wet no sheen or odor.	
12 - 14	1.2	S6	24 / 16	3 - 3 4 - 5	Light gray, loose, medium to coarse SAND, trace gravel, wet no sheen or odor.	
						

Bottom of exploration 14' below grade.

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS	Notes
0 - 4	V. Loose	<2	V. Soft	Trace 0 - 10%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grainsize. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10.eV photoionization detector (PID).
4 - 10	Loose	2 - 4	Soft	Little 10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some 20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And 35 - 50%	
>50	V. Dense	15 - 30	V. Stiff		
		>30	Hard		

# Soil Boring Report

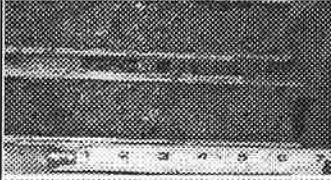
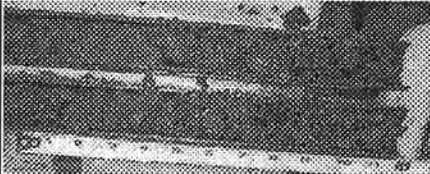
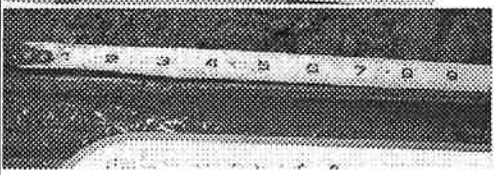
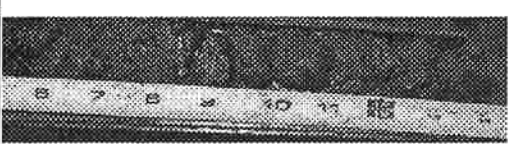
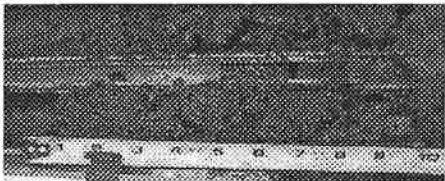
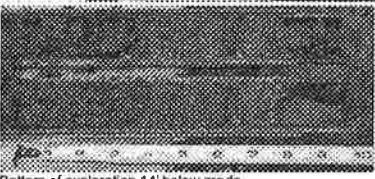
**PROJECT**  
**New England Gas Company**  
**642 Allens Avenue**  
**Providence, Rhode Island**

Report of Boring No. **VHB-15**  
 Well ID: **NA**  
 Job Number: **71274** Sheet 1 of 1

Drilling Company: **Subsurface Drilling and Remediation**  
 Driller: **Jim Goldthwaite / Josh Downing**  
 Inspector: **Keith Sullivan / Adam Rosenblatt**

Boring Location: **Out front, north of VHB 14**  
 Elevation: **NA** Datum: **NA**  
 Start Date: **1/17/2002** End Date: **1/17/2002**

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2' split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
0 - 5	ND	S1	NA	NA	Auger cuttings - Loose, dark brown, medium SAND and silt, trace coal slag, moist.	
5 - 7	ND	S7	24 / 6	2 - 1 2 - 1	Rusty brown to black, very loose, COAL fragments, moist, no sheen or odor.	
7 - 9	ND	S3	24 / 12	1 - 2 3 - 3	Black, loose, medium SAND, some silt, little gravel, trace wood, wet, gray staining, moderate chemical odor.	
9 - 11	3.0	S4	24 / 8	2 - 3 3 - 5	Black, loose, GRAVEL, some silt and medium sand, wet, faint sheen, faint unrecognizable odor.	
						
10 - 12	3.0	S5	24 / 10	7 - 5 3 - 3	Black, loose, GRAVEL, some silt, some medium sand, wet, faint chemical odor, coal tar sheen.	
12 - 14	5.5	S6	24 / 10	2 - 2 4 - 9	2" black, loose, GRAVEL, some silt, over 8" black, loose, medium sand, wet, faint chemical odor, coal tar sheen.	

Bottom of exploration 14' below grade.

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS		Notes
0 - 4	V. Loose	<2	V. Soft	Trace	0 - 10%	
4 - 10	Loose	2 - 4	Soft	Little	10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some	20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And	35 - 50%	
>50	V. Dense	15 - 30	V. Stiff			
		>30	Hard			

# Soil Boring Report

**PROJECT**  
 New England Gas Company  
 642 Allens Avenue  
 Providence, Rhode Island

Report of Boring No. VHB-16

Well ID: NA

Job Number: 71274 Sheet 1 of 1

Drilling Company: Subsurface Drilling and Remediation

Boring Location: Southeast corner by VHB-7


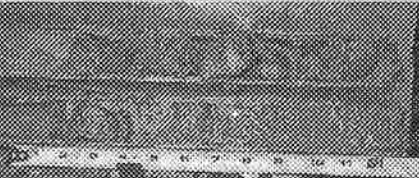
Driller: Jim Goldthwaite / Josh Downing

Elevation: NA Datum: NA

Inspector: Keith Sullivan / Adam Rosenblatt

Start Date: 1/17/2002 End Date: 1/17/2002

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2" split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
0 - 5	ND	S1	NA	NA	Auger cuttings - Light brown, loose, fine SAND, trace silt, trace gravel, moist, no sheen or odors.	
5 - 10	ND	S2	NA	NA	Auger cuttings - Light brown, fine SAND, trace silt, trace gravel, moist, no sheen or odor.	
10 - 12	ND	S3	24 / 10	3 - 7 10 - 6	Light brown, medium dense, fine SAND, trace silt, wet, no sheen or odor.	
12 - 14	ND	S4	24 / 13	5 - 9 8 - 10	Light brown, medium dense, fine SAND, little silt, wet, no sheen or odor.	
						Bottom of exploration 14' below grade.

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS		Notes
0 - 4	V. Loose	<2	V. Soft	Trace	0 - 10%	
4 - 10	Loose	2 - 4	Soft	Little	10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some	20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And	35 - 50%	
>50	V. Dense	15 - 30	V. Stiff			
		>30	Hard			



# Soil Boring Report

**PROJECT**  
 New England Gas Company  
 642 Allens Avenue  
 Providence, Rhode Island

Report of Boring No. **VHB-17**

Well ID: **NA**

Job Number: **71274** Sheet 1 of 1

Drilling Company: **Subsurface Drilling and Remediation**

Boring Location: **SW corner, by fence near RCA 14**


Driller: **Jim Goldthwaite / Josh Downing**

Elevation: **NA** Datum: **NA**

Inspector: **Keith Sullivan / Adam Rosenblatt**

Start Date: **1/17/2002** End Date: **1/17/2002**

The borings were drilled by hollow-stem auger. Unless otherwise noted, the soil samples were collected using a 2' split-spoon driven with a 140-lb. hammer falling 30".

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/6"	SAMPLE DESCRIPTION	Boring Photo
0 - 5	ND	S1	NA	NA	Auger cuttings - Light brown, loose, fine to coarse SAND, trace gravel, moist, no sheen or odor.	 <p>Bottom of exploration 6' below grade.</p>
5 - 6	118	S2	NA	NA	Auger cuttings - Light gray, fine SAND, trace silt, trace gravel, moist to wet, very strong chemical odor.	

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS		Notes
0 - 4	V. Loose	<2	V. Soft	Trace	0 - 10%	
4 - 10	Loose	2 - 4	Soft	Little	10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some	20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And	35 - 50%	
>50	V. Dense	15 - 30	V. Stiff			
		>30	Hard			

# Soil Boring Report

## PROJECT

New England Gas Company  
Providence, Rhode Island

Avenue

642 Allens

Report of Boring No. B-1

Well ID: VHB-18

Job Number: 71274

South-central portion of Site

Job Number: NA

Elevation: NA

Datum: NA

End Date: 1/21/2003

Drilling Company: NE Geotech

Driller: Claude Masse / Chris Mazzolini

Inspector:

The borings were advanced by vibratory direct push technology using a Geoprobe System.

Depth (ft)	PID Reading	Sample No.	Pen/Blc (ft)	Blowft	SAMPLE DESCRIPTION	Boring Photo
0 - 4	6,364	S-1	4 / 3.5	NA	Approx. 1.5 feet of Tan /fm sand and gravel, redoximorphic concentrations, dry over approx. 0.5 feet of dark brown tan sand and silt and gravel over 0.5 feet of drak gray /fm sand and silt, redoximorphic concentrations, strong odor (PID 2,775 ppm), dry, over approx. 0.25 feet of black /fm sand and silt, wood chips, strong odor (PID 6,364 ppm).	
4 - 8	1,001	S-2	4 / 4	NA	Approx. 0.25 feet of brown/black /fm sand and silt, black fragments, moist over approx. 0.75 feet of black/dark green line sand, little silt, concrete fragment, odor (PID 1,001 ppm) over approx. 0.5 feet of black /fm sand with silt, black-stained wood chips, odor over approx. 0.5 feet of gray, /fm sand, some gravel, redoximorphic concentrations, odor (PID 407 ppm) over approx. 0.75 feet of tan c sand, little black staining, odor, wet.	
8 - 12	66.2	S-3	4 / 4	NA	Approx. 2.5 feet of brown /c sand and gravel, wet, odor (PID 66.2 ppm) over approx. 1.5 feet of white/tan c sand, redoximorphic concentrations, no odor (PID 9.3)	
12 - 16		S-4	4 / 4	NA	White/tan c sand, redoximorphic concentrations, no odor	
						No Photo Available.
						Bottom of exploration 15' below grade.

GRAVIMETRIC DENSITY	COHESIVE SOILS BLOWFT DENSITY	PRECIPITATION	Notes
0 - 4 4 - 10 10 - 30 30 - 50 50	<2 2-4 4-15 15-30 30	Trace 10 - 20% 20 - 35% 35 - 50%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 560B 10.eV photoionization detector (PID).

# Soil Boring Report

## PROJECT

New England Gas Company  
Providence, Rhode Island

Avenue

642 Allens

Report of Boring No. B-2

Well ID: NA

Sheet 1 of 1

Job Number: 71274

Boring Location: South-central portion of Site

Datum: NA

End Date: 1/21/2003

Elevation: NA


Start Date: 1/21/2003

Drilling Company: NE Geotech

Driller: Claude Masse / Chris Mazzolini

Inspector: Claude Masse / Chris Mazzolini

The borings were advanced by vibratory direct push technology using a Geoprobe System.

Depth (ft)	PID Reading	Sample No.	Pen/Blow	Blows*	SAMPLE DESCRIPTION	Boring Photo
0 - 4	133	S-1	4 / 4	NA	Approx. 1 foot of white/tan f/c sand, frozen, over approx. 1.5 feet of dark green f/m sand and gravel, some reddish/brown concentrations, some blue staining over approx. 0.5 feet of f/m sand with distinct reddish/brown concentrations, concrete chips over approx. 0.5 feet of gray/blue-stained f/m sand, moist, odor (PID 133 ppm) over wood fragments. Refusal at 4 ft. BSG.	

Section of exploration 4' below grade

GRANULAR SOILS BLOWS/FT DENSITY	COHESIVE SOILS BLOWS/FT DENSITY	PROPORTIONS	Notes
0 - 4 V. Loose	<2 V. Soft	Trace	1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual.
4 - 10 Loose	2 - 4 Soft	10 - 20% Little	2) Bedrock was not encountered.
10 - 30 M. Dense	4 - 8 M. Stiff	20 - 35% Some	3) Water levels may fluctuate due to ocean tides, season, and precipitation rates.
30 - 50 Dense	8 - 15 Stiff	35 - 50% And	4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 560B 10 eV photoionization detector (PID).
>50 V. Dense	15 - 30 V. Stiff		
	>30 Hard		

<b>Soil Boring Report</b>		PROJECT	New England Gas Company Providence, Rhode Island	642 Allens Avenue	Report of Boring No. B-2B Well ID: NA Job Number: 71274 Sheet 1 of 1
Drilling Company: NE Geotech		Boring Location: Approx. 6 inches north of B-2			
Driver:		Elevation: NA			Datum: NA
Inspector: Claude Masse / Chris Mazzolini		Start Date: 1/21/2003			End Date: 1/21/2003

The borings were advanced by vibratory direct push technology using a Geoprobe System.

Depth (ft)	PID Reading	Sample No.	Pen/Roc	Blows/ft	SAMPLE DESCRIPTION	Boring Photo
0 - 4		S-1	4 / 4	NA	Approx. 1 foot of white/tan f/m sand, frozen, over approx. 1.5 feet of dark green f/m sand and gravel, some redoximorphic concentrations, some blue staining over approx. 0.5 feet of f/m sand with distinct redoximorphic concentrations, concrete chips over approx. 0.5 feet of gray/blue-stained f/m sand, moist, odor (PID 133 ppm) over wood fragments. Refusal at 4 ft. BSG.	No Photo Available.
						Bottom of exploration 4' below grade.

GRANULAR SOILS BLOWS/FT DENSITY	COHESIVE SOILS BLOWS/FT DENSITY	PROPORTIONS	Notes
0 - 4 V Loose	< 2	Trace 0 - 10%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grainsize. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10 eV photoionization detector (PID).
4 - 10 Loose	2 - 4	Little 10 - 20%	
10 - 30 M Dense	4 - 8	Some 20 - 35%	
30 - 50 Dense	8 - 15	And 35 - 50%	
> 50 V. Dense	15 - 30		
	> 30	Hard	



# Soil Boring Report





**Drilling Company:** NE Geotech  
**Driller:** Claude Masse / Chris Mazzolini  
**Inspector:**

**PROJECT:** New England Gas Company  
**Avenue:** Providence, Rhode Island  
**642 Allens**

**Report of Boring No.:** B-2D  
**Well ID:** NA  
**Job Number:** 71274  
**Sheet 1 of 1**

**Boring Location:** Approx. 20 feet northwest of B-2  
**Elevation:** NA  
**Datum:** NA  
**Start Date:** 12/1/2003  
**End Date:** 12/1/2003

The borings were advanced by vibratory direct push technology using a Geoprobe System.

Depth (ft)	PID Reading	Sample No.	Prev/Rec Blows/ft	PIV	Sample Description	Boring Photo
0 - 4	ND	S-1	4 / 4	NA	Approx. 1 foot of white sand, some gravel over 3 feet of tan/brown/orange f/m sand, gravel, no odor.	No Photo Available.
4 - 8	1,317	S-2	4 / 4	NA	Approx. 1 foot of tan/orange mic sand with silt and gravel over approx. 1 foot of gray/black/green f/m sand, sheeting, odor (PID 1,317 ppm), over approx. 2 feet of orange mic sand with silt, gravel, odor, moist to wet.	
8 - 12	17	S-3	4 / 3.5	NA	Approx. 1 foot of ft. Gray mic sand, gravel, wet, no odor over approx. 1.5 feet of orange, mic sand, gravel, wet, no odor (PID 17 ppm).	
						
						
						Bottom of exploration 12' below grade.

GRANULAR SOILS BLOWS/FT	COHESIVE SOILS BLOWS/FT DENSITY	PIGMENTS	Notes
0 - 4 V. Loose	<2 V. Soft	Trace	1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual.
4 - 10 Loose	2 - 4 Soft	10 - 20%	2) Bedrock was not encountered.
10 - 30 M. Dense	4 - 6 Stiff	20 - 35%	3) Water levels may fluctuate due to ocean tides, season, and precipitation rates.
30 - 50 V. Dense	15 - 15 V. Stiff	35 - 50%	4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10 eV photoionization detector (PID).
>50 V. Dense	>30 Hard		

# Soil Boring Report

## PROJECT

New England Gas Company  
Providence, Rhode Island

642 Allens

Report of Boring No. B-3  
Well ID: NA

Job Number: 71274

Sheet 1 of 1

Drilling Company: NE Geotech

Inspector: Claude Masse / Chris Mazzolini

The borings were advanced by vibratory direct push technology using a Geoprobe System.





Boring Location: South-central portion of the Site

Elevation: NA

Datum: NA

Start Date: 1/21/2003

End Date: 1/21/2003


Depth (ft)	PID Reading	Sample No.	Penetration Blows/ft	Remarks	SAMPLE DESCRIPTION	Boring Photo
0 - 4	15	S-1	4 / 4	NA	Approx. 1.25 feet of dark brown / tan sand and silt, gravel, no odor over approx. 2.25 feet of ft. Gray / tan sand with trace of green staining and yellow redoximorphic concentrations; woodchips at 2 ft. bsg, and gravel.	
4 - 8		S-2	4 / 2	NA	Approx. 1 foot of c sand and gravel with yellow redoximorphic concentrations, moist, over approx. 1 foot of orange c sand and gravel, wet.	
8 - 12		S-3	4 / 3	NA	Approx. 1 foot of brown/dark brown / tan sand and gravel, wet over approx. 3 feet of brown / c sand and gravel, wet.	
						

GRAINULAR SOILS BLOWS/FT	COMESIVE SOILS BLOWS/FT DENSITY	PROPERTIES	REMARKS
0 - 4 V Loose 4 - 10 M Dense 10 - 30 V Dense 30 - 50 250	< 3 2 - 4 4 - 8 8 - 15 15 - 30 > 30 Hard	V Soft Soft M Stiff Stiff V Stiff Hard	1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10.eV photoionization detector (PID).

# Soil Boring Report

Drilling Company: NE Geotech  
 Driller: Claude Masse / Chris Mazzolini  
 Inspector:

The borings were advanced by vibratory direct push technology using a Geoprobe System.

Depth (ft)	PID Reading	Sample No.	Pen/Rate	Blows*	SAMPLE DESCRIPTION	Boring Photo
0 - 4	3.6	S-1	4 / 4	NA	Approx. 1 foot of dark gray / tan sand and silt, redoximorphic concentrations, woodchips at 1 foot bsg, over approx. 0.5 feet of ft. Tan f sand and silt, some blue/green staining over approx. 0.5 feet of ft. Tan v sand and silt over approx. 1 foot of tan mic sand and gravel over approx. 1 foot of brown/tan v sand and silt, no odor.	
4 - 8	4.3	S-2	4 / 4	NA	brown/tan v sand and silt, no odor, wet 7-8 ft. bsg.	No Photo Available.
8 - 12		S-3	4 / 0.5	NA	brown/tan v sand and silt, no odor, wet 7-8 ft. bsg.	No Photo Available.
						Medium of exploration 12' below grade.

GRANULAR SOILS BLOWS/FT DENSITY	COHESIVE SOILS BLOWS/FT DENSITY	PROPORTIONS	Notes
0 - 4 V. Loose 4 - 10 Loose 10 - 30 M. Dense 30 - 50 Dense >50 V. Dense	<2 V. Soft 2 - 4 Soil 4 - 8 M. Silt 8 - 15 Silt 15 - 30 V. Silt >30 Hard	Trace 0 - 10% Little 10 - 20% Some 20 - 35% And 35 - 50%	Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual. Bedrock was not encountered. Water levels may fluctuate due to ocean tides, season, and precipitation rates. All soil samples were screened in the field for VOCs using a Thermo Environmental Instruments model 580B 10.eV photoionization detector (PID).



<b>Soil Boring Report</b>		PROJECT	Avenue	New England Gas Company Providence, Rhode Island	642 Athens	Report of Boring No. B-5
Drilling Company: NE Geotech		Boring Location: South-central portion of the Site			Well ID: NA	
Driller:		Elevation: NA			Datum: NA	
Inspector: Claude Masse / Chris Mazzolini		Start Date: 1/22/2003			End Date: 1/22/2003	
		Job Number: 71274			Sheet 1 of 1	

The borings were advanced by vibratory direct push technology using a Geoprobe System.

Depth (ft)	PID Reading	Sample No.	Pen/Roc	Blows/ft	SAMPLE DESCRIPTION	Boring Photo
0 - 4	100	S-1	4 / 4	NA	Approx. 2 feet of brown m/c sand, some silt, brick, trace blue staining at 1.25 ft. bsg. Over approx. 1.5 feet of ft. Brown/tan /m sand, some silt, trace blue staining and trace gravel over approx. 0.5 feet of black f sand and silt, odor (PID 100 ppm).	No Photo Available.
4 - 8	8.0	S-2	4 / 4	NA	Approx. 3.5 feet of black f sand and silt, some gravel, odor, moist over approx. 0.5 feet of gray f sand with silt, odor, wet (PID 6 ppm)	No Photo Available.
8 - 11	20	S-3	3 / 0.5	NA	Approx. 1 foot of black v/s sand, silt, wet over approx. 1 foot of dark gray m/c sand, odor, wet over approx. 1 foot of grey f/c sand, trace gravel, wet (PID 20 ppm) over approx. 1 foot of dark gray, m/c sand, some silt, gravel, wet.	No Photo Available.
11 - 15	2.9	S-4	4 / 1	NA	Approx. 1 foot of brown f/c sand with silt and gravel, wet.	No Photo Available.
						Bottom of exploration 15' below grade

GRANULAR SOILS BLOW/FT DENSITY	COHESIVE SOILS BLOW/FT DENSITY	PROPORTIONS	Notes
0-4 V. Loose	<2 V. Soft	Trace 0-10%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10 eV photoionization detector (PID).
4-10 Loose	2-4 Soft	Little 10-20%	
10-30 M. Dense	4-8 M. Stiff	Some 20-35%	
30-50 Dense	8-15 Stiff	And 35-50%	
>50 V. Dense	15-30 V. Stiff		
	>30 Hard		

<b>Soil Boring Report</b>		PROJECT		New England Gas Company Providence, Rhode Island		642 Allens		Report of Boring No: B-6	
		Avenue						Well ID: VHB-20	
Drilling Company: NE Geotech				Boring Location: South-central portion of the Site		Job Number: 71274		Sheet 1 of 1	
Driller:				Elevation: NA		Datum: NA			
Inspector: Claude Messer / Chris Mazzolini				Start Date: 1/22/2003		End Date: 1/22/2003			

The borings were advanced by vibratory direct push technology using a Geoprobe System.

Depth (ft)	PID Reading	Sample No	Pen/Rat	Blows/5"	SAMPLE DESCRIPTION	Boring Photo
0 - 4	101.2	S-1	4 / 4	NA	Approx. 2 feet of brown m/c sand, some silt, brick, trace blue staining of approx. 1.5 feet of it. Brown/gray fm sand, some silt, trace blue staining and trace gravel over approx. 0.5 feet of black f sand and silt, strong odor (PID 101.2 ppm)	No Photo Available.
4 - 8		S-2	4 / 4	NA	Approx. 1.25 feet of it. Brown/gray fm sand, gravel, moist over approx. 0.25 feet of black f sand, silt, redoxamorphic concentrations, moist over approx. 1.5 feet of gray fm sand, gravel, wet, odor.	No Photo Available.
8 - 11	22.2	S-3	3 / 0.5	NA	Approx. 2.25 feet of gray f sand and silt, gravel, trace black staining, wet, odor, over approx. 0.75 feet of gray/black f/c sand, gravel, wet, odor.	No Photo Available.
11 - 14	114	S-4	3 / 3	NA	Approx. 1.5 feet of black f sand, silt, gravel, wet. Odor over approx. 0.5 feet of gray/black c sand, some silt, gravel, wet, over approx. 1 foot of gray f/c sand and gravel, odor (PID 114 ppm), wet.	No Photo Available.
						Bottom of exploration 14" below grade.

GRANULAR SOILS BLOWS/FT DENSITY		COHESIVE SOILS BLOWS/FT DENSITY		PROPORTIONS		Notes
0 - 4	V Loose	<2	V Soft	Trace	0 - 10%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grainsize. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10.eV photoionization detector (PID).
4 - 10	Loose	2 - 4	Soft	Little	10 - 20%	
10 - 30	M Dense	4 - 8	M Stiff	Some	20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And	35 - 50%	
>50	V Dense	15 - 30	V Stiff			
		>30	Hard			

# Soil Boring Report

<b>PROJECT</b>	New England Gas Company Providence, Rhode Island	642 Aliens Avenue	Report of Boring No. B-7 Well ID: NA Job Number: 71274 Sheet 1 of 1
Drilling Company: NE Geotech	Boring Location: South-central portion of the Site		Elevation: NA Datum: NA
Driller:	Inspector: Claude Masse / Chris Mazzolini		Start Date: 1/22/2003 End Date: 1/22/2003

The borings were advanced by vibratory direct push technology using a Geoprobe System.

Depth (ft)	PID Reading	Sample No.	Pen/Rec	Blows/ft	SAMPLE DESCRIPTION	Boring Photo
0 - 4	405	S-1	4 / 4	NA	Approx. 1 foot of tan l/m sand with green staining, gravel over approx. 2 feet of brown l/m sand and gravel, brick over 1 foot of dark brown/black l/m sand, some green staining, gravel, brick, odor (PID 406 ppm).	No Photo Available.
4 - 8	4.1	S-2	4 / 4	NA	Approx. 1 foot of brown l/c sand, gravel, odor over approx. 1.5 feet of brown/tan/gray v/sand, trace clay, silt, wet no odor (PID 4.1 ppm) over approx. 0.5 feet of brown/orange c sand, gravel, no odor, over approx. 1 foot of brown/tan/gray v/sand, trace clay, silt, wet, no odor.	No Photo Available.
8 - 11	2.9	S-3	3 / 3	NA	Approx. 2 feet of gray/brown m/c sand with silt, trace redoxomorphic concentrations, wet over approx. 1 foot of gray v/sand, silt, wet, no odor.	No Photo Available.
						Bottom of exploration 11' below grade

GRANULAR SOILS BLOWS/FT DENSITY	COHESIVE SOILS BLOWS/FT DENSITY	PROPORTIONS	Notes
0 - 4 V. Loose	<2	Trace 0 - 10%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10 eV photoionization detector (PID).
4 - 10 Loose	2 - 4	Little 10 - 30%	
10 - 30 M Dense	4 - 8	Some 30 - 35%	
30 - 50 Dense	8 - 15	And 35 - 50%	
>50 V. Dense	15 - 30 >20		

<b>Soil Boring Report</b>		<b>PROJECT</b>	<b>Avenue</b>	<b>New England Gas Company Providence, Rhode Island</b>	<b>642 Allens</b>	<b>Report of Boring No:</b> B-8
Drilling Company: NE Geotech		Boring Location: South-central portion of the Site				<b>Well ID:</b> NA
Driller:		Elevation: NA				<b>Datum:</b> NA
Inspector: Claude Massa / Chris Mazzolini		Start Date: 1/22/2003				<b>End Date:</b> 1/22/2003
		<b>Job Number:</b> 71274				<b>Sheet 1 of 1</b>

The borings were advanced by vibratory direct push technology using a Geoprobe System.








Depth (ft)	PID Reading	Sample No	Pen/Rat	Blows/ft	SAMPLE DESCRIPTION	Boring Photo
0 - 4	178	S-1	4 / 4	NA	Approx. 2.5 feet of dark brown/black f/m sand (appears to be fragments of wood chips at approx. 1-2 feet beg), odor (PID 178 ppm) over approx. 1.5 feet of tan/orange f sand, redoximorphic concentrations, moist, no odor (PID 8 ppm).	No Photo Available.
4 - 8	4.3	S-2	4 / 4	NA	Approx. 1 foot of tan f sand, moist over approx. 3 feet of brown/orange o sand (top 3 inches has prominent redoximorphic concentrations), gravel, no odor (PID 4.3 ppm)	No Photo Available.
8 - 11	2.3	S-3	3 / 3	NA	Approx. 3 feet of brown/orange c/m sand and gravel, wet, no odor.	No Photo Available.
						Bottom of exploration 11' below grade

GRANULAR SOILS BLOW-FT DENSITY		COHESIVE SOILS BLOW-FT DENSITY		PROPORTIONS	Notes
0 - 4	V Loose	<2	V. Soft	Trace 0 - 10%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grainsize. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 560B 10.eV photoionization detector (PID)
4 - 10	Loose	2 - 4	Soft	Little 10 - 20%	
10 - 30	M Dense	4 - 8	M. Stiff	Some 20 - 35%	
30 - 50	Dense	8 - 15	Stiff	And 35 - 50%	
>50	V Dense	15 - 30	V. Stiff		
		>30	Hard		

# Soil Boring Report

<b>PROJECT</b>		New England Gas Company 642 Allens Avenue Providence, Rhode Island	
Drilling Company: Subsurface Environmental Drilling PHI/B rad		Report of Boring No. MHA-1 Well ID: VHB-21	Job Number: 71274 Sheet 1 of 1
Inspector: Claude Maiese / Chris Mazzolini		Boring Location: Southwestern corner of MHA. Elevation: NA Datum: NA Start Date: 1/28/2003 End Date: 1/28/2003	

The borings were advanced by a hollow stem auger. Unless otherwise noted, the soil samples were collected using a two-foot split-spoon driven with a 140 lb. hammer falling 30 inches.

Depth (ft.)	PID Reading	Sample No.	Pen/Sec (ft.)	Blows/ft. In.	SAMPLE DESCRIPTION	Boring Photo
0 - 2	NA	S-1	24/12	41/120/52	Auger to approximately six inches below grade because surficial soil was frozen. Gray, light brown, fine to medium sand and silt with gravel, dry frozen.	
2 - 4	3.7	S-2	24/24	28/192/61E	Gray, fine to med. sand and silt, with gravel.	
4 - 6	744	S-3	24/16	4/4/6/6	Dark gray to gray, fine to medium sand with gravel; moist with odor.	
6 - 8	NA	S-4	24/18	8/101/11/1	Gray, fine to med. sand with gravel; wet with odor.	
8 - 10	NA	S-5	24/12	10/11/10/1/0	Dark gray, fine sand and silt with gravel; wet with odor.	
10 - 12	1200	S-6	24/2	3/6/3/2	Gray to brown, medium to coarse sand with gravel; wet with strong odor.	
12 - 14	NA	S-7	24/12	1/1/1/1	Black and gray, fine to coarse sand; wet with odor.	

SE22 inch monitoring well with standpipe at 16 ft. below grade with 10 ft. of screen.

Bottom of exploration 16 ft. below grade.

GRANULAR SOILS BLOWS/FT. DENSITY	COHESIVE SOILS BLOWS/FT. DENSITY	PROPORTIONS	NOTES
0 - 4 V. Loose	<2 V. Soft	0 - 10% T/size	1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were sequenced in the field for VOCs using a ThermoEnvironmental Instruments model 560B 10 eV photoionization detector (PID). 5) AFS = Auger Flight Sample 6) NSR = No Sample Recovered
4 - 10 Loose	2 - 4 Soft	10 - 20% L/size	
10 - 30 M. Dense	4 - 8 M. Stiff	20 - 35% Some	
30 - 50 Dense	8 - 15 Stiff	35 - 50% And	
>50 V. Dense	15 - 30 V. Stiff		
	>30 Hard		

# Soil Boring Report

## PROJECT

New England Gas Company  
642 Allens Avenue  
Providence, Rhode Island

Report of Boring No. MHA-2  
Well ID: NA  
Job Number: 71274  
Sheet 1 of 1

Drilling Company: Subsurface Environmental Drilling





Driller: Phil Grad

Inspector: Claude Masse / Chris Mazzolini

Boring Location: Northeast of MHA-1, in the central portion of the MHA.

Elevation: NA  
Datum: NA  
Start Date: 1/28/2003  
End Date: 1/28/2003

The borings were advanced by a hollow stem auger. Unless otherwise noted, the soil samples were collected using a two-foot split-spoon driven with a 140 lb. hammer falling 30 inches.








Depth (ft.)	PID Reading	Sample No.	Pen/Fcs (in)	Blows/ft	SAMPLE DESCRIPTION	Boring Photo
0 - 2	NA		NA	AFS	Auger to approximately two feet below surface because surficial soil was frozen.	No Photo Available.
2 - 4	610	S-1	24/12	15/12/12/15	Brown to gray, fine to medium sand, frozen; over dark brown, black, fine sand and silt with orange redox concentrations, with brick and gravel; over 1 in. of black fine sand coal and gravel.	
4 - 6	623	S-2	24/12	2/2/2/3	Black to brown, coarse sand and silt, over brown, medium to coarse sand, moist.	
6 - 8	150	S-3	24/4	7/6/5/7	Dark gray, gray, fine to coarse sand with a slight odor; over dark gray sand, wet.	
8 - 10	NA	S-4	24/12	6/3/2/3	Dark gray, fine to medium sand and silt; strong odor (gasoline?); wet.	
						Bottom of exploration 10 ft. below grade.

GRANULAR SOILS BLOWS/FT DENSITY	COHESIVE SOILS BLOWS/FT DENSITY	PROPORTIONS	Notes
0 - 4 V. Loose 4 - 10 Loose 10 - 30 M. Dense 30 - 50 Dense V. Dense >50	<2 V. Soft 2 - 4 Soft 4 - 8 M. Stiff 8 - 15 Stiff 15 - 30 V. Stiff >30 Hard	0 - 10% Trace 10 - 20% Little 20 - 35% Some 35 - 50% And	<ol style="list-style-type: none"> <li>1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual.</li> <li>2) Bedrock was not encountered.</li> <li>3) Water levels may fluctuate due to ocean tides, season, and precipitation rates.</li> <li>4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 5808 10.eV photoionization detector (PID).</li> <li>5) AFS = Auger Flight Sample</li> <li>6) NSR = No Sample Recovered</li> </ol>

# Soil Boring Report

<b>PROJECT</b>		New England Gas Company 642 Allens Avenue Providence, Rhode Island		Report of Boring No. MHA-3 Well ID: VHB-22
Drilling Company: Subsurface Environmental Drilling		Job Number: 71274		Sheet 1 of 1
Driller: Phil Brad		Boring Location: East of MHA-2 on the eastern portion of the MHA.		Datum: NA
Inspector: Claude Masse / Chris Mazzolini		Elevation: NA		End Date: 1/28/2003







The borings were advanced by a hollow stem auger. Unless otherwise noted, the soil samples were collected using a two-foot split-spoon driven with a 140 lb. hammer falling 30 inches.

Depth (ft.)	PID Reading	Sample No.	Pen/Rec (in.)	Blows/ft. in.	SAMPLE DESCRIPTION	Boring Photo
0 - 2	NA	S-1	NA	AFS	Auger to approximately two feet below grade because surficial soil was frozen.	No Photo Available.
2 - 4	NA	S-2	24/12	16/6/6/10	Gray to black, fine to medium sand and silt with gravel, coal and slag; no odor, dry.	
4 - 6	267	S-3	24/6	2/3/4/4	Black to dark brown, fine to coarse sand with silt; moist with odor.	
6 - 8	NA	S-4	24/18	3/4/6/3	Dark gray to dark brown, medium to coarse sand with slag; over gray fine sand and silt.	
8 - 10	169	S-5	24/12	6/4/10/19	Dark gray to black, fine to medium sand and silt with trace gravel; wet with strong odor.	
10 - 12	100	S-6	24/20	18/12/10/14	Dark gray to black, fine to medium sand and silt with trace gravel and brick; wet with odor.	
12 - 14	175	S-7	24/24	6/4/4/9	Dark gray to black, fine to medium sand and silt with trace gravel and brick; wet, odor.	
14 - 16	NA	S-8	4/24	4/6/16/16	Gray to dark gray, very fine sand and silt with trace clay; wet.	

GRANULAR SOILS BLOWS/FT DENSITY	COHESIVE SOILS BLOWS/FT DENSITY	PROPORTIONS	NOTES
0 - 4 V Loose	<2	0 - 10%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 5808 10.eV photoluminescence detector (PID). 5) AFS = Auger Flight Sample 6) NSR = No Sample Recovered / Set 2 inch monitoring well with standpipe at 16 ft. below grade with 10 ft. of screen.
4 - 10 Loos	2 - 4	10 - 20%	
10 - 30 M. Dens	4 - 8	20 - 35%	
30 - 50 Dense	8 - 15	35 - 50%	
>50 V. Dense	15 - 30		
	>30		

Bottom of exploration  
17 ft. below grade.

# Soil Boring Report

PROJECT		New England Gas Company 64z Allens Avenue Providence, Rhode Island		Report of Boring No. MHA-4 Well ID: NA Job Number: 71274 Sheet 1 of 1		
Drilling Company: Subsurface Environmental Drilling		PHE/Grad		Boring Location: Northeast portion of MHA.		
Inspector: Claude Masse / Chris Marzolini		Elevation: NA		Datum: NA		
The borings were advanced by a hollow stem auger. Unless otherwise noted, the soil samples were collected using a two-foot spik-spoon driven with a 140 lb. hammer falling 30 inches.		Start Date: 12/28/2003		End Date: 12/29/2003		
Depth (ft.)	PID Reading	Sample No.	Pen/Sec (in.)	Blows/ft. h.	SAMPLE DESCRIPTION	Boring Photo
0 - 2	NA		NA	AFS	Auger to approximately two feet below grade because surficial soil was frozen.	No Photo Available.
2 - 4	NA	S-1	24/18	12/14/11	Tan, very fine sand (former MHA base?); over black, medium to coarse sand, fly ash, brick and slag.	
4 - 6	37	S-2	24/12	3/4/5/9	Black to brown, medium to coarse sand, fill with ash, slag and brick, moist. Wet at 6 ft.	
6 - 8	NA	S-3	24/12	10/5/2/8	Black, fine to coarse, with trace gravel; wet with odor.	
8 - 10	115	S-4	24/24	18/20/16/14	12 in. of black medium to coarse sand, wet; over 18 in. of light gray, very fine sand to fine sand, odor; over 3 in. of black, very coarse sand and gravel, wet.	
10 - 12	101	S-5	24/12	10/7/6/7	Black, fine sand and silt, over brown to gray, fine sand and some gravel, odor, wet.	
12 - 14	207		24/24	10/6/16/32	Dark gray to gray, fine to medium sand and silt, odor, wet.	
Bottom of exploration 14 ft. below grade.						
GRANULAR SOILS BLOWS/FT. DENSITY		COHESIVE SOILS BLOWS/FT. DENSITY		PROPORTIONS		NOTES
0 - 4	V. Loose	<2	V. Soft	Trace	0 - 10%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 560B 10 eV photoionization detector (PID). 5) AFS = Auger Flight Sample 6) NSTR = No Sample Recovered
4 - 10	Loose	2 - 4	Soft	Lite	10 - 20%	
10 - 30	M. Dense	4 - 8	M. Stiff	Some	20 - 33%	
30 - 50	Dense	8 - 15	Stiff	Aud	35 - 50%	
>50	V. Dense	15 - 30	V. Stiff			
		>30	Hard			



# Soil Boring Report




Drilling Company: Subsurface Environmental Drilling  
 Phil Brad  
 Inspector: Claude Messer / Chris Mazzolini

The borings were advanced by a hollow stem auger. Unless otherwise noted, the soil samples were collected using a two-foot split-spoon driven with a 140 lb. hammer falling 30 inches.

**PROJECT**  
 New England Gas Company  
 642 Allens Avenue  
 Providence, Rhode Island

Report of Boring No. MHA-5  
 Well ID: NA  
 Job Number: 71274  
 Sheet 1 of 1





Boring Location: West of MHA-4, along the northern portion of the MHA.  
 Elevation: NA  
 Datum: NA  
 Start Date: 1/28/2003  
 End Date: 1/28/2003

Depth (ft.)	PID Reading	Sample No.	Pen/Rec (ft.)	Blows/ft. In.	SOIL DESCRIPTION	Boring Photo
0 - 2	NA		NA	AFS	Auger to approximately two feet below grade because surficial soil was frozen.	No Photo Available.
2 - 4	NA	S-1	24/18	19/9/10/10	21 in. of brown, fine sand with silt and gravel; over 3 in. of black, medium sand with fly ash, slag and brick.	
4 - 8	37	S-2	24/6	7/8/6/6	Dark brown to black, fine to coarse sand with gravel, ash, coal and slag.	
6 - 8	NA	S-3	24/6	5/6/11/12	3 in. of black, coarse sand and slag; over 3 in. brown to tan, fine sand and silt; no odor.	
8 - 10	NER	S-4	24/1	6/7/3/4	NER = Not Enough Recovery. Brown to tan, fine sand and silt with coarse gravel; no odor.	No Photo Available.
10 - 12	NA	S-5	NSR	1/1	One blow for one foot.	No Photo Available.
12 - 14	NA	S-6	NSR	1/3/2/2	Very loose material and gravel, very wet, no odor.	No Photo Available.
					Bottom of exploration 14 ft. below grade.	

GRANULAR SOILS BLOWN/SFT	COHESIVE SOILS BLOWN/SFT DENSITY	PROPORTIONS	NOTES
0 - 4 4 - 10 10 - 30 30 - 50 250	<2 2 - 4 4 - 8 8 - 15 15 - 30 200	Trace 0 - 15% 10 - 25% 20 - 35% 35 - 50%	(1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual. (2) Bedrock was not encountered. (3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. (4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10 eV photoionization detector (PID). (5) AFS = Auger Flight Sample (6) NSR = No Sample Recovered

# Soil Boring Report







<b>PROJECT</b>		New England Gas Company 642 Allens Avenue Providence, Rhode Island		Report of Boring No. MHA-5
Subsurface Environmental Drilling		Phil Grad		Well ID: NA
Inspector: Claude Masse / Chris Mazzolini		Job Number: 71274		Sheet 1 of 1
The borings were advanced by a hollow stem auger. Unless otherwise noted, the soil samples were collected using a two-foot split-spoon driven with a 140 lb. hammer falling 30 inches.		Boring Location: West of MHA-5, along the northern portion of the MHA.		
		Elevation: NA		Datum: NA
		Start Date: 1/28/2003		End Date: 1/28/2003

Depth (ft.)	PID Reading	Sample No.	Penetration (in.)	Blows/6 in.	SAMPLE DESCRIPTION	Boring Photo
0 - 2	NA		NA	AFS	Auger to approximately two feet below grade because surficial soil was frozen.	No Photo Available.
2 - 4	NA	S-1	24/12	20/12/19/11	9 in. of brown, fine sand and silt and gravel; partially frozen, over 3 in. brown to black, medium sand with ash, coal, brick and slag; wet.	
4 - 6	8.0	S-2	24/6	18/20/10/6	Dark brown to brown, fine sand and silt with coal, slag, gravel and orange redox concentrations.	
6 - 8	NA	S-3	24/6	4/2/2/6	Blown to tan, fine to medium sand with silt and gravel; no odor, wet.	
8 - 10	NA	S-4	24/18	10/8/10/16	6 in. of tan to brown, medium to coarse sand with gravel and silt; no odor, over 12 in. of tan, fine sand with orange redox concentrations; wet, no odor.	
						Bottom of exploration 10 ft. below grade.

GRANULAR SOILS BLOWS/FT	COHESIVE SOILS BLOWS/FT DENSITY	PROPORTIONS	NOTES
0 - 4 4 - 10 10 - 30 30 - 50 >50	V. Soft Soft M. Stiff Stiff V. Stiff Hard	Trace 0 - 10% 10 - 20% 20 - 35% 35 - 50%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 5805 10 eV photoionization detector (PID). 5) AFS = Auger Flight Sample 6) NSR = No Sample Recovered

# Soil Boring Report

<b>PROJECT</b>		New England Gas Company 642 Allens Avenue Providence, Rhode Island	Report of Boring No. MHA-7 Well ID: NA Job Number: 71274 Sheet 1 of 1
Drilling Company: Subsurface Environmental Drilling Phi/Brad		Boring Location: West of MHA-6, northwestern portion of the MHA.	
Inspector: Claude Masse / Chris Mazzolini		Elevation: NA Datum: NA	
The borings were advanced by a hollow stem auger. Unless otherwise noted, the soil samples were collected using a two-foot split-spoon driven with a 140 lb. hammer falling 30 inches.		Start Date: 1/29/2003 End Date: 1/29/2003	

Depth (ft)	Pen/Rec (in.)	Sample No.	Blows/6 in.	Sample Description	Boring Photo
0 - 2	NA		AFS	Auger to approximately two feet below grade because surficial soil was frozen.	No Photo Available.
2 - 4	1.7	S-1	24/18	Dark brown to dark gray fine sand and silt; dry, no odor.	
4 - 6	ND	S-2	24/16	3 in. tan to gray, medium to coarse sand; over 12 in. brown, medium to fine sand with silt and trace gravel; over 3 in. of brown, fine to medium sand and silt; dry, no odor.	
6 - 8	ND	S-3	24/12	9 in. brown, medium to fine sand and silt with trace gravel; moist; over 3 in. black fine sand and silt with coal and slag; no odor.	
8 - 10	NA	S-4	24/24	6 in. brown, fine to medium sand and silt with trace gravel; over 18 in. gray fine sand and silt with black staining; wet with odor.	
10 - 12	1.0	S-5	24/12	Gray fine sand; over Black very fine to fine sand; wet with odor.	
12 - 14	NA	S-6	24/24	9 in. gray fine sand with trace gravel; over 15 in. black fine sand; wet with odor.	

Bottom of exploration 14 ft. below grade.

GRANULAR SOILS BLOWS/FT DENSITY	COHESIVE SOILS BLOWS/FT DENSITY	PROPORTIONIS	NOTES
0 - 4 V. Loose	<2 V. Soft	Trace	1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10 ev photoionization detector (PID). 5) AFS = Auger Flight Sample 6) NSR = No Sample Recovered
4 - 10 Loose	2 - 4 Soft	Little	
10 - 30 M. Dense	4 - 8 M. SHF	Some	
30 - 50 Dense	8 - 15 Stiff	And	
>50 V. Dense	15 - 30 V. Stiff		
	>30 Hard		

# Soil Boring Report



Drilling Company: Subsurface Environmental Drilling  
 PHL/Brad  
 Inspector: Claude Masse / Chris Mazzolini

## PROJECT

New England Gas Company  
 642 Allens Avenue  
 Providence, Rhode Island

Report of Boring No. MHA-8  
 Well ID: NA  
 Job Number: 71274  
 Sheet 1 of 1  
 Boring Location: South of MHA-7, western-central portion of the MHA.  
 Elevation: NA  
 Start Date: 1/29/2003  
 End Date: 1/29/2003





The borings were advanced by a hollow stem auger. Unless otherwise noted, the soil samples were collected using a two-foot split-spoon driven with a 140 lb. hammer falling 30 inches.

Depth (ft.)	PID Reading	Sample No.	Pen/Rec (ft.)	Blow/sft	Sample Description	Boring Photo
0 - 2	NA		NA	AFS	Auger to approximately two feet below grade because surficial soil was frozen.	No Photo Available.
2 - 4	3.0	S-1	24/15	42/32/21/15	5 in. gray to brown, medium to fine sand with trace gravel, partially frozen; over 10 in. black fine sand with slag and gravel; no odor.	No Photo Available.
4 - 6	NA	S-2	24/6	4/9/7/3	Black fine sand with coal and slag.	
6 - 8	NA	S-3	NSR	6/15/12/11	No sample recovery. Very loose gravel fill material with slag and coal.	No Photo Available.
8 - 10	NA	S-4	NSR	4/5/8/1/0	No sample recovery. Very loose gravel fill material with slag and coal.	No Photo Available.
10 - 12	NA	S-5	NSR	1 for 2 ft.	No sample recovery. Very loose gravel fill material with slag and coal.	No Photo Available.
12 - 14	NA	S-6	NSR	1 for 2 ft.	No sample recovery. Very loose gravel fill material with slag and coal.	No Photo Available.
14 - 16	39	S-7	24/24	1 for 2 ft.	9 in. of dark gray to gray, coarse sand with fine sand, silt and gravel, wet with sheen; over 15 in. fine sand and silt with clay; heavy sheen and odor.	
						Bottom of exploration 16 ft. below grade.

GRANULAR SOILS BLOWS/FT	COHESIVE SOILS BLOWS/FT DENSITY	PROPORTIONS	NOTES
0 - 4 V. Loose	<2 V. Soft	0 - 10% Trace	1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10.eV photoionization detector (PID). 5) AFS = Auger Flight Sample 6) NSR = No Sample Recovered
4 - 10 Loose	2 - 4 Soft	10 - 20% Little	
10 - 30 M. Dense	4 - 8 M. Stiff	20 - 35% Some	
30 - 50 Dense	6 - 15 Stiff	35 - 50% And	
>50 V. Dense	15 - 30 V. Stiff	>50 Hard	

# Soil Boring Report

<b>Drilling Company:</b> Subsurface Environmental Drilling	<b>PROJECT</b>	<b>Report of Boring No.:</b> MHA-9
<b>Driller:</b> Phil Grad	<b>New England Gas Company</b>	<b>Well ID:</b> NA
<b>Inspector:</b> Claude Masse / Chris Hazzolini	<b>642 Allens Avenue</b>	<b>Job Number:</b> 71274
	<b>Providence, Rhode Island</b>	<b>Sheet:</b> 1 of 1
<b>Boring Location:</b> East of MHA-8, central portion of the MHA.		
	<b>Elevation:</b> NA	<b>Datum:</b> NA
<b>The borings were advanced by a hollow stem auger. Unless otherwise noted, the soil samples were collected using a two-foot split-spoon driven with a 140 lb. hammer falling 30 inches.</b>		
	<b>Start Date:</b> 1/29/2003	<b>End Date:</b> 1/29/2003

Depth (ft)	PID Reading	Sample No.	Pen/Res. (in.)	Blow/sft	Blow/sft	Pen/Res. (in.)	Blow/sft	Sample Description	Boring Photo
0 - 2	NA		NA					Auger to approximately two feet below grade because surficial soil was frozen.	No Photo Available.
2 - 4	NA	S-1	24/16			8/12/27/29		6 in. dark brown fine sand and silt with gravel, no odor, over 6 in. tan very fine sand some silt, over 4 in. black sand with ash, slag coal, no odor.	
4 - 6	ND	S-2	24/16			19/21/24/29		Brown medium to coarse sand with gravel and trace coal, over Brown to tan, fine to medium sand with gravel, dry with slight odor.	
6 - 8	NA	S-3	24/1			50/45/40/32		Brown fine to medium sand with gravel, wet, no odor.	No Photo Available.
8 - 10	2.6	S-4	24/12			27/25/40/45		6 in. gray fine sand and fine gravel, over 6 in. gray fine to medium sand with rock fragments, wet, no odor.	
10 - 12	NA	S-5	NSR			1/3/4/5		No sample recovery. Very loose gravel fill material.	No Photo Available.
12 - 14	NA	S-6	NSR			3/3/3/2		No sample recovery. Very loose gravel fill material.	No Photo Available.
14 - 16	3.8	S-7	24/6			1 for 2 ft.		Gray to dark gray, medium to coarse sand with fine sand, wet, no odor.	


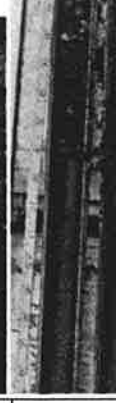




Bottom of exploration 16 ft. below grade.

GRANULAR SOILS BLOWS/FT DENSITY	COHESIVE SOILS BLOWS/FT DENSITY	PROPORTIONS	NOTES
0 - 4 V Loose 4 - 10 Loose 10 - 30 M. Dense 30 - 50 Dense >50 V Dense	<2 V. Soft 2 - 4 Soft 4 - 8 M. Stiff 8 - 15 Stiff 15 - 30 V. Stiff >30 Hard	0 - 10% Trace 10 - 20% Lime 20 - 35% Some 35 - 50% And	1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 5909 10 eV photoionization detector (PID). 5) AFS = Auger Flight Sample 6) NSR = No Sample Recovered

# Soil Boring Report

<b>PROJECT</b>		New England Gas Company 642 Allens Avenue Providence, Rhode Island	Report of Boring No. MHA-10 Well ID: NA
Job Number: 71274		Sheet 1 of 1	
Boring Location: East of MHA-9, central-eastern portion of the MHA.		Datum: NA	
Elevation: NA		End Date: 1/29/2003	
Start Date: 1/29/2003			

The borings were advanced by a hollow stem auger. Unless otherwise noted, the soil samples were collected using a two-foot split-spoon driven with a 140 lb. hammer falling 30 inches.







Depth (ft.)	PID Reading	Sample No.	Pen/Rec (in.)	Blow/s ft.	SAMPLE DESCRIPTION	Boring Photo
0 - 2	NA		NA	AFS	Auger to approximately two feet below grade because surficial soil was frozen.	No Photo Available.
2 - 4	NA	S-1	24/6	20/21/14/12	Brown fine sand with silt and gravel; over black fly ash, slag and coal; dry, no odor.	
4 - 6	71	S-2	24/6	3/5/4/4	Urban fill. Black, medium to fine sand with gravel, brick and ash.	
6 - 8	221	S-3	24/6	2/2/4/5	3 in. Black urban fill, wet with odor; over 3 in. gray fine sand with trace orange redox concentrations; wet.	
8 - 10	NA	S-4	24/6	10/6/16/16	Gray to brown, fine sand; wet with odor.	
10 - 12	104	S-5	24/6	1/2/3/5	Brown, fine to medium sand with silt with trace black staining; wet with odor.	
12 - 14	NA	S-6	24/6	6/6/2/2	5 in. Brown, medium to coarse loose sand with some fine sand with little gravel; wet; over 1 in. Dark brown fine material.	
14 - 16	7.2	S-7	24/6	2/2/3/2	Brown, medium to coarse gravel with silt; wet.	No Photo Available.

GRANULAR SOILS BLOWS/FT	COHESIVE SOILS BLOWS/FT DENSITY	PROPORTIONS	NOTES
0 - 4 V Loose 4 - 10 Loose 10 - 30 M. Dense 30 - 50 Dense >50 V. Dense	<2 V. Soft 2 - 4 Soft 4 - 8 M. Stiff 8 - 15 Stiff 15 - 30 V. Stiff >30 Hard	Trace Little Some And 35 - 50%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 580B 10 eV photoionization detector (PID). 5) AFS = Auger Flight Sample 6) NSR = No Sample Recovered

Bottom of exploration  
16 ft. below grade.

# Soil Boring Report



<b>PROJECT</b>		New England Gas Company 642 Aliens Avenue Providence, Rhode Island		Report of Boring No. MHA-11 Well ID: VHB-23 Sheet 1 of 1
<b>Drilling Company:</b>		Subsurface Environmental Drilling PHI/Brad		Job Number: 71274
<b>Diller:</b>		Claude Masse / Chris Mazzolini		Boring Location: Southeastern portion of MHA, Elevation: NA Start Date: 1/29/2003 End Date: 1/29/2003
The borings were advanced by a hollow stem auger. Unless otherwise noted, the soil samples were collected using a two-foot split-spoon driven with a 140 lb. hammer falling 30 inches.				

Depth (ft)	PID Reading	Sample No.	Pen/Blow (in)	Blow/ft In.	Sample Description	Boring Photo
0 - 2	NA		NA	AFS	Auger to approximately two feet below grade because surficial soil was frozen.	No Photo Available.
2 - 4	316	S-1	24/20	11/10/9/6	Black, fine to medium sand with coal and gravel, odor; over 3 in. gray, fine to medium sand; odor.	
4 - 6	1060	S-2	24/12	9/15/1/17	Gray to black, fine sand and silt; moist with odor.	
6 - 8	NA	S-3	24/4	9/12/1/2/8	Gray fine sand and silt; wet with odor.	
8 - 10	704	S-4	24/6	3/4/4/4	140 lb. hammer out of use; 300 lb. hammer in use. 4 in. of dark gray to black, fine to very fine sand with silt and trace clay; wet with odor; over 2 in. gray to brown, fine to medium sand and gravel.	
10 - 12	1087	S-5	24/6	1/1/1/1	Dark gray to black fine sand and silt; over 2 in. of gray very fine sand with trace clay; wet with odor.	
12 - 16	403	S-6	24/24	1/1/1/1	12 to 14 ft. actually 12 to 16 ft. 6 in. Gray very fine sand with clay; wet with sheen, odor; over 18 in. dark gray to black, fine sand with silt, wet.	
					Set 2 inch monitoring well with standpipe at 16 ft. below grade with 10 ft. of screen.	Bottom of exploration 16 ft. below grade.

GRANULAR SOILS BLOWS/FT	COHESIVE SOILS BLOWS/FT DENSITY	PROPORTIONS	NOTES
0 - 4 4 - 10 10 - 30 30 - 50 >50	<2 2 - 4 4 - 8 8 - 15 15 - 30 >30	Trace 0 - 10% 10 - 20% 20 - 33% 35 - 50%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 5808 10 eV photoionization detector (PID). 5) AFS = Auger Flight Sample 6) NSR = No Sample Recovered

# Soil Boring Report

<b>PROJECT</b>		New England Gas Company 64z Allens Avenue Providence, Rhode Island		Report of Boring No. <b>MHA-12</b> Well ID: <b>NA</b>	
Drilling Company: Subsurface Environmental Drilling PHU/Brad		Job Number: <b>71274</b>		Sheet 1 of 1	
Inspector: Claude Maese / Chris Mazzolini		Boring Location: West of MHA-11 Southern portion of MHA.		Datum: <b>NA</b>	
The borings were advanced by a hollow stem auger. Unless otherwise noted, the soil samples were collected using a two-foot split-spoon driven with a 300 lb. hammer falling 30 inches.		Elevation: <b>NA</b>		End Date: <b>1/29/2003</b>	
Start Date: <b>1/29/2003</b>					

Depth (ft)	PID Reading	Sample No.	Pen/ftsec (in.)	Blows/ft	Blows/3 in.	SAMPLE DESCRIPTION	Boring Photo
0 - 2	NA		NA		AFS	Auger to approximately two feet below grade because surficial soil was frozen.	No Photo Available.
2 - 4	NA	S-1	24/12		2/3/4/5	Urban fill, black medium to fine, sand with ash, slag and coal; slight odor.	
4 - 6	4	S-2	24/14		1/3/2/2	Black fine sand; strong odor and appears wet.	
6 - 8	133	S-3	24/20		3/4/8/8	Black fine sand; moist, odor; over	No Photo Available.
8 - 10	315	S-4	24/6		2/2/2/2	Gray medium to fine sand with trace clay; odor.	No Photo Available.
10 - 12	NA	S-5	24/0.5		2/2/2/2	Gray medium to fine sand with trace clay; odor.	No Photo Available.
12 - 14	147	S-6	24/6		2/2/2/2	Black very fine sand, shren on spoon with odor.	No Photo Available.
14 - 16	177	S-7	24/10		1/1/1/1	Gray, olive fine sand; shren and odor.	No Photo Available.
						Dark gray, black very fine sand with trace clay; odor.	No Photo Available.
						Bottom of exploration at 16 ft.	

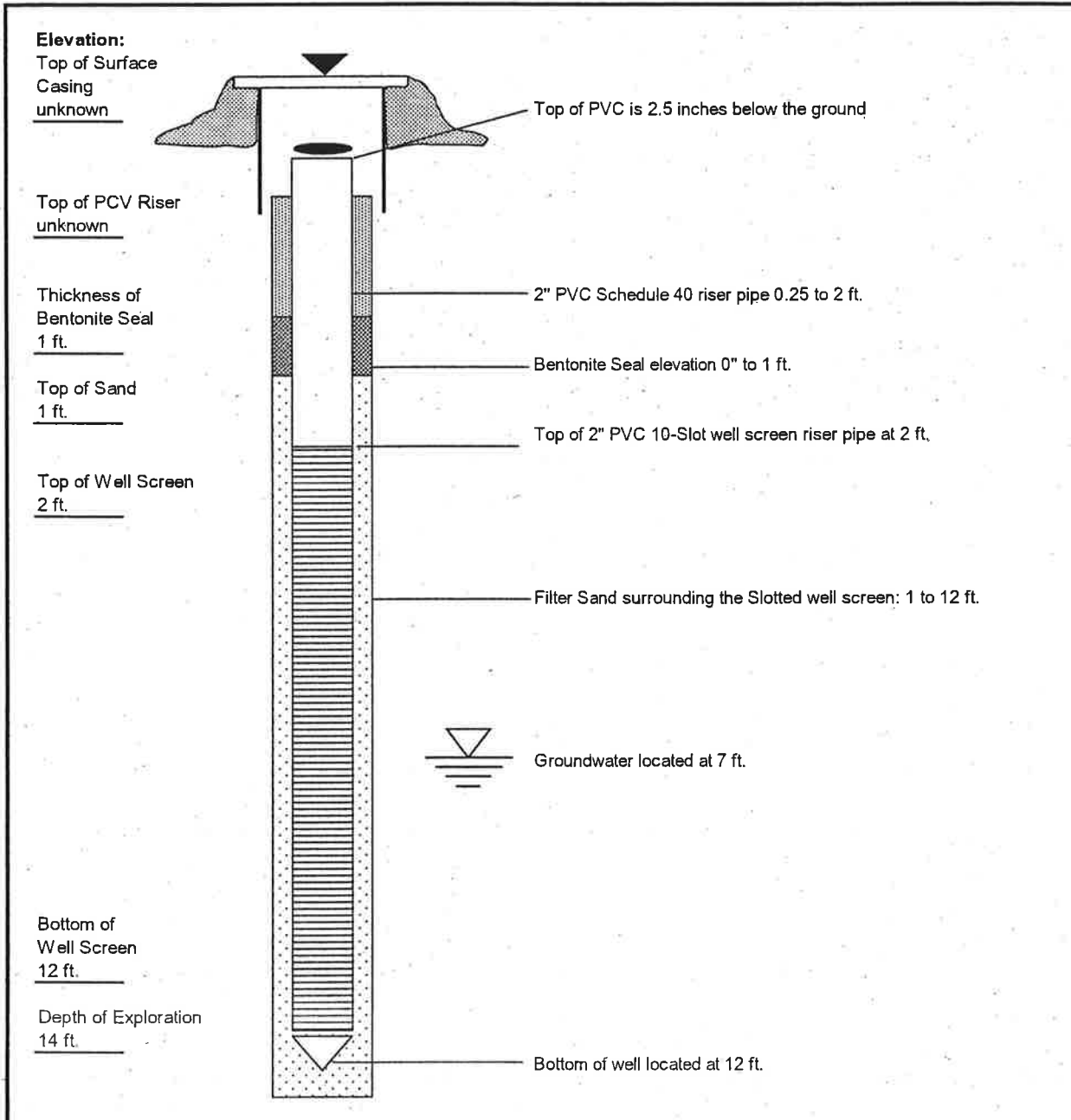
GRANULAR SOILS BLOWS/FT	COHESIVE SOILS BLOWS/FT DENSITY	PROPORTIONS	NOTES
0 - 4 Dense	<2 V. Soft	0 - 10%	1) Soil stratification lines represent a graphical depiction of changes in soil type and grain size. Actual changes may be gradual. 2) Bedrock was not encountered. 3) Water levels may fluctuate due to ocean tides, season, and precipitation rates. 4) All soil samples were screened in the field for VOCs using a ThermoEnvironmental Instruments model 5005 10.eV photoionization detector (PID). 5) AFS = Auger Flight Sample 6) NSR = No Sample Recovered
4 - 10 Loose	2 - 4 Soft	10 - 20%	
10 - 30 M. Dense	4 - 8 M. Stiff	20 - 35%	
30 - 50 Dense	8 - 15 Stiff	35 - 50%	
>50 V. Dense	15 - 30 Hard		
>50	>30		



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# VHB Monitoring Well Diagram

Project Name: New England Gas Project No. 71274 Date: 15-Jan-02  
Location: 642 Allens Ave Contractor: Subsurface Drilling Well No. VHB-1  
Providence, RI Scientist: K. Sullivan / A. Rosenblatt GW Depth: Approx. 7 Feet



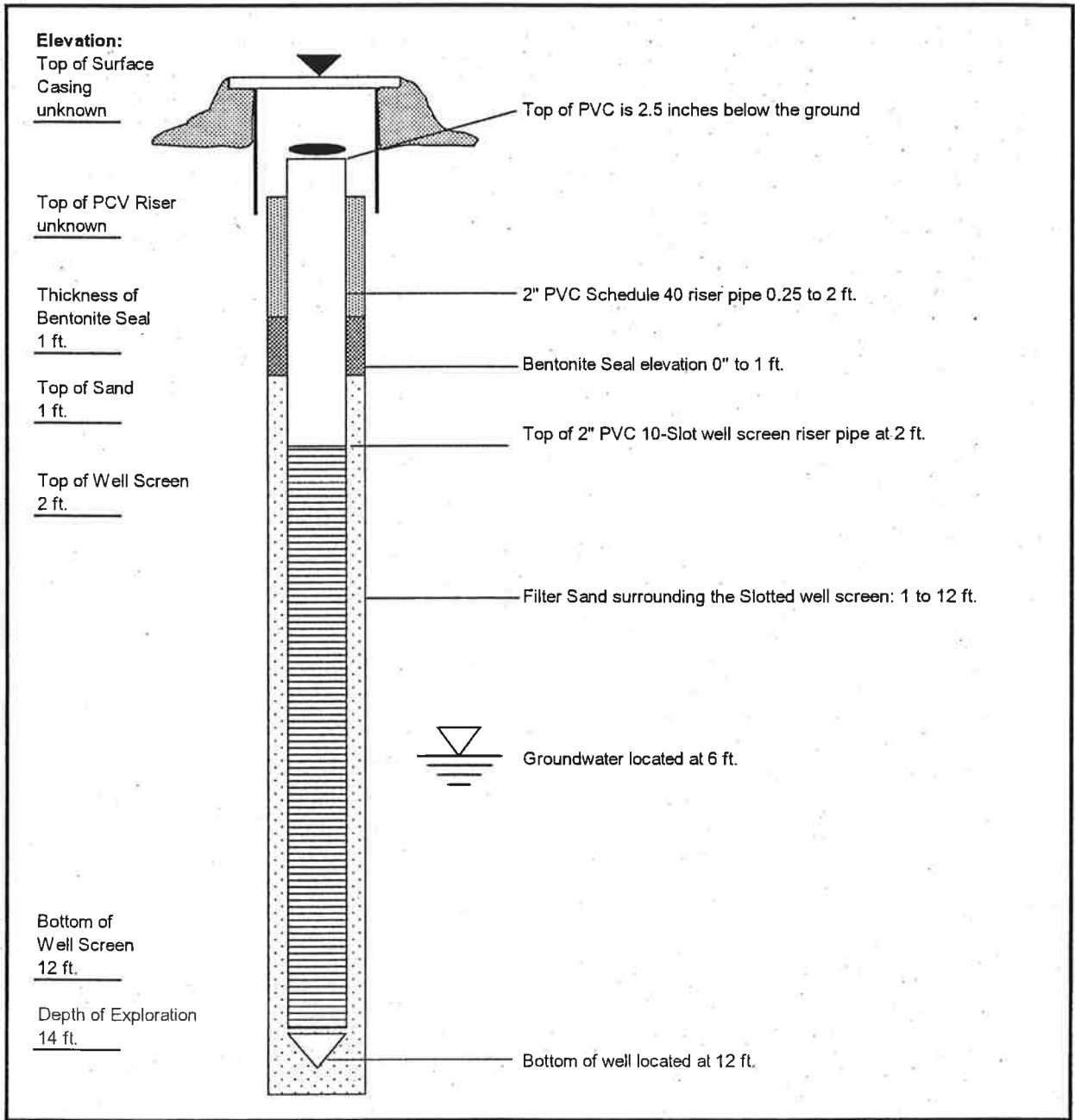
N6

# VHB Monitoring Well Diagram

Project Name: New England Gas  
Location: 642 Allens Ave  
Providence, RI

Project No. 71274  
Contractor: Subsurface Drilling  
Scientist: K. Sullivan / A. Rosenblatt

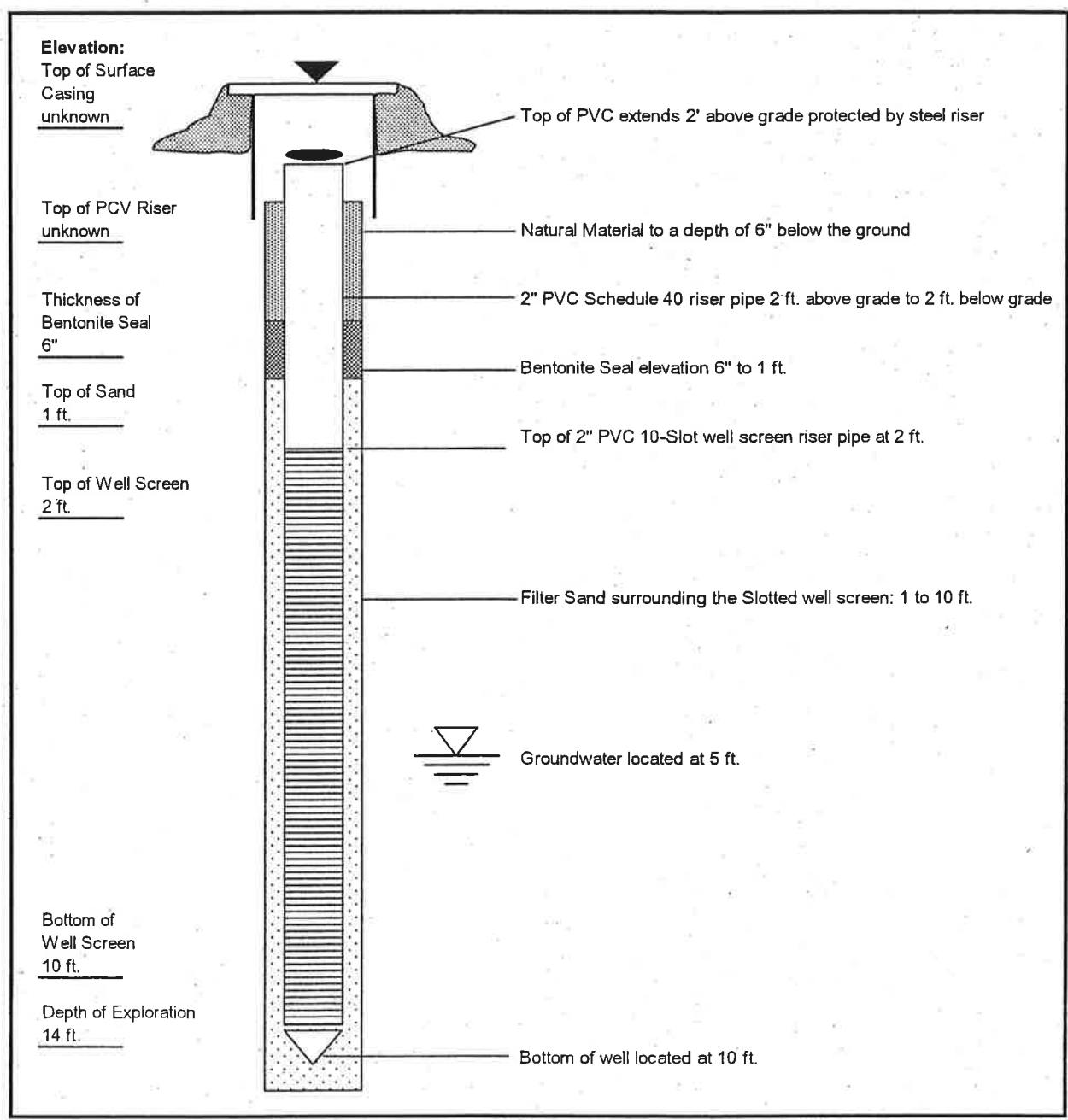
Date: 16-Jan-02  
Well No. VHB-2  
GW Depth: Approx. 6 Feet



N6

# VHB Monitoring Well Diagram

Project Name: New England Gas Project No. 71274 Date: 14-Jan-02  
Location: 642 Allens Ave Contractor: Subsurface Drilling Well No. VHB-3  
Providence, RI Scientist: K. Sullivan / A. Rosenblatt GW Depth: Approx. 5 Feet



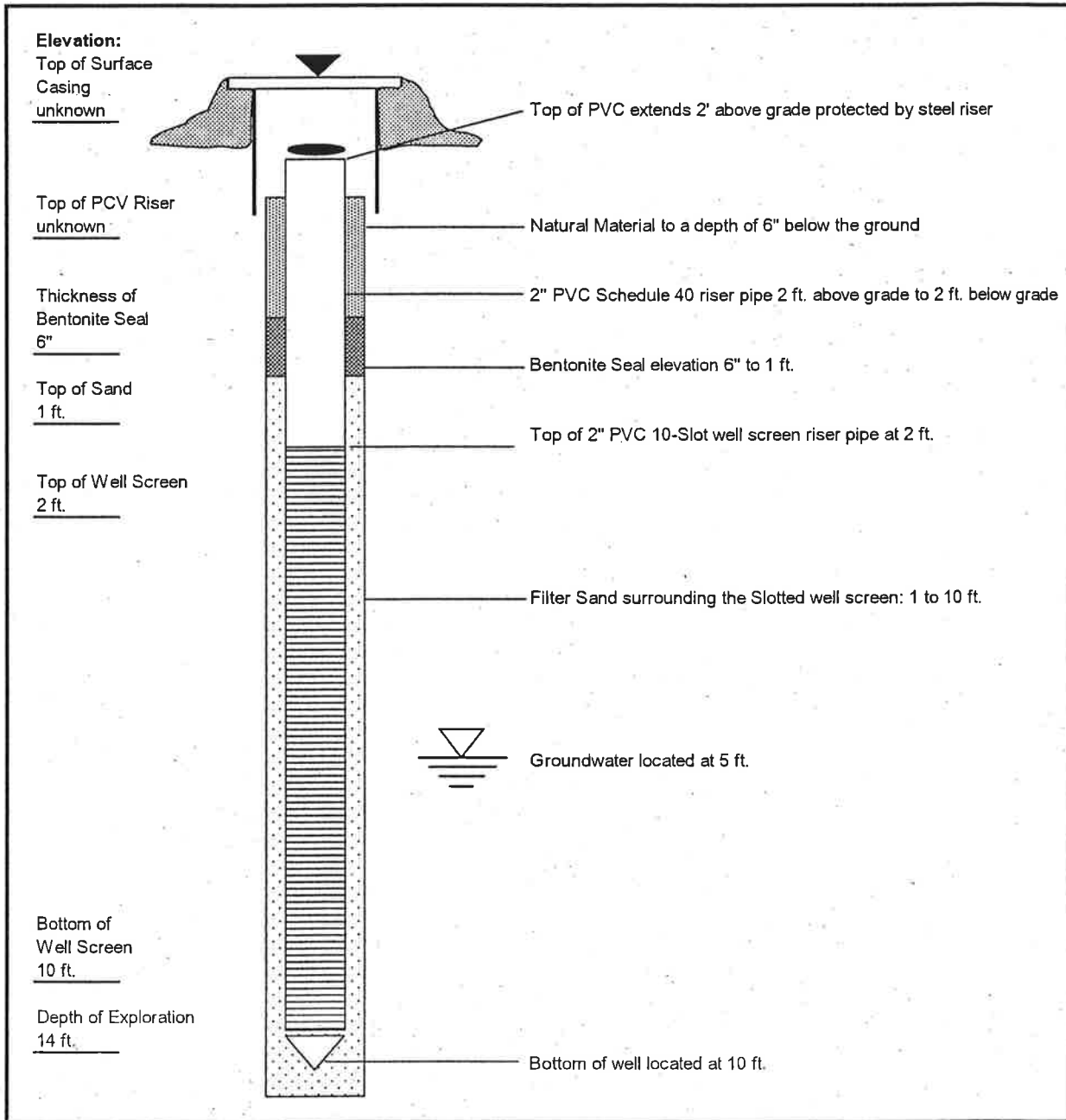
WELL WAS NOT FOUND IN DEC 2009 p 6

# VHB Monitoring Well Diagram

Project Name: New England Gas  
Location: 642 Allens Ave  
Providence, RI

Project No. 71274  
Contractor: Subsurface Drilling  
Scientist: K. Sullivan / A. Rosenblatt

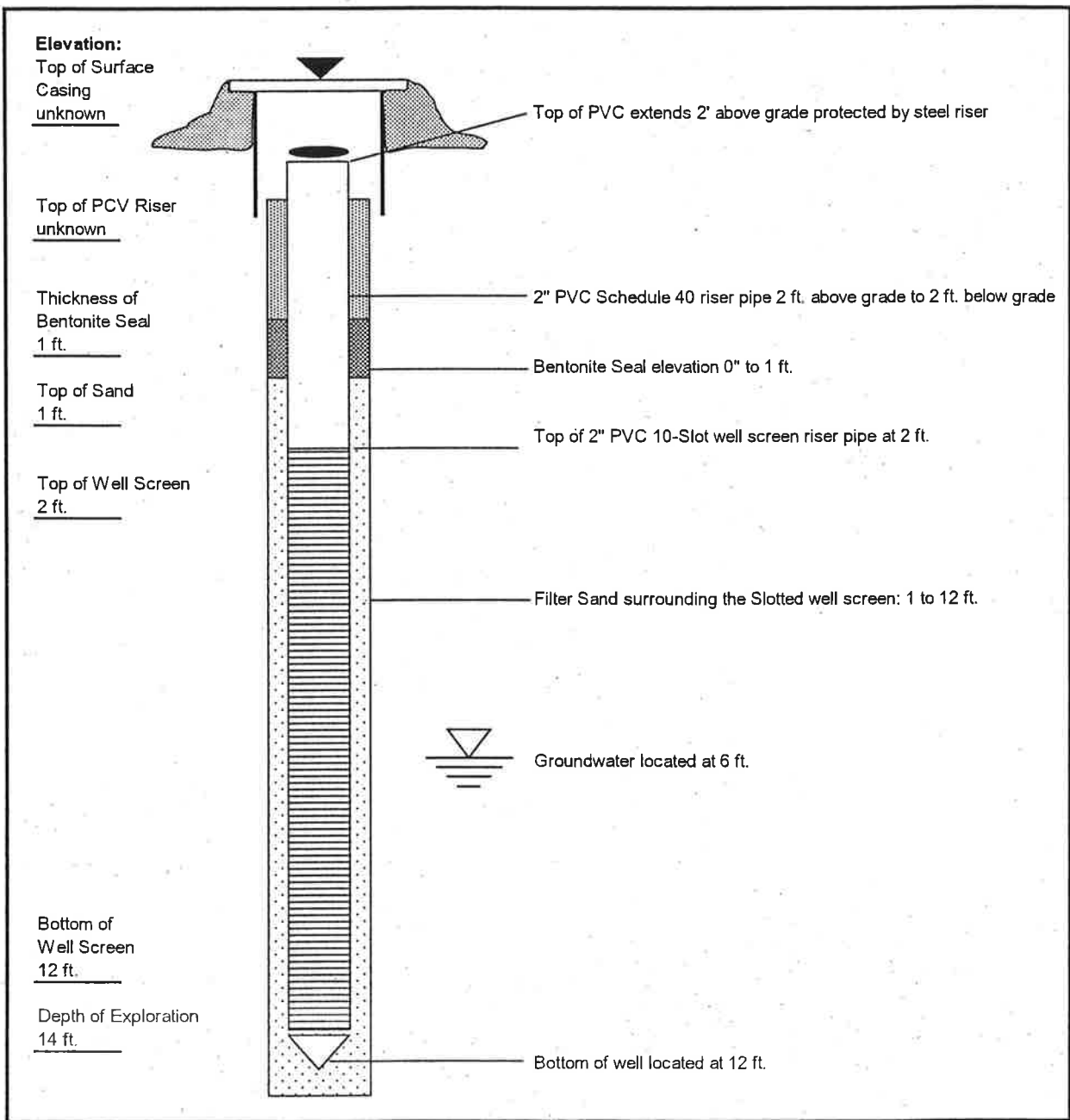
Date: 14-Jan-02  
Well No. VHB-5  
GW Depth: Approx. 5 Feet



N6

# VHB Monitoring Well Diagram

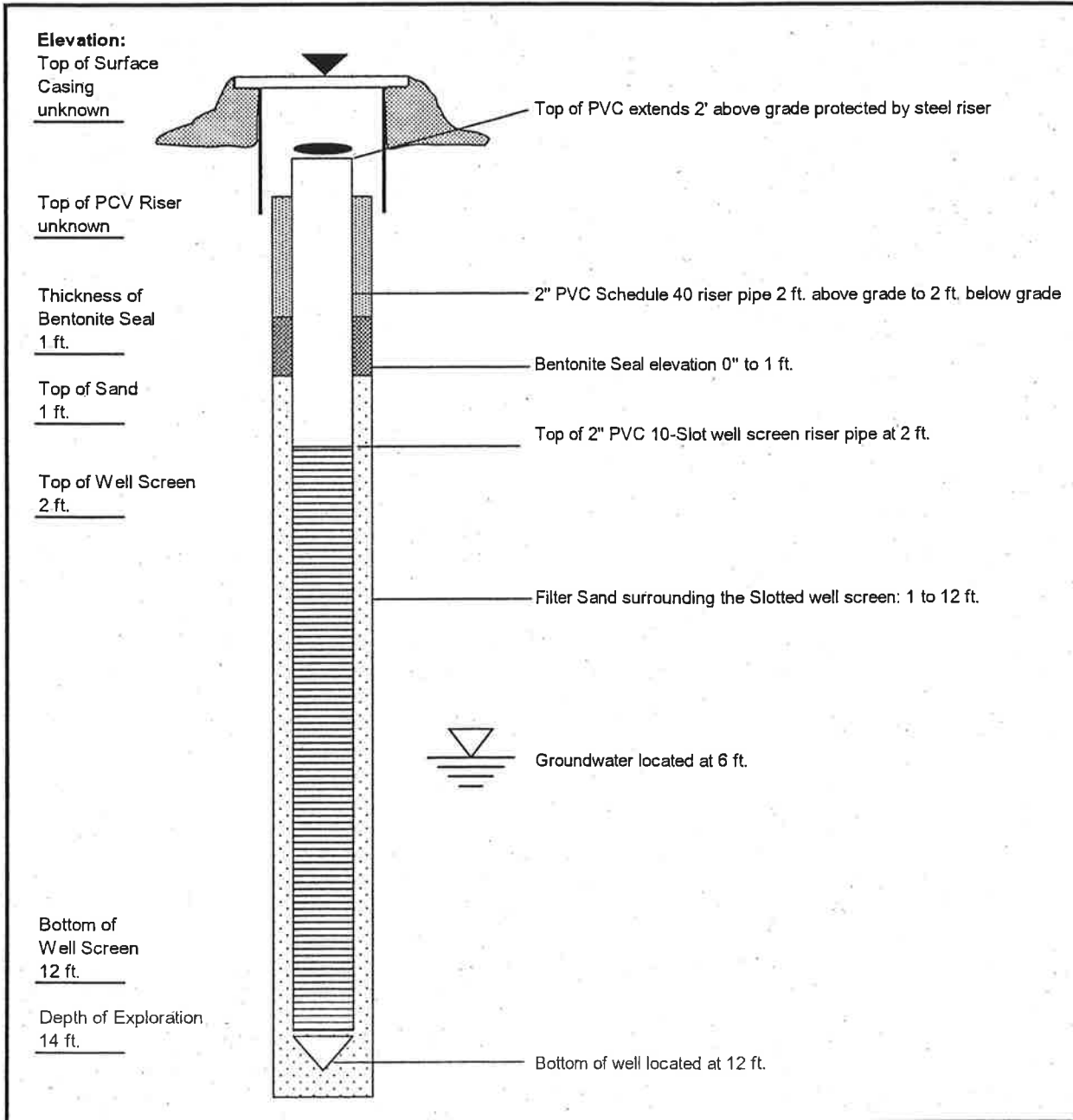
Project Name: New England Gas Project No. 71274 Date: 14-Jan-02  
Location: 642 Allens Ave Contractor: Subsurface Drilling Well No. VHB-6  
Providence, RI Scientist: K. Sullivan / A. Rosenblatt GW Depth: Approx. 6 Feet



N 6

# VHB Monitoring Well Diagram

Project Name: New England Gas Project No. 71274 Date: 14-Jan-02  
Location: 642 Allens Ave Contractor: Subsurface Drilling Well No. VHB-7  
Providence, RI Scientist: K. Sullivan / A. Rosenblatt GW Depth: Approx. 6 Feet



DAMAGED AT THE BASE - STANDPIPE 12/2009 N/G

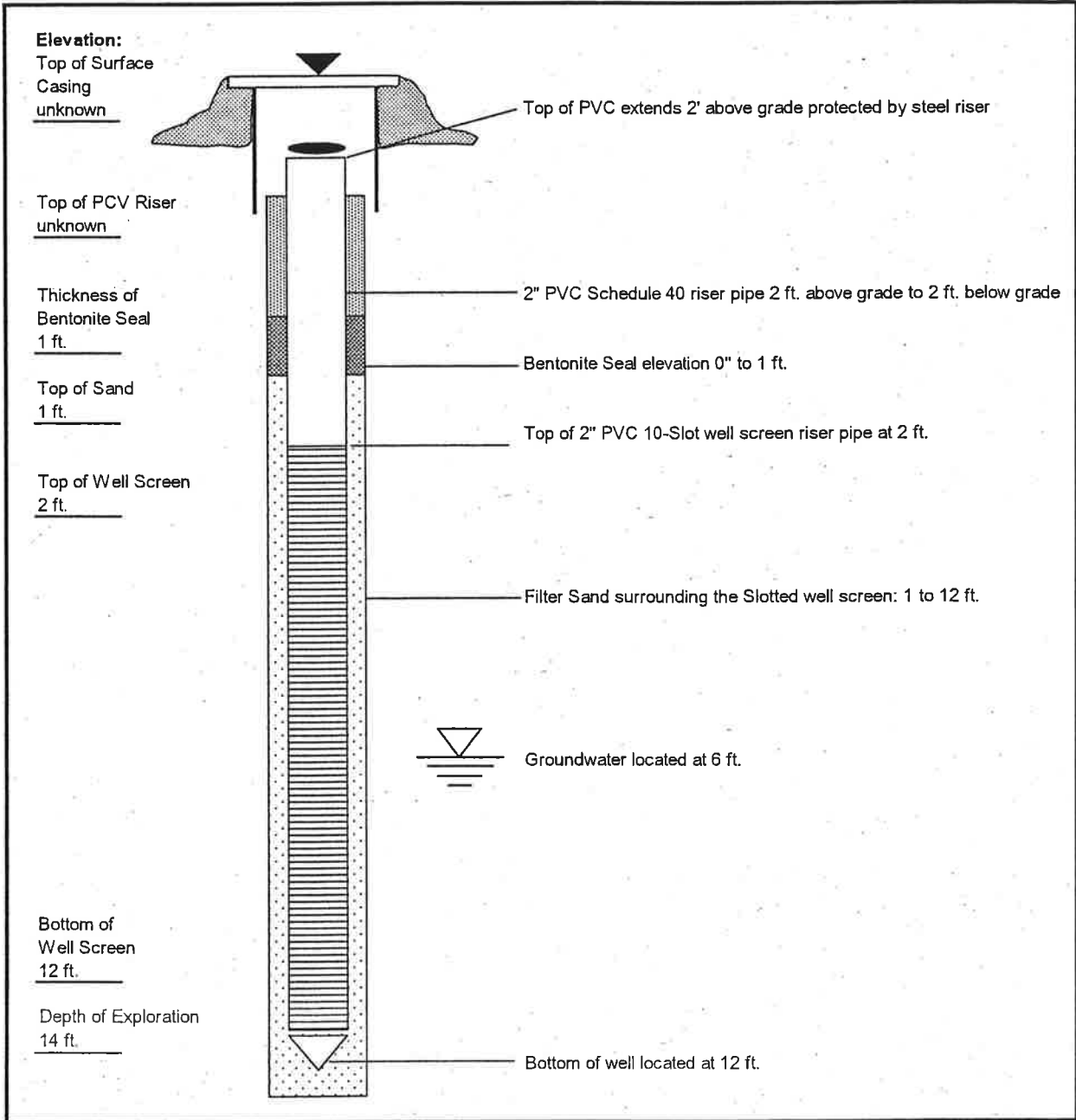
# VHB Monitoring Well Diagram

Project Name: New England Gas  
Location: 642 Allens Ave  
Providence, RI

Project No. 71274  
Contractor: Subsurface Drilling  
Scientist: K. Sullivan / A. Rosenblatt

Date: 15-Jan-02  
Well No. VHB-8  
GW Depth: Approx. 6 Feet

COULD NOT LOCATE 6/2010

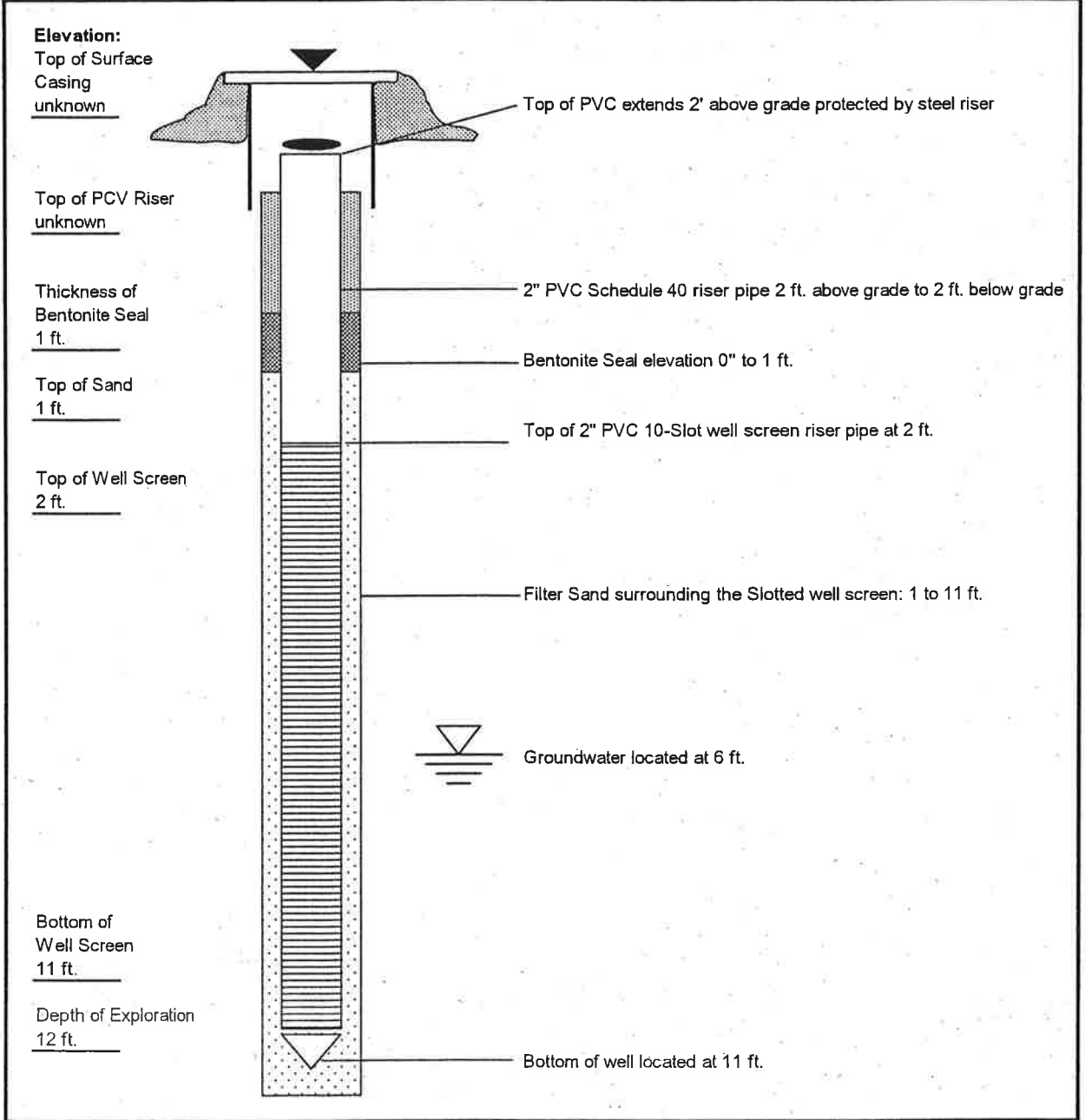


DAMAGED AT THE  
BASE - STAND PIPE  
N6 12/2009

# VHB Monitoring Well Diagram

Project Name: New England Gas Project No. 71274 Date: 15-Jan-02  
Location: 642 Allens Ave Contractor: Subsurface Drilling Well No. VHB-9  
Providence, RI Scientist: K. Sullivan / A. Rosenblatt GW Depth: Approx. 6 Feet

DAMAGED 6/2010





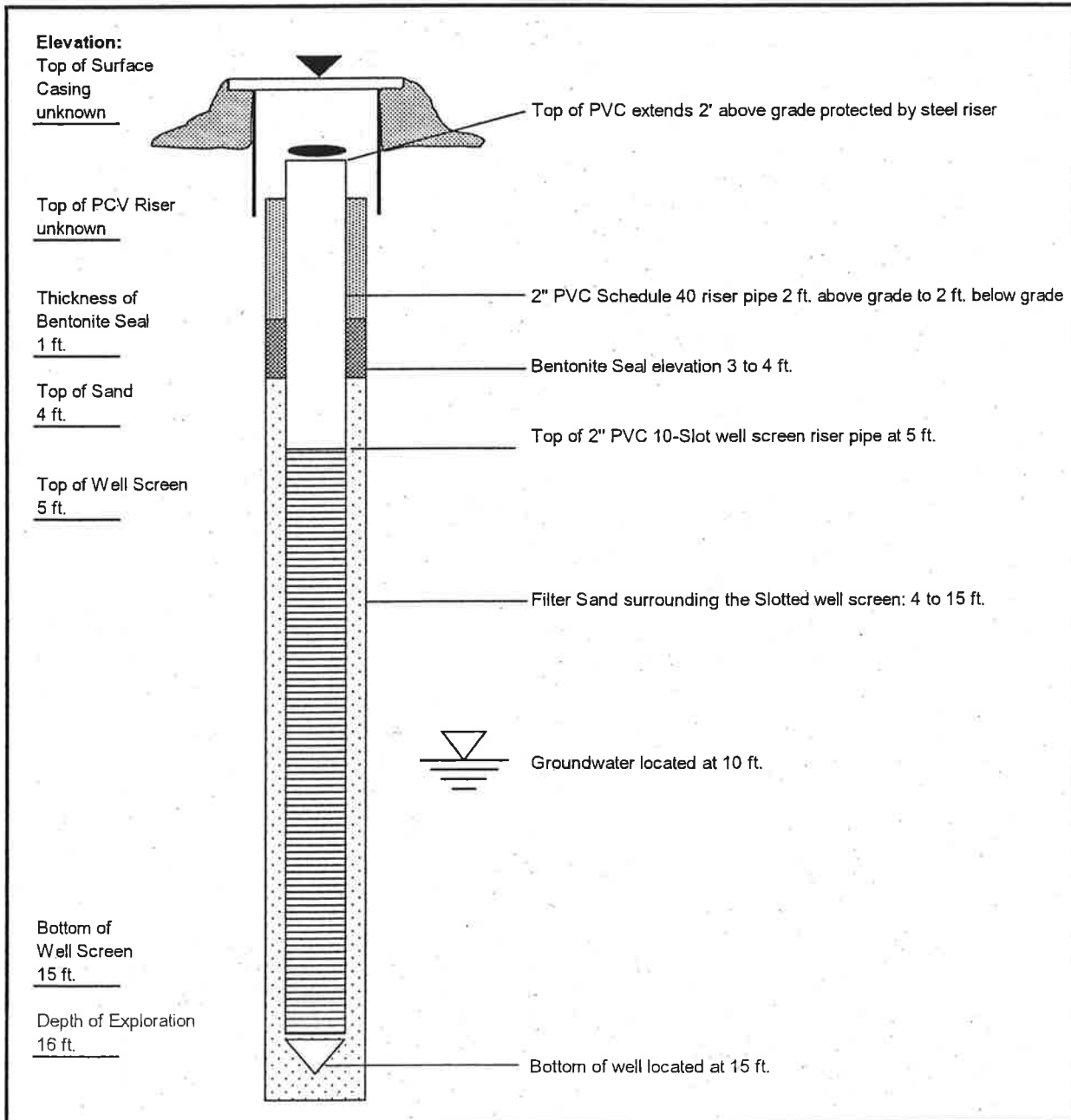
56

# VHB Monitoring Well Diagram

Project Name: New England Gas  
Location: 642 Allens Ave  
Providence, RI

Project No. 71274  
Contractor: Subsurface Drilling  
Scientist: K. Sullivan / A. Rosenblatt

Date: 15-Jan-02  
Well No. VHB-10  
GW Depth: Approx. 6 Feet



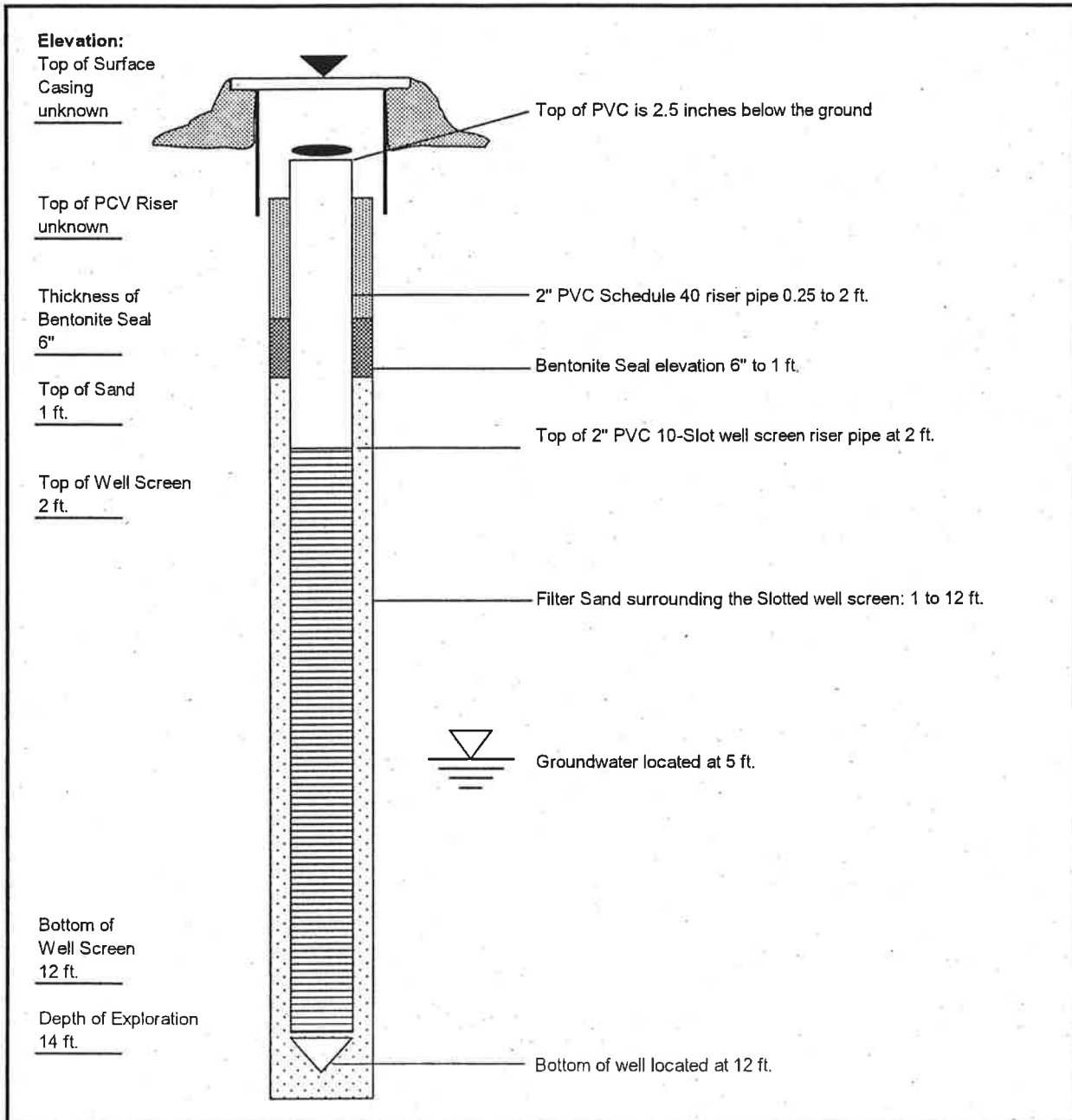
Cement

# VHB Monitoring Well Diagram

Project Name: New England Gas  
Location: 642 Allens Ave  
Providence, RI

Project No. 71274  
Contractor: Subsurface Drilling  
Scientist: K. Sullivan / A. Rosenblatt

Date: 16-Jan-02  
Well No. VHB-11  
GW Depth: Approx. 6 Feet



DESTROYED AS  
OF SEPT 2007

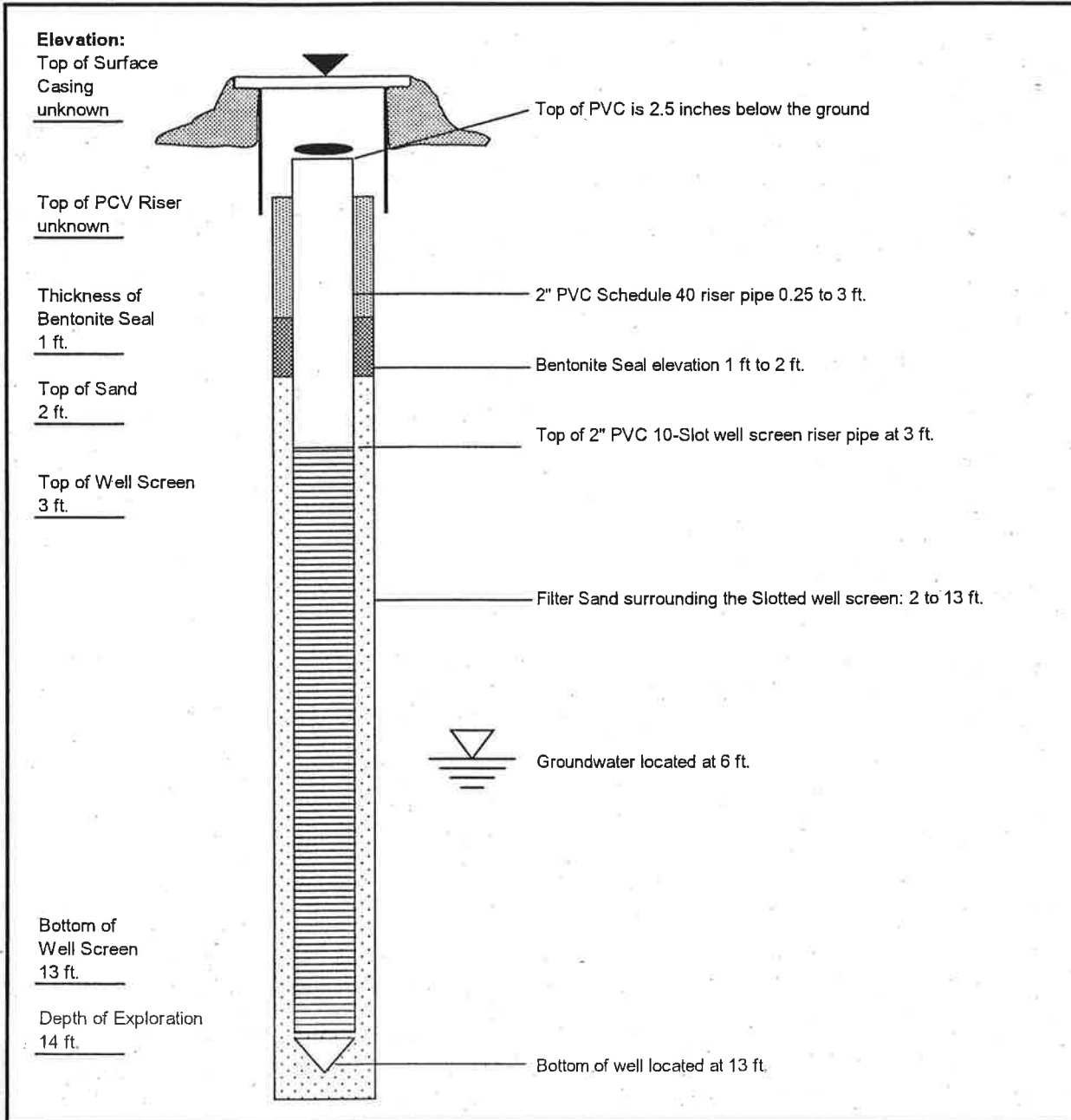
Cement

# VHB Monitoring Well Diagram

Project Name: New England Gas  
Location: 642 Allens Ave  
Providence, RI

Project No. 71274  
Contractor: Subsurface Drilling  
Scientist: K. Sullivan / A. Rosenblatt

Date: 16-Jan-02  
Well No. VHB-12  
GW Depth: Approx. 6 Feet



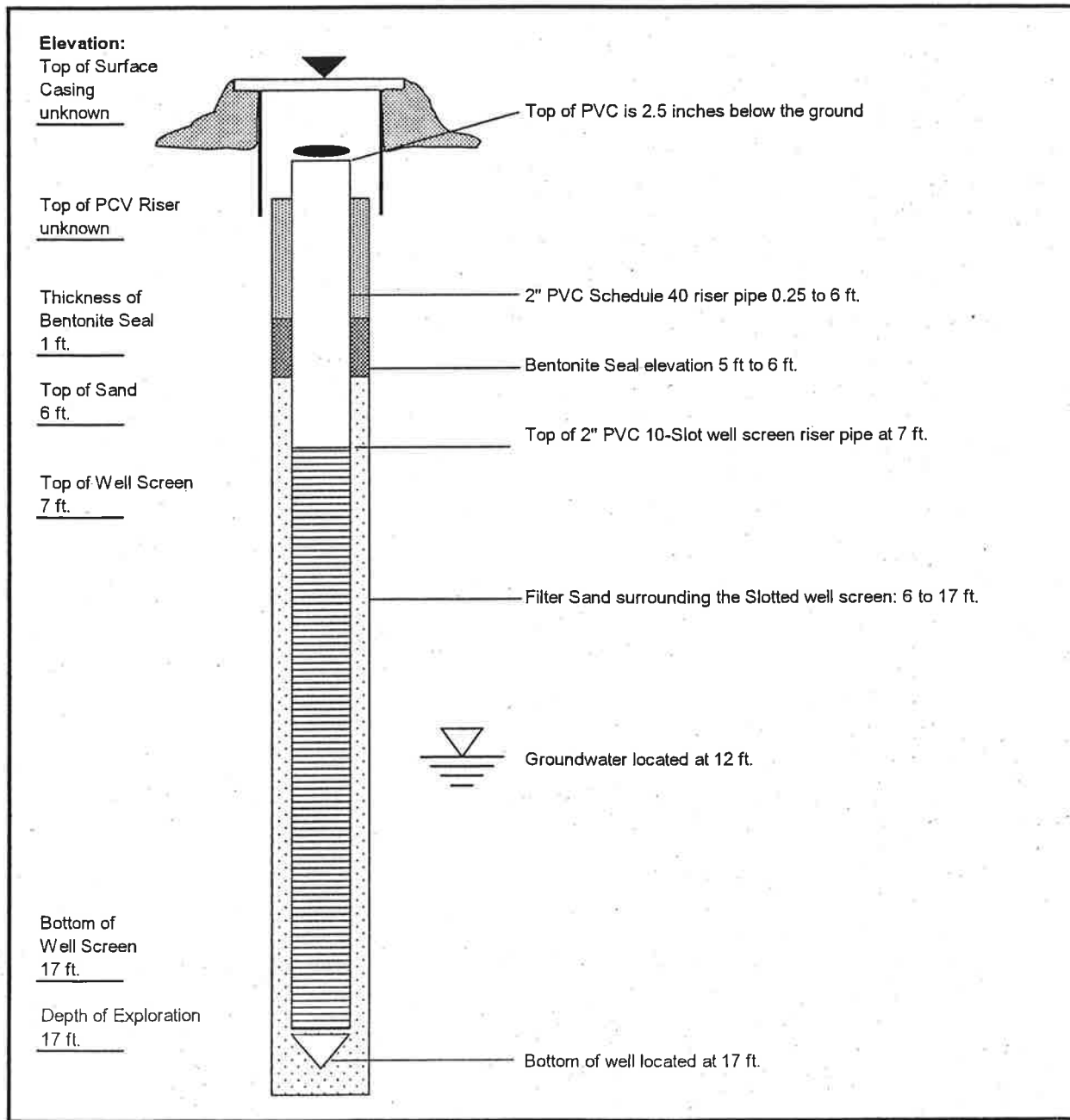
Cement

# VHB Monitoring Well Diagram

Project Name: New England Gas  
Location: 642 Allens Ave  
Providence, RI

Project No. 71274  
Contractor: Subsurface Drilling  
Scientist: K. Sullivan / A. Rosenblatt

Date: 16-Jan-02  
Well No. VHB-13  
GW Depth: Approx. 6 Feet



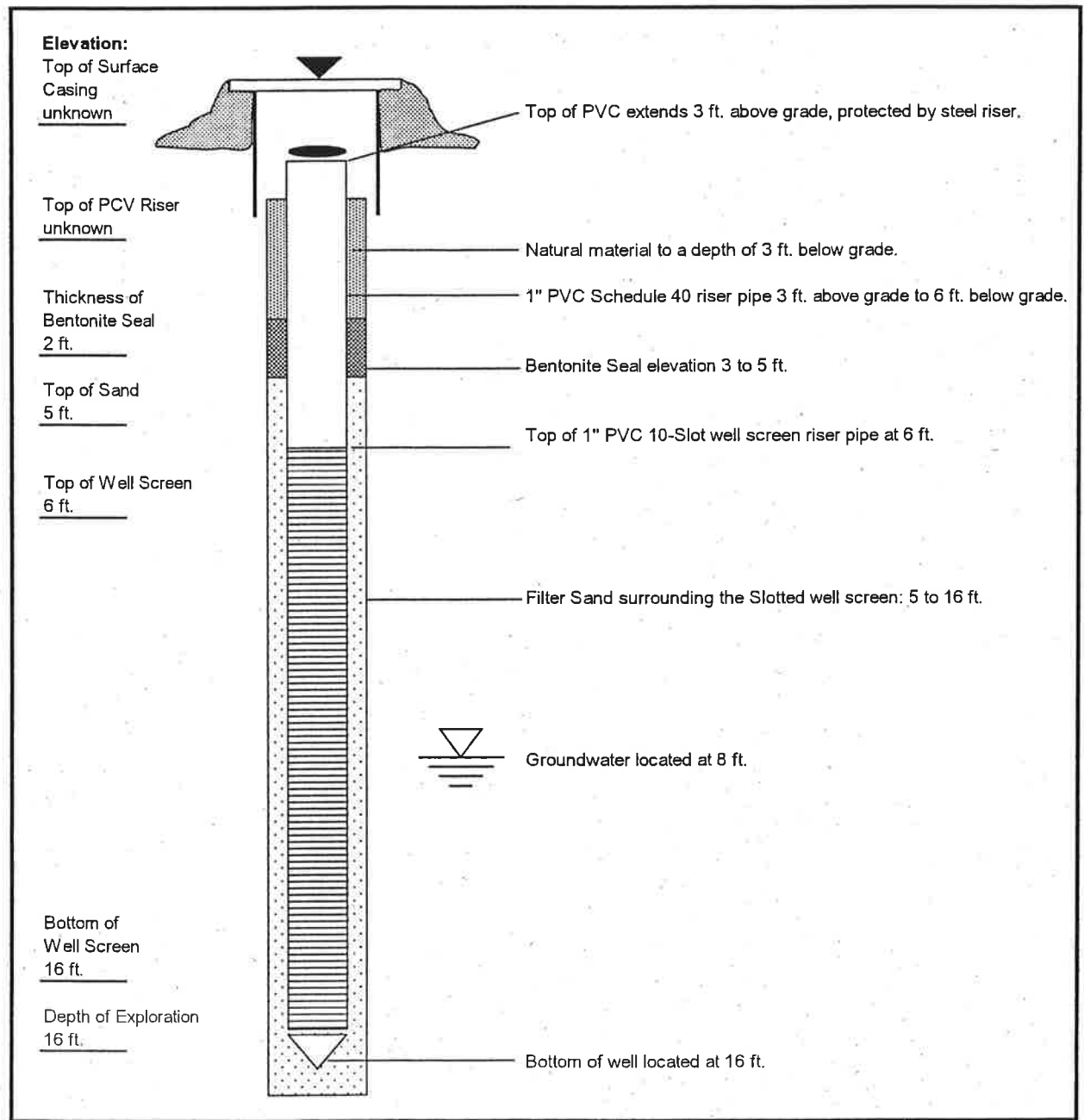
N6

# VHB Monitoring Well Diagram

Project Name: New England Gas  
Location: 642 Allens Ave  
Providence, RI

Project No. 71274  
Contractor: New England Geotech  
Scientist: C. Masse/C. Mazzolini

Date: 21-Jan-03  
Well No. VHB-18  
GW Depth: Approx. 8 Feet



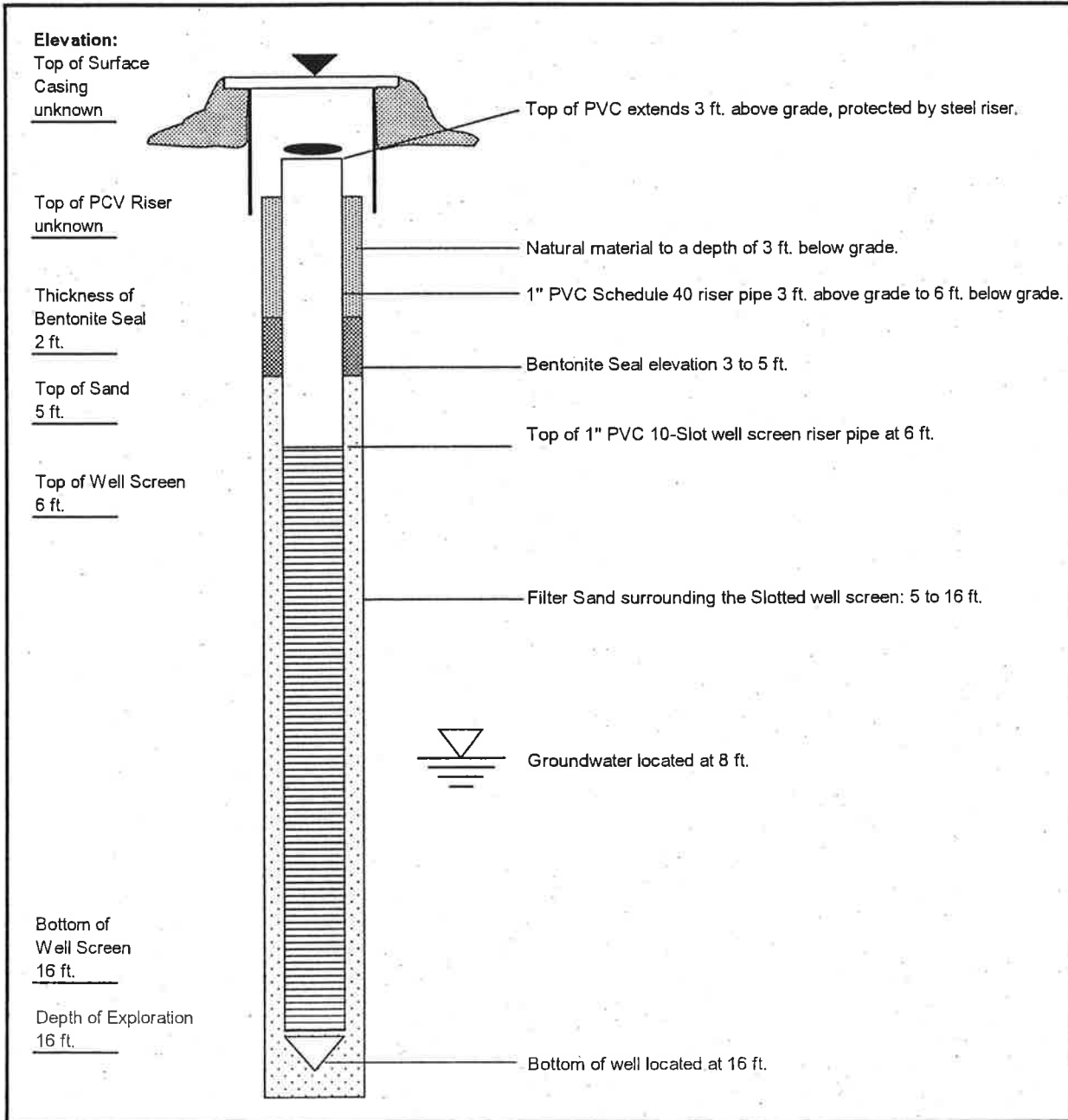
16

# VHB Monitoring Well Diagram

Project Name: New England Gas  
Location: 642 Allens Ave  
Providence, RI

Project No. 71274  
Contractor: New England Geotech  
Scientist: C. Masse/C. Mazzolini

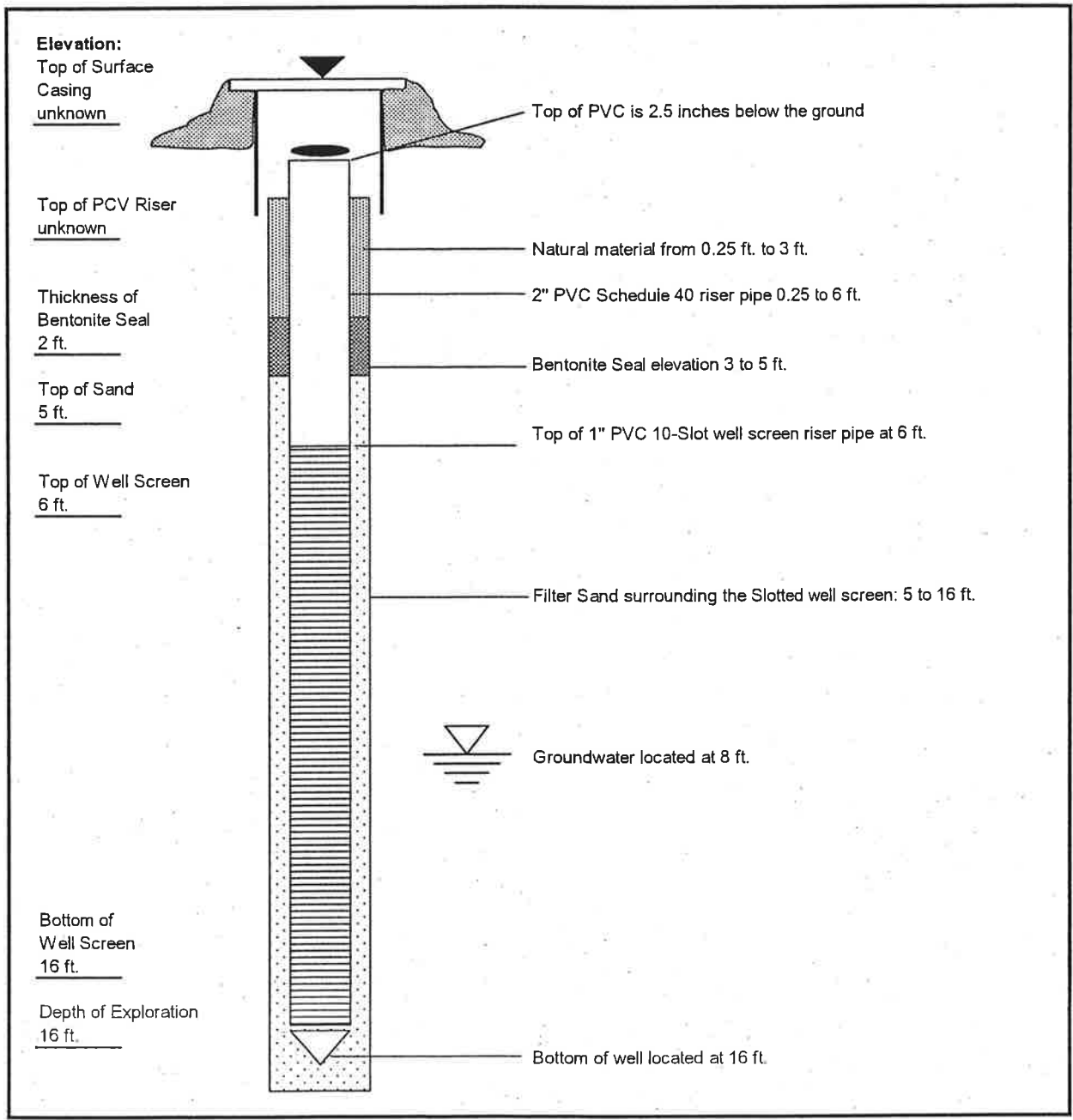
Date: 21-Jan-03  
Well No. VHB-19  
GW Depth: Approx. 8 Feet



LN6

# VHB Monitoring Well Diagram

Project Name: New England Gas Project No. 71274 Date: 22-Jan-03  
Location: 642 Allens Ave Contractor: New England Geotech Well No. VHB-20  
Providence, RI Scientist: C. Masse/C. Mazzolini GW Depth: Approx. 8 Feet



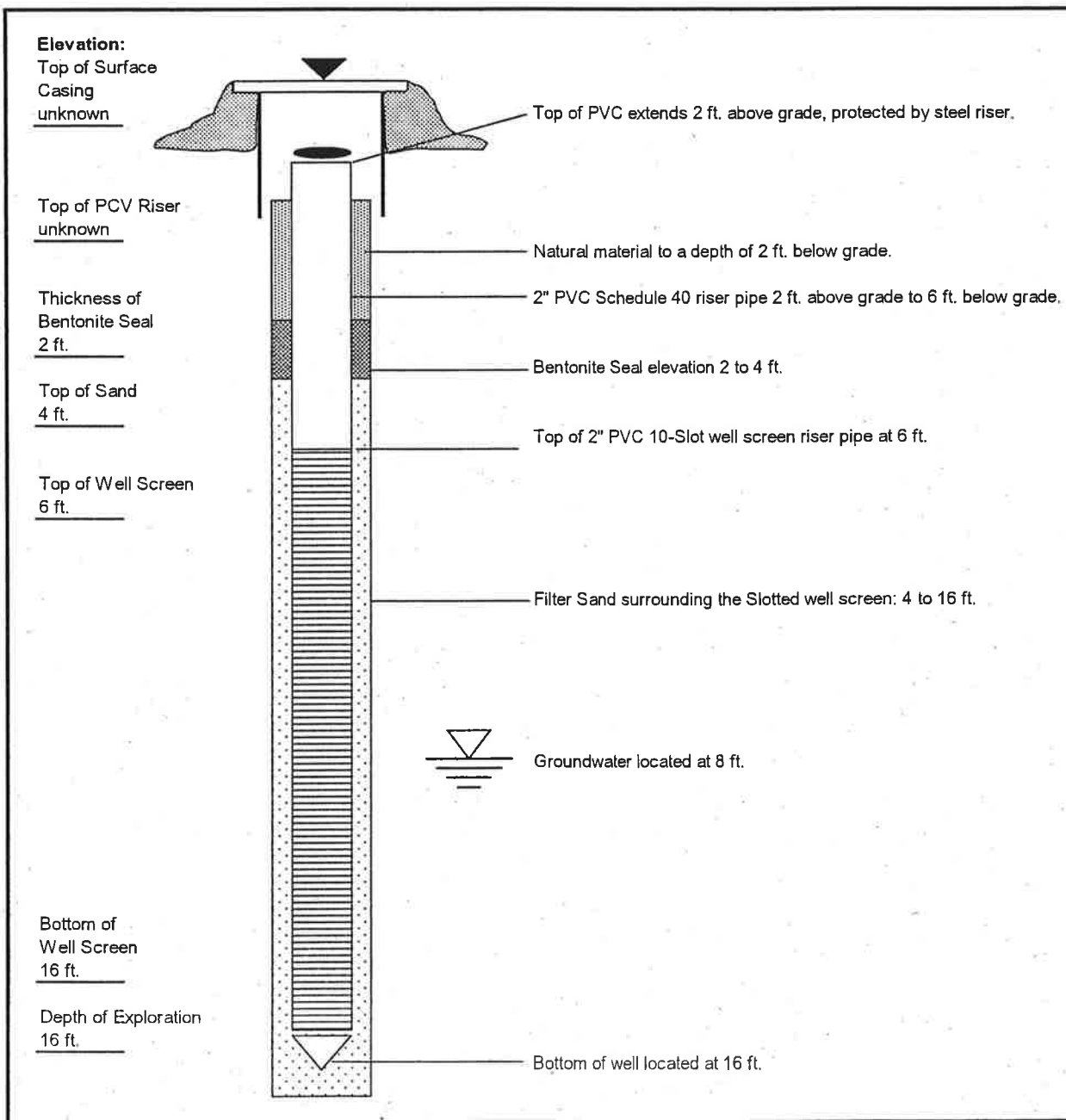
N6

# VHB Monitoring Well Diagram

Project Name: New England Gas  
Location: 642 Allens Ave  
Providence, RI

Project No. 71274  
Contractor: Subsurface Drilling  
Scientist: C. Masse/C. Mazzolini

Date: 28-Jan-03  
Well No. VHB-21  
GW Depth: Approx. 8 Feet





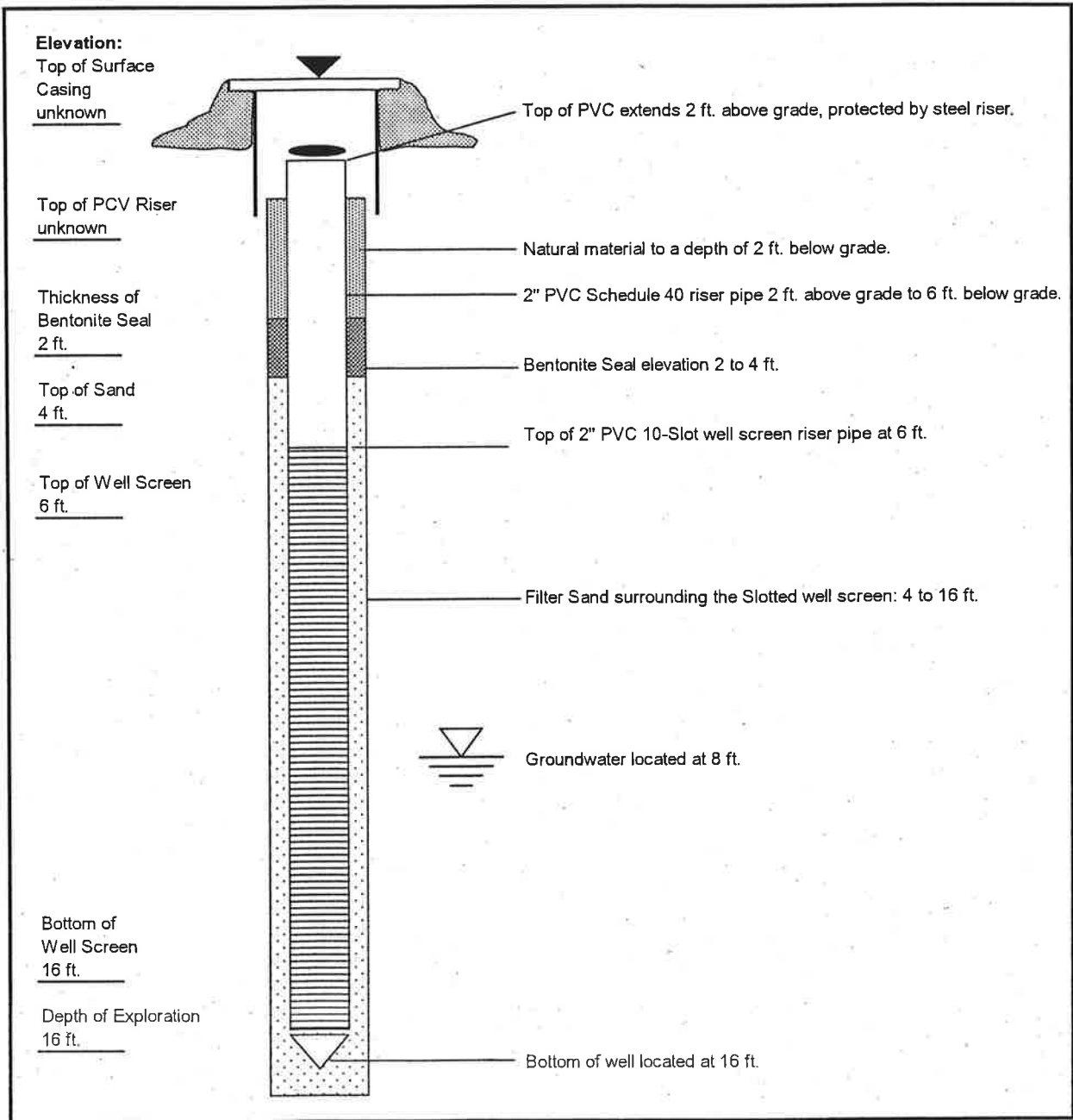
116

# VHB Monitoring Well Diagram

Project Name: New England Gas  
Location: 642 Allens Ave  
Providence, RI

Project No. 71274  
Contractor: Subsurface Drilling  
Scientist: C. Masse/C. Mazzolini

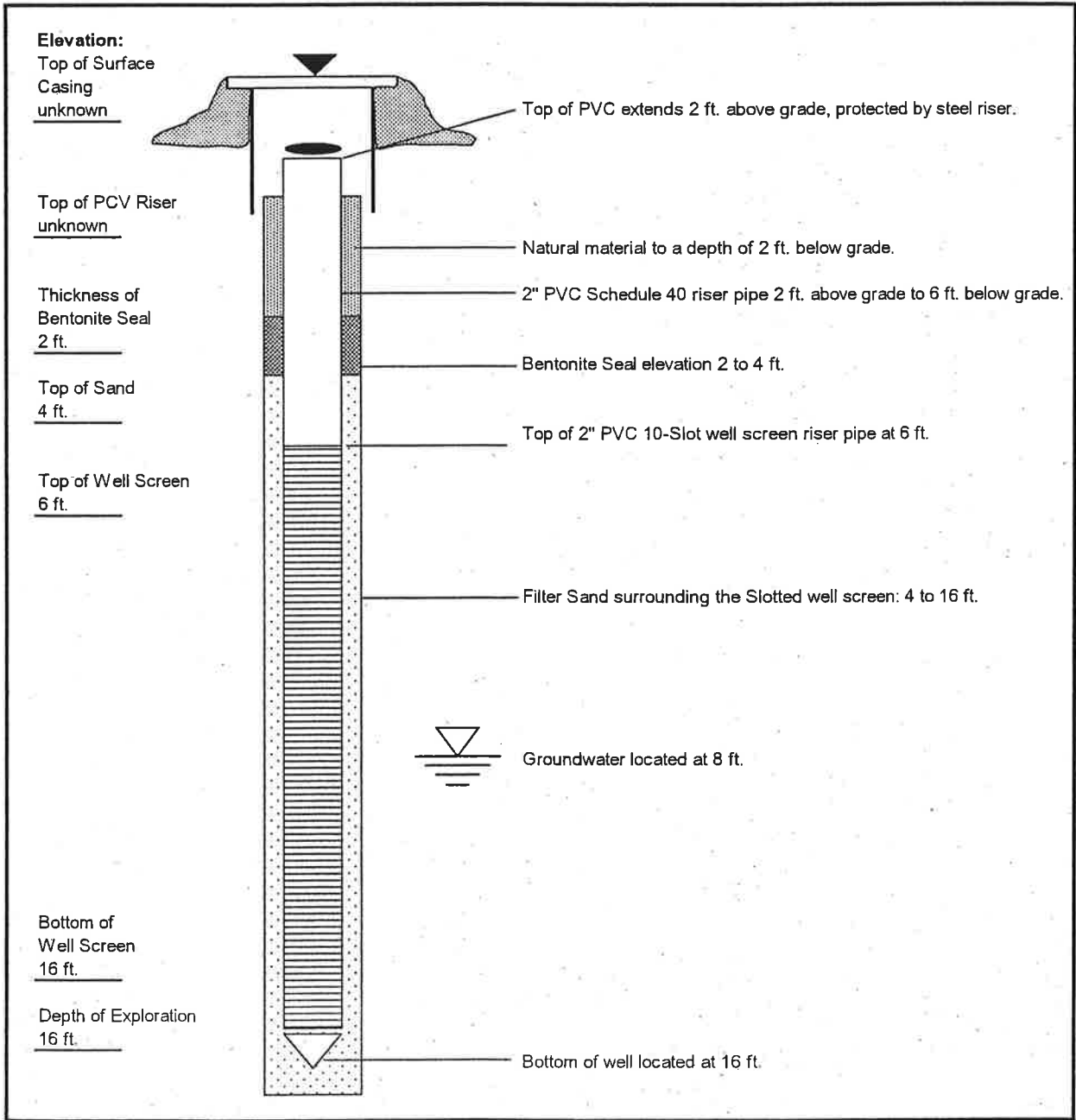
Date: 28-Jan-03  
Well No. VHB-22  
GW Depth: Approx. 8 Feet



N6

# VHB Monitoring Well Diagram

Project Name: New England Gas Project No. 71274 Date: 29-Jan-03  
Location: 642 Allens Ave Contractor: Subsurface Drilling Well No. VHB-23  
Providence, RI Scientist: C. Masse/C. Mazzolini GW Depth: Approx. 8 Feet



# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A01

Date: 2/3/00

Within 100' of Water: Yes

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.5'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0920	0.0	(0-19") F black sand, SO silt and/or ash; TR C sand, brick fragments at 13"; dry. (19-24") F/C tan sand with TR silt; dry.
B	2-4	33/48		0.0	(39-44") F/C tan sand, LI C gravel, TR silt. (44-72") F/C black ash and F/C gravel sized cinders, TR F gravel; porous cinders, TR F brown sand.
C	4-6		0930	0.0	
D	6-8	33/48		0.0	
E	8-10			0.0	(87-120") F/C black ash and F gravel sized cinders, LL porous cinders, TR F tan sand and silt; 2" layers of tan sand at 108" and at 114"; sand stained black. Wet at 114".
F	10-12				
G	12-14				

Comments:

**PROPORTIONS USED**

TRACE (TR) 0-10%  
LITTLE (LI) 10-20%  
SOME (SO) 20-35%  
AND 35-50%

**ABBREVIATIONS**

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

**Well Construction**

N/A

**DEPTH INTERVALS**

A = 0-24 in. G = 144-168 in.  
B = 24-48 in. H = 168-192 in.  
C = 48-72 in. I = 192-216 in.  
D = 72-96 in. J = 216-240 in.  
E = 96-120 in. K = 240-264 in.  
F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI ESS Job No: P151-002	Boring No.: A02
Driller.: Environmental Drilling, Inc.	Date: 2/3/00
Well Diameter: N/A	Within 100' of Water: Yes
Drilling Method: Geoprobe	Instrument: Thermo Environment Instruments, Inc., Model 580B OVM
Sample Method: 4' Acetate Sampler	Boring Depth: 10.0'
	Depth to Water: 9.8'
	Logged By: Jason Wiggan

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1030	0.0	(0-24") F/C black sand sized ash/cinder LI F gravel sized cinders root fragments, sandstone at 20"; dry.
B	2-4	31/48		0.0	(41-72") F/C black ash/cinder and F/C gravel sized cinders, TR sandstone at 43" and 46" (yellow); dry.
C	4-6		1040	0.0	
D	6-8	33/48		0.0	(72-120") F Black ash/cinders and fine gravel to orange/yellow and black cinders. Wet at 117".
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)            0-10%	F = FINE	N/A	A = 0-24 in.            G = 144-168 in.
LITTLE (LI)           10-20%	M = MEDIUM		B = 24-48 in.           H = 168-192 in.
SOME (SO)            20-35%	C = COARSE		C = 48-72 in.           I = 192-216 in.
AND                    35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.           J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.        K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.       L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: A03
ESS Job No: P151-002	Date: 3/2/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: Yes
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 10.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 8.8'
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	18/24	1400	0.0	(12-24") F/M brown sand and gravel; dry; no odor. (6-12") F/M brown sand with LI gravel and SO small/large black cinders with TR large white/black/gray cinders
B	2-4	34/48		0.0	(38-55") F/M brown sand and black cinder ash with SO gravel and SO black cinders; damp; no odor. (55-72") black cinder ash with SO multicolored (mostly white) porous cinders with SO gravel; damp; no odor.
C	4-6			0.0	
D	6-8	35/48		0.0	
E	8-10		1420	0.0	(85-97") F/M brown sand and gravel with SO multi-colored cinders ("porous") and cinder ash with LI small/M black cinders; dry; no odor. (97-120") multi-colored cinders (small/M) with SO black cinders (small/M) and SO black cinder ash; saturated with water; no odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		G = 144-168 in.
SOME (SO) 20-35%	C = COARSE		H = 168-192 in.
AND 35-50%	F/M = FINE TO MEDIUM		I = 192-216 in.
	F/C = FINE TO COARSE		J = 216-240 in.
	M/C = MEDIUM TO COARSE		K = 240-264 in.
			L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A04

Date: 3/2/00

Within 100' of Water: Yes

Instrument: Thermo Environmen.  
Instruments, Inc., Model 580B OVI

Boring Depth: 10.0'

Depth to Water: 9.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1430	0.0	(0-1") topsoil/gravel. (1-6") F dark brown sand with LI gravel; damp; no odor. (6-13") pulverized yellow brick (soft) (refractory brick?); damp; no odor. (13-24") F black cinder ash with SO (small/large) black cinders and TR brown sand and TR gravel; damp; no odor.
B	2-4	18/48		0.0	(54-60") F black cinder ash with SO gravel and SO small/M black cinders; dry; no odor. (60-72") mixture of gravel/yellow brick/SO F/M brown sand and gravel. (70-72") F brown sand; damp; no odor.
C	4-6		1445	0.0	
D	6-8	20/48		0.0	
E	8-10			0.0	(100-120") F/M brown sand and gravel with TR black cinders; wet at 114"; no odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A05

Date: 3/2/00

Within 100' of Water: Yes

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 8.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1455	0.0	(0-3") F/M dark topsoil/gravel; damp; no odor. (3-20") F/M brown sand and gravel with SO black cinder ash and SO F/C orange/black cinder ash with LI small/M/large cinders and TR yellow brick; dry; no odor. (20-24") F/C black cinder ash with LI black cinders (small/M); dry; no odor.
B	2-4	20/48		0.0	(44-48") F black cinder ash with SO (small/M) black cinders ; dry; no odor. (48-60") pulverized concrete and gravel; dry; no odor. (60-72") F/M black stained sand and cinder ash with SO gravel and SO black cinders; wet at 69"; no odor.
C	4-6			0.0	
D	6-8	34/48	1510	0.0	
E	8-10			0.0	(86-90") gray/black, loose sand; damp; no odor. (90-96") black cinder ash (F/C) with SO/small/large) black cinders; damp; no odor. (96-104") F brown silt and sand with TR gravel; saturated; no odor. (104-116") F/M brown sand and black cinders and TR gravel; sat; no odor. (116-120") F/M dark brown sand with SO black cinder ash; saturated with water; no odor.
F	10-12				
G	12-14				

**Comments:**  
Possible perched water table from tidal influences

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A06  
Date: 3/3/00  
Within 100' of Water: Yes  
Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 8.5'  
Logged By: Daryll Issa

Depth (Intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	17/24	0830	0.0	(7-8") topsoil/gravel. (8-13") loose black cinder ash; dry; no odor. (13-24") pulverized red brick with SO F/M brown sand and LI gravel; dry; no odor.
B	2-4	26/48		0.0	(46-58") small/large black cinders with SO gravel and SO black cinder ash and TR pulverized yellow brick; dry; no odor. (58-72") F/M brown sand with SO large black cinders; dry; no odor.
C	4-6			0.0	
D	6-8	40/48	0845	0.0	
E	8-10			0.0	(80- 93") F/M brown sand with TR small black cinders; dry; no odor. (93-100") F brown sand with LI gravel; damp; no odor. (100-107") F brown silt and sand with TR gravel; saturated with water; no odor. (107-120") small/M black cinders with LI gravel; saturated with water; no odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: A07  
 Date: 3/3/00  
 Within 100' of Water: Yes  
 Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
 Boring Depth: 10.0'  
 Depth to Water: 7.3'  
 Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0920	0.0	(0-24") F/M dark brown sand with SO gravel and TR small black cinders; dry; no odor.
B	2-4	44/48		0.0	(28-36") F/M brown sand and F loose cinder ash with TR gravel; dry; no odor. (36-72") F brown sand with LI black cinders and LI gravel; dry; no odor. SO silt at 55-72".
C	4-6			0.0	
D	6-8	43/48	0930	0.0	
E	8-10				(77-82") F/M brown sand and silt with SO F loose cinder ash; damp; no odor. (82-91") small/M black cinders with SO multi-colored cinders with SO cinder ash and TR gravel; saturated with water; no odor. (91-98") F brown sand with SO silt and TR gravel; saturated; no odor. (99-103") small/M black cinders with SO black cinder ash and TR gravel; saturated with water; no odor. (103-120") F/M brown sand and gravel with LI black cinders (small/M) and SO gray stained sand at 118"; saturated with water, petroleum odor at 118"-120").
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		G = 144-168 in.
SOME (SO) 20-35%	C = COARSE		B = 24-48 in.
AND 35-50%	F/M = FINE TO MEDIUM		H = 168-192 in.
	F/C = FINE TO COARSE		C = 48-72 in.
	M/C = MEDIUM TO COARSE		I = 192-216 in.
			D = 72-96 in.
			J = 216-240 in.
			E = 96-120 in..
			K = 240-264 in.
			F = 120-144 in.
			L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A08

Date: 3/3/00

Within 100' of Water: Yes

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1015	0.0	(0-6") pulverized gravel and asphalt. (6-22") F/C brown sand with SO gravel. (22-24") F silt with TR sand and TR gravel; saturated with water (from surficial runoff); no odor.
B	2-4	46/48		12.5	(26-30") F/M brown sand and gravel with LI small black cinders; dry; light petroleum odor. (30-36") F brown stained silt with LI gravel and SO large black cinders; wet; heavy petroleum odor. (36-57") F/M brown sand and black stained silt with LI small black cinders and TR gravel; dry; heavy petroleum odor. (57-72") F gray/black stained silt and sand with SO cinder ash and LI black cinders; dry; heavy petroleum odor.
C	4-6			13.4	
D	6-8	44/48	1035	40.5	(76-83") F/dense cinder ash with LI small black cinders and SO F/M brown sand; wet; heavy petroleum odor. (83-105") Small/M black cinders and cinder ash with SO F/M brown sand; damp; heavy petroleum odor. (105-120") F/black silt with LI black stained sand and SO cinder gray ash (dense); saturated at 114" with water; heavy petroleum odor; light sheen observed.
E	8-10			56.4	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
	F = FINE	(.15-7.0') PVC Solid Riser (7.0-12.0') PVC Screen One inch sump at 12.0'	A = 0-24 in. G = 144-168 in.
TRACE (TR)	0-10%		B = 24-48 in. H = 168-192 in.
LITTLE (LI)	10-20%		C = 48-72 in. I = 192-216 in.
SOME (SO)	20-35%		D = 72-96 in. J = 216-240 in.
AND	35-50%		E = 96-120 in. K = 240-264 in.
	M = MEDIUM		F = 120-144 in. L = 264-288 in.
	C = COARSE		
	F/M = FINE TO MEDIUM		
	F/C = FINE TO COARSE		
	M/C = MEDIUM TO COARSE		

## TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A09

Date: 2/4/00

Within 100' of Water: Yes

Instrument: Thermo Environmental  
Instruments, Inc., Model 5808 OVM

Boring Depth: 10.0'

Depth to Water: 9.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1500	0.0	(0-7") asphalt. (7-15") F/C brown sand with SO gravel; dry; no odor. (15-24") F/dark pink sand with TR silt; dry; no odor. (22-24") F/brown and orange sand with TR silt; dry; no odor.
B	2-4	48/48	1515	1.5	(24-32") F/brown to dark brown sand with SO yellow brick; dry; no odor. (32-53") F/M gray and brown sand with SO cinder ash and SO M cinders; dry; no odor. (53-60") F/brown sand with TR gravel; dry; no odor. (60-64") yellow brick. (64-72") F/M gray stained sand; dry; no odor.
C	4-6			0.0	
D	6-8	32/48		12.8	
E	8-10			42.0	(88-101") F/M black to dark brown/gray stained sand with SO gravel and SO black cinders; dry; no odor. (101-109") yellow stone (brick); dry; no odor. (109-120") F/black/gray stained sand and silt with SO black M/large cinders and cinder ash; saturated with water; heavy odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) LITTLE (LI) SOME (SO) AND	0-10% 10-20% 20-35% 35-50%	N/A	A = 0-24 in. B = 24-48 in. C = 48-72 in. D = 72-96 in. E = 96-120 in.. F = 120-144 in.
	F = FINE M = MEDIUM C = COARSE F/M = FINE TO MEDIUM F/C = FINE TO COARSE M/C = MEDIUM TO COARSE		G = 144-168 in. H = 168-192 in. I = 192-216 in. J = 216-240 in. K = 240-264 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Boring No.: A10

Date: 2/4/00

Within 100' of Water: Yes

Driller.: Environmental Drilling, Inc.

Instrument: Thermo Environment.  
Instruments, Inc., Model 580B OVM

Well Diameter: N/A

Boring Depth: 10.0'

Drilling Method: Geoprobe

Depth to Water: 8.0'

Sample Method: 4' Acetate Sampler

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1430	0.0	(0-24") F/M brown sand with SO gravel and TR black shiny cinders with LI silt; dry; no odor.
B	2-4	40/48		0.0	(32-40") F brown/black sand with TR silt and SO gravel and SO small black cinders; dry; no odor. (40-49") pulverized stone (white). (49-50") yellow brick (50-61") F/M black sand with SO gravel; dry; no odor. (61-66") F brown sand with TR gravel; dry; no odor. (66-72") F/C red/brown cinder ash; dry; no odor.
C	4-6			0.0	
D	6-8	35/48	1445	3.0	
E	8-10			10.5	(85-88") F/M brown/dark brown/black sand with SO gravel; dry; no odor. (88-94") F/M gray stained sand with SO gravel; dry; no odor. (94-120") pulverized stone with SO black cinder ash and TR F/M brown sand; saturated with water; heavy odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler


Boring No.: A11  
Date: 2/4/00  
Within 100' of Water: Yes  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 8.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1400	0.0	(0-2") gravel. (2-24") F/M brown sand and gravel with SO M/small black shiny cinders and LI gray silt throughout interval; dry; no odor.
B	2-4	40/48		0.0	(32-50") F/M brown/light brown/gray/black sand and gravel with SO M/large shiny black cinders; dry; no odor. (50-61") F/M brown/gray/black sand with SO cinder ash with TR black cinders; dry; no odor. (61-72") F black cinder ash with pulverized red brick and a porous stone; dry; no odor.
C	4-6			0.0	
D	6-8	36/48	1410	2.1	
E	8-10			13.5	(84-92") F/M brown/dark brown sand and gravel and red brick; dry; no odor. (92-100") F dark brown sand with SO gravel; damp; petroleum odor. (100-120") F gray/black sand and silt with SO gravel and SO M/large black cinders; saturated with water; heavy odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	(+2.5-4.0') PVC Solid Riser (4.0-9.0') PVC Screen One inch sump at 9.0'	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG

 <p>272 West Exchange Street, Suite 101 Providence, Rhode Island 02903 (401) 421-0398 Fax (401) 421-5731</p>					Site: Providence Gas Company 642 Allens Avenue, Providence, RI ESS Job No: P151-002		Boring No.: A12 Date: 3/3/00	
					Driller.: Environmental Drilling, Inc.		Within 100' of Water: Yes	
					Well Diameter: N/A		Instrument: Thermo Environmental Instruments, Inc., Model 580B OVI	
					Drilling Method: Geoprobe		Boring Depth: 10.0'	
					Sample Method: 4' Acetate Sampler		Depth to Water: 8.5' Logged By: Daryll Issa	
Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)			
A	0-2	24/24	1055	0.0	(0-4") F/M dark brown topsoil; dry; no odor. (4-20") F/M brown/dark brown sand with SO gravel and LI cinder ash and small black cinders with LI gray F sand; dry; light petroleum odor. (20-24") F/M brown/light gray sand with SO gravel; dry; light odor.			
B	2-4	44/48		0.0	(28-72") F/M brown/gray sand and gravel with SO small/large black cinders; dry; light unknown odor. (53-55") black cinder(s) (small/M) with SO cinder ash; dry; no odor.			
C	4-6			2.2				
D	6-8	38/48		13.4	(82-96") F/M gray/brown sand with LI gravel; dry; no odor. (96-120") F gray/black stained silt and sand with SO gravel; saturated at 100" - 120"; heavy petroleum odor, light sheen present from 96" - 120".			
E	8-10		1115	27.6				
F	10-12							
G	12-14							
<u>Comments:</u>								
<b>PROPORTIONS USED</b>		<b>ABBREVIATIONS</b>		<b>Well Construction</b>	<b>DEPTH INTERVALS</b>			
TRACE (TR)	0-10%	F = FINE		N/A	A = 0-24 in.			
LITTLE (LI)	10-20%	M = MEDIUM			G = 144-168 in.			
SOME (SO)	20-35%	C = COARSE			B = 24-48 in.			
AND	35-50%	F/M = FINE TO MEDIUM			H = 168-192 in.			
		F/C = FINE TO COARSE			C = 48-72 in.			
		M/C = MEDIUM TO COARSE			I = 192-216 in.			
					D = 72-96 in.			
					J = 216-240 in.			
					E = 96-120 in..			
					K = 240-264 in.			
					F = 120-144 in.			
					L = 264-288 in.			

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: A13
ESS Job No: P151-002	Date: 3/3/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: Yes
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 10.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 9.0'
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	22/24	1130	0.0	(2-20") F/M brown sand with LI gravel and LI small/large black cinders with TR cinder ash; dry; light odor of petroleum odor (0-24") F/M gray stained sand with LI gravel; dry; light petroleum odor.
B	2-4	45/48		0.0	(27-51") F/M brown/gray stained sand; dry; heavy odor unknown origin. (51-60") F/dense black cinder ash with SO small/large black cinders; dry; no odor. (60-72") F/M brown sand and silt with LI gravel; dry; no odor.
C	4-6			7.6	
D	6-8	40/48		0.0	
E	8-10		1150	27.2	(80-84") F brown/gray sand and cinder ash with TR gravel; dry; no odor. (84-102") F/M brown sand and gravel; dry; no odor. (102-120") F black/gray stained silt with SO gravel and SO F sand; saturated with water at 108"; heavy petroleum odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: A14
ESS Job No: P151-002	Date: 2/3/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: Yes
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVI
Drilling Method: Geoprobe	Boring Depth: 10.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 9.0'
	Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1115	0.0	(0-12") F/M brown sand with SO gravel and TR organic M/C sand at 3-5", TR silt. (12-24") F brown sand with SO silt and TR gravel and TR coal and ash throughout interval; dry except wet from 14-17".
B	2-4	46/48		0.0	(26-30") F reddish brown sand and silt; dry. (30-34") F/M gray sand with LI gravel and TR silt; dry. (34-38") F light tan, silty sand with black staining; dry. (38-45") F dark gray/brown sand and silt, black stained; dry; coal ash at 43-45". (45-55") yellow/green sandy silt, black staining; dry. (55-72") F green/gray sand and silt; dry. Petroleum odor.
C	4-6		1125	0.0	
D	6-8	34/48		1.7	(86-88") F green/gray coal ash; dry. (88-105") F yellow/brown silty sand; (105-120") F black stained sand and silt with LI gravel, mostly at 117-120", petroleum odor, sheen observed. Wet at 108"
E	8-10			4.7	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A15  
Date: 2/3/00  
Within 100' of Water: Yes  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.5'  
Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1150	9.5	(0-24") F/C brown sand, LI gravel, TR gray/green ash/dust at 6 and 17", TR coal ash/coal at 8" and 22".
B	2-4	48/48	1210	14.9	(24-50") F/M brown sand, TR gravel, TR silt; petroleum odor; dry. (50-72") F gray/brown silty sand; wet at 68".
C	4-6			17.6	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: A16  
 Date: 2/3/00  
 Within 100' of Water: Yes  
 Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVI  
 Boring Depth: 10.0'  
 Depth to Water: 9.5'  
 Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1350	6.8	(0-24") F/M brown sand with LI gravel and LI silt and TR coal ash throughout sample; damp.
B	2-4	40/48		0.0	(27-72") F/M brown sand with LI F/C gravel and LI silt with TR coal ash, TR yellow ash and sand at 44".
C	4-6			0.0	
D	6-8	45/48	1400	0.0	
E	8-10			0.0	(80-91") F/M brown sand with TR silt and TR coal ash; damp. (91-101") F/C yellow/brown sand with TR silt and TR gravel. (101-105") F/C green/gray sand and TR silt. (105-120") F black coal ash with SO gravel. Wet at 114".
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI)	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO)	C = COARSE		C = 48-72 in. I = 192-216 in.
AND	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A17  
Date: 2/3/00  
Within 100' of Water: Yes  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.7'  
Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1415	4.0	(0-13") F/M brown sand with LI gravel and TR silt; TR powder (white) at 7"; dry. (13-24") F/C gray dark black sand with SO coal ash and TR silt; dry.
B	2-4	37/48	1425	0.0	(35-46") F black sand and coal ash with TR silt; moist. (46-72") F/M brown sand with TR gravel and TR silt, TR coal ash, and black staining throughout. Wet at 66".
C	4-6			0.0	
D	6-8				
E	8-10				
	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A18  
Date: 2/3/00  
Within 100' of Water: Yes  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVI  
Boring Depth: 10.0'  
Depth to Water: 7.0'  
Logged By: Jason Wiggan

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1450	0.0	(0-24") F/C brown sand with SO F gravel, LI coal and coal ash, TR silt; dry.
B	2-4	43/48		0.0	(29-62") F brown sand, LI F/C gravel, TR silt, TR coal ash; damp. (62-72") F brown sand and silt; moist.  (80-84") F brown sand and silt; moist. (84-103") F gray/brown sand, TR silt, TR F/C gravel, black staining and slight petroleum odor; wet. (103-110") F/C brown sand with TR F gravel; wet. (110-120") F brown sand, LI silt, wet.
C	4-6		1500	0.0	
D	6-8	48/48		0.0	
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:  
Refusal of stone at 14'

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
		F = FINE	(+1.5-4.0') PVC Solid Riser (4.0-9.0') PVC Screen One inch sump at 9.0'	A = 0-24 in.	G = 144-168 in.
TRACE (TR)	0-10%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
LITTLE (LI)	10-20%	C = COARSE		C = 48-72 in.	I = 192-216 in.
SOME (SO)	20-35%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
AND	35-50%	F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A19

Date: 2/4/00

Within 100' of Water: Yes

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 7.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1330	0.0	(0-6") F/C brown sand and gravel; dry; no odor. (6-24") F/M brown sand and gravel with SO M shiny black cinders; dry; no odor.
B	2-4	46/48		0.0	(26-34") F/M black/dark brown sand and gravel with TR cinder ash; dry; no odor. (34-41") F/M black/orange stained sand with SO M orange/black cinders; dry; no odor. (41-72") F brown sand with TR gravel; dry; no odor.
C	4-6			0.0	
D	6-8	48/48	1345	0.0	
E	8-10			0.0	(72-84") F brown sand with TR gravel and black cinder ash; dry; no odor. (84-120") F brown sand with TR silt; saturated with water at 90"; dry; no odor.
	10-12				
G	12-14				

Comments:

### PROPORTIONS USED

TRACE (TR) 0-10%  
LITTLE (L) 10-20%  
SOME (SO) 20-35%  
AND 35-50%

### ABBREVIATIONS

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

### Well Construction

N/A

### DEPTH INTERVALS

A = 0-24 in. G = 144-168 in.  
B = 24-48 in. H = 168-192 in.  
C = 48-72 in. I = 192-216 in.  
D = 72-96 in. J = 216-240 in.  
E = 96-120 in. K = 240-264 in.  
F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A22

Date: 2/8/00

Within 100' of Water: Yes

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVI

Boring Depth: 10.0'

Depth to Water: 10.0'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0935	0.0	(0-24") F/M brown/gray sand, LI coal ash and cinders, LI gravel, TR silt; dry. (14-24") F/M black ash, TR C cinders; dry.
B	2-4	43/48		0.0	(29-33") black F/C ash, TR porous cinders. (33-72") brown F sand, LI silt. Wet at 120°.
C	4-6		0945	0.0	
D	6-8	12/48		0.0	(108-120") F/M brown sand, LI F/C black ash/cinders, TR silt.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



72 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A23  
Date: 2/8/00  
Within 100' of Water: Yes  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 8.0'  
Logged By: Jason Wiggan

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1000		(0-19") F/M brown/gray sand, SO black/gray ash, TR silt, TR brick at 16"; dry. (19-24") F/M black ash/cinders/coal; dry.
B	2-4	48/48			(24-34") F/M black ash/coal. (34-72") F brown sand, TR silt, LI F/M black ash/coal.
C	4-6		1010		
D	6-8	36/48			(84-88") F/M black ash and F/M brown sand, TR silt. (88-120") F brown sand, LI silt. Wet at 96".
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A24  
Date: 2/9/00  
Within 100' of Water: Yes  
Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVI  
Boring Depth: 10.0'  
Depth to Water: 7.5'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0915	0.0	(0-14") F/M brown sand with SO gravel; dry; no odor. (14-18") pulverized stone/concrete. (18-24") F/M brown sand and gravel; dry; no odor.
B	2-4	43/48		0.0	(29-36") black/orange/yellow, cinder ash with SO small/M dull black cinders; dry; no odor. (36-72") F light brown sand with TR gravel; dry; no odor.
C	4-6			0.0	
D	6-8	44/48	0940	0.0	(76-92") F brown sand with TR gravel; damp; no odor. (92-120") F brown sand with SO silt; saturated with water at 91"; no odor;
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A25  
Date: 2/8/00  
Within 100' of Water: Yes  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 9.5'  
Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0900	0.0	(0-20") F/M brown sand, LI gravel, TR silt; dry. (20-24") F/M black ash; dry.
B	2-4	38/48		0.0	(24-35") F/C black ash/cinders, LI F/M brown/ yellow/brown sand, TR silt. (35-72") F/M brown sand, LI gravel, TR silt.
C	4-6			0.0	
D	6-8	48/48	0915	0.0	
E	8-10			0.0	(82-86") F/C brown sand, TR silt. (86-89") black F/M ash; dry. (89-120") F/M brown sand, TR F gravel, TR silt; wet at 114".
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (L)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A26

Date: 2/8/00

Within 100' of Water: Yes

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 7.0'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	13/24	1115	0.0	(13-24") F/C brown sand, TR silt, TR F gravel.
B	2-4	34/48		0.0	(38-41") F/C brown sand, TR silt, TR F gravel. (41-63") F/M brown sand and F/C ash/coal/cinder, TR gravel, TR silt, TR wood fragments at 44"; dry. (63-70") F/M brown sand, TR silt, slightly stained black; dry.
C	4-6			0.0	
D	6-8	39/48	1125	0.0	
E	8-10			0.0	(81-84") F gray sand, SO silt; dry. (84-88") F black ash; dry. (88-92") F brown sand and silt; wet. (92-120") F brown sand, TR F gravel, TR silt, wet.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A27

Date: 2/8/00

Within 100' of Water: Yes

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.8'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1035	0.0	(0-24") F/C brown sand, TR F gravel, TR silt, TR black coal/ash at 20-24"; dry.
B	2-4	41/48		0.0	(31-69") F/C black ash/coal/cinders; dry. (69-72") F/M brown sand, LI F/C black ash/coal/cinders, TR silt; moist.
C	4-6		1050	0.0	
D	6-8	24/48		0.0	(96-109") F/C black coal/ash, SO brown F sand, TR silt. (109-120") F brown sand, TR silt, wet.
E	8-10				
F	10-12				
G	12-14				

**Comments:**

(0-2') Duplicate sample collected at 1040 from A.  
(2-6') Duplicate sample collected at 1055 from C.

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A28

Date: 2/8/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.8'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1145	0.0	(0-20") F/C brown sand, TR silt. (20-24") F/M black sand, TR silt, TR F gravel, TR F coal; dry.
B	2-4	48/48		0.0	(24-48") F/C black ash/coal/cinders, LI F/M brown sand, TR silt. (48-72") F/M brown sand, TR F gravel, TR silt, black staining at approximately 53-58".
C	4-6		1200	0.0	
D	6-8	30/48		0.0	(72-76") F/C black ash/coal/cinder, LI F/M brown sand, TR silt. (76-120") F brown sand, TR F gravel, TR silt; wet at 108".
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company	Boring No.: A29
642 Allens Avenue, Providence, RI	Date: 2/9/00
ESS Job No: P151-002	Within 100' of Water: No
Driller.: Environmental Drilling, Inc.	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Well Diameter: N/A	Boring Depth: 10.0'
Drilling Method: Geoprobe	Depth to Water: 9.0'
Sample Method: 4' Acetate Sampler	Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0850	0.0	(0-24") F/M light brown sand, SO gravel, TR white ash, TR silt; dry; no odor.
B	2-4	44/48		0.0	(28-34") F/M brown/gray sand, TR silt; damp. (34-72") F/M brown/light brown sand, LI gravel, LI F/M black coal/ash/cinders, TR silt; dry; no odor.
C	4-6			0.0	
D	6-8	43/48	0900	0.0	(77-85") F brown/gray sand, TR silt; damp. (85-112") F light brown sand, TR silt; damp. (112-120") F/M light brown sand, TR silt; wet; no odor;
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)            0-10%	F = FINE	N/A	A = 0-24 in.            G = 144-168 in.
LITTLE (LI)          10-20%	M = MEDIUM		B = 24-48 in.          H = 168-192 in.
SOME (SO)            20-35%	C = COARSE		C = 48-72 in.          I = 192-216 in.
AND                    35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.          J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in..        K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.        L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A30

Date: 2/9/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0845	0.0	(0-11") crush stone with SO F/M brown sand and SO gravel; dry; no odor. (11-24") F/M sand and gravel with SO black cinder ash and black cinders in interval; dry; no odor.
B	2-4	40/48		0.0	(32-34") F/C brown sand with SO gravel; dry; no odor. (34-48") F black stained orange/brown sand with SO cinder ash and SO small shiny cinders; dry; no odor. (48-72") F brown/light brown sand with TR gravel; dry; no odor.
C	4-6			0.0	
D	6-8	28/48		0.0	
E	8-10		0900	0.0	(92-98") F/M brown sand with SO loose black cinder ash; dry; no odor. (98-109") F brown sand with SO gravel; dry; no odor. (109-112") pulverized stone; wet. (112-120") F sand and silt with TR gravel; saturated with water; no odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A31

Date: 2/8/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.0'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1340	0.0	(0-12") F brown sand, TR silt, TR gravel. (12-24") F/C brown sand, TR silt; dry.
B	2-4	37/48		0.0	(35-40") F/C brown sand, TR silt; dry. (40-50") F/C black coal/ash. (50-72") F brown sand, SO silt, TR C sand.
C	4-6			0.0	
D	6-8	36/48	1350	0.0	
E	8-10			0.0	(84-88") F/C brown sand, TR silt; dry. (88-96") F/C black coal/ash/cinders; damp. (96-120") F brown sand; LI silt; wet at 108".
	10-12				
G	12-14				

Comments:

**PROPORTIONS USED**

TRACE (TR) 0-10%  
LITTLE (LI) 10-20%  
SOME (SO) 20-35%  
AND 35-50%

**ABBREVIATIONS**

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

**Well Construction**

N/A

**DEPTH INTERVALS**

A = 0-24 in. G = 144-168 in.  
B = 24-48 in. H = 168-192 in.  
C = 48-72 in. I = 192-216 in.  
D = 72-96 in. J = 216-240 in.  
E = 96-120 in.. K = 240-264 in.  
F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A32

Date: 2/9/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVI

Boring Depth: 10.0'

Depth to Water: 9.8'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0950	0.0	(0-5") F/M dark gray sand, TR silt, damp, red staining. (5-11") F/C tan/light brown sand, TR silt, orange (O2) apparent at 7"; dry; black staining at 13-16" and at approximately 24". (11-24") F/C brown sand, LI F/M gravel, TR silt, TR coal ash at 13"; dry; no odor.
B	2-4	46/48		0.0	(26-40") F/M brown sand, LI F gravel; LI black ash/coal, staining, TR silt; no odor; TR light gray dust/ash; dry. (40-60") light brown/gray sand and F gravel or broken concrete, LI gray ash; dry. (60-72") F/M brown sand, LI C gravel, TR silt; dry; no odor.
C	4-6			0.0	
D	6-8	45/48		0.0	
E	8-10		1000	0.0	(75-81") F brown sand, LI silt, black staining, TR black coal/ash. (81-92") light gray, broken concrete with dark specks. (92-100") F/C light brown/gray sand, LI broken concrete, TR silt, TR black ash/coal bits. (100-110") light gray broken concrete with dark specks. (110-120") F/M brown sand, SO black stained sand with ash/coal; wet; no odor; water table at 117".
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: A33
ESS Job No: P151-002	Date: 2/8/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 10.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 6.8'
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1530	0.0	(0-16") F/M brown sand with SO gravel; dry; no odor. (16-19") F/M light brown sand with SO gravel; dry; no odor. (19-24") F/M black cinder ash and small/M, black cinders; dry; no odor.
B	2-4	46/48		0.0	(26-34") F/M black cinder ash with SO, M/large black cinders; dry; no odor. (34-72") F brown sand with SO areas of black sand; dry; no odor.
C	4-6		1545	0.0	
D	6-8	26/48		0.0	(94-120") F brown sand and silt with TR gravel and TR black cinder ash; saturated with water; no odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)            0-10%	F = FINE	N/A	A = 0-24 in.            G = 144-168 in.
LITTLE (LI)           10-20%	M = MEDIUM		B = 24-48 in.           H = 168-192 in.
SOME (SO)            20-35%	C = COARSE		C = 48-72 in.           I = 192-216 in.
AND                    35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.           J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.          K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.        L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A34

Date: 2/8/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 3.0'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1510	0.0	(0-24") F/C brown sand, LI F/C gravel; TR silt; dry.
B	2-4	36/48		0.0	(36-40") F/C brown sand, TR silt; wet (40-48") F/M brown sand and F/M coal/ash/cinder. (48-72") F brown sand, LI silt.
C	4-6		1525	0.0	
D	6-8	36/48		0.0	(84-120") F brown sand, LI silt; wet.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



2 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: A35  
 Date: 2/8/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
 Boring Depth: 6.0'  
 Depth to Water: 6.0'  
 Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1400	0.0	(0-2") topsoil. (2-24") F/M brown sand with SO gravel and SO shiny cinder ash with LI black shiny cinders; dry; no odor.
B	2-4	36/48		0.0	(36-38") F/M gray/brown sand with SO gravel; dry; no odor. (38-72") F brown sand with TR black sand/ash with SO gravel; damp; no odor.
C	4-6		1410	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI ESS Job No: P151-002	Boring No.: A36 Date: 2/8/00 Within 100' of Water: No
Driller.: Environmental Drilling, Inc.	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Well Diameter: N/A	Boring Depth: 10.0'
Drilling Method: Geoprobe	Depth to Water: >10.0'
Sample Method: 4' Acetate Sampler	Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (In.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1425	0.0	(0-24") F/M brown sand, TR gravel, TR silt.
B	2-4	32/48		0.0	(35-72") F/C brown sand, LI F/C gravel, TR black F/C coal ash/cinders, TR silt, orange soil at 47" and 66", TR porous cinders.
C	4-6			0.0	
D	6-8	37/48		0.0	(88-100") F/C brown sand, LI F gravel, TR black F coal/ash, TR silt; dry. (100-105") C gray gravel. (105-120") F/C brown sand, LI F gravel, TR F black coal/ash, TR silt; dry.
E	8-10		1435	0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)                    0-10%	F = FINE	N/A	A = 0-24 in.                    G = 144-168 in.
LITTLE (LI)                    10-20%	M = MEDIUM		B = 24-48 in.                    H = 168-192 in.
SOME (SO)                    20-35%	C = COARSE		C = 48-72 in.                    I = 192-216 in.
AND                                35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.                    J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.                  K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.                  L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A37  
Date: 2/17/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 9.5'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1445	0.0	(0-4") F/M brown sand, roots, SO small rounded stone. (4-10") M brown sand with large powdered gravel. (10-20") F black cinder ash, mixed with M brown sand, M/large gravel. (20-24") poorly sorted orange/brown sand with small/large rounded gravel.
B	2-4	20/48		0.0	(52-56") F black cinder ash with M brown sand. (56-66") M brown sand with small/M rounded gravel. (66-72") concrete bits and white concrete powder.
C	4-6		1500	0.0	
D	6-8	18/48		0.0	(102-120") poorly sorted brown M/C sand with small/large rounded gravel; wet at 115".
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

**PROPORTIONS USED**

TRACE (TR) 0-10%  
LITTLE (L) 10-20%  
SOME (SO) 20-35%  
AND 35-50%

**ABBREVIATIONS**

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

**Well Construction**

N/A

**DEPTH INTERVALS**

A = 0-24 in. G = 144-168 in.  
B = 24-48 in. H = 168-192 in.  
C = 48-72 in. I = 192-216 in.  
D = 72-96 in. J = 216-240 in.  
E = 96-120 in. K = 240-264 in.  
F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A38

Date: 2/9/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVI

Boring Depth: 10.0'

Depth to Water: 9.8'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1020	0.0	(0-4") F/C brown/yellow sand; dry; no odor. (4-20") F/M brown sand with SO blue/green stained sand and gravel throughout interval. (20-24") black cinder ash with SO F brown sand; dry; no odor.
B	2-4	41/48		0.0	(31-55") F/M brown sand and gravel; dry; no odor. (55-72") F brown sand with SO gravel; dry; no odor.
C	4-6	41/48		0.0	
D	6-8	20/48		0.0	(92-120") F/M brown/light brown sand and gravel with TR blue/green stained sand; wet at 120"; no odor.
E	8-10		1045	0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A39

Date: 2/17/00

Within 100' of Water:

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth:

Depth to Water:

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2				Refusal. No samples recovered.
B	2-4				
C	4-6				
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	(+1.0-3.0') PVC Solid Riser (3.0-8.0') PVC Screen One inch sump at 8.0'	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE	F = 120-144 in.	L = 264-288 in.	

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A40

Date: 2/8/00

Within 100' of Water: No

Instrument: Thermo Environment.  
Instruments, Inc., Model 580B OVI

Boring Depth: 14.0'

Depth to Water: 12.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1445	0.0	(0-2") topsoil. (2-13") F/M brown sand with SO gravel and TR small black cinders (specks); dry; no odor. (13-17") F/M tan sand with TR gravel; dry; no odor. (17-20") F/M brown sand with SO gravel; dry; no odor. (20-24") F/C black cinder ash with SO large F/C cinders; dry; no odor.
B	2-4	38/48		0.0	(34-38") F brown sand, SO silt, TR F gravel. (38-42") F/C black coal/ash/cinders. (42-72") F/C brown sand, TR silt.
C	4-6			0.0	
D	6-8	28/48		0.0	
E	8-10			0.0	(92-98") F/M brown sand, TR silt. (98-100") F/M black ash/coal. (100-115") F brown sand, TR silt. (115-118") C gray gravel. (118-120") F brown sand, TR silt.
F	10-12	40/48	1455		
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A42

Date: 2/9/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.5'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1105	0.0	(0-19") F/C brown sand, LI F gravel, TR black coal/ash, black staining, TR silt. (21-24") F/C brown sand, LI F gravel, TR black coal/ash, black staining, TR silt.
B	2-4	43/48		0.0	(39-47") F/M brown sand, LI F/C gravel, TR C sand, TR silt, TR black coal/ash and black staining; dry; no odor. (47-51") white (quartz) gray F/C gravel; dry; no odor. (51-62") F light brown sand, LI F/C gravel, TR C sand, TR silt, TR black staining; dry; no odor. (62-72") F tan sand, LI silt, TR C sand; dry; no odor.
C	4-6			0.0	
D	6-8	32/48		0.0	
E	8-10		1120	0.0	(88-96") F/C brown sand, SO F gravel, TR silt, TR black staining/ash; dry; no odor. (96-98") F/M brown sand and C gray gravel; dry; no odor. (98-105") F tan sand, TR silt, TR C sand, F/M gravel. (105-120") F/C brown sand, LI F/C gravel, TR silt; wet at 112"; no odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.
	F/C = FINE TO COARSE		E = 96-120 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.
			G = 144-168 in.
			H = 168-192 in.
			I = 192-216 in.
			J = 216-240 in.
			K = 240-264 in.
			L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A43  
Date: 2/17/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVI  
Boring Depth: 10.0'  
Depth to Water: 8.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1420	0.0	(0-6") pulverized stone/gravel/wet topsoil. (6-24") F/M dark brown/brown sand with SO gravel; dry; no odor.
B	2-4	31/48		0.0	(41-56") F/M dark brown sand with SO gravel; dry; no odor. (56-72") F/M brown sand and gravel; dry; no odor.
C	4-6		1440	0.0	
D	6-8	48/48		0.0	(105-120") F/M sand and silt with LI gravel; wet; no odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A44  
Date: 2/17/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 14.0'  
Depth to Water: 12.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1330	0.0	(0-4") M/C brown sand. (4-8") black cinder ash with black cinder ash stone. (8-24") poorly sorted F/C brown sand with M/large gray gravel, coal bits, cinder ash and brick throughout the interval.
B	2-4	36/48		0.0	(36-40") poorly sorted F/C brown sand with M/large gray gravel, coal bits, cinder ash and brick throughout. (40-41") stone with orange M sand. (41-48") poorly sorted dark brown sand with black cinder ash and small/M gravel. (48-56") very C orange/brown sand. (56-72") poorly sorted orange/brown sand with small/M gravel, cinder ash; (56-62") gravel sand at 66-68.
C	4-6		1350	0.0	
D	6-8	36/48		0.0	(84-120") very C brown/orange sand, loose LI stone at 116".
E	8-10			0.0	
F	10-12	38/48		0.0	
G	12-14	38/48		0.0	(130-168") poorly sorted, very C orange/brown sand; saturated at 144".

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A45

Date: 2/9/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 14.0'

Depth to Water: 12.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1100	0.0	(0-2") topsoil. (2-24") F/M brown sand and gravel with TR small/M black cinders; dry; no odor.
B	2-4	37/48		0.0	(35-38") F/M dark brown sand with SO gravel; dry; no odor. (38-72") F/M brown sand with SO gravel; dry; no odor.
C	4-6			0.0	
D	6-8	38/48		0.0	(82-115") F/M brown/light brown sand and gravel; dry; no odor. (115-120") pulverized stone/gravel.
E	8-10		1115	0.0	
F	10-12	23/48			(145-168") F brown sand and silt with SO gravel; saturated with water; no odor.
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.
	F/C = FINE TO COARSE		E = 96-120 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.
			G = 144-168 in.
			H = 168-192 in.
			I = 192-216 in.
			J = 216-240 in.
			K = 240-264 in.
			L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A46

Date: 2/10/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 14.0'

Depth to Water: 11.5'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0900	1.7	(0-14") F/M brown sand with roots mixed with surrounding stones. (14-24") M brown sand with gravel, F/M cinder ash throughout strata.
B	2-4	44/48		0.0	(28-40") F/M brown silty sand, moist bits of small stone throughout. (40-44") large white stone/gravel. (44-66") poorly graded F/C brown sand with small/M stones throughout, orange staining at 62". (66-68") white gravel sand. (68-72") poorly graded brown sand with LI stone.
C	4-6			0.0	
D	6-8	44/48		0.0	
E	8-10		0925	0.0	(96-120") F/M light brown sand with small/large gravel throughout.
F	10-12	48/48		0.0	(120-140") F/M light brown sand with small/large gravel throughout. (140-142") saturated M/C brown sand, petroleum staining. (142-148") M/C brown sand. (148-150") orange wood chips, fibrous. (150-168") poorly graded M/C brown sand with small/M rounded stones throughout; saturated at 140".
G	12-14	48/48		0.0	

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LJ)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A47

Date: 2/9/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 14.0'

Depth to Water: 12.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1445	24.0	(0-6") F/M brown/dark brown topsoil/sand; dry; no odor. (6-14") F brown sand; dry; no odor. (14-22") black cinder ash and shiny/dull black cinders/coal; dry; definite odor. (22-24") F/M brown sand; dry; no odor.
B	2-4	43/48		2.1	(29-34") F brown sand with SO gravel and SO black staining; wet from snow; odor present. (34-72") F/M brown sand and gravel; dry; no odor.
C	4-6			0.0	
D	6-8	35/48		0.0	
E	8-10			0.0	(85-97") F/M brown sand and gravel with SO C sand; dry; no odor. (97-103") pulverized stone. (103-120") F/C brown sand with SO gravel; dry; no odor.
F	10-12	36/48	1505	0.0	
G	12-14	36/48	1505	0.0	(132-138") F/M brown sand with SO gravel; dry; no odor. (138-142") pulverized stone. (142-168") F/M brown sand and gravel and SO TR silt; saturated with water; no odor.

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A48

Date: 2/9/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.0'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1100	0.0	(0-24") F/M brown sand with TR F gravel at 20-24", TR silt; dry; no odor.
B	2-4	44/48		0.0	(28-42") F brown sand, SO black stained sand with coal ash/cinders, LI F gravel, TR silt; dry; no odor. (42-72") F light brown/tan sand, LI F gravel, TR silt; moist; no odor.
C	4-6		1115	0.0	
D	6-8	36/48		0.0	(84-120") F brown sand, LI C sand, LI silt, TR black coal ash and black staining, TR F gravel; moist above 108"; saturated with water at 108"; no odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A49

Date: 2/17/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 14.0'

Depth to Water: 13.5'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1250	0.0	(0-24") poorly sorted F/M brown sand mixed with small/large rounded gravel, black cinder ash, cinder ash stone, brick, glass throughout.
B	2-4	30/48		0.0	(44-70") poorly sorted M/C brown sand mixed with small/large rounded gravel, large cinders, coal bits throughout 56-70". (70-72") large white stone/concrete bits.
C	4-6			0.0	
D	6-8	28/48		0.0	
E	8-10			0.0	(92-96") M brown sand with M gravel. (96-110") poorly sorted M/C brown sand with small/large gravel. (110-120") concrete, concrete powder mixed with stone, gray gravel and SO M brown sand.
F	10-12	36/48		0.0	
G	12-14	36/48	1305	0.0	(132-150") poorly sorted brown/gray M/C sand mixed with M/large gravel, SO coal, SO cinder. (150-164") loose C stone 164-168" poorly sorted brown/red sand with M/large gravel; saturated at 164"

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: A50
ESS Job No: P151-002	Date: 2/23/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 14.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 12.0'
	Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1435	0.0	(0-5") M brown sand with small/M rounded gravel. (5-7") brown sand with F black cinder ash. (7-20") very F brown silty sand. (20-24") brown sand with black cinder ash; stone at 24".
B	2-4	12/48		0.0	(60-64") M/C brown sand, large stone at 62". (64-66") white large gravel. (66-72") M/C brown sand with small/large rounded gravel.
C	4-6			0.0	
D	6-8	24/48		0.0	(96-100") M/C brown sand with small/M C gravel. (100-102") light green sand with M brown sand. (102-110") poorly sorted M/C light brown sand with small/M rounded stone, coal bits. (110-112") C large stone. (112-120") poorly sorted M/C light brown sand with small/M rounded stone, coal bits, 102-110 coal bits.
E	8-10		1445	0.0	
F	10-12	40/48		0.0	(128-146") poorly sorted brown sand with small/large rounded gravel; wet at 144".
G	12-14	40/48		0.0	

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)            0-10%	F = FINE	N/A	A = 0-24 in.            G = 144-168 in.
LITTLE (L)            10-20%	M = MEDIUM		B = 24-48 in.            H = 168-192 in.
SOME (SO)            20-35%	C = COARSE		C = 48-72 in.            I = 192-216 in.
AND                    35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.            J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.            K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.            L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A51

Date: 2/23/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1505	0.0	(0-10") M dark brown sand, large cinder ash, stone at 3", large gray gravel throughout. (10-24") F light brown silty sand.
B	2-4	24/48		0.0	(48-60") F light brown silty sand, (60-72") dense brown silty sand, large gravel 66-72".
C	4-6			0.0	
D	6-8	30/48	1515	0.0	
E	8-10			0.0	(90-120") F/M brown sand with small/M rounded stone throughout, SO black cinder ash at 106"; wet at 108".
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		G = 144-168 in.
SOME (SO) 20-35%	C = COARSE		B = 24-48 in.
AND 35-50%	F/M = FINE TO MEDIUM		H = 168-192 in.
	F/C = FINE TO COARSE		C = 48-72 in.
	M/C = MEDIUM TO COARSE		I = 192-216 in.
			D = 72-96 in.
			J = 216-240 in.
			E = 96-120 in..
			K = 240-264 in.
			F = 120-144 in.
			L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A52  
Date: 2/9/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 7.5'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1320	0.0	(0-3") Topsoil; (3-24") F/M brown sand with TR gravel and LI small/M dull, black cinders; dry; no odor.
B	2-4	48/48		0.0	(24-32") F/M black cinder ash with SO dull black cinders and SO F black sand; dry; no odor. (32-36") F brown/black sand with SO gravel; dry; no odor. (36-63") F light brown sand; dry; no odor. (63-72") F/M brown sand and gravel; dry; no odor.
C	4-6			0.0	
D	6-8	48/48	1340	0.0	
E	8-10			0.0	(72-78") F/M brown sand with SO large gravel (2" stones); damp; no odor. (78-120") F/M brown sand wet at 90".
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A53  
Date: 2/9/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVI  
Boring Depth: 10.0'  
Depth to Water: N/D(see below)  
Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1450	0.0	(0-18") F/M brown sand, LI gravel, LI black F/C ash/cinders; wet from 0-4" (snow melt); rest dry; no odor. (18-24") F/M light brown/tan sand, TR black staining, TR F gravel, TR silt; dry; no odor.
B	2-4	24/48		0.0	(48-72") F/C brown sand, LI F/C gravel and TR silt; saturated due to puddles; no odor.
C	4-6			0.0	
D	6-8	48/48	1500	0.0	
E	8-10			0.0	(72-97") F/C brown sand, LI gravel, TR silt; saturated with water. (97-120") F/C light brown sand, LI gravel, TR silt; saturated; no odor.
F	10-12				
G	12-14				

Comments:  
Sample saturated from 48-120 due to water entering boring - W.T. could not be determined (N/D).

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A54  
Date: 2/10/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 9.5'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1045	0.0	(0-2") brown sand with roots. (2-20") F/M brown sand with SO gravel bits and black ash 16-20. (20-24") M light brown sand.
B	2-4	48/48		0.0	(24-30") F/M dense, brown silty sand. (30-72") F/C brown sand, loose at 68", small pebbles 50-60".
C	4-6			0.0	
D	6-8	48/48		0.0	
E	8-10		1100	0.0	(72-80") dense brown M silty sand. (80-100") F/M loose brown sand, orange staining at 80". (100-120") very F, loose brown sand, saturated at 116".
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LJ)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A55  
Date: 2/9/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OV  
Boring Depth: 10.0'  
Depth to Water: 8.7'  
Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1340	0.0	(0-12") F brown sand, TR silt; dry; no odor. (12-24") F/M brown/tan sand, LI F gravel, TR silt; dry; no odor.
B	2-4	37/48		0.0	(35-47") F/M brown sand, LI gravel, TR silt, TR black staining throughout; dry; no odor. (47-72") F brown sand, TR F gravel, TR silt; moist; no odor.
C	4-6			0.0	
D	6-8	47/48	1350	0.0	(73-120") F/M brown sand, TR silt, TR black staining from 76-87"; wet at 104"; no odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Boring No.: A56  
Date: 2/9/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 5.0'  
Logged By: Jason Wiggin

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1415	0.0	(0-8") F/C brown/gray sand and gravel, TR silt; dry. (8-24") F/M/C black ash/coal cinders, F/M gravel sized cinders and brown F/M sand, TR silt; dry; no odor.
B	2-4	44/48		0.0	(28-72") F brown sand, LI black coal/ash and staining at 47", TR F gravel, TR silt; Wet at 60".
C	4-6		1425	0.0	
D	6-8	41/48		0.0	
E	8-10			0.0	(79-120") F brown sand, LI black coal/ash and staining at 81-86" and 105-107", TR F gravel, TR silt, sample saturated; no odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A57

Date: 2/23/00

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 14.0'

Depth to Water: 11.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1350	0.0	(0-20") M brown silty sand with small/M rounded stones throughout. (20-24") C gray sand, concrete bits and concrete powder.
B	2-4	36/48		0.0	(36-38") concrete and concrete powder. (38-42") M brown sand with SO black cinder ash and M/large rounded gravel. (42-50") large gray gravel with F dense black cinder ash. (50-56") concrete and concrete powder. (56-72") poorly sorted M/large gravel, brown sand, SO black cinder 56-60".
C	4-6			0.0	
D	6-8	36/48		0.0	(96-102") M brown sand wit SO black cinder. (102-120") poorly sorted M/C brown sand with M/large gravel at 104", 106", and 110", black specks (LI), 102-110" M/large gravel.
E	8-10		1410	0.0	
F	10-12	48/48		0.0	(120-130") M/C brown sand with SO M gravel, saturated at 130". (130-144") very F light brown silty sand. (144-168") M/C brown sand.
G	12-14	48/48		0.0	

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A58  
Date: 2/29/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0845	0.0	(0-4") wet topsoil with SO F/M brown sand and SO gravel. (4-24") F/M brown sand with SO gravel; dry; no odor; a LI oxidation at 22-24".
B	2-4	48/48		0.0	(24-60") F/M brown sand with SO gravel and SO red staining (30-48"); dry; no odor. (60-72") F/M brown sand with SO gravel and SO red staining; wet; no odor.
C	4-6		0915	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LJ)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A59

Date: 2/29/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 4.8'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0930	0.0	(0-6") F/M dark brown sand and topsoil with SO gravel; wet TR surface rain; no odor. (6-24") F/M brown/red stained sand with SO gravel concrete red stained from (20-24"); dry; no odor.
B	2-4	48/48		0.0	(24-42") F/M red stained sand and gravel; dry; no odor. (42-44") F/M brown sand and pulverized stone; damp; no odor. (44-72") F/M brown sand and gravel; wet; no odor.
C	4-6		0950	0.0	
D	6-8	48/48		0.0	(72-76") F/M brown sand with TR gravel; damp; no odor. (76-120") F/M brown/gray/dark brown sand with TR silt; saturated; no odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A60  
Date: 2/29/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 5.5'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1000	0.0	(0-5") F/M brown topsoil with SO gravel; wet from surficial water; no odor. (5-19") F brown sand with SO silt and So gravel; dry; no odor. (19-24") F brown/red stained sand with SO gravel; dry; no odor.
B	2-4	38/48		0.0	(34-57") F brown/red stained sand with TR gravel; dry; no odor. (57-62") F brown/red/black stained sand with TR gravel; damp; no odor. (62-72") F/M brown sand and TR silt; saturated with water; no odor.
C	4-6		1015	0.0	
D	6-8	28/48		0.0	(92-120") F/M gray stained brown sand with SO silt and SO gravel; wet; petroleum odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A61  
Date: 2/29/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1030	0.0	(0-4") F/M brown sand and gravel; damp; no odor. (4-18") F brown sand with TR gravel and LI silt; dry; no odor. (18-24") F/M red stained sand with SO gravel; dry; no odor.
B	2-4	40/48		0.0	(32-44") F/M red/brown stained sand with SO gravel; dry; no odor. (44-51") F/M brown/gray sand with SO gravel; dry; no odor. (51-58") F/M brown sand with LI red stained sand, SO gravel; damp; no odor. (58-61") pulverized stone. (61-72") F/M brown/gray sand with SO gravel; saturated with water; no odor.
C	4-6		1050	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A62

Date: 2/25/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 8.3'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1515	0.0	(0-24") F/M brown sand with SO gravel; dry; no odor.
B	2-4	48/48		0.0	(24-66") F/M brown sand and gravel; dry; no odor. (66-72") F/M black/gray stained sand and gravel with SO TR silt and SO black cinders; dry; no odor.
C	4-6			0.0	
D	6-8	38/48	1530	0.0	
E	8-10			0.0	(82-100") F/M brown sand and gravel with SO staining at 100" and SO gray stained silt at 100"; damp; no odor. (100-120") F/M sand, gray silt with SO gravel; saturated with water; no odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI ESS Job No: P151-002	Boring No.: A63 Date: 2/29/00 Within 100' of Water: No
Driller.: Environmental Drilling, Inc.	Instrument: Thermo Environmen. Instruments, Inc., Model 580B OVR
Well Diameter: N/A	Boring Depth: 10.0'
Drilling Method: Geoprobe	Depth to Water: 4.0'
Sample Method: 4' Acetate Sampler	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1115	0.0	(0-19") F/M brown/dark brown sand with SO gravel and SO TR small black cinders; dry; no odor. (19-24") F/ loose black cinder ash with SO small/M black cinders.
B	2-4	35/48	1130	0.0	(37-49") F/ loose black cinder ash with pulverized stone at 42-44" with LI gravel and SO coal chips; dry; no odor. (49-60") F gray/brown sand with SO silt and TR gravel; saturated with water; no odor. (60-63") F/M brown/gray sand with TR silt; saturated with water with SO lime green staining; no odor. (63-72") pulverized stone/concrete; saturated with water; no odor.
C	4-6			0.0	
D	6-8	34/48		0.0	
E	8-10			0.0	(86-90") F/M gray stained sand and black cinder ash; saturated with water; light sweet odor. (90-120") F/M gray/black stained sand with LI gravel, saturated with water/some sheen observed; heavy odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)                    0-10% LITTLE (LI)                    10-20% SOME (SO)                    20-35% AND                                35-50%	F = FINE M = MEDIUM C = COARSE F/M = FINE TO MEDIUM F/C = FINE TO COARSE M/C = MEDIUM TO COARSE	N/A	A = 0-24 in.                    G = 144-168 in. B = 24-48 in.                    H = 168-192 in. C = 48-72 in.                    I = 192-216 in. D = 72-96 in.                    J = 216-240 in. E = 96-120 in.                    K = 240-264 in. F = 120-144 in.                    L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A64  
Date: 2/29/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 4.8'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1330	0.0	(0-18") F/M brown sand with SO gravel; dry; no odor. (18-24") F/M dark brown sand with SO black cinder ash and SO M/large black cinders with LI gravel; dry; no odor.
B	2-4	36/48		0.0	(36-55") F/M brown sand with SO gravel and SO black cinder ash and SO small/M black cinders; dry; no odor. (55-72") F/M gray stained sand and silt with SO gravel; saturated with water; heavy petroleum odor.
C	4-6		1345	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A65

Date: 2/29/00

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1300	0.0	(0-17") F/M brown sand with SO gravel and SO small/large black cinders; dry; no odor. (17-20") concrete/pulverized stone (gray-weathered/soft). (20-24") F/M brown sand with LI gravel and LI small black cinders; dry; no odor.
B	2-4	38/48		0.0	(34-42") F/M brown/dark brown sand with LI gravel; damp; no odor. (42-55") F/M brown/dark brown sand with SO silt and SO gravel, SO red staining; saturated at 48". (55-60") F/C brown/dark brown/red stained sand with SO gravel; saturated; no odor with LI clay and SO dark cinder ash. (60-72") F/M gray stained sand and gravel; saturated with water; heavy petroleum odor.
C	4-6		1320	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A66  
Date: 2/29/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 5.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1200	0.0	(0-1") topsoil/gravel. (1-6") F/light red/light brown sand with LI gravel; dry; no odor. (6-24") F/M brown/light brown sand with SO gravel; dry; no odor.
B	2-4	36/48		0.0	(36-47") F/M brown sand with SO gravel; damp; no odor. (47-51") F/M brown sand and gravel with TR red staining (oxidation); damp; no odor. (51-53") F/M tan sand with SO gravel; damp; no odor. (53-56") F/dark brown sand with SO gravel; damp; no odor. (56-72") F/M brown sand with TR gravel; wet; no odor.
C	4-6			0.0	
D	6-8	46/48	1218	0.0	(74-86") F/M brown/black/light brown sand with SO gravel; wet; no odor. (86-92") F/dark brown/ stained sand with SO silt and TR gravel and TR red staining at 91"; wet; no odor. (92-110") M/large black cinders with SO gray stained sand silt and SO gravel and SO black cinder ash; saturated with water; no odor. (119-120") F/M gray/light blue/gray sand with SO gravel and LI black cinders; saturated with water; petroleum odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A67

Date: 2/25/00

Within 100' of Water: No

Instrument: Thermo Environmer.  
Instruments, Inc., Model 580B OV

Boring Depth: 10.0'

Depth to Water: 4.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0930	0.0	(0-8") F/M brown sand with LI gravel; damp; no odor. (8-12") F/M light brown sand with TR gravel; damp; no odor. (12-24") F/M brown sand with SO gravel; dry; no odor.
B	2-4	48/48		0.0	(24-46") F/M brown sand and gravel; damp; no odor. (46-54") F/M tan sand with TR gravel; damp; no odor; red staining at 54". (54-72") F/M gray/black stained sand with SO gravel with SO M/large, dull and shiny black cinders; wet; heavy petroleum odor.
C	4-6		0945	18.0	
D	6-8	48/48		5.0	(72-106") F/brown/black/gray stained sand, silt, and cinder ash; damp; heavy odor. (106-120") F/M brown/dark brown sand and silt; saturated with water; light odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: A68
ESS Job No: P151-002	Date: 2/25/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 10.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 7.0'
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1000	0.0	(0-24") F/M brown sand with SO gravel; dry; no odor. light brown from 21-24".
B	2-4	48/48		0.0	(24-68") F/M light brown sand with SO gravel; dry; no odor. (68-72") black cinder and cinder ash with TR F/M black stained sand; dry; heavy petroleum odor.
C	4-6			3.6	
D	6-8	48/48		3.9	(72-81") F/M light brown/tan sand; damp; no odor. (81-120") F/M brown/black stained sand with SO black stained silt and SO black cinders throughout interval with LI gravel; wet at 84"; heavy petroleum odor.
E	8-10		1015	6.2	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)            0-10%	F = FINE	N/A	A = 0-24 in.            G = 144-168 in.
LITTLE (LJ)           10-20%	M = MEDIUM		B = 24-48 in.           H = 168-192 in.
SOME (SO)            20-35%	C = COARSE		C = 48-72 in.           I = 192-216 in.
AND                    35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.           J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.        K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.        L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A69

Date: 2/25/00

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OV

Boring Depth: 10.0'

Depth to Water: 8.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1100	0.0	(0-24") F/M brown sand with SO gravel; damp; no odor.
B	2-4	43/48		0.0	(29-68") F/M brown/tan sand with SO gravel; damp; no odor. (68-72") F/M tan sand; damp; no odor.
C	4-6			0.0	
D	6-8	43/48	1110	0.0	
E	8-10			0.0	(78-84") F/M brown sand with LI gravel; damp; no odor. (84-92") F/M tan sand with TR gravel; damp; no odor. (92-120") F/M black/brown stained sand and silt with SO gravel and SO small/large black cinders; saturated with water; heavy petroleum odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A70  
Date: 2/25/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 8.5'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1125	0.0	(0-24") F/M brown sand with SO C sand mixed in; damp; no odor.
B	2-4	48/48		0.0	(24-31") F/M brown sand with SO gravel; damp; no odor. (31-56") F/M brown sand with SO gravel; dry; no odor. (56-58") pulverized quartz. (58-72") F/M brown sand with SO gravel; no odor; damp.
C	4-6			0.0	
D	6-8	40/48	1140	3.6	
E	8-10			5.2	(80-88") F/M light brown/brown sand and gravel; damp; no odor. (88-90") black cinder ash with SO small/M black cinders; damp; no odor. (90-94") , pulverized yellow brick; dry; no odor. (94-120") F/M black stained sand and silt with SO gray stained silt and SO M/large black cinders and cinder ash; saturated with water; heavy petroleum odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A71

Date: 2/25/00

Within 100' of Water: Yes

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 7-8.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1145	0.0	(0-3") wet topsoil/gravel. (3-24") F/light brown/light red sand with LI gravel; damp; no odor.
B	2-4	42/48		0.0	(30-36") F/brown sand with SO gravel; damp; no odor. (36-44") F/M gray stained sand with SO gravel; damp; heavy odor. (44-53") F/brown/red sand with TR silt. (53-72") F/M gray stained sand with SO gravel and SO M black cinders; damp; petroleum odor.
C	4-6		1200	0.0	
D	6-8	18/48		0.0	(72-106") F sand/silt gray/red; saturated with water; no odor. (106-120") F/C tan sand with SO gray silt; saturated with water; light odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: A72

Date: 2/25/00

Within 100' of Water: Yes

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.0

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	16/24	1315	0.0	(8-24") F/M brown sand with SO gravel; damp; no odor.
B	2-4	44/48		0.0	(28-44") F brown/light red sand with TR gravel; dry; no odor. (44-49") F/M dark brown/gray stained sand with SO silt and SO gravel; damp; light odor. (49-72") F/M brown/tan/red sand and silt with SO TR gravel; no odor.
C	4-6			0.0	
D	6-8	42/48		0.0	
E	8-10		1330	0.0	(78-112") F/M brown/tan/light red sand with SO gravel; dry; no odor. (112-120") F/M black cinder ash with SO m/large black cinders and SO gravel; saturated with water; heavy odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: A73  
Date: 2/25/00  
Within 100' of Water: Yes  
Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVI  
Boring Depth: 14.0'  
Depth to Water: 8.5'  
Logged By: Daryll Issa

Depth (Intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1400	0.0	(0-24") F/M brown sand and gravel; dry; no odor.
B	2-4	48/48		0.0	(24-72") F/M brown sand with SO gravel; dry; no odor.
C	4-6			0.0	
D	6-8	48/48	1420	0.0	(72-95") F/M brown sand and gravel; dry; no odor. (95-120") F/M brown/gray stained sand and black cinder ash with small/large black cinders; wet at 102"; heavy petroleum odor.
E	8-10			6.8	
F	10-12	48/48		0.0	(120-168") F/M brown/gray stained sand and black cinder ash and black cinders small/large; saturated with water; heavy petroleum odor.
G	12-14	48/48		0.0	

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	(+1.0-4.0') PVC Solid Riser (4.0-14.0') PVC Screen One inch sump at 14.0'	A = 0-24 in.	G = 144-168 in.
LITTLE (L)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM F/C = FINE TO COARSE M/C = MEDIUM TO COARSE		D = 72-96 in. E = 96-120 in.. F = 120-144 in.	J = 216-240 in. K = 240-264 in. L = 264-288 in.



# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B01

Date: 1/27/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 6.0'

Logged By: Jason Wiggins/Daryll  
Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1530	1.4	(0-8") Tan silty sand , TR gravel. (8-24") F/C dark brown/brown sand; LI gravel; TR silt; TR organics; TR cinder.
B	2-4	33/48		28	(39-57") F/M brown sand; TR gravel; dry; no odor. (57-72") F gray and brown stained sand; TR gravel; wet at 72"; heavy petroleum odor.
C	4-6		1535	162	
D	6-8				
E	8-10				
	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	(+1.8-4.0') PVC Solid Riser (4.0-9.0') PVC Screen One inch sump at 9.0'	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE	F = 120-144 in.	L = 264-288 in.	

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B02

Date: 1/27/00

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.5'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0830	1.4	(0-24") F/M brown sand with SO gray/black silt and large sized gravel throughout the interval.
B	2-4	40/48	0845	4.2	(32-48") F/M brown sand with LI gravel; TR silt; moist gravel sized black cinders. (48-72") gray-black sandy silt; petroleum odor; LI gravel sized black cinders. Wet at 66°.
C	4-6	40/48		115	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: B03
ESS Job No: P151-002	Date: 1/27/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 5.0'
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0915	0.0	(0-24") F/M brown sand with SO gravel throughout the interval and SO white concrete/gravel dust; dry; no odor.
B	2-4	40/48	0920	9.4	(32-58") F/M brown/dark brown sand with LI gravel and SO black/gray stained sand throughout the interval; dry; petroleum odor. (58-72") F/black/dark brown stained sand and silt; saturated with water; ; very heavy petroleum odor.
C	4-6	40/48		164	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:  
Located near SE corner of MHA

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)                    0-10%	F = FINE	N/A	A = 0-24 in.                    G = 144-168 in.
LITTLE (LI)                    10-20%	M = MEDIUM		B = 24-48 in.                    H = 168-192 in.
SOME (SO)                    20-35%	C = COARSE		C = 48-72 in.                    I = 192-216 in.
AND                                35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.                    J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in..                K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.                L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B04

Date: 1/27/00

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.8'

Logged By: Jason Wiggins

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0930	0.6	(0-12") F/M brown sand, LI gravel and TR silt. (12-24") F/M black ash with SO cinders and LI orange porous cinders.
B	2-4	45/48	0950	18.0	(27-42") F/C Br/orange sand with SO gravel sized black cinders and TR silt, dry. (42-66") gray silty sand. (66-72") F black sand with black petroleum staining; wet; petroleum odor.
C	4-6			35	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B05

Date: 1/27/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 8'0"

Depth to Water: 4.8'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1000	1.5	(0-20") F/M brown sand (frozen) with SO gray dry, no odor. (20-24") M/ black cinder ash with SO large black cinders, dry, LI petroleum odor.
B	2-4	46/48	1020	2.8	(28-33") F/light brown sand and loose black cinder ash; dry; no odor. (33-50") F/C orange/brown sand with SO large dull, black cinders and porous black cinders and cinder ash; dry; faint petroleum odor. (50-72") F gray stained sand with LI gravel; saturated with water; heavy petroleum odor.
C	4-6			29.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	(+1.5-3.0') PVC Solid Riser (3.0-8.0') PVC Screen One inch sump at 8.0'	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM F/C = FINE TO COARSE M/C = MEDIUM TO COARSE		D = 72-96 in.	J = 216-240 in.
				E = 96-120 in..	K = 240-264 in.
				F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: B06
ESS Job No: P151-002	Date: 1/27/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environment Instruments, Inc., Model 580B OV
Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 4.0'
	Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1015	2.5	(0-20") F/M brown sand with TR gravel and silt. (20-24") black cinders/ash.
B	2-4	47/48	1040	2.4	(25-48") F/C black cinder/ash with LI porous cinders. (46-48") organic, fibrous material; dry. (48-72") F/C gray sand; LI silt; wet.
C	4-6			14.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)                    0-10%	F = FINE	N/A	A = 0-24 in.                    G = 144-168 in.
LITTLE (LI)                    10-20%	M = MEDIUM		B = 24-48 in.                    H = 168-192 in.
SOME (SO)                    20-35%	C = COARSE		C = 48-72 in.                    I = 192-216 in.
AND                                35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.                    J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.                  K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.                  L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B07

Date: 1/27/00

Within 100' of Water: Yes

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 5.3'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1100	0.0	(0-3") F/M brown sand with SO gravel; dry; no odor. (3-10") F/loose black cinder ash and M/large black cinders; dry; no odor. (10-24") F/C brown sand with LI gravel.
B	2-4	45/48		0.7	(27-40") F brown sand with TR black cinder ash and SO gravel; dry; no odor. (40-45") F orange/yellow sand; dry; no odor. (45-72") F gray stained/ brown sand with TR silt and TR gravel; saturated with petroleum; wet at 69"; sheen observed; heavy petroleum odor.
C	4-6		1115	16.5	
D	6-8	28/48		7.2	(92-97") F gray sand with TR silt with water; heavy petroleum odor. (97-120") F brown stained sand with LI silt; saturated with water; heavy petroleum odor.
E	8-10			7.2	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: B08
ESS Job No: P151-002	Date: 1/27/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: Yes
Well Diameter: N/A	Instrument: Thermo Environment. Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 10.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 8.5'
	Logged By: Jason Wiggin

Depth (Intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1110	0.0	(0-6") F/C brown sand; TR gravel; TR silt; dry. (6-24") F/C black cinder ash.
B	2-4	40/48		0.4	(32-35") F/C black cinder ash. (35-48") F/C yellow-brown sand; LI gravel; TR silt; dry. (48-72") F/C yellow-brown sand; LI gravel; TR silt; TR porous cinders, TR black ash; dry
C	4-6		1125	1.4	
D	6-8	22/48		1.4	
E	8-10				(96-100") F/C brown sand; LI gravel; TR silt. (100-103") M/C black cinder ash. (103-120") gray-dark gray silt and sand; black staining; wet.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)            0-10%	F = FINE	N/A	A = 0-24 in.            G = 144-168 in.
LITTLE (LI)           10-20%	M = MEDIUM		B = 24-48 in.           H = 168-192 in.
SOME (SO)            20-35%	C = COARSE		C = 48-72 in.           I = 192-216 in.
AND                    35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.           J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in..        K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.        L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B09

Date: 1/27/00

Within 100' of Water: Yes

Instrument: Thermo Environmental  
instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 3.5'


Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1130	0.0	(0-18") F/M brown sand with SO black sand, LI gravel, LI silt and LI small/M, shiny/dull black cinders; dry; light petroleum odor. (18-24") F/M brown/reddish stained cinders and cinder ash with LI gravel; dry; no odor.
B	2-4	43/48	1148	1.4	(29-43") F/M brown/orange sand with small/M black cinders and black cinder ash; TR gravel; damp; faint odor. (43-72") F black/gray stained sand with LI gravel and SO silt and SO black cinders; wet; heavy petroleum odor.
C	4-6			4.8	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) LITTLE (LI) SOME (SO) AND	0-10% 10-20% 20-35% 35-50%	F = FINE M = MEDIUM C = COARSE F/M = FINE TO MEDIUM F/C = FINE TO COARSE M/C = MEDIUM TO COARSE	N/A
			A = 0-24 in. B = 24-48 in. C = 48-72 in. D = 72-96 in. E = 96-120 in.. F = 120-144 in.
			G = 144-168 in. H = 168-192 in. I = 192-216 in. J = 216-240 in. K = 240-264 in. L = 264-288 in.

# TEST BORING LOG

 272 West Exchange Street, Suite 101 Providence, Rhode Island 02903 (401) 421-0398 Fax (401) 421-5731					Site: Providence Gas Company 642 Allens Avenue, Providence, RI ESS Job No: P151-002			Boring No.: B10	
					Driller.: Environmental Drilling, Inc.			Date: 1/27/00	
					Well Diameter: N/A			Within 100' of Water: No	
					Drilling Method: Geoprobe			Instrument: Thermo Environment Instruments, Inc., Model 580B OVM	
					Sample Method: 4' Acetate Sampler			Boring Depth: 6.0' Depth to Water: 5.0' Logged By: Jason Wiggin	
Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)				
A	0-2	24/24	1150	1.0	(0-12") F/M brown/light brown sand; TR gravel; TR silt. (12-24") F/C black cinder ash; SO cinders; TR porous cinders.				
B	2-4	47/48	1215	4.2	(25-48") F/C black cinder ash; SO gravel size cinders; LI porous cinders; dry. (48-55") F/C black cinder ash; SO gravel size cinders; LI porous cinders; dry. (55-72") F brown/gray sand; SO silt; wet.				
C	4-6			37.0					
D	6-8								
E	8-10								
F	10-12								
G	12-14								
<u>Comments:</u>									
<b>PROPORTIONS USED</b>		<b>ABBREVIATIONS</b>		<b>Well Construction</b>					
TRACE (TR)	0-10%	F = FINE		N/A					
LITTLE (LJ)	10-20%	M = MEDIUM							
SOME (SO)	20-35%	C = COARSE							
AND	35-50%	F/M = FINE TO MEDIUM							
		F/C = FINE TO COARSE							
		M/C = MEDIUM TO COARSE							
			<b>DEPTH INTERVALS</b>						
			A = 0-24 in.	G = 144-168 in.					
			B = 24-48 in.	H = 168-192 in.					
			C = 48-72 in.	I = 192-216 in.					
			D = 72-96 in.	J = 216-240 in.					
			E = 96-120 in..	K = 240-264 in.					
			F = 120-144 in.	L = 264-288 in.					

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler


Boring No.: B11  
Date: 1/27/00  
Within 100' of Water:- No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 4.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1330	2.8	(0-3") gravel and gray stained/green soil; wet from snow; light sweet odor. (3-19") F/M brown sand and silt; gray/black with TR cinders; damp; no odor. (19-24") F dense cinder ash and black cinders; dry; no odor.
B	2-4	45/48	1345	11.3	(27-45") black/orange cinders with SO cinder ash and LI gravel and TR silt at 27"; dry; no odor. (45-59") F black stained sand with LI silt and SO black cinder ash and black cinders; wet; heavy odor. (59-72") F gray/brown stain sand with TR silt; saturated with water; heavy petroleum odor.
C	4-6			28.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG

 272 West Exchange Street, Suite 101 Providence, Rhode Island 02903 (401) 421-0398 Fax (401) 421-5731	Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: B12
	ESS Job No: P151-002	Date: 1/27/00
	Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
	Well Diameter: N/A	Instrument: Thermo Environmen. Instruments, Inc., Model 580B OVI
	Drilling Method: Geoprobe	Boring Depth: 6.0'
	Sample Method: 4' Acetate Sampler	Depth to Water: 5.0'
		Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1415	1.4	(0-2") asphalt. (2-24") F/M brown sand with SO gravel and LI black stained sand in the 4-8" interval; dry; no odor.
B	2-4	38/48		4.2	(34-51") F/M brown sand and gravel; dry; no odor. (51-72") F gray/brown stained sand with SO silt and LI black cinders; wet at 60"; heavy petroleum odor.
C	4-6		1430	46.8	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)            0-10%	F = FINE	N/A	A = 0-24 in.            G = 144-168 in.
LITTLE (LI)            10-20%	M = MEDIUM		B = 24-48 in.            H = 168-192 in.
SOME (SO)            20-35%	C = COARSE		C = 48-72 in.            I = 192-216 in.
AND                    35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.            J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.            K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.            L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B13  
Date: 1/27/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 4.5'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1445	2.8	(0-17") F/M dark brown/brown sand with SO gravel and TR silt; dry; no odor. (17-24") F brown sand and gravel with TR silt; dry; light petroleum odor.
B	2-4	44/48	1450	17.2	(28-48") F/M gray/brown stained sand and gravel; dry; no odor. (48-72") F gray/brown stained sand and silt; wet at 54"; heavy petroleum odor.
C	4-6			156.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B14

Date: 1/27/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVI

Boring Depth: 6.0'

Depth to Water: 5.4'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1445	2.8	(0-6") F/M dark brown sand; TR gravel and TR silt; moist. (6-14") F gravel with black cinders and black cinder ash. (14-24") F/M brown sand; TR gravel and TR porous cinders.
B	2-4	38/48	1510	0.0	(34-48") F/M brown sand; LI silt/gravel; TR porous cinders; dry. (48-65") F/M brown sand; LI silt/gravel; TR porous cinders; dry. (65-72") gray, sandy silt; wet.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		G = 144-168 in.
SOME (SO) 20-35%	C = COARSE		H = 168-192 in.
AND 35-50%	F/M = FINE TO MEDIUM		I = 192-216 in.
	F/C = FINE TO COARSE		J = 216-240 in.
	M/C = MEDIUM TO COARSE		K = 240-264 in.
			L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B17

Date: 1/31/00

Within 100' of Water: Yes

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1215	0.0	(0-5") F/C brown/gray sand with SO TR stained sand with SO gravel; dry; no odor. (5-18") small/M/large, shiny/dull black cinders with SO cinder ash; dry; no odor. (18-24") F/M brown sand and black cinder ash with TR gravel; dry; no odor.
B	2-4	32/48		0.0	(40-45") black cinder ash with SO gravel and SO small cinders. (45-58") F light brown/tan sand with LI gravel; wet; no odor. (58-68") F light brown/tan sand with LI gravel; wet; no odor. (68-72") F gray stained sand with LI silt/gravel; wet; petroleum odor.
C	4-6	32/48	1230	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				
Comments:					

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		G = 144-168 in.
SOME (SO) 20-35%	C = COARSE		B = 24-48 in.
AND 35-50%	F/M = FINE TO MEDIUM		H = 168-192 in.
	F/C = FINE TO COARSE		C = 48-72 in.
	M/C = MEDIUM TO COARSE		I = 192-216 in.
			D = 72-96 in.
			J = 216-240 in.
			E = 96-120 in.
			K = 240-264 in.
			F = 120-144 in.
			L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B18

Date: 1/27/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 8.0'

Depth to Water: 6.5'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2		1330	0.0	See note below
B	2-4	12/24		1.4	(26-28") black cinders (>2" diameter). (28-32") Tan silty sand "beach sand". (32-48") F/M brown sand; TR gravel; TR silt; TR cinder ash. (56-60") F/M brown sand; TR gravel; TR silt; TR cinder ash. (60-72") F/C black cinder ash; SO cinders; TR porous cinders.
C	4-6		1345	0.0	
D	6-8	40/48		0.0	
E	8-10				(72-78") C red and brown cinder ash and brick fragments. (78-96") gray sandy/silt; wet.
F	10-12				
G	12-14				

Comments:

Note: (0-2') interval inadvertently retrieved within limits of remediation material handling area. Sample discarded. No other surface sample retrieved.

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B20

Date: 1/31/00

Within 100' of Water: Yes

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 2.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1240	0.0	(0-4") brown topsoil. (4-24") black/orange cinder with SO shiny and dull black cinders; dry; no odor.
B	2-4	40/48		0.0	(32-42") black cinder ash with SO black stained sand; wet; no odor. (42-53") F brown/gray sand with SO silt and TR gravel; wet; no odor. (53-72") F gray stained sand with TR silt and TR gravel; wet; heavy petroleum odor; sheen present.
C	4-6		1250	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

**PROPORTIONS USED**

TRACE (TR) 0-10%  
LITTLE (LI) 10-20%  
SOME (SO) 20-35%  
AND 35-50%

**ABBREVIATIONS**

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

**Well Construction**

N/A

**DEPTH INTERVALS**

A = 0-24 in. G = 144-168 in.  
B = 24-48 in. H = 168-192 in.  
C = 48-72 in. I = 192-216 in.  
D = 72-96 in. J = 216-240 in.  
E = 96-120 in. K = 240-264 in.  
F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B21  
Date: 1/31/00  
Within 100' of Water: Yes  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.3'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1300	0.0	(0-10") F/M gray/brown sand and gravel; dry; no odor. (10-11") F/C light brown sand with SO gravel; dry; no odor. (11-24") M/large black cinder ash and black/dark cinder ash; dry; no odor.
B	2-4	41/48		0.0	(31-42") F/C black stained sand and cinder ash with SO gravel and SO brick cinders; wet; no odor. (42-50") F brown/dark brown sand; damp; odor present. (50-72") F gray/brown stained sand with TR gravel; wet; heavy odor.
C	4-6		1315	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B22

Date: 1/31/00

Within 100' of Water: Yes

Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.6'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1330	0.0	(0-3") F/M brown sand and gravel; dry; no odor. (3-11") F/M brown sand with SO gravel; dry; no odor. (11-24") M/large black cinders with SO F brown/dark brown sand; dry; no odor.
B	2-4	33/48		0.0	(39-49") black cinder ash and black cinders; dry; no odor. (49-68") F/C light brown sand with TR gravel; damp; no odor. (68-72") F black sand with TR silt and TR gravel; wet; no odor.
C	4-6	33/48	1340	0.0	
D	6-8	47/48		0.0	(73-90") F/C brown sand; TR silt. (90-92") F/M brown sand and black coal ash. (92-120") F/M brown sand; LI silt; black staining; petroleum odor.
E	8-10			0.0	
	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	(+.75'-4.0') PVC Solid Riser (4.0-9.0') PVC Screen One inch sump at 9.0'	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Boring No.: B23

Date: 1/31/00

Within 100' of Water: Yes

Driller.: Environmental Drilling, Inc.

Instrument: Thermo Environment.  
Instruments, Inc., Model 580B OVM

Well Diameter: N/A

Boring Depth: 6.0'

Drilling Method: Geoprobe

Depth to Water: 5.0'

Sample Method: 4' Acetate Sampler

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1355	0.0	(3-6") F/M gray/brown sand and gravel; dry; no odor. (6-24") F/C light brown sand and gravel; dry; no odor.
B	2-4	38/48		0.0	(34-56") F/M brown sand with SO gravel; dry; no odor. (56-61") F dark brown sand with LI silt and TR gravel; wet; no odor. (61-65") black cinders and cinder ash; wet; no odor. (65-72") F brown sand and silt; wet; no odor.
C	4-6		1410	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				
Comments:					

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B24

Date: 2/1/00

Within 100' of Water: Yes

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 8.4'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0940	0.0	(0-12") F/M brown sand; SO gravel; TR silt. (12-22") F/M brown/tan sand; TR silt; dry. (22-24") F/M dark brown sand; LI silt; TR cinders.
B	2-4	45/48		0.0	(27-29") F/C gray sand; TR silt; dry. (29-34") F brown sand; LI silt; dry. (34-38") F/C black coal ash; LI F/M brown sand. (38-43") F/M brown sand; TR silt; TR cinders at 40"; TR yellow ash at 42"; dry. (43-48") F/C black coal ash; LI F/M brown sand; dry.
C	4-6			0.0	
D	6-8	38/48	1010	0.0	
E	8-10			0.0	(82-88") F/M black sand; LI silt; dry. (88-91") F/C tan sand; SO silt; dry. (91-93") F dark brown sand; SO silt; TR cinders; moist. (93-101") F brown sand; SO silt; moist. (101-118") F brown/gray sand and silt; wet. (118-120") petroleum stain/odor; TR coal/ash; wet.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: B25
ESS Job No: P151-002	Date: 2/1/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: Yes
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 10.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 9.0'
	Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1020	0.0	(0-24") F/C brown sand and gravel; TR silt; TR brick fragments at 7"; TR coal and ash throughout sample; dry.
B	2-4	38/48		0.0	(34-72") F/M brown sand and F/M black coal ash/coal fragments; TR silt; TR porous cinders; dry.
C	4-6		1040	0.0	
D	6-8	24/48		0.0	(96-100") F/M brown/black sand; LI silt; moist. (100-102") F/M tan sand; TR silt; moist. (102-107") F/M brown/black sand; LI silt; TR porous cinders; moist. (107-120") F/C brown sand, LI silt; TR gravel; stained gray from 117-120" with petroleum odor; wet.
E	8-10			5.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (L) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B26

Date: 2/3/00

Within 100' of Water: Yes

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.5'

Logged By: Jason Wiggin

Depth (Intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0950	0.0	(0-24") F/M brown sand and F cinder ash; LI C cinders; TR F gravel; TR silt; brick fragments at 22".
B	2-4	32/48		0.0	(40-45") F black cinder ash; TR F brown sand; TR gravel; dry. (45-49") F/M brown sand; LI silt; LI brick fragments; dry. (49-54") black F ash; TR F brown sand; TR gravel; dry. (54-61") F/C tan/yellow ash and C gravel sized cinders; dry. (61-72") F/C black ash and F gravel sized cinders; SO brick; dry.
C	4-6		1005	0.0	
D	6-8	33/48		0.0	
E	8-10			0.0	(87-92") F/C black cinder ash and F gravel sized cinders; SO brick; dry. (92-94") F/M black ash and black cinders. (94-97") F/C brown sand; LI silt; dry. (97-120") C black sand F gravel sized cinders/porous cinders; wet.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B27  
Date: 2/22/00  
Within 100' of Water: No  
Instrument: Thermo Environmen.  
Instruments, Inc., Model 580B OVI  
Boring Depth: 9.0'  
Depth to Water: 5.5'  
Logged By: Nicole Murry

Depth (Intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	18/24	1504	0.0	(6-8") gravel. (8-24") M/C loose orange/brown sand with small/M rounded stones.
B	2-4	48/48		0.0	(24-60") F/M brown silty sand with small/M rounded stones. (60-69") F brown silty sand; wet. (69-72") C black, wet cinder ash; cinder ash stone and porous cinders.
C	4-6		1525	0.0	
D	6-8	10/48		0.0	(110-112") large stone. (112-120") F/M orange/brown silty sand with M-large rounded stone; wet.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:  
Very LI sample due to low recovery and refusal at 9'.

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: B28
ESS Job No: P151-002	Date: 2/23/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 10.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 9.5'
	Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1050	25.0	(0-20") F/C light brown/orange sand; loose with small/M rounded stones throughout; dry; (21-24") M/C brown sand; dry; petroleum odor.
B	2-4	48/48		0.0	(24-32") F/M brown sand with small/M/C gravel. (32-72") very F brown/orange silty sand.
C	4-6			0.0	
D	6-8	48/48		0.0	(72-96") very F brown/orange silty sand. (96-110") F black cinder ash; brick; concrete with LI black wood chips. (110-120") M brown sand mixed with coal bits; M black cinder ash and black cinder ash stone; wet at 116".
E	8-10		1125	0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)            0-10%	F = FINE	N/A	A = 0-24 in.            G = 144-168 in.
LITTLE (LJ)            10-20%	M = MEDIUM		B = 24-48 in.            H = 168-192 in.
SOME (SO)             20-35%	C = COARSE		C = 48-72 in.            I = 192-216 in.
AND                     35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.            J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in..        K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.        L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler


Boring No.: B29  
 Date: 3/2/00  
 Within 100' of Water: No  
 Instrument: Thermo Environment  
 Instruments, Inc., Model 580B OVM  
 Boring Depth: 14.0'  
 Depth to Water: 11.6'  
 Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0955	0.0	(0-6") crush stone/gravel. (6-24") F/M brown sand; LI gravel; dry; no odor.
B	2-4	36/48		0.0	(36-43") F/M brown sand with LI gravel; dry; no odor. (43-48") F brown sand with TR gravel; dry; no odor. (48-72") F light red/light brown sand with TR silt; wet between 60" and 72'; no odor.
C	4-6			0.0	
D	6-8	36/48		0.0	
E	8-10			0.0	(72-75") F light red/light brown sand; dry; no odor. (75-83") F/M brown sand with SO gravel and SO small/M black cinders; dry; no odor. (83-90") F light brown/light red sand and silt; wet; no odor. (90-108") F/M black stained sand and cinder ash with SO gravel; dry; heavy petroleum odor. (108-112") black cinders and cinder ash with SO gravel; dry; heavy petroleum odor. (112-120") F brown/gray sand with SO gravel; dry; no odor.
F	10-12	10/14	1015	28.6	(120-140") F brown/gray sand with SO gravel; dry; no odor. (140-148") F gray sand/ silt with TR gravel; wet; no odor. (148-168") F gray stained sand/silt with SO gravel; wet; heavy petroleum odor.
G	12-14	20/24		28.6	

Comments:  
 Note: Possible perched water table

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG

					Site: Providence Gas Company 642 Allens Avenue, Providence, RI		Boring No.: B30	
					ESS Job No: P151-002		Date: 3/1/00	
72 West Exchange Street, Suite 101  Providence, Rhode Island 02903 (401) 421-0398 Fax (401) 421-5731					Driller.: Environmental Drilling, Inc.		Within 100' of Water: No	
					Well Diameter: N/A		Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM	
					Drilling Method: Geoprobe		Boring Depth: 14.0'	
					Sample Method: 4' Acetate Sampler		Depth to Water: 9.0'	
							Logged By: Daryll Issa	
Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)			
A	0-2	24/24	1435	0.0	(0-24") F/M brown sand with SO gravel; dry; no odor.			
B	2-4	40/48		0.0	(32-38") F/M brown sand with LI gravel; damp; no odor. (38-55") F brown/light red sand and silt with SO gravel; wet; no odor. (55-60") F brown/dark brown sand and silt with SO gravel; wet; no odor. (60-72") F/M brown/red sand and silt with SO gravel; damp; no odor.			
C	4-6			0.0				
D	6-8	48/48	1500	0.0	(72-76") F/M brown/light red sand and gravel; wet; no odor. (76-90") F/M brown sand and gravel; damp; no odor. (90-105") F black sand and F cinder ash with SO gravel; dry; sweet odor. (105-120") F/M light gray/light brown sand with SO gravel and SO pulverized brick. (115-120") damp; no odor.			
E	8-10			0.0				
F	10-12	48/48		0	(130-148") F/M brown/light red sand and silt with TR gravel; wet; no odor. (148-155") F/M brown sand and gravel; damp; no odor. (155-168") F/M gray/brown sand and gravel; damp; no odor.			
G	12-14	38/48		0				
<u>Comments:</u> Possible perched water above 9 feet.								
<b>PROPORTIONS USED</b>			<b>ABBREVIATIONS</b>		<b>Well Construction</b>		<b>DEPTH INTERVALS</b>	
TRACE (TR)	0-10%	F = FINE	M = MEDIUM		N/A		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM	C = COARSE				B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE	F/M = FINE TO MEDIUM				C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM	F/C = FINE TO COARSE				D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE	M/C = MEDIUM TO COARSE				E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE					F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B31

Date: 3/1/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 14.0'

Depth to Water: 9.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1405	0.0	(0-3") gravel/asphalt. (3-24") F/M light brown sand with LI gravel; dry; no odor.
B	2-4	48/48		0.0	(24-58") F/M brown/light brown sand and gravel with pulverized stone 38-42"; dry; no odor. (58-63") F/C black stained sand and black cinders; fine dense sand and silt. TR gravel; dry; sweet odor. (63-72") F/M brown/gray sand with SO gravel; dry; very light petroleum odor.
C	4-6		1415	0.0	
D	6-8	48/48		0.0	(72-90") F/M brown sand with LI gravel; damp; no odor. (90-94") F/M dark brown sand with SO gravel; damp; no odor. (94-110") concrete/stone/red brick and gravel; dry; no odor. (110-120") F/M brown sand with SO gravel; wet ; no odor.
E	8-10			0.0	
F	10-12	30/48		0	
G	12-14	30/48		0	(138-168") F/M brown sand and gravel and TR pulverized concrete; saturated; no odor.

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LJ)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B32

Date: 3/1/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 14.0'

Depth to Water: 12.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1000	0.0	(0-2") topsoil/gravel. (2-24") F/M brown sand with SO gravel; dry; no odor.
B	2-4	42/48		0.0	(30-72") F/M brown sand with LI gravel and TR black staining; dry; no odor.
C	4-6			0.0	
D	6-8	48/48	1030	0.0	
E	8-10			0.0	(72-82") F/C light brown sand with LI gravel; wet (surficial runoff); no odor. (82-89") F/M blue/gray sand with SO gravel; dry; petroleum odor. (89-91") F/dense cinder ash with SO small/M/large cinders; dry; no odor. (91-120") F/M dark brown sand and silt with SO small/large black cinders and gravel with SO light green staining; dry; no odor.
	10-12	36/48		0	
G	12-14	36/48		0	

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B33  
Date: 3/1/00  
Within 100' of Water: No  
Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM  
Boring Depth: 14.0'  
Depth to Water: 13.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0915	0.0	(0-2") F/M brown sand/topsoil with SO gravel. (2-24") F/M brown sand with SO gravel; dry; no odor.
B	2-4	48/48		0.0	(24-68") F/M brown sand and gravel; dry; no odor. (68-72") pulverized stone and F/M brown sand; dry; no odor.
C	4-6			0.0	
D	6-8	43/48		0.0	
E	8-10		0935	0.0	(77-90") F/M brown sand with SO gravel; dry; no odor. (90-120") F/M brown/dark brown sand with SO gravel and SO TR silt and LI small/M black cinders and TR light green staining; no odor.
F	10-12	37/48		0	
G	12-14	37/48		0	

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B34

Date: 2/23/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 14.0'

Depth to Water: 13.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	12/24	0945	0.0	(12-16") M brown sand with M/large rounded gravel. (16-18") concrete bits and concrete powder. (18-24") M/C loose light brown sand.
B	2-4	36/48		0.0	(36-66") M/C loose light brown sand with small/M stones throughout the interval. (66-69") concrete and concrete powder. (69-72") M/C loose light brown sand with small/M stone throughout.
C	4-6			0.0	
D	6-8	48/48		0.0	
E	8-10		1010	2.0	(72-90") M/C loose light brown sand with small/M stone throughout the interval. (90-92") concrete stone and powder. (92-100") F/M brown sand with F black cinder ash; cinder ash stone (large) and coal throughout. (110-114") concrete and concrete powder. (114-120") light brown M sand with brick/stone.
F	10-12	36/48		2	(144-158") F/M light brown sand; soft. (158-168") dense F gray silty sand; wet at 166". (168-172") F black cinder ash; gravel at 170". (172-184") F/M gray sand; petroleum stained 172-176.
G	12-14	36/48		2	

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		G = 144-168 in.
SOME (SO) 20-35%	C = COARSE		B = 24-48 in.
AND 35-50%	F/M = FINE TO MEDIUM		H = 168-192 in.
	F/C = FINE TO COARSE		I = 192-216 in.
	M/C = MEDIUM TO COARSE		D = 72-96 in.
			J = 216-240 in.
			E = 96-120 in..
			K = 240-264 in.
			F = 120-144 in.
			L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B35

Date: 2/22/00

Within 100' of Water: No

Instrument: Thermo Environmen.  
Instruments, Inc., Model 580B OVM

Boring Depth: 14.0'

Depth to Water: 13.5'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1435	0.0	(0-4") asphalt. (4-24") F/M brown/orange sand with small/large rounded stones throughout; soft.
B	2-4	48/48		0.0	(24-72") F/M loose brown silty sand; with small/M rounded stones.
C	4-6			0.0	
D	6-8	48/48		0.0	(72-80") F/M brown silty sand; dense. (80-88") red brick with M brown sand. (88-98") M/C black cinder ash; cinder ash stone and porous cinders (black and red). (98-120") F brown silty sand; SO red brick and small rounded stones.
E	8-10		1445	0.0	
F	10-12	30/48		0.0	(136-140") C black cinder ash with brick. (140-168") F/M brown silty sand with coal bits from 140-146"; small/M rounded stones from 140-150"; wet at 164".
G	12-14	30/48		0.0	

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B36

Date: 2/22/00

Within 100' of Water: No

Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 5.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1345	0.0	(0-3") large gravel. (3-8") M light brown/yellow sand with small rounded stones. (8-24") F/M black/brown sand mixed with coal; brick; large jagged gravel and cinder ash (black) throughout interval.
B	2-4	44/48		0.0	(28-32") dense brown and black M sand with large brick bits; large amount of cinder ash at 31". (32-38") concrete and white concrete powder with F light brown sand. (38-42") M brown sand; dense with large bits of red brick. (42-43") M orange sand. (43-45") large gray stone; solid. (45-50") M brown sand; dense with large bits of red brick. (50-60") poorly sorted M brown sand with large rounded stone; SO cinder ash (black) at 55". (60-72") F/M brown silty sand with SO small rounded stones; wet.
C	4-6		1355	0.0	
D	6-8	24/48		0.0	(96-120") F/M brown silty sand; wet.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B37  
Date: 3/2/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 8.75'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	16/24	0900	0.0	(8-20") F/M brown sand with SO gravel; damp from surficial runoff; no odor. (20-24") F/M dark brown sand and gravel with LI pulverized red brick; damp; no odor.
B	2-4	30/48		0.0	(42-53") F/M brown/red stained brick; damp; no odor. (53-60") F/M brown sand and wood chips with SO F/M gray stained sand; damp; no odor. (60-72") pulverized red brick; dry; no odor.
C	4-6			0.0	
D	6-8	24/48		0.0	
E	8-10		0930	0.0	(96-102") pulverized red brick; damp; no odor. (102-105") pulverized concrete with TR pulverized red brick; damp; no odor. (105-120") F wet dense cinder ash with LI small/M black cinders; wet; no odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.
	F/C = FINE TO COARSE		E = 96-120 in..
	M/C = MEDIUM TO COARSE		F = 120-144 in.
			G = 144-168 in.
			H = 168-192 in.
			I = 192-216 in.
			J = 216-240 in.
			K = 240-264 in.
			L = 264-288 in.

# TEST BORING LOG



72 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B38  
Date: 2/22/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: >10.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1240	0.0	(0-3") large gravel. (3-22") F/M brown sand with F black cinder ash throughout SO small/M rounded stone. (22-24") F black cinder ash; soft.
B	2-4	48/48		0.0	(24-30") F/M black cinder ash with SO small/M stone. (30-31") F/M brown silty sand. (31-32") white stone. (32-72") F/M brown silty sand with small/M rounded stone throughout; black cinder ash at 34-68"; SO brick and coal throughout.
C	4-6	48/48	1300	0.0	
D	6-8	12/48		0.0	(108-110") F black cinder ash. (110-120") F/M brown silty sand with M/large rounded stones.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:  
(2-6) Duplicate sample collected at 1300 from C.

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B39  
Date: 3/1/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVI  
Boring Depth: 14.0'  
Depth to Water: 11.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	19/24	1110	0.0	(5-24") F/M brown sand and gravel; dry; no odor.
B	2-4	28/48		0.0	(44-52") F/M brown/light brown sand and gravel; dry; no odor. (52-59") black cinders with SO cinder ash and SO gravel; dry; no odor. (59-65") pulverized concrete. (65-72") F/M brown sand and gravel; dry; no odor.
C	4-6			0.0	
D	6-8	35/48	1130	0.0	
E	8-10			0.0	(85-89") F/C brown sand with LI gravel; saturated from surface runoff or perched; light petroleum odor. (89-105") F/M brown sand with TR gravel; damp; no odor. (105-120") F brown sand and silt with LI gravel; dry; no odor.
F	10-12	34/48		0	
G	12-14	34/48		0	(134-141") F brown/dark brown silt with SO gravel; wet. (141-168") F/C brown sand and gravel; wet; no odor.

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B40  
Date: 3/1/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 14.0'  
Depth to Water: 12.8'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	16/24	1140	0.0	(8-10") topsoil/gravel; damp; no odor. (10-24") F/M brown sand with SO gravel; dry; no odor.
B	2-4	48/48		0.0	(24-48") F/C brown/light brown sand and gravel; damp from surficial runoff; no odor. (48-52") F dark brown/brown sand and silt with TR gravel; damp; no odor. (52-58") dense black cinder ash with SO small/M TR gray stained sand with black cinders; damp; heavy petroleum odor. (58-61") pulverized stone. (61-72") F brown sand with LI cinder ash and LI gravel; dry; no odor.
C	4-6		1159	0.0	
D	6-8	34/48		0.0	(86-90") F/M brown sand with SO black stained sand and TR gravel; wet; no odor. (92-110") F dark sand with LI silt and LI gravel; dry; no odor. (110-120") F/M brown sand with TR gravel; dry; no odor.
E	8-10			0.0	
F	10-12	33/48		0.0	(135-153") F/M brown sand with LI gravel and TR silt; damp; no odor. (153-168") F brown sand with TR silt LI gravel; wet; no odor.
G	12-14	33/48		0.0	

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B41  
Date: 3/1/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1330	0.0	(0-10") F dark brown sand and gravel; dry; no odor. (10-13") crusted stone. (13-24") F loose cinder ash with TR small black cinder; dry; no odor.
B	2-4	24/48		0.0	(48-55") F loose cinder ash with TR small black cinders. (55-61") F/C light gray/light brown sand and gravel; dry; no odor. (61-72") small/M black cinders with TR cinder ash; wet; no odor.
C	4-6		1345	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B42  
Date: 2/22/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 8.5'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1210	0.0	(0-3") large gravel. (3-20") F/C black cinder ash mixed with C black sand. (20-24") concrete bits with SO M brown sand.
B	2-4	36/48		0.0	(36-72") F/C black cinder ash with M/C coal bits and cinder ash; loose red and white porous cinders/cinder ash; stone; concrete at 72".
C	4-6		1225	0.0	
D	6-8	24/48		0.0	(96-100") F/C black cinder ash with M/C coal bits and cinder ash; pliable red and white porous cinders/cinder ash. (100-120") F/M silty brown sand; wet at 100".
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B43

Date: 2/22/00

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.75'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0930	0.0	(0-24") F/M dark brown/brown sand and gravel with SO small/M black cinders and SO cinder ash; dry; no odor.
B	2-4	48/48		0.0	(24-28") F brown sand with LI gravel; dry; no odor. (28-39") F/M brown sand with SO gravel and TR red brick (pulverized); dry; no odor. (39-50") F brown sand and gravel; dry; no odor. (50-68") F/M light brown sand with SO gravel; damp; no odor. (68-72") F light brown sand with SO silt; TR gravel; saturated with water; no odor.
C	4-6		0945	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B44  
Date: 2/22/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 9.5'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	19/24	1000	0.0	(5-9") F/M pulverized stone/gravel with SO light brown F/M sand; wet from surficial snow; no odor. (9-24") F/M brown/dark brown sand with SO gravel with SO small black cinders and SO pulverized red stone (not brick) at 16-18"; dry; no odor.
B	2-4	28/48		0.0	(44-72") F/M brown sand and pulverized red brick and gravel; dry; no odor.
C	4-6			0.0	
D	6-8	38/48		0.0	
E	8-10		1020	0.0	(82-93") pulverized red brick with SO F/M dark sand and SO gravel; dry; no odor. (93-98") pulverized yellow brick and gravel; damp; no odor. (98-115") black cinder ash with TR gravel; damp; no odor. (115-120") F black/gray silt and sand; wet; no odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B45  
Date: 2/22/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.5'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	16/24	1025	0.0	(10-14") gravel. (14-24") F/C brown sand with SO gravel; damp; no odor.
B	2-4	43/48		0.0	(29-39") F/C light brown sand and LI large gravel; damp; no odor. (39-45") F dark brown sand with SO silt and SO gravel; damp; no odor. (45-72") F/M brown/dark brown sand with SO pulverized brick and SO gravel with a white, putty like substance; wet at 67"; no odor.
C	4-6		1100	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B46

Date: 2/18/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: (see below)

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	22/24	1300	0.0	(2-6") F/C light brown sand; wet; no odor. (6-10") F/C brown sand with SO gravel; wet; no odor. (23-24") F brown sand with SO gravel; wet; no odor.
B	2-4	23/48		0.0	(49-57") F/C light brown sand with LI gravel; wet; no odor. (57-64") F/M brown sand with SO gravel; wet; no odor. (64-72") pulverized red brick with SO F/M brown sand and TR gravel; wet; no odor
C	4-6		1315	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

**Comments:**  
Due to snow and rain, unable to determine water table.

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B47

Date: 2/18/00

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1315	0.0	(0-4") gravel and C yellow/brown sand. (4-10") poorly graded F/M brown sand with coal bits; black cinder ash; cinder ash stone and brick; M rounded gravel throughout interval. (20-24") brick with SO coal.
B	2-4	36/48		0.0	(36-48") F/M brown sand with brick; coal bits; cinder ash; M/large rounded gravel. (48-53") concrete with concrete powder. F/M dense silty brown sand; large gravel band at 68-70"; wet at 64".
C	4-6		1330	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B48  
Date: 2/22/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 5.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1108	0.0	(0-3") gravel. (3-14") F black cinder ash with SO cinder ash stone and SO M brown sand. (14-24") F/M light brown silty sand.
B	2-4	48/48	1125	0.0	(24-72") F/M brown silty sand mixed with small/M rounded stone, small black specs throughout interval and wet at 62".
C	4-6		1125	0.0	
D	6-8	24/48		0.0	(96-120") poorly sorted F/C brown sand with SO small/M rounded stones; wet.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	(+2.0-5.0') PVC Solid Riser (5.0-10.0') PVC Screen One inch sump at 10.0'	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B49  
Date: 2/18/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 9.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1345	0.0	(0-4") stone/gravel. (4-24") F/M brown/dark brown sand and gravel; dry; no odor.
B	2-4	36/48		0.0	(36-44") F/M brown sand and gravel; dry; no odor. (44-52") pulverized stone and gravel. (52-56") F/M brown/dark brown sand; dry; no odor. (56-72") F/M brown/light brown sand and gravel; dry; no odor.
C	4-6			0.0	
D	6-8	24/48		0.0	
E	8-10		1400	0.0	(96-106") F/M gray sand and gravel; dry; no odor. (106-112") F/M brown sand with SO gravel; wet; no odor. (112-120") F/M gray stained sand and silt with SO gravel; wet; heavy petroleum odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B50  
Date: 3/7/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 5.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	16/24	0930	0.0	(8-24") F/M dark brown sand with LI small/large black cinders and SO gravel with TR F/dense cinder ash ; dry; no odor.
B	2-4	26/48		0.0	(46-55") F/M brown/dark brown sand with SO large/M black cinders and SO gravel; dry; no odor. (55-70") F/C brown/light brown sand with LI gravel; wet; no odor. (70-72") F/M dark brown sand with SO gravel; wet; no odor.
C	4-6		0950	0.0	
D	6-8	28/48		0.0	(92-120") F/C light brown sand with SO grave and TR small black cinders; wet; no odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B51  
Date: 2/18/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 9.5'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1055	0.0	(0-2") gravel. (2-8") F black cinder ash mixed with SO brown sand. (8-24") poorly sorted M/C brown sand with cinder ash; gravel at 18-24"; soft.
B	2-4	48/48		0.0	(24-72") poorly sorted brown to orange/brown M/C sand mixed with M/large jagged gravel, SO coal bits observed at 60"; small/M rounded gravel throughout the interval.
C	4-6			0.0	
D	6-8	30/48		0.0	
E	8-10		1110	0.0	(90-98") poorly sorted M/C brown sand with small rounded gravel. (98-100") gray gravel and sand. (100-120") poorly sorted M/C brown sand with small/large rounded gravel; wet at 116".
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B52

Date: 2/18/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 7.8'


Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1107	0.0	(0-22") F/M brown/dark brown/yellow/tan sand and gravel; dry; no odor. (22-24") F/M brown sand and gravel; dry; no odor.
B	2-4	48/48		0.0	(24-34") F/M brown sand and gravel; dry; no odor. (34-50") F/M brown sand and gravel; dry; no odor. (50-72") F/M gray sand and gravel; dry; no odor.
C	4-6			0.0	
D	6-8	35/48	1120	0.0	
E	8-10			0.0	(72-74") concrete dust. (74-79") F/M brown sand with SO gravel; dry; no odor. (79-113") F/C brown sand with LI gravel; wet at 84"; no odor. (113-120") F brown sand and silt with TR gravel; saturated with water; no odor.
F	10-12				
G	12-14				

Comments:  
(0-2") Duplicate sample collected at 1107 from A.

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG

 <p>272 West Exchange Street, Suite 101 Providence, Rhode Island 02903 (401) 421-0398 Fax (401) 421-5731</p>					Site: Providence Gas Company 642 Allens Avenue, Providence, RI		Boring No.: B53	
					ESS Job No: P151-002		Date: 2/18/00	
					Driller.: Environmental Drilling, Inc.		Within 100' of Water: No	
					Well Diameter: N/A		Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM	
					Drilling Method: Geoprobe		Boring Depth: 10.0'	
Sample Method: 4' Acetate Sampler		Depth to Water: 6.0'		Logged By: Nicole Murry				
Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)			
A	0-2	24/24	1130	0.0	(0-5") gravel with M/C brown/orange sand. (5-10") concrete and concrete dust. (10-20") very F black cinder ash with SO large rounded gravel at 12". (20-24") poorly sorted M/C brown/orange silty sand with small rounded gravel.			
B	2-4	24/48		0.0	(48-50") dense F/M brown silty sand. (50-52") F black cinder ash with small/M rounded gravel. (52-72") F/M brown silty sand with SO large gravel at 60", small rounded gravel throughout; coal bits at 70". Wet at 72".			
C	4-6		1145	0.0				
D	6-8	26/48		0.0	(84-90") F/M brown silty sand with SO large gravel at 60", small rounded gravel throughout the interval with SO coal bits, wet. (90-96") very F black cinder ash and coal, wet. (96-110") F, dense brown silt and sand with gravel at 105". (110-120") C brown/orange sand with large gravel, wet.			
E	8-10			0.0				
F	10-12							
G	12-14							
<u>Comments:</u>								
<b>PROPORTIONS USED</b>		<b>ABBREVIATIONS</b>		<b>Well Construction</b>	<b>DEPTH INTERVALS</b>			
TRACE (TR)	0-10%	F = FINE		N/A	A = 0-24 in.			
LITTLE (LI)	10-20%	M = MEDIUM			G = 144-168 in.			
SOME (SO)	20-35%	C = COARSE			H = 168-192 in.			
AND	35-50%	F/M = FINE TO MEDIUM			I = 192-216 in.			
		F/C = FINE TO COARSE			J = 216-240 in.			
		M/C = MEDIUM TO COARSE			K = 240-264 in.			
					L = 264-288 in.			

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B54

Date: 2/18/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1140	0.0	(0-2") F/C brown sand and gravel; dry; no odor. (2-24") F/M dark brown sand with SO gravel and TR small black cinders; dry; no odor.
B	2-4	24/48	1205	0.0	(48-54") F/M brown sand and gravel with SO pulverized red brick; dry; no odor. (54-68") pulverized brick/fill (68-72") F/C light brown/brown sand and gravel; wet; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (L) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B55  
Date: 3/2/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1205	0.0	(0-4") black/dark brown topsoil and gravel; damp; no odor. (4-24") F/M brown sand; dry; no odor.
B	2-4	14/48		0.0	(58-63") F/M brown/dark brown sand with SO gravel; damp; no odor. (63-72") F/M dark brown sand with SO gravel; wet; no odor.
C	4-6	14/48	1225	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B56  
Date: 2/18/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	20/24	0910	0.0	(4-6") topsoil/gravel. (6-24") F/M brown/dark brown sand with SO pulverized red brick and TR small black cinders and TR yellow brick; dry; no odor.  Note: This interval was sampled on 2/18/00.
B	2-4	22/48		0.0	(30-55") pulverized red brick with SO brown sand, TR gravel, and SO coal/ash; dry; no odor. (55-60") pulverized concrete. (60-72") wood chips; wet; no odor.  Note: This interval was sampled on 3/2/00.
C	4-6		1038	0.0	
D	6-8				
E	8-10				
	10-12				
G	12-14				

**Comments:**

Note: The area surrounding boring B56 provided poor recovery and heavy refusal. As a result, the surface and subsurface samples were obtained on different dates and are identified on a different Chain of Custody.

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B57

Date: 3/2/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1145	0.0	(0-2") F/C dark brown topsoil and gravel. (2-24") F/C brown sand with SO gravel; dry; no odor.
B	2-4	37/48		0.0	(35-40") F brown sand with LI gravel; dry; no odor. (40-44") pulverized concrete. (44-55") F/M dark brown sand with LI gravel and SO small/M black cinders and LI pulverized red brick; dry; no odor. (55-72") F brown/dark brown sand with LI silt and TR gravel; dry; no odor.
C	4-6		1200	0.0	
D	6-8	18/48		0.0	(102-110") F brown/dark brown sand with TR cinder ash and TR concrete dust; damp no odor. (110-114") F/M brown sand with TR cinder ash and TR gravel; damp; no odor. (114-120") F brown silt and sand with LI gravel; wet; no odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		G = 144-168 in.
SOME (SO) 20-35%	C = COARSE		B = 24-48 in.
AND 35-50%	F/M = FINE TO MEDIUM		H = 168-192 in.
	F/C = FINE TO COARSE		C = 48-72 in.
	M/C = MEDIUM TO COARSE		I = 192-216 in.
			D = 72-96 in.
			J = 216-240 in.
			E = 96-120 in.
			K = 240-264 in.
			F = 120-144 in.
			L = 264-288 in.

## TEST BORING LOG



West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: B58  
 Date: 3/2/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVM  
 Boring Depth: 10.0'  
 Depth to Water: 4.0'  
 Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1105	0.0	(0-3") F/M dark brown sand with LI gravel; damp; no odor. (3-6") F/C brown sand and gravel; dry; no odor. (6-24") F/M brown sand with TR gravel; dry; no odor.
B	2-4	48/48	1119	0.0	(24-33") F/M brown sand with SO gravel; dry; no odor. (33-41") F/M dark brown sand and gravel with SO small/M black cinders; dry; no odor. (41-44") F/M brown sand and gravel with SO large black cinders and SO yellow brick; dry; no odor. (44-72") F/M brown/dark brown sand and silt with SO M/large black cinders and SO gravel; wet; no odor.
C	4-6			0.0	
D	6-8	14/48		0.0	(104-113") F dark brown/brown silt and sand with SO gravel; wet; no odor. (113-120") F/M brown sand with LI gravel; wet; no odor.
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B59

Date: 2/18/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.5'

Logged By: Nicole Murry

Depth (Intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1215	0.0	(0-16") poorly sorted M/C brown/orange sand with small/M rounded gravel throughout the interval. (16-20") M brown sand with coal bits, brick, and gravel. (20-22") F black cinder ash. (22-24") concrete with SO M brown sand.
B	2-4	48/48		0.0	(24-30") brick and M brown sand; cinder ash at 28-30". (30-55") F/M brown silty sand; SO gravel; cinder ash and coal bits; cinder ash stone at 53-55". (55-64") concrete and concrete powder. (64-72") F brown silty sand; wet at 66".
C	4-6		1240	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B60

Date: 2/18/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 8.5'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1010	0.0	(0-2") large gravel. (2-6") concrete and white concrete powder. (6-12") F/M brown sand mixed with F black cinder ash and cinder ash stone and black porous cinders. (12-16") F brown silty sand. (16-24") poorly sorted silty sand and F/C brown and gray sand mixed with small/large gravel; SO coal flakes.
B	2-4	36/48		2.0	(36-48") poorly sorted M/C brown sand with SO orange sand; M/large gravel; SO coal flakes. (48-60") M/C brown sand with SO orange sand; small/large rounded gravel throughout the interval. (60-72") poorly sorted M/C brown/dark brown sand with small to M gravel throughout the interval; iron staining at (66-68").
C	4-6		1030		
D	6-8	24/48		4.0	
E	8-10				(96-108") poorly sorted brown sand mixed with small/large gravel; cinder ash and porous cinders at 106"; wet at 104"; (108-110") dense brown silty sand. (110-120") large wet sand and small gravel; heavy petroleum odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: B61
ESS Job No: P151-002	Date: 2/16/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmen. Instruments, Inc., Model 580B OVN
Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 5.3'
	Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1535	0.0	(0-5") F/C brown/dark tan sand; TR F gravel; TR silt. (5-10") F/C black ash/cinders. (10-24") F brown sand; LI silt; TR black staining; no odor
B	2-4	43/48		0.0	(29-48") F brown sand; TR silt; TR F gravel; dry; no odor. (48-72") F brown sand; LI orange and red porous cinders and staining at 53-68"; TR black stains; TR silt; wet at 63"; no odor
C	4-6		1545	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)                    0-10%	F = FINE	N/A	A = 0-24 in.                    G = 144-168 in.
LITTLE (LI)                    10-20%	M = MEDIUM		B = 24-48 in.                    H = 168-192 in.
SOME (SO)                    20-35%	C = COARSE		C = 48-72 in.                    I = 192-216 in.
AND                            35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.                    J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.                    K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.                    L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B62  
Date: 2/16/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 3.8'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1515	0.0	(0-8") F/C light brown/brown sand and gravel; damp; no odor. (8-20") F/C light brown sand and gravel; damp; no odor. (20-24") F/M brown sand with LI gravel; damp; no odor.
B	2-4	48/48	1530	0.0	(24-31") F/M brown/dark brown sand and gravel. (31-39") F brown/dark brown sand with LI gravel; dry; no odor. (39-72") F brown silt with TR sand; saturated with water at 44"; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B64

Date: 2/18/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.8'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (In.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0825	0.0	(0-6") M light brown sand with large gravel and SO small rounded stone. (6-24") poorly sorted M/C dark brown sand mixed with SO small rounded gravel; very F black cinder ash throughout the interval; SO brick.
B	2-4	36/48	0840	0.0	(36-60") poorly sorted M/C brown sand with silt mixed with small/M rounded gravel; coal bits at (40"); cinder ash band at (38"); large stone at (44"). (60-66") F brown silty sand. (66-68") very F brown/orange silt. (68-72") F brown silty sand; saturation at 70%.
C	4-6				
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (L)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



72 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B65

Date: 2/18/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.3'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0840	0.0	(0-2") topsoil with SO gravel; dry; no odor. (2-6") F/M light brown sand with SO gravel and SO small/M black cinders; dry; no odor. (6-20") F/M brown/dark brown/black sand and gravel with SO black cinders; dry; no odor. (20-24") F/M dense black cinder ash with SO black cinders; dry; no odor.
B	2-4	48/48	0858	0.0	(24-26") F/M brown sand and small/M black cinders; dry; no odor. (26-48") F/M brown sand and gravel; dry; no odor. (48-72") F/M brown sand with SO silt and SO gravel; saturated; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: B19  
Date: 1/27/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVI  
Boring Depth: 6.0'  
Depth to Water: 4.0'  
Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1420	1.4	(0-24") F/C brown/dark brown sand; LI gravel; TR silt; TR porous cinders; TR cinder ash.
B	2-4	36/48	1435	0.0	(36-48") F/C brown sand; LI gravel; TR silt; TR porous cinders and cinder ash; dry. (48-72) F/C brown sand; LI gravel; TR silt, TR porous cinders; TR cinder and ash; moist/wet.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: B66

Date: 2/18/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 6.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	14/24	0900	0.0	(10-14") M brown sand with M/large gravel; SO brick, cinder ash and cinder ash stone. (14-24") concrete and concrete powder with SO light brown sand.
B	2-4	12/48		0.0	(60-64") F/M light brown/gray silty sand mixed with coal bits, cinder ash stone, and SO orange porous cinders. (64-66") concrete and concrete powder with F/M gray sand and silty sand. (66-72") dense very F brown silty sand; SO small rounded stone at 68"; saturation at 70".
C	4-6		0915	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (L)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C05  
Date: 1/11/00  
Within 100' of Water: No  
Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.5'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0920	0.0	(0-24") F/M brown with organic silty sand; large stones at 8" and 10-12". Iron staining at 12". Spots of black stained soil throughout.
B	2-4	24/48		0.0	(48-56") F/M brown sand; small bits of black flakes; brick. (56-60") M brown sand with black staining. Soil and metal chips with small/M/large gravel bits. (60-72") F/M dense, black, silty sand. Gravel and metal chips 68-72". Saturation at 70%.
C	4-6		0940	0.0	
D	6-8			0.0	
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C06

Date: 1/11/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 4.0'

Depth to Water: 3.5'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0840	0.0	(0-24") dark brown silty sand, M brown sand, dense; heavy root content; SO M stones throughout the interval; brick at 6".
B	2-4	24/48	0855	0.0	(36-40") dark brown silty sand; M brown sand, dense. heavy root content, SO M stones throughout. (40-48") M brown sand with F brick pieces. Saturation at 42". Refusal at 48".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C07

Date: 1/11/00

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVI

Boring Depth: 6.0'

Depth to Water: 4.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1000	0.0	(0-1") grass and roots. (1-10") F/M brown sand with large gravel mixed with small bits of brick. (10-12") large stone. (12-24") M brown sand, moist, mixed with M gravel; bits of brick and stained soil; faint TR of cinder ash throughout the interval;
B	2-4	36/48	1015	0.0	(36-72") M/C brown sand with M rounded gravel throughout the interval, SO metal flakes observed at 44" and coal bits at 48"; heavy iron staining/saturated at 48"
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

**PROPORTIONS USED**

TRACE (TR) 0-10%  
LITTLE (L) 10-20%  
SOME (SO) 20-35%  
AND 35-50%

**ABBREVIATIONS**

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

**Well Construction**

N/A

**DEPTH INTERVALS**

A = 0-24 in. G = 144-168 in.  
B = 24-48 in. H = 168-192 in.  
C = 48-72 in. I = 192-216 in.  
D = 72-96 in. J = 216-240 in.  
E = 96-120 in. K = 240-264 in.  
F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: C09
ESS Job No: P151-002	Date: 1/11/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 5.5'
	Logged By: Nicole Murry

Depth (Intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1100	0.0	(0-5") M/C light brown sand with small gravel. (5-7") black stained M sand, slight odor. (7-24") F/M silty sand, light brown tan mixed with small/M gravel, shale, gravel, and TR stained black soil throughout the interval; iron staining 18-24".
B	2-4	36/48		0.0	(36-52") M/C brown sand mixed with small gravel and C stone and shale; heavy iron stained M silty sand with M gravel. (52-60") Dense iron stained, M silty sand with M gravel. (60-64") Black petroleum-stained M sand, dense; heavy odor. (64-72") F/M brown silty sand, dense with M/large gravel. Saturation at 66".
C	4-6		1120	941.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C10  
Date: 1/11/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1200	0.0	(0-4") F/M brown sand roots. (4-10") M/C brown sand with M gravel. (10-24") F/M brown sand with silt, moist; mixed with large gravel and shale stone.
B	2-4	24/48		0.0	(24-48") No recovery. (48-72") M brown sand with M gravel; petroleum staining at 70-72". Saturation at 60".
C	4-6		1205	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C18

Date: 12/13/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 5.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1534	1.4	(0-6") F/M brown sand with bits of gravel. (6-12") F/M brown sand with SO bits of coal. (12-24") gray/light tan sandy silt with gravel and bits of coal; cinders 20-24".
B	2-4	30/48		1.4	(30-36") gray sandy silt, gravel. (36-60") Large grain sand; heavy cinders; large gravel with coal bits. (60-62") Blue shale. (62-72") Large grained sand with gravel, heavy iron staining, saturated.
C	4-6			0.0	
D	6-8	44/48	1545	2.8	
E	8-10			2.8	(78-82") M/large grain. (82-120") M, brown sand with SO small rounded gravel; saturated.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C19

Date: 1/11/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: N/D

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1600	1.0	(0-4") Roots, gravel, brown M sand, SO brick. (4-8") M sand SO roots, SO silt. (8-10") Band of coal ash. (10-24") M/C gravel, M silty sand, teal colored sand with large stones and M light brown/tan silty sand.
B	2-4	24/48		0.0	(48-72") Misc. M black sandy silt with gravel or sandy silt; cinders 42-48".
C	4-6	24/48	1610	2.1	
D	6-8	24/48		2.1	
E	8-10				
F	10-12				
G	12-14				

**Comments:**

Depth to groundwater could not be determined due to poor recovery. N/D = not determined

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LJ)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C20  
Date: 1/11/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 5.0'  
Depth to Water: 5.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1020	1.4	(0-2") Dark brown M sand. (2-6") Dark brown M sand and small stones mixed with cinder ash. (6-12") Dark brown/black M sand, small rounded stones. (12-24") M light green, yellow sand mixed with cinder ash; iron staining.
B	2-4	34/48		0.0	(24-26") M brown sand, small stones. (26-60") M Green/yellow sand with gravel bits and small rounded stones and SO large gravel deposits of green and black spots at 4.5-5.0'; wet at 58"; refusal at 60". No sample at this time.
C	4-6		1045	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:  
Four borings attempted, refusal at 3 locations approximately 1' below ground surface

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (L)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



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 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: C21  
 Date: 1/11/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVM  
 Boring Depth: 10.0'  
 Depth to Water: 3.5'  
 Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1105	1.4	(0-2") M brown sand. (2-6") Cinder ash with SO brown M sand and gravel. (6-24") F/M silty sand, stained light tan/light blue; moist at 20".
B	2-4	36/48		0.0	(36-48") F/M silty sand, stained light tan/light blue; moist. (48-72") F/M light brown sand; saturated 40".
C	4-6			0.0	
D	6-8	36/48	1134	0.0	
E	8-10				(72-76") Remnants of F/M silty sand stained, light blue. (76-120") M green/brown sand, dense, with SO small rounded stones.
F	10-12				
G	12-14				

Comments:  
 located near well number RCA 11.

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



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Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: C22  
 Date: 2/15/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVM  
 Boring Depth: 6.0'  
 Depth to Water: 5.8'  
 Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0945	0.0	(0-24") F/C brown sand with LI F/C gravel, TR silt, ceramic fragments at 10". TR coal cinders at 8-14"; dry; no odor.
B	2-4	22/48	0955	0.0	(50-72") F/C brown sand with LI F/C gravel and TR silt with blue-green paste/powder on gravel at 66"-67", peach F/M chalky-powder. Wet at 69"; no odor.
C	4-6				
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

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Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C23

Date: 2/14/00

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1045	0.0	(0-4") F/M brown sand with LI gravel; wet from surficial snow; no odor. (4-7") pulverized gravel with LI brown sand; dry; no odor. (7-17") F/M brown sand with LI gravel and SO blue stained sand; dry. (17-24") F/M dark brown sand with SO black stained sand; dry; light odor.
B	2-4	45/48	1055	1.9	(27-32") F/M dark brown sand with LI gravel; dry; no odor. (32-55) F/M black stained sand with SO gravel; dry; heavy odor. (55-62") F black stained sand with SO silt; saturated with water; heavy odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

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Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C24  
Date: 2/15/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.5'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	23/24	1000	1.9	(1-24") F/M brown sand with SO gravel; dry; light odor at 22-24" with dark blue/gray staining.
B	2-4	37/48	1010	0.0	(35-55") F/M brown sand with SO faint gray staining and SO gravel with LI wood chips at 44-46"; dry; no odor. (55-57") pulverized stone. (57-66") F/M brown/dark brown /black sand with SO gravel; dry; light odor in black sand approximately 60-62". (66-72") F/M brown/gray sand with LI gravel and TR silt; wet; faint odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

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Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C25  
Date: 2/24/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 14.0'  
Depth to Water: 13.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1110	0.0	(0-10") M brown sand with SO rounded stone. (10-20") M/C brown sand with heavy small gravel at 7-10". (20-24") F Dark brown sand with black cinder ash mixed with SO M rounded stones; wet.
B	2-4	48/48		0.0	(24-30") M to large gravel. (30-38") Dark gray silty sand, cinder ash saturated. Perched water table. (38-72") Poorly sorted M/C brown, light brown, yellow sand. M to large gravel throughout the interval with SO coal at 38-48"; heavy orange mottle bands at 48-72".
C	4-6			0.0	
D	6-8	28/48		0.0	
E	8-10		1135	0.0	(92-98") M to large gravel. (98-120") Poorly sorted M/C light brown and yellow sand. Heavy M gravel throughout the interval with heavy black cinder ash at 98-110".
F	10-12	24/48		0.0	
G	12-14	24/48		0.0	(150-156") M/C brown/dark brown sand with M/large gravel throughout the interval. (156-157") Large stone. (157-168") M/C brown sand saturated at 157".

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



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Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C26  
Date: 2/15/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 5.8'  
Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	17/24	1045	0.0	(0-24") F/M brown sand; SO F/C gravel; TR silt; TR coal cinders/ash; wet from 7-11" - due to rain/snow melting.
B	2-4	41/48		0.0	(31-36") F/M brown sand; SO F/C gravel; TR silt; TR coal; cinders/ash; moist. (36-39") C white gravel; dry odor. (39-47") F brown/black/green sand; LI F; TR F gravel stained black and green; dry odor. (47-50") F/M brown/tan sand; TR C sand; TR silt - tinted green. (50-54") F brown/black/green sand; LI fires; TR F stained orange/red (maybe oxidized) and green staining. (54-72") F brown sand; LI F/C gravel; TR silt; green staining throughout the interval; wet at 70"; (green staining heavier at water table and below).
C	4-6		1055	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

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Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C27  
Date: 2/15/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVI  
Boring Depth: 6.0'  
Depth to Water: 5.3'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1100	9.6	(0-14") F/M brown sand with SO gravel and SO blue staining throughout interval with TR gray, shiny cinders; dry; no odor. (14-18") F/M blue/brown stained sand with TR orange sand; dry; light odor. (18-24") light blue/light brown stained sand and gravel; dry; light odor.
B	2-4	48/48	1110	0.0	(24-36") F/M blue/green/light green/brown stained sand (mostly light green); SO gravel; dry; no odor. (36-40") F light brown sand; dry; no odor. (40-60") F/M light brown/brown sand with SO gravel; dry; no odor. (60-72") F/M brown sand with SO gravel; wet; gray staining at 72"; light odor - heavier odor at 72".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



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Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C28  
Date: 2/15/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 4.0'  
Depth to Water: N/D  
Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1125	0.0	(0-8") F light brown sand and gravel; TR silt; TR coal cinders. (8-12") C white gravel; moist. (12-24") F/M brown/tan sand; black/gray group at 17-22"; TR silt; moist; no odor, TR black staining at (20-22"); orange-rust color staining at (22-24"); dry.
B	2-4	17/24	1135	0.0	(31-48") F/M brown/tan sand; LI F/C gravel; TR silt; TR black staining; orange/rust color staining at 20-22"; dry. Refusal at 48"
C	4-6				
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

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Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C29

Date: 2/15/00

Within 100' of Water: No

Instrument: Thermo Environmental Instruments, Inc., Model 580B OVI

Boring Depth: 6.0'

Depth to Water: 6.0'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1310	0.0	(0-24") F/M brown sand; LI F/C gravel; TR silt; TR black coal/cinders; tinted green from 7"-18"; wet from surface water.
B	2-4	42/48		0.0	(30-40") F/M brown sand; SO gravel; wet from snow; no odor. (40-63") F/M brown/black sand with black staining; TR gravel; dry; odor present. (63-72") F/M black sand; LI gravel; wet at 72"; heavy odor
C	4-6		1320	5.8	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



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 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: C30  
 Date: 2/24/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
 Boring Depth: 14.0'  
 Depth to Water: 13.0'  
 Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1015	0.0	(0-3") large gravel; M brown sand with M rounded stone. (3-5") concrete and concrete powder. (5-24") poorly sorted M/C brown sand with silt; large gravel, brick, and coal bits throughout the interval.
B	2-4	36/48		0.0	(36-72") poorly sorted M/C brown silty sand; small/large rounded stone throughout the interval; brick cinder ash throughout; cinder ash band at 66-70".
C	4-6		1040	0.0	
D	6-8	36/48		0.0	(96-100") M brown sand; heavy cinder ash; brick. (100-120") poorly sorted M/C light brown sand with small/M rounded stone and brick throughout the interval.
E	8-10			0.0	
	10-12	36/48		0.0	(132-168") M/C brown sand with small/M rounded stone; saturated at 156".
G	12-14	36/48		0.0	

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C31

Date: 2/16/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.8'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	20/24	0945	0.0	(4-8") F/M brown sand and gravel; dry; no odor. (8-13") pulverized stone/concrete. (13-16") F/C red/brown sand with LI gravel; dry; no odor. (16-24") F/M brown sand with TR gravel; dry; no odor.
B	2-4	48/48	0958	0.0	(24-42") F brown sand and silt with TR small black cinders and with SO blue to blue/green staining in this interval. (42-72") F brown silt and sand with TR gravel; wet at 57; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



72 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C32

Date: 2/16/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1320	0.0	(0-4") F/M brown topsoil; wet from surficial runoff; no odor. (4-10") F/M brown sand with SO gravel and SO blue staining; dry; no odor. (10-24") F/M brown sand with LI gravel and TR shiny coal chips; dry; no odor.
B	2-4	32/48		0.0	(40-44") F/M brown sand with blue staining and SO gravel; dry; no odor. (44-72") F/M brown sand and gravel; dry; no odor.
C	4-6			0.0	
D	6-8	38/48		0.0	
E	8-10		1330	0.0	(82-90") F/M brown/dark brown sand with SO blue stained sand and LI gravel; dry; no odor. (90-120") F/M brown sand and gravel (90-100" - solid gravel); wet at 110"; odor at 120"
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C33  
Date: 2/24/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 14.0'  
Depth to Water: 12.5'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0850	0.0	(0-2") large gravel. (2-24") M brown sand with brick; cinder ash stone/cinder ash and small/M stone.
B	2-4	30/48		0.0	(42-48") poorly sorted brown sand with small/M stone; coal bits at 44-46". (48-72") F/M brown silty sand with small/M rounded stones; dense at (50-72"); large jagged stone at 68".
C	4-6				
D	6-8	36/48		0.0	
E	8-10				(96-120") poorly sorted M/C brown sand with small/large rounded and large jagged stone throughout the interval; heavy cinders at 116"; SO coal bits observed also.
F	10-12	48/48	0905	0.0	
G	12-14	48/48		0.0	(120-168") poorly sorted M/C brown sand with small/large rounded stone; SO cinder ash, concrete coal bits; saturation at 152".

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (L)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C34

Date: 2/24/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 14.0'

Depth to Water: 13.6'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0755	0.0	(0-12") M/C brown sand with small rounded gravel. (12-24") F/M brown silty sand; large gray jagged gravel throughout; cinder ash stone at 8-16".
B	2-4	36/48		0.0	(36-42") M dark brown sand with small/large rounded stone. (42-72") F dense light brown silty sand with small rounded stone.
C	4-6			0.0	
D	6-8	48/48		0.0	(72-80") dark brown silty sand with M rounded stones. (80-120") poorly sorted M/C brown sand with small/large rounded stones; white stone at 110"; SO coal ash at 116".
E	8-10			0.0	
F	10-12	48/48	0825	0.0	(120-164") poorly graded M/C brown sand with small/large rounded gravel, small coal bits, and large jagged stone. (164-168") light gray silt and M sand with small rounded stone; wet.
G	12-14	48/48	0825	0.0	

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (L) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C35

Date: 2/15/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 6.0'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	17/24	1355	0.0	(7-24") F/M brown sand with SO F/C gravel and TR silt with red/orange stained silt at 12-14"; dry; no odor.
B	2-4	41/48		0.0	(31-44") F/M brown sand; LI F gravel; TR silt; TR red brick fragments; TR black coal cinders/ash; dry. (44-46") C gray/white gravel; dry. (46-54") F/M brown sand; LI F gravel; TR silt; TR red brick fragments; TR black coal cinders/ash; dry. (54-72") F/C brown sand; TR F gravel; TR silt; TR black cinders/ash; wet at 71"; no odor.
C	4-6		1405	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C36  
Date: 2/16/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 4.3'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	22/24	1010	0.0	(2-3") asphalt. (3-24") F/M brown sand with SO gravel and TR small black cinders with TR light green/blue staining; wet at (2-8") from surficial runoff; no odor.
B	2-4	48/48	1020	0.0	(24-48") F brown silt with TR sand and SO clay and TR gravel; dry; no odor. (48-72") F brown silt with TR sand and TR clay; wet; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: C37
ESS Job No: P151-002	Date: 2/15/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environment Instruments, Inc., Model 580B O.V.
Drilling Method: Geoprobe	Boring Depth: 10.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 9.5'
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	11/24	1405	0.0	(13-24") F/M brown sand and gravel; wet from surface water at 13-16"; dry; no odor.
B	2-4	46/48		0.0	(26-31") F/M brown sand with SO gravel; wet from surficial runoff; no odor. (31-56") F/M brown sand with SO gravel; dry; no odor. (56-72") F brown sand with TR gravel; dry; no odor.
C	4-6			0.0	
D	6-8			0.0	
E	8-10		1410	0.0	(72-86") F/M brown sand with LI gravel; dry; no odor. (86-120") F/C brown sand with TR gravel; wet at 114".
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C38  
Date: 2/24/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 14.0'  
Depth to Water: 12.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1204	0.0	(0-24") poorly sorted M/C large brown gravel at 0-2"; brick and white concrete at 14"; coal bits at 22".
B	2-4	48/48		0.0	(24-72") poorly sorted M/C brown/light brown and yellow sand; large gravel throughout; F gray jagged stone at 48-72"; iron staining at 68"; dry.
C	4-6			0.0	
D	6-8	48/48		0.0	
E	8-10		1216	0.0	(72-120") poorly sorted M/C light brown sand; small/M gray jagged gravel throughout; concrete at 96"; pink stone at 114"; coal bits throughout; dry.
F	10-12	48/48			
G	12-14	48/48			(120-168") poorly sorted M/C light brown sand; small/M gray jagged gravel throughout; coal bits throughout; saturation at 144"; heavy petroleum odor.

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C39  
Date: 2/24/00  
Within 100' of Water: No  
Instrument: Thermo Environmen.  
Instruments, Inc., Model 580B OVM  
Boring Depth: 14.0'  
Depth to Water: 12.0' Perched (2-6')  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1255	0.0	(0-24") M/C brown sand; small/M rounded stones thought; F heavy black cinder ash at 8" with large cinder ash stone at 10".
B	2-4	48/48		0.0	(24-32") F brown silty sand. (32-72") M/C light brown, brown, and yellow sands; small rounded stones throughout; wet.
C	4-6				
D	6-8	48/48		0.0	(72-76") F/M dense brown sand; wet. (76-120") M/C brown, light brown, and yellow sands; small rounded stones throughout.
E	8-10				
F	10-12	48/48	1305		(120-168") poorly sorted M/C brown sand; small/large rounded stones; heavy coal throughout; cor throughout; saturation at 144%.
G	12-14	48/48			

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C40  
Date: 2/15/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 10.0'  
Logged By: Jason Wiggins

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	16/24	1430		(8-24") F/C brown sand with SO F/C gravel; TR silt; dry; no odor.
B	2-4	43/48			(29-72") F/C brown/light brown sand; SO F gravel; black staining at (31-33"); TR silt; no odor.
C	4-6				
D	6-8	38/48			
E	8-10		1445		(82-92") F/M gray sand; TR F gravel; TR silt very dry. (92-103") F/M brown sand; LI fine gravel; TR silt; green staining at 99-103"; dry; no odor; TR staining - black coal/ash/cinders. (103-115") F/C brown sand and F/C gravel; TR silt; TR black coal ash/cinders; dry; no odor. Wet at 120°.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LJ)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C41  
Date: 2/16/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVI  
Boring Depth: 10.0'  
Depth to Water: 7.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	21/24	1038	0.0	(3-7") asphalt and gravel. (7-12") F/C light brown sand and gravel; wet; no odor. (12-24") F/M brown sand and gravel and TR small black cinders; wet - from surficial runoff; no odor.
B	2-4	48/48		0.0	(24-34") F/M brown sand with SO gravel; dry; no odor. (34-72") F/M light brown sand; dry (damp in SO areas of interval; no odor.
C	4-6		1050	0.0	
D	6-8	40/48		0.0	(80-84") F/M brown sand with TR gravel; dry; no odor. (84-87") F/M dark brown sand and gravel; wet; no odor. (87-120") F/C brown sand with SO gravel; wet; no odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C42

Date: 2/15/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.8'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1515	0.0	(0-6") dark brown topsoil and F sand; SO silt, organics, and roots; moist. (6-24") F brown sand; TR gravel; LI silt; TR black coal/ash at 6-8" and 12-13".
B	2-4	39/48		0.0	(33-39") F brown sand; LI silt; TR C black gravel sized cinders; moist. (39-72") F brown/tan sand and silt; moist until 70", then wet; no odor.
C	4-6		1525		
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C43  
Date: 2/15/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 5.0'  
Depth to Water: N/D  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	15/24	1450	0.0	(9-14") gravel/asphalt. (14-16") F/C brown sand; dry; no odor.
B	2-4	36/48		0.0	(36-72") F/C brown sand and gravel; blue-green staining throughout the interval; pulverized stone at approximately 60".
C	4-6		1500	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

Refusal at 5' - heavy utilities in the area - took sample from interval C.

N/D= Not Determined

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: C44
ESS Job No: P151-002	Date: 2/24/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 14.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 12.0'
	Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1320	0.0	(0-12") M brown sand; soft, heavy roots; grass at 0". (12-24") white stone bits. (13-24") F/M light brown sand; small rounded stone throughout.
B	2-4	36/48		0.0	(36-48") M brown sand with rounded stone. (48-56") loose light brown silty sand. (56-72") poorly sorted M/C light brown, brown, and gray sand; heavy large stone content; cinder ash at 66" and coal bits at 70".
C	4-6			0.0	
D	6-8			0.0	
E	8-10		1340	0.0	(72-120") poorly sorted M/C brown sand; heavy small/M rounded stone content, including small rounded stone at (96-120").
F	10-12			0.0	
G	12-14			0.0	M (120-168") Poorly sorted LT Brown and yellow sand with sm-m rounded stones; saturated at 144.

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		G = 144-168 in.
SOME (SO) 20-35%	C = COARSE		B = 24-48 in.
AND 35-50%	F/M = FINE TO MEDIUM		H = 168-192 in.
	F/C = FINE TO COARSE		I = 192-216 in.
	M/C = MEDIUM TO COARSE		J = 216-240 in.
			K = 240-264 in.
			L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C45

Date: 2/24/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 5808 OVM

Boring Depth: 14.0'

Depth to Water: 11.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1400	0.0	(0-8") M dark brown sand with roots. (8-24") F/M brown silty sand; bits of coal and small/M rounded stone throughout.
B	2-4	36/48		0.0	(36-72") M/C brown silty sand; SO black cinder ash throughout; small/M rounded stones throughout.
C	4-6		1408	0.0	
D	6-8			0.0	
E	8-10				(72-96") M/C brown silty sand; SO black cinder ash throughout; small/M rounded stones throughout. (96-120") M/C brown sand with small/M rounded stone.
F	10-12	48/48			(120-168") M/C brown sand with small/M rounded stone; saturated at 132".
G	12-14	48/48			

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C46

Date: 3/24/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 14.0'

Depth to Water: 9.6'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1420	0.0	(0-7") M dark brown sand with roots; M stone. (7-10") C black cinder ash and M stone. (10-24") F/M brown silty sand; M stones throughout.
B	2-4	36/48		0.0	(36-72") poorly sorted F/C brown sand; small/M stones throughout; F black cinder ash at 38"; C gray gravel band at 60".
C	4-6		1435		
D	6-8	36/48		0.0	(84-90") F brown silty sand. (90-92") white stone with C black cinder ash. (92-120") F light brown silty sand; large stone at 110-120"; wet at 116".
E	8-10				
F	10-12	48/48			(120-134") F light brown silty sand; C black cinder ash at 124; saturated at 126". (134-168") M/C brown loose silty sand.
G	12-14	48/48			

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		G = 144-168 in.
SOME (SO) 20-35%	C = COARSE		B = 24-48 in.
AND 35-50%	F/M = FINE TO MEDIUM		H = 168-192 in.
	F/C = FINE TO COARSE		C = 48-72 in.
	M/C = MEDIUM TO COARSE		I = 192-216 in.
			D = 72-96 in.
			J = 216-240 in.
			E = 96-120 in..
			K = 240-264 in.
			F = 120-144 in.
			L = 264-288 in.

# TEST BORING LOG



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Providence, Rhode Island 02903  
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Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C47  
Date: 2/17/00  
Within 100' of Water: No  
Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 5.6'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1520	0.0	(0-8") F/M dark brown sand with small rounded gravel. (8-24") dense light brown silty sand.
B	2-4	48/48		0.0	(24-72") F/M light brown silty sand; wet at 68".
C	4-6		1535		
D	6-8	48/48		0.0	(72-120") very F/M light brown silty sand; saturation at 84.
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: C48  
 Date: 2/16/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVM  
 Boring Depth: 4.0'  
 Depth to Water: 2.5'  
 Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1400	0.0	(0-7") asphalt/gravel. (7-16") F/M brown sand and gravel; dry; no odor. (16-24") F brown sand with TR silt; dry; no odor.
B	2-4	48/48	1410	0.0	(24-31") F/M brown sand with SO gravel; dry; no odor. (31-48") F brown sand; dry; no odor. (48-72") F brown silt with TR sand; saturated; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



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(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C49

Date: 2/16/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.8'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	18/24	1327	0.0	(0-11") asphalt/gravel. (11-13") F/C light brown sand with LI gravel; damp; no odor. (13-22") F/M brown sand and gravel; damp; no odor. (22-24") dense black cinder ash with SO small/M black cinders; dry; no odor.
B	2-4	48/48	1340	0.0	(24-30") F/M brown sand with SO gravel and SO TR small/M cinders; dry; no odor. (30-34") small/M black cinders and cinder ash (dense); dry; no odor. (34-38") F/M dark brown sand with TR black cinders; dry; odor present. (38-51") black shiny coal/coal tar and cinder ash (dense) and TR gravel; dry; odor present. (51-72") F brown sand and silt with TR gravel; wet at 54-72"; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C49A  
Date: 6/20/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2				No (0-2') taken- delineation boring
B	2-4	48/48		0.0	(24-26") F/M brown/gray sand with SO gravel; dry; no odor. (26-34") F/M orange/black cinders; dry; no odor. (34-42") F/M black cinder ash; dry; no odor. (42-49") F/M brown/gray sand with LI gravel; wet at 60"; no odor.
C	4-6		1440	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:  
Delineation Boring

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



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Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C49B

Date: 6/20/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2				No (0-2') taken- delineation boring
B	2-4	42/48		0.0	(30-72") F/M brown sand with LI gravel and SO shiny black cinder ash with pulverized stone; dry; no odor.. Wet at 60".
C	4-6	42/48	1500	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:  
Delineation Boring

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C49C  
Date: 6/20/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 4.5'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2				No (0-2') taken- delineation boring
B	2-4	46/48		0.0	(26-31") F/M brown sand and pulverized stone; dry; no odor. (31-43") F/M brown/light brown sand with SO black cinder and ash and TR gravel; dry; no odor. (43-53") F brown and gray sand; damp; no odor. (54-72") F brown sand and SO silt and TR gravel; saturated with water; no odor.
C	4-6		1515	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:  
Delineation Boring

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LJ)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



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Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C49D

Date: 6/20/00

Within 100' of Water: No

Instrument: Thermo Environmen  
Instruments, Inc., Model 580B OVI

Boring Depth: 6.0'

Depth to Water: 5.75'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2				No (0-2') taken- delineation boring
B	2-4	48/48		0.0	(24-51") F/M brown sand with SO orange/black cinders and LI gravel; dry; no odor. (51-72") F/M brown sand with TR black cinders and SO crushed stone; wet at 68"; no odor.
C	4-6		1530	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS		Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	M = MEDIUM	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	C = COARSE	F/M = FINE TO MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	F/C = FINE TO COARSE	M/C = MEDIUM TO COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%				D = 72-96 in.	J = 216-240 in.
					E = 96-120 in.	K = 240-264 in.
					F = 120-144 in.	L = 264-288 in.



# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: C49E  
 Date: 6/20/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVM  
 Boring Depth: 6.0'  
 Depth to Water: 5.0'  
 Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2				No (0-2') taken- delineation boring
B	2-4	46/48		0.0	(26-42") F brown sand with LI gravel; dry; no odor. (42-72") F/M brown sand and gravel with SO pulverized concrete and TR black cinders from 65"; no odor.
C	4-6		1600	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:  
 Sample taken above the water table.

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C49F

Date: 6/20/00

Within 100' of Water:

Instrument: Thermo Env.  
Instruments, Inc., Model 5.

Boring Depth: 6.0'

Depth to Water: 6.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2				No (0-2') taken- delineation boring
B	2-4	41/48		0.0	(31-38") F dark brown sand with TR gravel and SO orange/black cinders; dry; no odor. (38-52") F brown sand with LI gravel; dry; no odor. (52-72") F brown sand with TR silt; wet at 72"; no odor.
C	4-6		1615	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C49G

Date: 6/20/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0

Depth to Water: 6.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2				No (0-2') taken- delineation boring
B	2-4	48/48		0.0	(24-55") F/M brown sand with SO gravel and LI black cinder ash; dry; no odor. (55-72") F light brown sand with TR gravel and TR silt; wet at 72"; no odor.
C	4-6		1620	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C50

Date: 2/16/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.8'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	22/24	1345	0.0	(2-6") asphalt. (6-10") F/C orange/brown sand; LI F gravel; TR silt; moist; no odor (10-20") F brown sand; LI gravel; LI silt; TR coal ash and cinders; moist; no odor (20-24") F brown/black sand and coal ash; SO gravel; TR silt; moist; no odor.
B	2-4	48/48		0.0	(24-36") F brown/black sand and coal ash; SO gravel; TR silt; moist; no odor. (36-72") F brown sand; TR F gravel; TR silt; TR black coal ash/cinders at 49-51"; very slight red staining at 44-47"; water table at 66"; no odor
C	4-6		1355	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: C51  
 Date: 2/16/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVM  
 Boring Depth: 6.0'  
 Depth to Water: 4.3'  
 Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	18/24	1255	0.0	(6-10") asphalt/gravel. (10-14") F/M brown sand and gravel; dry; no odor. (14-24") F/M brown/black sand with SO gravel and LI black cinder ash (dense); dry; no odor.
B	2-4	48/48	1310	0.0	(24-33") F/M brown sand and black cinder ash (dense) with SO small/M black cinder and SO gravel; dry; no odor. (33-46") F/M brown sand with SO gravel; damp; no odor. (46-72") F brown sand with SO silt and TR gravel; wet/saturated; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C52

Date: 2/16/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.8'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1240	0.0	(0-5") black/gray asphalt and gravel. (5-8") F/M orange/brown sand and gravel; TR silt; dry; no odor. (8-15") F brown stained sand; LI F gravel; TR silt; dry. (15-24") F/C black cinder ash/coal; dry; no odor.
B	2-4	48/48	1250	0.0	(24-32") F/C black cinder ash/coal and F/C brown sand; TR gravel; TR silt; dry; no odor. (32-52") F brown/dark brown sand; LI gravel; TR silt; TR black staining; TR coal/ash; dry/moist. (52-72") F brown sand; SO silt; wet at 57"; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C53

Date: 2/16/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 7.3'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1134	0.0	(0-3") topsoil/grass; wet from surficial runoff. (3-18") F/M brown sand with SO gravel and SO small/M black cinders; dry; no odor. (18-24") F brown sand with LI gravel; dry; no odor.
B	2-4	48/48	1140	0.0	(24-30") F/M brown sand with SO gravel and SO pink/light red staining and LI small black cinders; dry; no odor. (30-34") F/M orange/red stained sand with LI black cinder; dry; (34-41") F light purple sand with LI gravel; dry; no odor. (41-46") F light brown sand with TR gravel; dry; no odor. (46-72") F brown sand with TR silt and TR gravel; damp; no odor.
C	4-6			0.0	
D	6-8	44/48		0.0	(76-80") F brown sand with TR gravel; dry; no odor. (80-87") F brown sand and silt; damp; no odor. (87-120") F brown sand and silt; saturated with water; no odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	(+1.0-4.8') PVC Solid Riser (4.8-9.8') PVC Screen One inch sump at 9.8'	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM F/C = FINE TO COARSE M/C = MEDIUM TO COARSE		D = 72-96 in. E = 96-120 in. F = 120-144 in.	J = 216-240 in. K = 240-264 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C55

Date: 2/16/00

Within 100' of Water: No

Instrument: Thermo Environmen.  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.8'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	18/24	1102	0.0	(6-8") asphalt/gravel. (8-16") F/C light brown sand with SO black stained sand; wet; no odor. (16-21") F/M brown sand and gravel; dry; no odor. (21-24") F/M dark brown sand with TR gravel; dry; no odor.
B	2-4	48/48		0.0	(24-28") F/M brown/black sand with SO gravel; dry; no odor. (28-36") F/M brown sand with LI gravel; dry; no odor. (36-72") F brown sand with SO silt and TR gravel; wet at 70"; no odor.
C	4-6		1115	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C56

Date: 2/16/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 6.0'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	19/24	1315	0.0	(0-4") black asphalt/gravel. (4-24") F/M brown sand; LI gravel; TR porous cinders; TR black coal ash and staining; TR silt; moist; no odor.
B	2-4	38/48		0.0	(34-65") F brown sand; LI F/C gravel; LI black staining and coal ash; TR silt; moist/wet ; no odor. (65-72") F brown sand; TR silt; moist; no odor.
C	4-6		1325	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C57  
Date: 2/16/00  
Within 100' of Water: No  
Instrument: Thermo Environmer.  
Instruments, Inc., Model 580B OVI  
Boring Depth: 6.0'  
Depth to Water: 4.75'  
Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1550	0.0	(0-5") F/C brown/tan sand and F/C gravel; TR silt; moist; no odor. (5-12") F/C black cinder/coal ash; LI gravel; moist/wet; no odor. (12-24") F brown/tan sand; LI black coal ash; TR silt; moist; no odor.
B	2-4	45/48	1600	0.0	(27-31") F brown/tan sand; LI black coal ash; TR silt; moist; no odor. (31-72") F brown/tan sand; LI silt; TR black staining; wet at 56"; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: C58  
 Date: 2/16/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVM  
 Boring Depth: 6.0'  
 Depth to Water: 4.0'  
 Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	18/24	1450	0.0	(6-14") F brown sand and C gravel; TR silt; wet; no odor. (14-24") F brown sand and black coal ash; TR silt; dry; no odor.
B	2-4	48/48	1500	0.0	(24-29") F dark brown/black sand and coal ash/cinders; moist; no odor. (29-38") light brown/tan silt; TR sand; moist; no odor. (38-72") brown/gray silt; TR sand; orange staining at 38-43"; wet at 48"; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C59

Date: 2/16/00

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	19/24	1445	0.0	(5-18") F/M brown/dark brown sand with SO gravel; damp; no odor. (18-24") F brown sand and silt; dry; no odor.
B	2-4	48/48	1500	0.0	(24-55") F brown sand with SO silt; dry; no odor. (55-72") F brown sand with SO silt; saturated with water; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903

(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C64

Date: 2/11/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.75'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1035	0.0	(0-10") F/M brown sand and gravel; wet from snow; no odor. (10-15") F light brown sand with LI gravel; dry; no odor. (15-24") F loose black cinder ash with SO M/small black cinders and SO brown sand; dry; no odor.
B	2-4	48/48	1050	0.0	(24-31") F loose, black cinder ash with SO F light brown sand and SO small black dull cinders; dry; no odor. (31-35") F brown/red sand with TR gravel and LI black cinders and cinder ash; dry; no odor. (35-38") dense black cinder ash with SO small/M black cinders; dry; no odor. (38-42") F/M brown/red sand with LI gravel and TR black cinders; dry; no odor. (42-72") F brown sand - uniform; wet at 68"; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.
	F/C = FINE TO COARSE		E = 96-120 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.
			G = 144-168 in.
			H = 168-192 in.
			I = 192-216 in.
			J = 216-240 in.
			K = 240-264 in.
			L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C65

Date: 2/11/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 8.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1105	0.0	(0-10") F/M brown sand and gravel; wet from melting snow; no odor. (10-14") F light brown sand with LI gravel and TR black cinders; dry; no odor. (22-24") F/M black cinder ash and small/large black cinders; dry; no odor.
B	2-4	47/48	1120	0.0	(25-30") black cinder ash and F brown/dark brown sand with TR gravel; TR black cinders; dry; no odor. (30-36") F/M black cinder ash with SO gravel and SO black small/large cinders; dry; no odor. (36-42") F/M black/light purple/brown sand with SO gravel and SO dull black M/large cinders; dry; no odor. (42-50") black cinders and cinder ash with SO gravel; dry; no odor. (50-72") F brown sand with TR gravel; damp; no odor.
C	4-6			0.0	
D	6-8	33/48		0.0	(87-92") F/M brown sand and black cinder ash; dry; no odor. (92-97") F/M brown sand with TR cinder ash; dry; no odor. (97-115") F brown sand and silt; saturated; no odor. (115-120") F/C brown sand; wet; no odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: C66
ESS Job No: P151-002	Date: 2/11/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 5.5'
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1315	0.0	(0-8") F/M brown sand and gravel; dry; no odor. (8-14") F yellow sand with TR gravel; dry; no odor. (14-18") F light brown sand; dry; no odor. (18-24") F/M dark brown sand with SO gravel; dry; no odor.
B	2-4	48/48		0.0	(24-26") F light brown sand; dry; no odor. (26-30") F black/dark brown sand with SO small black cinders; dry; no odor. (30-36") F/M brown sand and gravel; dry; no odor. (36-50") F brown sand with TR gravel; dry; no odor. (50-72") F/M brown sand with SO gravel; TR silt; saturated at 66"; no odor.
C	4-6		1330	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		G = 144-168 in.
SOME (SO) 20-35%	C = COARSE		B = 24-48 in.
AND 35-50%	F/M = FINE TO MEDIUM		H = 168-192 in.
	F/C = FINE TO COARSE		C = 48-72 in.
	M/C = MEDIUM TO COARSE		I = 192-216 in.
			D = 72-96 in.
			J = 216-240 in.
			E = 96-120 in.
			K = 240-264 in.
			F = 120-144 in.
			L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C67  
Date: 2/11/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 7.5'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	18/24	1345	0.0	(6-10") topsoil/brown sand and gravel. (10-14") F/M brown sand with SO gravel; dry; no odor. (14-20") F/M dark brown sand with TR silt and SO gravel; dry; no odor. (20-24") F loose black cinder ash with LI small black cinders; dry; no odor.
B	2-4	44/48		0.0	(28-36") F/M dark brown sand and gravel with SO black cinders and SO gravel; dry; no odor. (36-38") F brown/tan sand; damp; no odor. (38-72") F brown sand with TR silt; damp; no odor.
C	4-6		1355	0.0	
D	6-8	35/48		0.0	(85-89") F brown sand with TR gravel; dry; no odor. (89-93") F black stained sand; wet; no odor. (93-96") F light brown sand; wet; no odor. (96-101") F/C brown sand and gravel; wet; no odor. (101-120") F brown sand with LI silt and SO gravel; saturated with water at 91"; no odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: C68
ESS Job No: P151-002	Date: 2/17/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 10.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 6.5'
	Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0910	0.0	(0-8") F/M light brown sand mixed with SO M gravel. (8-11") F black cinder ash with cinder ash stone and orange wood fibers. (11-13") white gravel; concrete. (13-24") very F black cinder ash mixed with coal bits and small/M gravel.
B	2-4	38/48		0.0	(36-56") M light brown sand with small/M white jagged gravel. (56-72") very F to F light brown sand; moist.
C	4-6		0924	0.0	
D	6-8	38/48		0.0	(82-90") very F to F light brown sand; moist. (90-120") very F saturated, dense, light brown silty sand.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		G = 144-168 in.
SOME (SO) 20-35%	C = COARSE		B = 24-48 in.
AND 35-50%	F/M = FINE TO MEDIUM		H = 168-192 in.
	F/C = FINE TO COARSE		I = 192-216 in.
	M/C = MEDIUM TO COARSE		D = 72-96 in.
			J = 216-240 in.
			E = 96-120 in..
			K = 240-264 in.
			F = 120-144 in.
			L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C69

Date: 2/11/00

Within 100' of Water: No

Instrument: Thermo Environmer.  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 7.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1450	0.0	(0-5") brown topsoil; wet; no odor. (5-8") F/M brown sand and SO gravel; dry; no odor. (8-17") dense cinder ash with SO small/large black cinders; dry; no odor. (17-24") F tan/brown sand with SO red staining; dry; no odor.
B	2-4	48/48	1505	0.0	(24-36") F brown/black stained sand with TR small black cinders; dry; no odor. (36-51") F brown sand with LI gravel; dry; no odor. (51-72") F/M brown sand; dry; no odor.
C	4-6			0.0	
D	6-8	41/48		0.0	(79-83") F brown sand with TR gravel; dry; no odor. (83-87") F black stained sand and gravel; wet; no odor. (87-120") F/M brown sand with TR gravel; saturated with water; no odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C70  
Date: 2/11/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 8.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1425	0.0	(0-6") F/M dark brown sand and gravel; wet from snow; no odor. (6-13") F/M brown sand and gravel; dry; no odor. (13-24") loose black cinder ash with SO M/large black cinders; dry; no odor.
B	2-4	43/48		0.0	(29-58") F/M brown/dark brown/black/yellow stained sand with SO cinder ash and SO black cinders; dry; no odor. (56-60") black cinders and cinder ash; dry; no odor. (60-65") pulverized stone. (65-72") F brown sand with LI gravel; dry; no odor.
C	4-6		1440	0.0	
D	6-8	32/48		0.0	
E	8-10			0.0	(82-87") F/M brown sand and gravel; dry; no odor. (87-95") F brown sand with LI gravel; damp; no odor. (96-120") F/C brown sand with LI gravel; saturated with water; no odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		G = 144-168 in.
SOME (SO) 20-35%	C = COARSE		B = 24-48 in.
AND 35-50%	F/M = FINE TO MEDIUM		H = 168-192 in.
	F/C = FINE TO COARSE		I = 192-216 in.
	M/C = MEDIUM TO COARSE		J = 216-240 in.
			K = 240-264 in.
			L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: C71
ESS Job No: P151-002	Date: 2/11/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmen Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 10.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 4.0'
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1220	0.0	(0-4") F/M brown sand with SO gravel; dry; no odor. (4-8") F/M light brown sand with SO gravel; dry; no odor. (8-15") loose black cinder ash with SO small/M black cinders; dry; no odor. (15-24") F/M brown sand and black cinder ash; dry; no odor.
B	2-4	46/48	1230	0.0	(26-39") F/M brown sand and black F stained sand with SO gravel and SO M/large black cinders; dry; no odor. (39-43") black cinder ash and shiny/dull M/large black cinders; damp; no odor. (43-46") F brown sand and gravel (pulverized stone) damp; no odor. (46-70") F brown sand with TR silt and LI small black cinders; wet; no odor. (70-72") F/C brown sand with TR gravel; saturated with water; no odor.
C	4-6			0.0	
D	6-8	39/48		0.0	(81-83") F dark brown sand; damp; no odor. (83-89") F/M black stained/dark brown sand with SO small black cinders; damp; no odor. (89-120") F/C light brown sand; wet; no odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C72

Date: 2/11/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 7.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1135	0.0	(0-16") F/M brown sand and gravel with LI gray/green stained sand; dry ; no odor. (16-24") F light brown sand with LI gravel; dry; no odor.
B	2-4	48/48	1200	0.0	(24-28") dense black cinder ash with SO small/M dull black cinders and SO dark brown sand; dry; no odor. (28-32") dense black cinder ash and dark brown sand with SO small/M dull black cinders; dry; no odor. (32-36") black cinders and black cinder ash with LI gravel and LI brown sand; dry; no odor. (36-42") F/M brown sand and black cinder ash with TR cinders; dry; no odor. (42-49") F/M brown sand and black cinders; dry; no odor. (49-72") F/M brown sand and gravel; damp; no odor.
C	4-6				
D	6-8	32/48		0.0	(88-91") F brown sand with TR gravel; dry; no odor. (91-100") dense black cinder ash with SO small/M black cinders and SO gravel; wet; no odor. (100-120") F/C light brown sand; wet; no odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731


Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: C73
ESS Job No: P151-002	Date: 2/11/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 5.0'
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1000	0.0	(0-5") F/M brown sand and gravel; wet from surficial puddle; no odor. (5-11") F brown sand with LI black small/M cinders and SO gravel; dry; no odor. (11-24") F/M brown sand and gravel with SO red staining and blue/green staining; dry; no odor.
B	2-4	48/48	1020	0.0	(24-28") F/M brown sand with SO gravel; dry; no odor. (28-38") small/large black cinders with LI cinder ash; dry; no odor. (38-48") F/M dense cinder ash with TR F/M brown sand and SO M black cinders; dry; no odor. (48-72") F dense brown sand with SO gravel, LI porous black cinders, and TR silt at 60-72"; wet at 60"; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG

 2 West Exchange Street, Suite 101 Providence, Rhode Island 02903 (401) 421-0398 Fax (401) 421-5731					Site: Providence Gas Company 642 Allens Avenue, Providence, RI		Boring No.: C74	
					ESS Job No: P151-002		Date: 2/11/00	
					Driller.: Environmental Drilling, Inc.		Within 100' of Water: No	
					Well Diameter: N/A		Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM	
					Drilling Method: Geoprobe		Boring Depth: 10.0'	
					Sample Method: 4' Acetate Sampler		Depth to Water: ~4.5'	
							Logged By: Daryll Issa	
Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)			
A	0-2	24/24	0915		(0-8") F/C brown sand with SO gravel and SO small/M dull black cinders; dry; no odor. (8-24") F/M light brown sand with LI black stained sand and SO M dull black cinders; dry; no odor.			
B	2-4	42/48	0940	0.0	(30-36") F/M brown sand and TR gravel; wet from surface puddle; no odor. (36-50") F light brown sand with TR gravel; dry; no odor. (50-54") F/C brown sand and gravel; damp; no odor. (54-72") F brown sand with SO silt; wet; no odor.			
C	4-6			0.0				
D	6-8	42/48		0.0				
E	8-10			0.0	(78-84") F light brown sand; wet; no odor. (84-88") F/M brown sand with SO gravel; wet; no odor. (88-111") F/C brown sand with LI gravel; wet; no odor. (111-120") F/M brown sand with SO gravel and SO TR silt; wet; no odor.			
F	10-12							
G	12-14							
<u>Comments:</u>								
<b>PROPORTIONS USED</b>		<b>ABBREVIATIONS</b>		<b>Well Construction</b>		<b>DEPTH INTERVALS</b>		
TRACE (TR)	0-10%	F = FINE		N/A		A = 0-24 in.	G = 144-168 in.	
LITTLE (LI)	10-20%	M = MEDIUM				B = 24-48 in.	H = 168-192 in.	
SOME (SO)	20-35%	C = COARSE				C = 48-72 in.	I = 192-216 in.	
AND	35-50%	F/M = FINE TO MEDIUM				D = 72-96 in.	J = 216-240 in.	
		F/C = FINE TO COARSE				E = 96-120 in..	K = 240-264 in.	
		M/C = MEDIUM TO COARSE				F = 120-144 in.	L = 264-288 in.	

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: C75
ESS Job No: P151-002	Date: 2/10/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 14.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 11.8'
	Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1348	0.0	(0-2") brown sand; M gravel; roots. (2-10") SO brown sand mixed with C bits of concrete. (10-14") brown sand with roots with coal ash stone. (14-24") loose light brown sand.
B	2-4	36/48		0.0	(36-40") brown sand with M bits of coal ash stone. (40-72") poorly graded M brown sand mixed with small/large gravel; dry.
C	4-6			0.0	
D	6-8	44/48		0.0	
E	8-10		1415		(76-96") F loose light brown sand. (96-100") cinder ash stone band. (100-120") F loose light brown sand with SO small rounded stones.
F	10-12	48/48			
G	12-14	48/48			(120-168") M brown sand with M rounded stone; dense; Wet at 142".

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (L) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C76

Date: 2/10/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 14.0'

Depth to Water: 12.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1315	0.0	(0-4") topsoil and gravel. (4-24") F/M brown sand with LI black stained sand throughout the interval; SO blue/green staining in 4-24"; SO black M/small dull cinders in interval; SO gravel throughout the interval; dry; no odor.
B	2-4	38/48		0.0	(34-55") F/M brown sand with SO gravel and LI small/M black cinders; dry; no odor. (55-72") large dull black cinders and cinder ash; dense; SO brown/dark brown/black stained sand and LI gravel; dry; light odor.
C	4-6			0.0	
D	6-8	25/48		0.0	(85-120") F/M brown/black stained sand and small/large shiny/dull black cinders with SO porous black/orange cinders and SO gravel; dry; light odor at 108-120".
E	8-10			0.0	
F	10-12	36/48	1338		(132-139") F/M brown/black sand with SO small black cinders; dry; no odor. (139-151") F loose black cinder ash with SO small/large black cinders; dry; no odor. (151-160") F light brown sand and silt; saturated with water; no odor. (160-168") F/C light brown sand; saturated with water; no odor.
G	12-14	36/48			

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C77

Date: 2/10/00

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 14.0'

Depth to Water: 12.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1310	0.0	(0-5") brown sand with roots and black stone; SO coal ash at 5". (5-10") concrete bits with white gravel and white/powder sand; loose. (10-24") M olive brown sand; soft; mixed with M rounded stone at 10-20"; iron stained soil at 18"; cinder ash stone at 20-24".
B	2-4	36/48		0.0	(36-48") dense brown sand; moist; large rounded gravel. (48-72") M brown and black sand mixed with brick; M/C cinder ash and cinder ash stone; brown wood chips at 68-70"; fibrous material (insulating material) at 72"
C	4-6			0.0	
D	6-8	24/48		0.0	
E	8-10		1250	0.0	(96-100") dense brown/black sand mixed with cinder ash, wood chips, and white fibrous material. (100-120") F black cinder ash mixed with M/large cinder ash stone; light loose yellow sand at 110-114".
F	10-12	24/48			
G	12-14	24/48			
(144-150") brown wet sand mixed with black cinder ash and cinder ash stone. (150-168") poorly sorted M/C brown sand with M/large rounded stone; large cobble at (160").					

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C78  
Date: 2/9/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 7.75'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1405	0.0	(0-4") dark brown topsoil. (4-8") F/M orange/brown sand with SO gravel; dry; no odor. (8-24") F/M brown sand with SO gravel/stones; dry; no odor.
B	2-4	48/48		0.0	(24-28") F/M brown sand with SO gravel; dry; no odor. (28-33") F black cinder ash and M dull black cinders; dry; no odor. (33-72") F/M brown sand with TR gravel; dry; no odor.
C	4-6			0.0	
D	6-8	46/48	1415	0.0	(74-88") F brown sand with SO silt and SO black stained sand/loose stones; damp; no odor. (88-120") F brown sand and silt with TR gravel; saturated with water; no odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C79

Date: 2/10/00

Within 100' of Water: No

Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.25'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1130	0.0	(0-3") snow saturated topsoil. (3-8") F/M red brown sand with SO small/M dull black cinders and TR gravel; dry; no odor. (8-15") F/M brown gray sand with gravel and TR wood; dry; no odor. (15-24") small/M gravel.
B	2-4	48/48		0.0	(24-28") F brown sand with SO gravel; dry; no odor. (28-57") F/M brown sand with LI gravel; dry; no odor. (57-72") F brown sand with TR gravel; dry; no odor; pulverized stone at 62-65".
C	4-6			0.0	
D	6-8	48/48		0.0	(72-77") F/M light brown sand; dry; no odor. (77-84") F/M brown sand and gravel; dry; no odor. (84-110") F/M brown sand with LI gravel; dry; no odor. (110-120") F brown/light brown sand and silt; saturated with water; no odor.
E	8-10		1150	0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



12 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: C80  
Date: 2/10/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 14.0'  
Depth to Water: not encountered  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1155	0.0	(0-12") F/M brown sand with small stones and roots throughout. (12-22") F white gravel with white sand/powder/cement; loose. (22-24") M brown sand with SO black ash.
B	2-4	40/48		0.0	(32-48") M light/dark brown sand; SO coal bits and orange porous cinders at 34-40". (48-72") M brown sand with bands of gravel at 50-52" and 64-66".
C	4-6			0.0	
D	6-8	40/48		0.0	(80-84") poorly sorted brown sand with M bits of gray gravel. (84-88") loose yellow sand. (88-120") dense light brown sand with SO silt; stones at 100".
E	8-10			0.0	
F	10-12	48/48	1215		(120-130") poorly sorted brown sand with M bits of gray gravel. (130-168") F/M loose brown sand.
G	12-14	48/48			

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: C81
ESS Job No: P151-002	Date: 2/10/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 14.0'
Sample Method: 4' Acetate Sampler	Depth to Water: not encountered
	Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1505	0.0	(0-12") M brown sand and roots mixed with small/M stone coal bits at 8"; SO black coal ash throughout. (12-22") concrete and white powder bits. (22-24") F/M brown silty sand, roots, and iron staining.
B	2-4	24/48		0.0	(48-50") brown sand with spots of black cinder ash and bits of coal. (50-52") dense gray silty sand. (52-72") M brown soil mixed with bits of coal; small/M gravel; heavy roots at 68-70"; cinder ash stone at 70-72".
C	4-6			0.0	
D	6-8	48/48		0.0	(72-76") brown sand with large cinder ash stone. (76-120) very F light yellow/brown silty sand.
E	8-10		1525	0.0	
F	10-12	48/48			(120-168) very fine, dense light yellow brown sand, silty.
G	12-14	48/48			

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: C82

Date: 2/10/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 14.0'

Depth to Water: 10.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1437	0.0	(0-2") topsoil. (2-14") F/M brown sand with LI large, dull black cinders and LI gravel; dry; no odor. (16-24") F brown sand with TR large, dull black cinders and TR gravel; wood chips at 14-18"; dry; no odor.
B	2-4	41/48		0.0	(31-32") wood chips. (32-72") F/M brown sand - uniform; dry; no odor.
C	4-6			0.0	
D	6-8	47/48		0.0	
E	8-10		1450	0.0	(73-98") F brown sand; dry; no odor. (98-120") F brown sand with SO silt; damp at 108-120"; no odor.
F	10-12	48/48			
G	12-14	48/48		0.0	(120-168") F brown sand and silt; saturated with water; no odor.

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: D01  
Date: 11/17/99  
Within 100' of Water: No  
Instrument: Thermo Environmen.  
Instruments, Inc., Model 580B OVR  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0945	0.0	(0-24") F/C Brown sand and gravel, dry, no odor.
B	2-4	46/48		0.0	(48-72") F/C brown sand and gravel. Heavy petroleum odor; stained soil at bottom. Wet at 60°.
C	4-6		1015	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D02

Date: 11/17/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1040	0.0	(0-24") F/C light brown/brown sand and gravel; dry; no odor.
B	2-4	24/48		767.0	(48-72") F/C light brown/brown sand and gravel; heavy petroleum impacted sand; black stained sand on bottom of interval; heavy odor. Wet at 60".
C	4-6		1105		
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LJ)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D03

Date: 11/17/99

Within 100' of Water: No

Instrument: Thermo Environmer.  
Instruments, Inc., Model 580B OVI

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1125	0.0	(0-24") F/C dark brown/brown sand and gravel with bands of red-stained, oxidized sand; light grayish/brown F sand; dry; no odor.
B	2-4	30/48		0.0	(42-60") F/C yellowish brown to dark brown sand and gravel. (60-72") F/C gray sand and gravel; heavy petroleum odor. Wet at 60".
C	4-6		1145	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (L)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D04

Date: 11/17/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.5'

Logged By: Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	18/24	1150	0.0	(6-24") F/C brown/dark brown sand and gravel; dry; no odor.
B	2-4	37/48		0.0	(35-72") F/C brown/dark brown sand and gravel. SO gray sand from 64-72". slight petroleum odor throughout entire interval. Wet at 66".
C	4-6		1200	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D05

Date: 11/17/99

Within 100' of Water: No

Instrument: Thermo Environmen  
Instruments, Inc., Model 580B OVR

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	16/24	1210	0.0	(8-24") F/C brown/dark brown sand and gravel; dry; no odor.
B	2-4	30/48		56.0	(42-58) F/C brown/dark brown sand and gravel; dry; no odor. (58-72") gray stained soils; wet; heavy petroleum odor.
C	4-6		1220	56.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D06

Date: 11/17/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	20/24	1235	0.0	(4-24") F/C brown sand and gravel; dry; no odor.
B	2-4	48/48		0.0	(24-72") F/C Brown sand with gravel, some petroleum odor. Wet at 60".
C	4-6		1250	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D07

Date: 11/17/99

Within 100' of Water: No

Instrument: Thermo Environmen  
Instruments, Inc., Model 580B OV

Boring Depth: 6.0'

Depth to Water: 5.5'

Logged By: Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1420	0.0	(0-24") F/C brown/dark brown sand and gravel; dry; no odor.
B	2-4	34/48		0.0	(38-44") F/C brown/dark brown sand with SO gravel; dry; no odor. (44-72") F/M gray sand with SO gravel darker at bottom; heavy petroleum odor. Wet at 66".
C	4-6		1440	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LJ)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: D08  
Date: 11/17/99  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 3.5'  
Logged By: Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	20/24	1445	0.0	(4-24") brown/dark brown sand and gravel; dry; no odor.
B	2-4	46/48		0.0	(26-72") F/C brown/dark brown sand and gravel with SO silt wet, strong petroleum odor near bottom of sample. Sheen observed
C	4-6		1445	0.0	
D	6-8	18/48		0.0	(102-120") M/C gray-stained sand with SO silt; wet; strong petroleum odor; sheen observed.
E	8-10		1510		
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (LJ)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D09

Date: 11/17/99

Within 100' of Water: No

Instrument: Thermo Environmen.  
Instruments, Inc., Model 580B OVR

Boring Depth: 10.0'

Depth to Water: 5.0'

Logged By: Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1530	0.0	(0-24") F/C brown/dark brown sand and gravel with LI red oxidized sand/silt at bottom 4"; dry; no odor.
B	2-4	28/48		0.0	(44-72") F/C yellow/gray sand; wet 60"; heavy petroleum odor.
C	4-6		1535	0.0	
D	6-8	36/48		0.0	(84-102") F/C gray-stained sand with SO silt and SO gravel; saturated with water; heavy petroleum odor. (102-120") M/C dark gray/black stained sand; noticable sheening on water; heavy petroleum odor.
E	8-10		1545	0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D10

Date: 11/17/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 6.0"

Logged By: Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	19/24	1600	0.0	(5-24") F/C brown/dark brown sand and gravel; dry; no odor.
B	2-4	6/48		0.0	(66-72") F/M gray stained sand and gravel; wet at bottom; petroleum odor.
C	4-6			0.0	
D	6-8	36/48		0.0	(84-120") F/M gray-stained sand and gravel; strong petroleum odor throughout interval; wet with petroleum sheening.
E	8-10		1610	0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (L)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D11

Date: 11/18/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	23/24	0905	0.0	(1-24") F/C brown/dark brown sand with LI gravel; dry no odor.
B	2-4	29/48		0.0	(43-72") F/C brown sand with SO gravel; wet at 60"; heavy petroleum odor from 48-72". Sheen observed.
C	4-6		0920	0.0	
D	6-8			0.0	
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: D12  
 Date: 11/18/99  
 Within 100' of Water: No  
 Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVM  
 Boring Depth: 6.0'  
 Depth to Water: 5.0'  
 Logged By: Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	20/24	0950		(4-24") F/C brown/light brown sand and gravel; dry; no odor.
B	2-4	24/48			(48-72") F/C brown sand and gravel; Wet at 60". Strong petroleum odor; sheening observed.
C	4-6		1015	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	N/A	A = 0-24 in.	G = 144-168 in.
LITTLE (L)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D13

Date: 11/18/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVI

Boring Depth: 10.0'

Depth to Water: 8.0'

Logged By: Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	21/24	1430	0.0	(3-24") F/M dark brown sand with SO gravel and SO pulverized concrete; dry; no odor.
B	2-4	30/48		0.0	(42-72") F/M brown sand with SO gravel and SO wood chips; dry; slight petroleum odor between 60-72".
C	4-6			0.0	
D	6-8	48/48		0.0	
E	8-10		1445	0.0	(72-120") F/C gray/black-stained sand and gravel with light silt; wet at 96". Sheen observed from 108-120"; heavy petroleum odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: D14  
Date: 11/18/99  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	23/24	1145	0.0	(1-24") F/C brown sand with SO gravel and SO black sand mixed in the middle of interval; dry; no odor.
B	2-4	30/48		0.0	(42-72") F/C brown/dark brown sand and gravel with LI pulverized stone; visual black staining from 60-72". wet at 60"; heavy petroleum odor throughout the interval.
C	4-6		1205	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	N/A	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D15

Date: 11/18/99

Within 100' of Water: No

Instrument: Thermo Environmen  
Instruments, Inc., Model 580B OVI

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	22/24	1230	0.0	(2-24") F/M light brown/dark brown sand and gravel with 6" of black cinder ash in center of interval; dry; burnt odor.
B	2-4	36/48		0.0	(36-72") F/C brown sand with TR gravel; wet at 60"; heavy petroleum odor.
C	4-6		1245	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D16

Date: 11/29/99

Within 100' of Water: No

Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 5.5'

Logged By: Daryll Issa/Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	20/24	1500	0.0	(0-24") F/C brown sand with cinders and gravel mixed in; dry; no odor.
B	2-4	31/48		0.8	(41-48") F/M dark brown sand with SO gravel; dry; no odor. (48-66") F/M brown sand with SO gravel; dry; no odor. (66-72") F/M gray/black sand with SO gravel; saturated with water, petroleum odor present.
C	4-6		1515	0.0	
D	6-8	20/48		0.0	
E	8-10			0.0	(100-120") F/M black sand with SO gravel mixed in; saturated with water, heavy petroleum odor; sheen present.
	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D17

Date: 11/29/99

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 5.0'

Logged By: Daryll Issa/Erik  
Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	23/24	1550	0.0	(1-6") F/C light brown sand with TR gravel mixed in. (6-24") F/M brown to dark brown sand and gravel; dry; no odor.
B	2-4	32/48		0.0	(40-54") F/C brown sand with TR gravel; dry; no odor. (54-72") F/M gray sand with SO silt; wet at 60"; petroleum odor; sheen observed.
C	4-6		1555	0.4	
D	6-8	11/24			(109-120") F/C dark brown/black sand with SO gravel mixed in; saturated with petroleum; petroleum odor present.
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE M = MEDIUM		A = 0-24 in. G = 144-168 in. B = 24-48 in. H = 168-192 in.
LITTLE (L) 10-20%	C = COARSE		C = 48-72 in. I = 192-216 in.
SOME (SO) 20-35%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
AND 35-50%	F/C = FINE TO COARSE M/C = MEDIUM TO COARSE		E = 96-120 in. K = 240-264 in. F = 120-144 in. L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D18

Date: 11/29/99

Within 100' of Water: No

Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 3.5'

Logged By: Daryll Issa/Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1615	0.0	(0-18") F/M brown sand with SO gravel; dry; no odor. (18-24") F/M gray sand with TR gravel; dry; no odor.
B	2-4	26/48		0.0	(42-54") F/M brown sand with TR gravel; dry; faint petroleum odor. (54-72") F/M dark brown/black sand with SO gravel mixed in; wet at 60°.; heavy petroleum odor, sheen observed.
C	4-6		1630	0.0	
D	6-8				
E	8-10				
	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D19

Date: 11/30/99

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 3.0'

Logged By: Daryll Issa/Erik  
Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	23/24	1005	0.0	(1-24") F/M brown sand and gravel; dry; no odor.
B	2-4	40/48		17.6	(36-54") F/M brown sand and gravel; 24-30"- dry; no odor; 42-54"- wet; no odor. (54-72") F/M black stained sand and gravel saturated with petroleum; heavy petroleum odor.
C	4-6	40/48	1015	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)	0-10%	F = FINE M = MEDIUM	A = 0-24 in.      G = 144-168 in. B = 24-48 in.      H = 168-192 in.
LITTLE (L)	10-20%	C = COARSE	C = 48-72 in.      I = 192-216 in.
SOME (SO)	20-35%	F/M = FINE TO MEDIUM	D = 72-96 in.      J = 216-240 in.
AND	35-50%	F/C = FINE TO COARSE M/C = MEDIUM TO COARSE	E = 96-120 in.      K = 240-264 in. F = 120-144 in.      L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D20

Date: 11/30/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.5'

Logged By: Daryll Issa/Erik  
Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	23/24	1045	0.0	(0-24") F/M brown sand with SO gravel; dry; no odor.
B	2-4	31/48		0.0	(36-60") F/M brown sand with TR gravel; damp; faint petroleum odor. (60-72") F/M gray/brown sand and silt; saturated with petroleum; heavy petroleum odor. (Bottom 3" F gray/brown sand; saturated with petroleum; heavy petroleum odor).
C	4-6	31/48	1100	0.0	
D	6-8				
E	8-10				
	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LJ)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D21

Date: 11/30/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVI

Boring Depth: 4.0'

Depth to Water: 4.5'

Logged By: Daryll Issa/Erik  
Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0930	0.4	(0-24") F/M brown sand with TR gravel and wood chips inside interval; damp; no odor. Light gray slate color near bottom 6".
B	2-4	48/48	0940	0.2	(24-72") F/M shiny black stained sand and gravel; wet at 54"; heavy petroleum odor, sheen observed.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D22

Date: 11/30/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.5'

Logged By: Daryll Issa/Erik  
Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	20/24	1355	0.0	(4-10") F/M black sand and asphalt with SO gravel. (10-24") F/M light brown sand with SO gravel; dry; no odor.
B	2-4	31/48		0.0	(41-66") F/M brown sand with TR gravel; dry; no odor. (66"-72") F/M brown sand with LI silt; saturated with water; no odor.
C	4-6		1410	0.0	
D	6-8				
E	8-10				
	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D23

Date: 11/30/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.5'

Logged By: Daryll Issa/Erik  
Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	20/24	1325	0.0	(4-24") F/M light to dark brown sand and gravel; dry; no odor.
B	2-4	32/48		0.0	(40-72") F/M light brown/dark brown sand with TR gravel; wet at 66"; no odor.
C	4-6		1335	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE M = MEDIUM		A = 0-24 in. G = 144-168 in. B = 24-48 in. H = 168-192 in.
LITTLE (LI) 10-20%	C = COARSE		C = 48-72 in. I = 192-216 in.
SOME (SO) 20-35%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
AND 35-50%	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



72 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D24

Date: 11/30/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.0'

Logged By: Daryll Issa/Erik  
Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1140	0.0	F/M light to dark brown sand and gravel; SO wood chips; iron oxidation at bottom 4"; damp at 24"; no odor.
B	2-4	38/48		0.0	(34-48") F/M reddish brown sand; SO gravel; no odor. (48-72") F/M gray sand; LI gravel; wet; strong petroleum odor.
C	4-6		1150	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D25

Date: 12/1/99

Within 100' of Water: No

Instrument: Thermo Environmen.  
Instruments, Inc., Model 580B OVR

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Daryll Issa/Erik  
Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0950	0.0	(0-24") F/M light brown to brown sand with SO gravel and TR brick fragments; dry; no odor.
B	2-4	34/48		0.0	(38-48") light brown to brown sand with SO TR gravel; dry; no odor. (48-60") F/C light brown uniform sand; dry; no odor. (60-72") F/M light brown to brown sand; wet; definite odor.
C	4-6		1030	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D26

Date: 12/1/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Daryll Issa/Erik  
Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1045	0.0	(0-24") F/M light brown to brown sand with SO gravel and TR brick fragments; dry; no odor.
B	2-4	30/48		0.0	(42-48") F/M light brown to brown sand with SO gravel; dry; faint petroleum odor. (48-66") F/C tan to brown sand and gravel; damp; faint petroleum odor. (66-72") F/M gray stained sand with TR gravel; wet at 60"; heavy petroleum odor; sheen observed
C	4-6		1105	0.0	
D	6-8				
E	8-10				
	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: D27
ESS Job No: P151-002	Date: 11/30/99
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmen Instruments, Inc., Model 580B OV
Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 5.0'
	Logged By: Daryll Issa/Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	22/24	1430	0.0	(2-24") F/M dark brown to black sand and gravel; cinders; dry; no odor.
B	2-4	34/48		0.0	(38-42") F/M gray/brown sand with TR silt; damp; no odor. (42-48") F/M gray/brown sand with TR silt; damp; no odor. (48-60") F/M uniform stained gray sand with TR gravel; damp; light petroleum odor. (60-66") F/M light gray stained sand; wet; petroleum odor. (66-72") F/M dark gray stained sand with TR gravel; saturated with petroleum; strong petroleum odor; sheen observed
C	4-6		1445	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



12 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D28

Date: 12/1/99

Within 100' of Water: No

Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM

Boring Depth: 6.0

Depth to Water: 5.5'

Logged By: Daryll Issa/Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1130	0.0	(0-12") F/M brown sand with LI gravel; dry; no odor. (12-16.") F/C black stained sand, gravel, and cinders; dry; no odor. (16-24") F/M sand with TR gravel; dry; no odor.
B	2-4	36/48		0.0	(36-66") F/M light brown to brown sand with SO gravel and black cinders; dry; damp near 60"; no odor. (66-72") F/M gray-stained sand with TR gravel; wet at 66"; heavy petroleum odor, sheen observed.
C	4-6		1200	0.0	
D	6-8				
E	8-10				
	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D29

Date: 12/1/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Daryll Issa/Erik  
Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	22/24	1345	0.0	(2-18") F/M dark brown to black sand and black cinders with TR gravel; dry; no odor. (18-24") F/M brown sand with TR gravel; dry; no odor.
B	2-4	36/48		0.0	(36-72") F/M brown sand with TR gravel and 2" section of black stained soil at approximately 36". (36-60" dry; no odor). (60-72" saturated with water; no odor).
C	4-6		1355	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D30

Date: 12/1/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Darryl Issa/Erik  
Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	22/24	1415	0.0	(2-24") F/M brown sand with LI black sand and SO gravel; small pieces of red brick mixed in; dry; no odor.
B	2-4	34/48		0.0	(38-51") M brown to dark brown sand and gravel; dry; no odor. (51-69") F/M brown, gray, orange sand with LI gravel and TR silt; wet; faint odor. (Bottom 2-3" F/M black stained sand with TR gravel and with TR silt; wet; slight petroleum odor).
C	4-6		1430	0.0	
D	6-8				
E	8-10				
	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS		Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE			A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM			B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE			C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM			D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE			E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE			F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D31

Date: 12/1/99

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1440	0.0	(0-24") F/M dark brown to black sand; SO gravel; black cinders; no odor.
B	2-4	36/48		0.0	(36-72") F/M brown to dark brown sand and gravel. gray to charcoal gray at bottom 4"; wet at 48"; no odor
C	4-6		1455	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: D32  
Date: 12/1/99  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.5'  
Logged By: Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	22/24	1500	0.0	(2-24") F/M brown to dark brown sand and gravel; dry; no odor
B	2-4	38/48		0.0	(34-72") F/M brown sand and gravel; wet at 66"; no odor.
C	4-6		1510	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D33

Date: 12/2/99

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVI

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	19/24	0845	0.0	(5-24") F/M brown sand and gravel with TR black cinders; dry; no odor.
B	2-4	36/48		0.0	(36-60") F/M brown sand with LI gravel; dry; no odor. (60-66") F/C brown/gray sand and gravel; wet; light odor. (66-72") F/C gray stained soil and gravel; wet; heavy odor.
C	4-6		0915	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: D34  
Date: 12/2/99  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	20/24	0940	0.0	(4-18") F/M dark brown to black sand and SO gravel; dry; no odor. (18-24") F/C brown/gray sand with TR gravel; dry; no odor.
B	2-4	31/48		0.0	(36-54") F/M gray sand and gravel with TR silt; dry; no odor. (54-72") F/M brown/gray sand with SO gravel; wet at 60"; heavy odor.
C	4-6		0955	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (L) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI.  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D35

Date: 12/2/99

Within 100' of Water: No

Instrument: Thermo Environmen.  
Instruments, Inc., Model 580B OV

Boring Depth: 6.0'

Depth to Water: 5.5'

Logged By: Daryll Issa

Depth (Intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	22/24	1200	0.0	(2-24") F/M brown sand with LI black sand and TR gravel; dry; no odor.
B	2-4	36/48		0.0	(36-48") F/M brown to dark brown sand; dry; no odor. (48-54") gray gravel. (54-72") F/M brown sand and gravel; wet; no odor.
C	4-6		1215	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler


Boring No.: D36  
Date: 12/2/99  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	18/24	1415	0.0	(6-24") F/M brown sand with LI gravel; dry; no odor.
B	2-4	20/48		0.0	(52-56") F/M dark brown to black sand with TR gravel; dry; no odor. (56-72") F/M light green and black sand with TR gravel and TR silt; wet; no odor.
C	4-6		1435	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG

 272 West Exchange Street, Suite 101  Providence, Rhode Island 02903 (401) 421-0398 Fax (401) 421-5731	Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: D37
	ESS Job No: P151-002	Date: 12/2/99
	Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
	Well Diameter: N/A	Instrument: Thermo Environmen Instruments, Inc., Model 580B OV
	Drilling Method: Geoprobe	Boring Depth: 10.0'
	Sample Method: 4' Acetate Sampler	Depth to Water: 8.5'
		Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	19/24	1500	0.0	(5-11") F/M brown sand; dry; no odor. (11-18") F/C dark brown and black sand with TR gravel; dry; no odor. (18-24") F/M brown sand with TR gravel; dry; no odor.
B	2-4	28/48		0.0	(44-50") pulverized gray stone. (50-72") F/M brown sand and gravel; dry; no odor.
C	4-6			0.0	
D	6-8	40/48	1520	0.0	(80-92") F/M brown sand and gravel; dry; no odor. (92-120") F/C brown sand; wet at 102"; no odor.
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)            0-10%	F = FINE		A = 0-24 in.            G = 144-168 in.
LITTLE (L)            10-20%	M = MEDIUM		B = 24-48 in.            H = 168-192 in.
SOME (SO)            20-35%	C = COARSE		C = 48-72 in.            I = 192-216 in.
AND                    35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.            J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in..        K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.        L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D38

Date: 12/3/99

Within 100' of Water: No

Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 7.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0920	0.0	(0-24") F/M brown sand with TR gravel and LI black sand; dry; no odor.
B	2-4	32/48		0.0	(40-72") F/M brown sand and gravel; dry; no odor.
C	4-6			0.0	
D	6-8	36/48	0935	0.0	
E	8-10			0.0	(84-90") F/M brown sand with TR gravel; dry; no odor. (90-120") F/C brown sand with TR gravel and LI silt; wet; no odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: D39  
 Date: 12/3/99  
 Within 100' of Water: No  
 Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVI  
 Boring Depth: 10.0'  
 Depth to Water: 8.5'  
 Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1020	0.0	(0-6") F/M brown sand with TR gravel; dry; no odor. (6-15") F/C black/orange with black cinders; dry; no odor. (15-24") F/M light brown sand with TR gravel; dry; no odor.
B	2-4	23/48		0.0	(49-72") F/M brown sand and gravel; dry; no odor.
C	4-6			0.0	
D	6-8	36/48		0.0	
E	8-10		1045		(84-108") F/M brown to tan sand with LI gravel; wet at 102"; no odor. (108-120") F/C gray stained sand and gravel; wet; heavy odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D40

Date: 12/3/99

Within 100' of Water: No

Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 6.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	19/24	1105	0.0	(5-24") F/M brown sand and gravel; dry; no odor.
B	2-4	28/48		0.0	(44-60") F/M brown sand and gravel with black cinders; dry; no odor. (60-72") F/M light brown sand with LI gravel and LI silt mixed in; damp; no odor.
C	4-6		1125	0.0	
D	6-8	38/48		0.0	(82-96") F/M brown and black sand with SO gravel; wet; no odor. (96-108") F/M brown and gray sand with SO gravel and SO silt; saturated with water; strong odor. (108-120") F/C gray and brown sand with SO gravel and silt; saturated with water; very strong odor, sheen present.
E	8-10		1220	0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D41

Date: 12/3/99

Within 100' of Water: No

Instrument: Thermo Environmental Instruments, Inc., Model 580B OVI

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1145	0.0	(0-24") F/M light brown sand with SO gravel; black cinders present in interval between 6-12"; TR silt at 20-24"; dry; no odor.
B	2-4	26/48		0.0	(46-60") F/M brown to dark brown to black sand and gravel; dry; (60-72") F/M brown to dark brown sand, gravel, and silt; wet; strong odor.
C	4-6		1205	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



## TEST BORING LOG



2 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: D42  
 Date: 12/3/99  
 Within 100' of Water: No  
 Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVM  
 Boring Depth: 10.0'  
 Depth to Water: 5.0'  
 Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	22/24	1435	0.0	(2-24") F/M brown/dark brown sand with LI gravel; dry; no odor.
B	2-4	26/48		0.0	(46-60") F/M brown sand and gravel with TR silt; dry; no odor., (60-72") F/M gray/brown sand and gravel; wet; petroleum odor.
C	4-6		1450	0.0	
D	6-8	34/48		0.0	(84-102") F/M brown sand and gravel; saturated with water; sheen present on water. (102-120") F/C brown/dark brown sand and gravel and dark brown peat; saturated with water; no odor
E	8-10			0.0	
	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D43

Date: 12/3/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 8.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1510	0.0	(0-18") F/M brown/dark red/black sand and gravel; dry; no odor. (18-24") F brown/orange silt with SO sand; dry; no odor.
B	2-4	37/48		0.0	(35-60") F/M brown/orange/black sand, silt, and gravel; dry; odor present. (60-72") F/M brown/gray sand and gravel; strong odor.
C	4-6		1525	0.0	
D	6-8	23/48		0.0	(97-120) F/C black/brown/gray sand and gravel; saturated with water; saturated with heavy odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (L)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



72 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D44

Date: 12/6/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0

Depth to Water: 5.0'

Logged By: Daryll Issa/Erik  
Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	20/24	1015	0.0	(0-24") F/M brown sand with LI gravel; dry; no odor.
B	2-4	32/48		0.0	(36-48") F/M brown sand with TR gravel and TR silt; dry; light odor. (60-72") F/M brown sand and silt; wet; heavy odor.
C	4-6		1030	0.0	
D	6-8				
E	8-10				
	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D45

Date: 12/6/99

Within 100' of Water: No

Instrument: Thermo-Environmental Instruments, Inc., Model 580B OVI

Boring Depth: 10.0'

Depth to Water: 7.5'

Logged By: Daryll Issa/Erik Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1245	12.9	(0-24") F/M brown and black sand with LI gravel; dry; no odor.
B	2-4	21/48		0.0	(51-60") F/M brown and gray sand with TR gravel; dry; light odor. (60-72") F light brown sand with TR gravel; damp; faint odor.
C	4-6	21/48	1350	142.1	
D	6-8	31/48		412	(89-120") F/M dark, chocolate brown sand with TR gravel and SO silt; saturated with water; very heavy odor.
E	8-10			529	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (L) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc..

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D46

Date: 12/6/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 4.5'

Logged By: Daryll Issa/Erik  
Johnstone

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1450	8.7	(0-12") light brown/brown/black sand and gravel; dry; no odor. (12-18") F/M brown sand with SO gravel; dry; no odor. (18-24") F/M brown and gray sand and silt; dry; no odor.
B	2-4	40/48		0.0	(32-54") F/C light gray/brown/dark chocolate brown sand with SO gravel; damp; no odor. (54-72") F brown/gray silt with TR sand; saturated with water; light odor.
C	4-6			2.4	
D	6-8	44/48	1505	14.9	
E	8-10			4.5	(72-102") F/M brown/dark brown silt and sand with SO gravel; saturated with water; slight odor. (102-120") F/C brown sand with TR gravel and LI silt; saturated with water; light odor.
	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D47

Date: 12/6/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 7.0'


Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1530	0.0	(0-24") F/M brown/dark brown/black sand and gravel with SO black cinders; dry; no odor.
B	2-4	31/48		1.2	(41-72") F/C gray/brown/black sand and gravel with SO cinders; dry; no odor.
C	4-6		1545	0.0	
D	6-8	38/48		0.0	(82-120) F/M brown sand and gravel with SO black cinders; saturated with water; no odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG

 1/2 West Exchange Street, Suite 101 Providence, Rhode Island 02903 (401) 421-0398 Fax (401) 421-5731	Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: D48
	ESS Job No: P151-002	Date: 12/6/99
	Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
	Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
	Drilling Method: Geoprobe	Boring Depth: 10.0'
	Sample Method: 4' Acetate Sampler	Depth to Water: 5.5'
		Logged By: Erik Johnstone/Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1515	0.0	(0-24") F/M brown sand and SO gravel; dry; no odor.
B	2-4	24/48		0.0	(48-72") F/M brown to dark brown sand and gravel; F/M gray sand; LI silt at 66"; wet at 66"; petroleum odor.
C	4-6			28.8	
D	6-8	28/48	1530	89.6	(92-98") F/C gray sand with SO gravel and SO silt; wet; strong petroleum odor. (98-101") F/C brown sand with LI gravel and SO silt; wet; petroleum odor. (101-120") F brown/gray sand and silt; strong petroleum odor.
E	8-10			0.0	
	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)            0-10%	F = FINE		A = 0-24 in.            G = 144-168 in.
LITTLE (LI)           10-20%	M = MEDIUM		B = 24-48 in.           H = 168-192 in.
SOME (SO)            20-35%	C = COARSE		C = 48-72 in.           I = 192-216 in.
AND                    35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.          J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in..       K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.       L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D49

Date: 12/6/99

Within 100' of Water: No

Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 6.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	21/24	1610	0.0	(0-24") F/M brown sand with SO gravel; dry; no odor.
B	2-4	48/48		0.0	(24-72") F/M dark brown sand and gravel; dry; no odor. Wet at 72".
C	4-6		1630	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D50

Date: 12/7/99

Within 100' of Water: No

Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 6.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	16/24	0930	3.7	(8-24") F/M brown sand with SO gravel; dry; no odor.
B	2-4	22/48		2.0	(50-72) F/M brown sand with SO gravel; wet; very faint odor.
C	4-6			0.0	
D	6-8	48/48		0.0	(72-120) F/M brown sand with LI silt and LI gravel; saturated with water; faint odor.
E	8-10		1005	6.5	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D51

Date: 12/7/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 5.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	20/24	1030	2.4	(4-16") F/M brown/black sand and cinders; dry; no odor. (16-24") F/M light brown sand with TR gravel; dry; no odor.
B	2-4	32/48		1.2	(24-60") F/M brown sand with TR gravel and LI black cinders; dry; no odor. (60-72") F/C brown sand with LI gravel; saturated with water at 60"; faint odor.
C	4-6		1045	1.2	
D	6-8	46/48		0.0	(74-120") F/M brown sand with TR silt and LI gravel; saturated with water; faint odor.
E	8-10			1.2	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: D52  
Date: 12/7/99  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: not determined  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	21/24	1115	12.5	(3-9") F/M brown sand with TR gravel and TR silt. (9-24") F/M black stained sand and black cinders; saturated with water; heavy odor.
B	2-4	36/48		8.6	(36-72") F/M black stained sand and gravel with SO silt; wet; strong odor.
C	4-6	36/48	1130	23.1	
D	6-8	48/48		19.2	(72-120") F/M black stained sand and silt with SO cinders and SO gravel; saturated with water; heavy odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:  
Location was later determined to be the basement of former building #29.

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LJ)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D53

Date: 12/7/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: not determined

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	22/24	1315	228.0	(2-8") concrete; brick. (8-20") F/M black stained sand with SO gravel and SO cinders; wet; heavy odor. (20-24") F/M black stained sand with SO gravel and SO cinders; wet; heavy odor.
B	2-4	41/48		84.0	(31-72") F/M black stained sand and gravel with TR silt ; wet; heavy odor.
C	4-6	41/48	1350	84	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

Location was later determined to be basement of former building #29.

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (L)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D53A

Date: 6/20/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.25'


Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2				No surface recovery
B	2-4	27/48		0.0	(45-54") F/M brown sand with SO gravel and SO black cinders; wet at 52"; no odor. (54-72") F/M brown sand with LI gravel and LI silt and TR pulverized red brick; saturated with water; no odor.
C	4-6		1205	0.0	
D	6-8				
E	8-10				
	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG

 272 West Exchange Street, Suite 101  Providence, Rhode Island 02903 (401) 421-0398 Fax (401) 421-5731	Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: D53B
	ESS Job No: P151-002	Date: 6/20/00
	Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
	Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
	Drilling Method: Geoprobe	Boring Depth: 6.0'
	Sample Method: 4' Acetate Sampler	Depth to Water: 5.5'
		Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2				No surface recovery
B	2-4	48/48		40.6	(24-32") F/M brown sand with LI gravel and SO black cinder ash with TR black cinders; dry; light mothball odor. (32-51") F/M black stained sand and cinder ash with SO black cinders and LI gravel; dry; heavy mothball odor. (57-72") F/M brown sand with TR silt and LI gravel with TR black cinders; wet at 66"; heavy odor (mothball).
C	4-6		1215	34.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)            0-10%	F = FINE		A = 0-24 in.            G = 144-168 in.
LITTLE (LI)           10-20%	M = MEDIUM		B = 24-48 in.           H = 168-192 in.
SOME (SO)            20-35%	C = COARSE		C = 48-72 in.           I = 192-216 in.
AND                    35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.           J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.        K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.       L = 264-288 in.

# TEST BORING LOG



.72 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D53C

Date: 6/20/00

Within 100' of Water: No

Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 2.75'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2				No surface recovery
B	2-4	48/48	1350	0.0	(24-32") F/M brown/dark brown sand with SO gravel and SO small/medium black cinders and LI red brick fragments; dry; no odor. (32-72") F/M dark brown/black stained sand with SO silt (48-72"); saturated with water at 32"; heavy odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D53D

Date: 6/20/00

Within 100' of Water:

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth:

Depth to Water:

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2				
B	2-4				Three attempts met with refusal. No samples taken.
C	4-6				
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D54

Date: 12/7/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1410	3.7	(0-6") pulverized brick and concrete. (6-24") F/M brown sand and SO gravel; damp; faint, peculiar odor.
B	2-4	36/48		2.4	(36-72") F/M light brown/brown/dark brown sand with SO gravel and LI cinders with TR silt. (36-54" damp; no odor). 54-72"; wet ; definite odor.
C	4-6		1430	2.4	
D	6-8				
E	8-10				
	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D55

Date: 12/8/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 7.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	23/24	0955	1.3	(1-18") F/M brown/red sand and gravel with SO cinders; dry; no odor. (18-24") F/M brown silt with TR sand; saturated with water; no odor.
B	2-4	38/48		1.3	(34-42") F/M silt and sand and black cinders; wet on top and bottom, dry in between- possible perched water table. (42-72") F/M brown sand and gravel; dry; no odor.
C	4-6			1.3	
D	6-8	36/48		2.6	
E	8-10		1020	2.6	(84-96") F/M brown sand and gravel; damp; no odor. (96-120") F/M brown sand and silt with TR gravel and LI gray staining at 120"; saturated with water; faint odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



72 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D56

Date: 12/8/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 6.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1035	78.6	(0-6") black cinders; dry; faint odor. (6-24") F/M brown/red silt; damp; heavy petroleum odor.
B	2-4	48/48		406	(24-72") F/M brown/black stained silt and sand; wet at 72"; Heavy petroleum odor.
C	4-6			441	
D	6-8	48/48	1049	1554	
E	8-10			921	(72-120") F/M black/brown silt with TR sand; wet; heavy petroleum odor. Sheen observed
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D56A

Date: 6/20/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2				No sampling
B	2-4	34/48		0.0	(38-60") F brown to dark brown sand with TR black ash and TR gravel; dry; no odor. (60-72") F brown to dark sand with TR black ash and TR gravel; saturated with water at 60"; no odor.
C	4-6		0900	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:  
Delineation Boring

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (L) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D56B

Date: 6/20/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.25'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2				No Sampling
B	2-4	48/48	0925	0.0	(24-52") F brown sand with TR F black ash; dry; no odor. (52-72") F brown sand with SO silt; saturated with water; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:  
Delineation Boring

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D56C

Date: 6/20/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth:

Depth to Water: 5.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2				
B	2-4	48/48	1000	0.0	(24-38") F brown sand with TR silt and SO F black cinder ash; dry; no odor. (38-72") F brown sand and silt; saturated with water at 36"; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:  
Delineation Boring

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: D56D  
 Date: 6/20/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
 Boring Depth: 6.0'  
 Depth to Water: 5.5'  
 Logged By: Daryll Issa

Depth (Intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2				No (0-2') taken- delineation boring
B	2-4	24/48		0.0	(48-65") F brown to dark brown sand with TR F black cinder ash; dry; no odor. (65-72") F brown to dark brown sand with TR silt and TR black cinder ash; mothball odor present.
C	4-6		1010	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:  
 Delineation Boring

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D57

Date: 12/8/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 3.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	20/24	1220	5.2	(4-10") concrete; dry. (10-24") F/M brown sand with LI gravel; dry; no odor.
B	2-4	48/48	1240	2.6	(24-42") F/M brown/gray sand and gravel with TR silt; dry; no odor. (42-72") F/M silt - uniform; saturated with water; no odor.
C	4-6			2.6	
D	6-8	48/48		2.6	
E	8-10			2.6	(72-120") F/M silt - uniform; saturated with water; no odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D58

Date: 12/8/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 6.8'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	19/24	1455	20.1	(5-12") concrete and asphalt. (12-24") F/M brown sand with TR gravel; dry; no odor.
B	2-4	25/48		1.3	(47-72") F/M brown/gray sand with SO gravel; dry; no odor.
C	4-6			1.3	
D	6-8	38/48	1505	82	
E	8-10			69	(82-120") F/M brown/black stained sand and gravel ; sheen visible on entire interval; saturated with water; heavy odor.
	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (L) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D59

Date: 12/8/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: not determined

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1515	0.0	(0-6") concrete dust. (6-24") F/M brown sand and gravel; wet at 18"; no odor.
B	2-4	31/48		0.0	(41-72") F/M brown sand and large gravel; wet; no odor.
C	4-6		1520	3.9	
D	6-8	30/48		1.3	
E	8-10			1.3	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731


Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: D60
ESS Job No: P151-002	Date: 12/8/99
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 10.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 3.0'
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1530	0.0	(0-6") F/C black/brown sand with gravel; dry; no odor. (6-24") F/M sand and silt; dry; no odor.
B	2-4	48/48	1545	0.0	(24-36") F/M brown sand and silt; dry; no odor. (36-72") F/M brown silt with TR sand; saturated with water; no odor.
C	4-6			0.0	
D	6-8	48/48		0.0	(72-120") F/M brown silt with TR sand; saturated with water; no odor.
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG

					Site: Providence Gas Company 642 Allens Avenue, Providence, RI ESS Job No: P151-002		Boring No.: D61 Date: 12/8/99 Within 100' of Water: No	
272 West Exchange Street, Suite 101  Providence, Rhode Island 02903 (401) 421-0398 Fax (401) 421-5731					Driller.: Environmental Drilling, Inc.		Instrument: Thermo Environmental Instruments, Inc., Model 580B OVI	
					Well Diameter: N/A		Boring Depth: 10.0'	
					Drilling Method: Geoprobe		Depth to Water: 7.0'	
					Sample Method: 4' Acetate Sampler		Logged By: Daryll Issa	
Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)			
A	0-2	21/24	0930	3.5	(3-24") F/M brown sand and black/red cinders; concrete between 15-21"; dry; no odor.			
B	2-4	40/48		0.0	(36-48") F/M brown sand and black/red cinders; dry; no odor. (48-72") F/C brown sand and gravel; dry; faint odor.			
C	4-6			4.0				
D	6-8	48/48	0950	76	(72-84") F/M brown sand and gravel with black/red cinders; dry; light odor. (84-96") F/M black stained sand, gravel, and cinders; wet; heavy odor. (96-120") F/M tan silt with TR sand; light odor.			
E	8-10							
F	10-12							
G	12-14							
<u>Comments:</u>								
PROPORTIONS USED			ABBREVIATIONS		Well Construction		DEPTH INTERVALS	
TRACE (TR)            0-10% LITTLE (LI)            10-20% SOME (SO)            20-35% AND                      35-50%			F = FINE  M = MEDIUM C = COARSE F/M = FINE TO MEDIUM F/C = FINE TO COARSE M/C = MEDIUM TO COARSE		(+1.3-5.5') PVC Solid Riser (5.5-10.5') PVC Screen    One inch sump at 10.5'		A = 0-24 in.            G = 144-168 in.  B = 24-48 in.            H = 168-192 in. C = 48-72 in.            I = 192-216 in. D = 72-96 in.            J = 216-240 in. E = 96-120 in.          K = 240-264 in. F = 120-144 in.         L = 264-288 in.	

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D62

Date: 12/9/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 8.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1110	0.0	(0-24") F/M dark brown/brown sand with TR gravel; dry; no odor.
B	2-4	34/48		1.3	(38-72") F/M brown/dark brown sand with TR gravel; dry; no odor.
C	4-6			1.3	
D	6-8	36/48		166	
E	8-10		1115	1679	(84-102") F/M brown sand and silt with TR gravel; wet; definite odor. (102-120") F/M black stained silt and sand; saturated with water; sheen observed; extreme odor.
	10-12				
G	12-14				

Comments:

**PROPORTIONS USED**

TRACE (TR)            0-10%  
LITTLE (LI)            10-20%  
SOME (SO)              20-35%  
AND                        35-50%

**ABBREVIATIONS**

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

**Well Construction**

**DEPTH INTERVALS**

A = 0-24 in.            G = 144-168 in.  
B = 24-48 in.           H = 168-192 in.  
C = 48-72 in.           I = 192-216 in.  
D = 72-96 in.           J = 216-240 in.  
E = 96-120 in..        K = 240-264 in.  
F = 120-144 in.        L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI ESS Job No: P151-002	Boring No.: D62A Date: 6/20/00 Within 100' of Water: No
Driller.: Environmental Drilling, Inc.	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVR
Well Diameter: N/A	Boring Depth: 6'
Drilling Method: Geoprobe	Depth to Water: 4.25'
Sample Method: 4' Acetate Sampler	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2				No sampling
B	2-4	40/48		0.0	(32-52") F/M brown sand with TR gravel and TR black cinders and TR black cinder; dry; no odor. (52-60") F/M brown sand with TR silt and LI gravel; wet; faint odor. (60-72") F/M brown sand with grey staining and silt; wet; heavy petroleum odor; unknown.
C	4-6		1120	2.1	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:  
Delineation Boring

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)            0-10% LITTLE (L)            10-20% SOME (SO)            20-35% AND                      35-50%	F = FINE M = MEDIUM C = COARSE F/M = FINE TO MEDIUM F/C = FINE TO COARSE M/C = MEDIUM TO COARSE		A = 0-24 in.            G = 144-168 in. B = 24-48 in.            H = 168-192 in. C = 48-72 in.            I = 192-216 in. D = 72-96 in.            J = 216-240 in. E = 96-120 in.           K = 240-264 in. F = 120-144 in.          L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: D62B
ESS Job No: P151-002	Date: 6/20/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 4.25'
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2				No sampling
B	2-4	30/48		0.0	(42-51") F/M brown sand with some gravel; dry; faint mothball odor. (51-72") F/M dark brown/black/grey stained sand with SO gravel and black cinder ash with LI black cinders; wet at 52"; heavy mothball-like odor.
C	4-6	30/48	1110	64.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:  
 Delineation Boring

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)                    0-10%	F = FINE		A = 0-24 in.                    G = 144-168 in.
LITTLE (LI)                    10-20%	M = MEDIUM		B = 24-48 in.                    H = 168-192 in.
SOME (SO)                    20-35%	C = COARSE		C = 48-72 in.                    I = 192-216 in.
AND                                35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.                    J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.                  K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.                 L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: D62  
 Date: 6/20/00  
 Within 100' of Water.  
 Instrument: Thermo Er,  
 Instruments, Inc., Model  
 Boring Depth: 6.0'  
 Depth to Water: 4.75'  
 Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2				No (0-2') taken- delineation boring
B	2-4	36/48		20.0	(36-56") F/M brown to dark brown sand with SO large pieces of gravel/crushed rock and LI black cinder and LI medium/large black cinders; dry; mothball odor. (56-72") F/M brown/grey sand with LI gravel and TR black cinder ash; wet at 56"; heavy mothball odor.
C	4-6	36/48	1040	46.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:  
 Delineation Boring

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: D63  
Date: 12/9/99  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 6.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1145	519.0	(0-12") F/M dark brown sand with SO red brick and gravel; dry; sweet odor. (12-24") F/M black stained sand and cinders; petroleum odor.
B	2-4	48/48		190	
C	4-6			588	
D	6-8	48/48	1210	981	(72-120") F/M black stained sand with SO gravel, cinders, and silt; oily sheen on interval; wet; heavy petroleum odor.
E	8-10			576	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: D64
ESS Job No: P151-002	Date: 12/11/99
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: unknown
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	28/24	1045	2.6	(0-12") F/M brown to dark brown sand with TR gravel; damp from rain; no odor. (12-24") F/C brown sand with SO gravel; wet at 12"; no odor.
B	2-4	35/48		0.2	(37-72") F/M brown/dark brown/tan sand with SO gravel and SO gravel; dry; light odor. Refusal at 72".
C	4-6		1100	0.1	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: D65  
Date: 12/11/99  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 5.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	20/24	1110	0.3	(4-24") F/C brown/light brown/dark brown sand with SO gravel; dry; faint odor.
B	2-4	48/48		0.0	(24-48") F/M dark brown sand and gravel; dry; no odor. (48-72") F/M brown sand with TR gravel; dry; no odor.
C	4-6		1120	0.0	
D	6-8	48/48		0.0	(72-120") F/C gray/brown sand and silt; saturated with water; no odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D66

Date: 12/22/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1340	0.0	(0-1") brown sand with grass, roots, organics. (1-5") F/M brown/black sand with SO small gravel. (5-8") F dark brown to light tan silty sand, loose, roots. (8-18") M black stained sand with SO small gravel, cinder, and ash throughout. (17-18") cinder ash and stone. (18-24") F light brown silty sand; coal bits at 20" and 24".
B	2-4	36/48	1350	0.0	(36-42") M brown and black sand with SO cinder ash at 36-40" and large gravel at 40-42". (42-60") F black silty sand with SO M/small gravel. (60-72") F/M gray sand; saturated with water at 60".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002

Boring No.: D67  
 Date: 12/22/99  
 Within 100' of Water: No  
 Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVM  
 Boring Depth: 6.0'  
 Depth to Water: 5.0'  
 Logged By: Nicole Murry

Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	20/24	1430	0.0	(0-1") grass and roots. (1-10") F/M brown sand, roots, soft; SO small/M gravel. (10-15") F/M brown/gray sand with SO large gravel. (15-17") concrete and gravel. (17-24") F/M light tan sandy soil; gravel at 23-24".
B	2-4	24/48	0.0	0.0	(24-48") no recovery due to concrete piece. (48-52") M black loose sand with M gravel. (54-57") large stone pieces. (57-72") F/M brown/tan silty sand with small/M gravel; saturated at 60"
C	4-6		1445	0.0	
D	6-8				
E	8-10				
	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D68

Date: 12/23/99

Within 100' of Water: No

Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.0'


Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0845	0.0	(0-4") organic matter. (4-10") F/M brown sand with SO gravel; dry; no odor. (10-15") black cinders with TR sand; dry; no odor. (15-24") F/M light brown sand and gravel; damp; no odor.
B	2-4	25/48		0.0	(47-62") F light brown sand - uniform; dry; no color. (62-72") F/M brown sand with TR gravel; wet; no odor.
C	4-6		0900	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG

 272 West Exchange Street, Suite 101 Providence, Rhode Island 02903 (401) 421-0398 Fax (401) 421-5731					Site: Providence Gas Company 642 Allens Avenue, Providence, RI			Boring No.: D69	
					ESS Job No: P151-002			Date: 12/23/99	
					Driller.: Environmental Drilling, Inc.			Within 100' of Water: No	
					Well Diameter: N/A			Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM	
					Drilling Method: Geoprobe			Boring Depth: 6.0	
Sample Method: 4' Acetate Sampler			Depth to Water: 4.5'						
			Logged By: Daryll Issa						
Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)				
A	0-2	24/24	0920	9.2	(0-3") organic matter. (3-16") black cinders with SO brown sand and SO shiny black cinders; dry; no odor. (16-24") F/M brown sand with TR gravel; damp; no odor.				
B	2-4	32/48		0.0	(40-57") F/M brown sand with SO gravel; dry; no odor. (57-72") F/M brown sand and gravel; saturated with water; no odor.				
C	4-6		0938	0.0					
D	6-8								
E	8-10								
	10-12								
G	12-14								
<u>Comments:</u>									
<b>PROPORTIONS USED</b>		<b>ABBREVIATIONS</b>		<b>Well Construction</b>		<b>DEPTH INTERVALS</b>			
TRACE (TR)	0-10%	F = FINE			A = 0-24 in.	G = 144-168 in.			
LITTLE (LI)	10-20%	M = MEDIUM			B = 24-48 in.	H = 168-192 in.			
SOME (SO)	20-35%	C = COARSE			C = 48-72 in.	I = 192-216 in.			
AND	35-50%	F/M = FINE TO MEDIUM			D = 72-96 in.	J = 216-240 in.			
		F/C = FINE TO COARSE			E = 96-120 in.	K = 240-264 in.			
		M/C = MEDIUM TO COARSE			F = 120-144 in.	L = 264-288 in.			

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: D70  
Date: 12/23/99  
Within 100' of Water: No  
Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0  
Depth to Water: 4.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0945	2.3	(0-4") organic matter. (4-8") F/M light brown/brown sand with SO gravel; dry; no odor. (8-20") black cinders with SO gravel; dry; no odor. (20-24") F/M brown sand with TR gravel; dry; no odor.
B	2-4	46/48	1010	0.0	(26-30") black cinders; dry; no odor. (30-48") F/M brown sand with TR gravel; dry; no odor. (48-72") F/M dark brown sand and silt; saturated with water at 48"; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (L)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D71

Date: 12/23/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 6.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	20/24	1030	11.5	(4-7") organic matter. (7-24") F/C brown sand and gravel; dry; no odor.
B	2-4	40/48		0.0	(42-62") F/M brown sand and gravel; dry; no odor. (62-72") F/M brown sand with SO gravel; no odor.
C	4-6			0.0	
D	6-8	48/48	1100	0.0	
E	8-10			0.0	(72-120") F/M brown sand with TR gravel; saturated with water; no odor. Wet at 76".
	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LJ)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: D72
ESS Job No: P151-002	Date: 1/20/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 4.0'
	Logged By: Nicole Murry

Depth (Intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1315	0.0	(0-6") M brown sand with roots; F small rounded stone. (6-12") M dark brown sand with black bits of coal, brick, and ash. (12-16") C black cinder ash. (16-24") M light brown sand with large gravel 16-20" with cinder ash and coal bits throughout.
B	2-4	40/48	1330	21.0	(24-48") F/M brown/light brown sand mixed with cinder ash from 24-30" and small/M rounded stones. (48-68") F gray dense silty sand; saturation at 48"; black staining 60-68". (68-72") very C cinder ash, petroleum saturated, heavy petroleum odor. Sheen observed.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D73

Date: 2/1/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.25'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1345	0.0	(0-2") F/C black gravel/asphalt. (2-10") F/M sand; LI gravel; TR silt. (10-24") F black sand and silt with F TR gravel; dry.
B	2-4	48/48	1355	0.0	(24-28") F black sand and silt with F TR gravel. (28-47") F brown sand; TR silt. (47-63") F/M brown sand; TR silt; organic staining at approximately 61". (63-72") F/M gray sand; TR silt; wet.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D74

Date: 1/26/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVI

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1110	0.0	(0-24") M brown sand with large gravel and small/M stones; heavy cinder ash from 16-20".
B	2-4	30/48		0.0	(42-44") soft, brown sand with petroleum staining and cinder ash. (44-60") M/C light brown sand with small rounded stone. (60-64") F/M brown silty sand with porous cinders; wet. (64-66") gray gravel band. (66-68") gray gravel with M brown sand. (68-72") large gravel with brown sand; saturated at 68".
C	4-6	30/48	1130	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (L) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: D75  
Date: 1/28/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.5'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0930	0.0	(0-5") gravel. (5-15") F/M brown sand and gravel; dry; no odor. (15-24") F/C light brown sand with SO gravel; dry; frozen; no odor.
B	2-4	18/48		0.0	(54-61") F/M brown sand with SO gravel; dry; no odor. (61-66") pulverized stone; dry; no odor. (66-72") F dark brown sand with SO gravel and TR silt; saturated with water; petroleum odor.
C	4-6		0950	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D76

Date: 1/26/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 4.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1055	0.0	(0-6") F/M light tan sand. (6-20") F black cinder ash mixed with M stone and brown sand with bits of coal. (20-24") F/M light tan sand with SO stone.
B	2-4		1105	0.0	(24-40") F black cinder ash mixed with M stone and brown sand with bits of coal and large bits of cinder ash, stone, and coal. (40-42") C orange/black cinders. (42-48") M light brown sand with M rounded stone. (48-56") F light brown silty sand; saturated at 48". (56-72") M/C light brown sand.
C	4-6	48/48		0.0	
D	6-8	36/48		0.0	
E	8-10			0.0	(84-88") dark brown sand with large gravel; petroleum staining. (88-120") F/C light brown sand mixed with SO F silty sand 96-110".
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	(+2.6-3.0') PVC Solid Riser (3.0-7.5') PVC Screen One inch sump at 7.5'	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE	F = 120-144 in. L = 264-288 in.	

## TEST BORING LOG



1/2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Boring No.: D77  
Date: 1/26/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 4.3'  
Logged By: Nicole Murry

Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color; moisture)
A	0-2	24/24	1005	0.0	(0-14") M brown sand mixed with white gravel and small/M rounded stones; bits of brick and cinder ash between 10-14". (14-20") F black cinder ash with large bits of cinder ash stone. (20-22") C orange porous cinders and ash. (22-24") dense red silt and clay.
B	2-4	48/48	1025	0.0	(24-30") dark brown sand with white porous cinders. (30-34") F brown sand; (34-35") F/M orange sand; soft. (35-40") F hard light orange cinder ash and stone. (40-44") dense light orange clay with bits of black coal. (44-52") F light orange silt and sand, (52-64") F/C brown sand; petroleum staining throughout; petroleum odor; saturated at 52".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D78

Date: 1/26/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVI

Boring Depth: 10.0'

Depth to Water: 4.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0925	0.0	(0-3") F/M light tan sand. (3-8") M brown sand with coal ash, black cinders, and gravel throughout. (8-20") M light brown sand mixed with white gravel and stone. (20-24") M brown sand mixed with M black coal ash and fine coal bits.
B	2-4	48/48	0940	0.0	(24-36") F black cinder ash; dense; moist; brown clay with black cinder ash. (36-40") M orange cinders and C cinder ash. (40-44") orange, moist, fibrous material; orange, yellow, and light green. (44-48") M orange cinders and C cinder ash. (48-60") F/M black and brown soils; wood chips at 48". (60-72") F/M light brown sand; wet at 48".
C	4-6			0.0	
D	6-8	48/48		0.0	(72-84") M gravel with brown sand. (84-96") F brown sand; petroleum staining. (96-120") dense gray silty sand; petroleum staining. Sheen observed
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D79

Date: 1/26/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.0'


Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1155	0.0	(0-24") F/M brown sand mixed with M/large pink and white gravel with small rounded stones; black cinder ash and small/M cinder ash stone at 4-24".
B	2-4	36/48	1215	0.0	(36-56") M/C brown sand mixed with small/M rounded stones; moist. (56-60") C large gravel with SO brown sand. (60-72") M/C poorly sorted brown sand with SO small rounded stones; saturated at 60".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG

 272 West Exchange Street, Suite 101 Providence, Rhode Island 02903 (401) 421-0398 Fax (401) 421-5731	Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: D80
	ESS Job No: P151-002	Date: 1/26/00
	Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
	Well Diameter: N/A	Instrument: Thermo Environment Instruments, Inc., Model 580B OVI
	Drilling Method: Geoprobe	Boring Depth: 6.0'
	Sample Method: 4' Acetate Sampler	Depth to Water: 4.5' Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1240	0.0	(0-18") M brown sand mixed with M/large rounded stones; cinder ash and cinder ash stone throughout. (18-19") gray gravel band. (19-24") F loose brown sand with small rounded stone; SO cinder ash and root matter from 2-18".
B	2-4	48/48	1250	0.0	(24-36") M brown sand with large gray and white gravel; SO coal ash throughout. (36-72") light brown sand with small/M rounded stone and large gravel at 36-48"; LI to no gravel 48-70". Wet at 54".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: D81  
Date: 1/19/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 4.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0855	0.0	(0-12") F/M light brown sand with brick, concrete, and M/large gravel throughout. (12-22") M/C black cinder ash and black cinders. (20-24") M gray gravel.
B	2-4	48/48	0905	0.0	(24-28") F/M light brown sand with brick, concrete, and M/large gravel throughout. (28-72") F/M brown silty sand with M/large gravel throughout; small/large rounded gravel from 68-72"; wet at 48"; petroleum sheen on soil; F soil staining at 46-54" and 60-72".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: D82
ESS Job No: P151-002	Date: 1/28/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 5.25'
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1020		(0-13") wood chips. (13-19") F black/dark brown loose sand with SO orange cinder ash with small/M dull black cinders; dry; no odor. (19-24") F/M brown sand with SO gravel; dry; no odor.
B	2-4	39/48		0.0	(33-60") F/M brown sand with SO gravel; dry; no odor. (60-72") F/M brown sand with SO gravel and TR silt; saturated with water; light petroleum odor.
C	4-6		1050	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.
	F/C = FINE TO COARSE		E = 96-120 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.
			G = 144-168 in.
			H = 168-192 in.
			I = 192-216 in.
			J = 216-240 in.
			K = 240-264 in.
			L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: D84  
 Date: 1/25/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
 Boring Depth: 6.0'  
 Depth to Water: 6.0'  
 Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1130	0.0	(0-19") F/M brown sand with light gravel and SO black cinders; dry; no odor. (19-22") F light brown sand with LI gravel; dry; no odor. (22-24") dark brown sand with black cinders; dry; no odor.
B	2-4	40/48		0.0	(32-34") black cinders and cinder ash. (34-57") F brown sand with SO gravel; dry; no odor. (57-72") F dark brown sand and gravel with TR silt and TR black cinders 57-72"; wet at 72"; light odor.
C	4-6		1150	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D85

Date: 1/25/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1200	0.0	(0-24") F/M brown sand and gravel; TR silt at 19-24"; dry; no odor;
B	2-4	41/48		0.0	(31-47") F/M black stained cinder ash with M/large black cinders; dry; no odor. (47-72") F/M brown/gray stained sand with SO gravel with LI cinders and TR silt; saturated with water at 66"; light petroleum odor
C	4-6		1220	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		G = 144-168 in.
SOME (SO) 20-35%	C = COARSE		B = 24-48 in.
AND 35-50%	F/M = FINE TO MEDIUM		H = 168-192 in.
	F/C = FINE TO COARSE		I = 192-216 in.
	M/C = MEDIUM TO COARSE		J = 216-240 in.
			K = 240-264 in.
			L = 264-288 in.

## TEST BORING LOG



1/2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D86

Date: 2/2/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	18/24	1450	0.0	(6-17") F/M brown sand and gravel; dry; no odor. (17-24") M/large dull black cinders with SO dense cinder ash; dry; no odor.
B	2-4	34/48	1505	0.0	(38-48") F/C brown/black stained sand with SO M/large black cinders and SO cinder ash; damp; light odor. (48-72") F gray/black stained silt saturated with water at 45"; heavy odor; blue/green sheen from 48-72".
C	4-6			0.0	
D	6-8				
E	8-10				
	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: D87  
Date: 1/25/00  
Within 100' of Water: No  
Instrument: Thermo Environmen.  
Instruments, Inc., Model 580B OV  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0955	0.0	(0-14") F/M dark brown sand and gravel; dry; no odor. (14-24") F/M brown sand and gravel; dry; light odor.
B	2-4	33/48		1.0	(39-43") F/M light brown sand with SO gravel; dry; no odor. (43-60") F black stained sand with M/large black cinders; dry, petroleum odor present. (60-72") F black stained sand and silt; SO gray - clay like soils; saturated with water at 60"; very heavy petroleum odor. Separate phase petroleum observed in sample.
C	4-6		1005	16.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



## TEST BORING LOG



72 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D88

Date: 1/25/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0920	0.0	(0-24") F/M light brown sand with LI wood chips in sample and SO gravel; dry; no odor.
B	2-4	40/48	0935	0.0	(32-49") F/M brown/dark brown sand with LI gravel and SO black stained sand with SO M black cinders; dry; light odor. (49-72") F/M dark brown sand with SO gravel and SO black cinders; saturated with water; odor present
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: D89  
Date: 1/28/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 3.5'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1120	0.0	(0-7") F/M brown sand with LI orange sand; dry; no odor. (7-15") pulverized stone/gravel. (15-24") F/M brown sand and gravel; dry; no odor.
B	2-4	48/48	1138	0.0	(24-28") F/M dark brown sand with light gravel; dry; no odor. (28-35") yellow colored stone; dry; no odor. (35-40") F black cinder ash; dry; no odor. (40-72") F brown sand and silt with TR gravel; saturated with water; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D90

Date: 1/28/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.25'


Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1150	0.0	(0-4") gravel and pulverized stone. (4-10") F light brown sand with SO gravel; dry; no odor. (10-24") F/M brown/dark brown sand and gravel with TR dull black cinders; dry; no odor.
B	2-4	45/48	1210	6.1	(27-43") F/M brown sand and gravel; dry; no odor. (43-55") loose black cinder ash with dull M/large black cinders; damp; odor present. (55-61") F/M dense cinder ash and black cinders; saturated with water; heavy odor. (61-72") F gray/dark brown stained sand and silt; saturated with water; heavy odor.
C	4-6			38.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG

 272 West Exchange Street, Suite 101  Providence, Rhode Island 02903 (401) 421-0398 Fax (401) 421-5731	Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: D91
	ESS Job No: P151-002	Date: 1/28/00
	Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
	Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
	Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 3.0'	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1330	0.0	(0-6") F/C (mostly F/M) light brown sand with SO small pieces of gravel; dry; no odor. (6-11") F/M brown sand with SO small pieces of gravel; dry; no odor. (11-17") F/M brown/light brown sand; dry; no odor. (17-24") F/M black stained sand with small black cinders; dry; no odor.
B	2-4	41/48	1345	9.2	(31-36") F/M tan sand wet with LI large black cinders; wet; no odor. (36-42") M/large black cinders and cinder ash; (42-72") F/M gray stained sand/silt with SO gravel; wet; heavy petroleum odor.
C	4-6			85.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				
<u>Comments:</u>					

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	(+1.0-1.0') PVC Solid Riser (1.0-6.0') PVC Screen One inch sump at 6.0'	A = 0-24 in.      G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in.      H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in.      I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.      J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.      K = 240-264 in.
	M/C = MEDIUM TO COARSE	F = 120-144 in.      L = 264-288 in.	

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D92

Date: 1/28/00

Within 100' of Water: Yes

Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 3.25'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	23/24	1400	0.0	(1-5") topsoil. (5-14") F/M brown sand and gravel; dry; no odor. (14-24") F/M brown sand with TR gravel and SO cinder ash; with SO M/large black cinders; dry; no odor.
B	2-4	31/48	1410	8.2	(41-46") F/M gray/brown sand with SO gravel; wet; odor present. (46-58") F/M gray/brown stained sand with TR silt and SO gravel; saturated with water; heavy odor. (58-72") F gray/brown sand and silt; saturated with water; heavy petroleum odor.
C	4-6			46.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D93

Date: 1/28/00

Within 100' of Water: Yes

Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1440	0.0	(0-5") F/C yellow/light tan sand with LI gravel; dry; no odor. (5-14") small/M black cinders with SO cinder ash; dry; no odor. (14-24") small/M black and orange cinders with SO cinder ash; dry; no odor.
B	2-4	35/48		0.0	(37-48") M/large black cinders with SO cinder ash; dry; no odor. (48-56") F/M gray/brown sand with LI gravel; wet; no odor. (56-72") F/C brown/gray sand with LI gravel; saturated with water at 60"; no odor.
C	4-6		1455	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: D94  
Date: 1/28/00  
Within 100' of Water: Yes  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1425	0.0	(0-6") F/M brown/dark brown sand with SO gravel; dry; no odor. (6-11") F/M light brown sand with LI gravel; dry; no odor. (11-24") small/large black shiny/dull cinders with SO cinder ash; dry; faint odor.
B	2-4	42/48		0.0	(30-33") black cinders and cinder ash; dry; no odor. (33-72") F light brown sand with LI gravel; wet at 60-72"; no odor.
C	4-6		1440	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

**PROPORTIONS USED**

TRACE (TR) 0-10%  
LITTLE (LI) 10-20%  
SOME (SO) 20-35%  
AND 35-50%

**ABBREVIATIONS**

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

**Well Construction**

**DEPTH INTERVALS**

A = 0-24 in. G = 144-168 in.  
B = 24-48 in. H = 168-192 in.  
C = 48-72 in. I = 192-216 in.  
D = 72-96 in. J = 216-240 in.  
E = 96-120 in. K = 240-264 in.  
F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: D95

Date: 3/7/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.75'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1020	0.0	(0-24") F/M brown sand with SO small/M black cinders and LI gravel; dry; no odor.
B	2-4	32/48		2.4	(40-51") F brown/dark brown stained sand with TR gravel; dry; light sweet odor. (51-53") wood chips; dry; heavy unknown odor. (53-59") F brown/dark brown sand with LI gravel; dry; heavy petroleum odor. (59-72") F/M brown/dark brown mostly black/gray stained sand with TR gravel; wet at 69"; heavy petroleum odor.
C	4-6		1130	79.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E01

Date: 12/11/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 4.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1130	1.9	(0-24") F/M brown/dark brown sand with SO gravel and LI black cinders; TR silt near 18-24"; dry; no odor;
B	2-4	36/48		0.0	(36-48") F/C light brown sand with TR gravel; damp; no odor. (48-72") F/M brown/dark brown sand; saturated with water at 54"; light odor.
C	4-6		1145	0.0	
D	6-8	40/48		0.0	(80-88") F/C brown sand and gravel; wet; no odor. (88-120") F/M brown sand and gravel with SO silt at 108"; saturated with water; light odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

**PROPORTIONS USED**

TRACE (TR) 0-10%  
LITTLE (LI) 10-20%  
SOME (SO) 20-35%  
AND 35-50%

**ABBREVIATIONS**

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

**Well Construction**

**DEPTH INTERVALS**

A = 0-24 in. G = 144-168 in.  
B = 24-48 in. H = 168-192 in.  
C = 48-72 in. I = 192-216 in.  
D = 72-96 in. J = 216-240 in.  
E = 96-120 in.. K = 240-264 in.  
F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: E02  
 Date: 12/13/99  
 Within 100' of Water: No  
 Instrument: Thermo Environmen.  
 Instruments, Inc., Model 580B OVI  
 Boring Depth: 10.0'  
 Depth to Water: 6.0'  
 Logged By: Nicole Murry/Daryll  
 Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (In.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1045	0.7	(0-6") F/M brown sand with LI gravel; dry; no odor. (6-12") F/M black sand and gravel; dry. (12-24") F/M brown sand with SO gravel; dry; no odor.
B	2-4	30/48		0.0	(42-48") F/M brown sand with F black specs of stone. (48-60") stone with M brown sand. (60-72") M/C brown sand with small amounts of small stones; moist.
C	4-6		1125	0.0	
D	6-8	48/48		0.0	(72-120") F brown/light tan dense till; saturated; visible porous cinders from 108-120".
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	(+1.5-5.5') PVC Solid Riser (5.5-10.5') PVC Screen One inch sump at 10.5'	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE	F = 120-144 in.	L = 264-288 in.	

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E03  
Date: 12/13/99  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 4.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1148	0.0	(0-2") M brown sand. (2-12") M black sand with large bits of condensed cinder ash. (12-24") F brown/orange silty clay with specs of black bits throughout strata.
B	2-4	30/48	1200	0.0	(42-44") F/M sand; brown brick with black specs of coal/ash. (44-48") coal ash. (48-72") saturated brown silty sand.
C	4-6			0.0	
D	6-8	48/48		0.0	(72-76") brown silty sand; saturated. (76-78") black coal bits with brown sandy silt; saturated. (78-120") brown silty sand; saturated.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E04

Date: 12/13/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10'

Depth to Water: 6.5'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1220	2.8	(0-2") F/M brown sand and gravel. (2-12") black coal ash with large bits of gravel and coal throughout; SO brick. (12-20") F/M light brown/tan/orange/brown sand. (20-24") F/M orange/brown sand.
B	2-4	30/48		0.7	(42-50") F/M orange/brown sand. (50-53") black coal ash band with mix of orange/brown sand. (53-72") F/M light orange/brown sand with specs of black ash; small stones throughout. (40-48" moist band).
C	4-6			0.0	
D	6-8	48/48	1240	2.5	
E	8-10			0.0	(72-74") same as above with porous cinders. (74-76") black band with cinders; SO ash and coal. (76-120") F light orange and brown silty sand; saturated.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E08

Date: 12/14/99

Within 100' of Water: No

Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 3.5'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0906	0.0	(0-2") M brown sand. (2-8") black sand with cinder ash. (8-24") light tan/light brown silty sand with bits of small stone. (22-24") M gravel and light brown silty sand.
B	2-4	48/48	0914	0.0	(24-30") M gravel and light brown silty sand with bits of coal. (30-36") F to silty light brown sand with SO small stones; moist. (36-72") silty brown sand with SO rounded gravel; porous cinders at 36-40"; saturated at 40".
C	4-6			0.0	
D	6-8	48/48		0.0	(72-74") silty brown sand with SO rounded gravel; (74-76") cinder ash stone. (76-84") M/C brown sand with small rounded stones. (84-120") silty brown sand; dense; saturated.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

**PROPORTIONS USED**

TRACE (TR) 0-10%  
LITTLE (LI) 10-20%  
SOME (SO) 20-35%  
AND 35-50%

**ABBREVIATIONS**

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

**Well Construction**

**DEPTH INTERVALS**

A = 0-24 in. G = 144-168 in.  
B = 24-48 in. H = 168-192 in.  
C = 48-72 in. I = 192-216 in.  
D = 72-96 in. J = 216-240 in.  
E = 96-120 in. K = 240-264 in.  
F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E09

Date: 12/14/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 4.5'

Logged By: Daryll Issa/Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0828	1.4	(0-4") F/M light brown to brown sand; dry; no odor. (4-8") F/M dark red cinders; dry; no odor. (8-24") F/M gray/blue sand; dry; no odor.
B	2-4	41/48	0845	0.0	(28-32") F/M dark brown and blue sand; dry; no odor. (32-48") F tan sand; dry; no odor. (48-72") F/M tan sand and silt; saturated with water from 55-72"; no odor.
C	4-6			1.4	
D	6-8	48/48		0.0	(72-96") F/M light brown silt and sand with LI oxidation; saturated with water; no odor. (96-120") F/M silt and sand with SO oxidation and SO gravel; saturated with water; no odor.
E	8-10			1.4	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E10  
Date: 12/14/99  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 3.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0950	0.0	(0-2") F/M brown sand. (2-6") cinder ash with brown sand. (6-12") silty brown sand. (12-24") silty brown sand; saturated. (Surficial Runoff).
B	2-4	40/48	1000	0.0	(32-34") silty brown sand; saturated. (34-36") cinder ash band. (36-72") silty brown sand; dense; saturated.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:  
Surficial runoff in proximity to boring location.

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E11

Date: 12/14/00

Within 100' of Water: No

Instrument: Thermo Environmer.  
Instruments, Inc., Model 580B OV

Boring Depth: 6.0'

Depth to Water: 3.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1345	0.0	(0-4") brown sand with M gravel. (4-10") M black sand with cinder ash and cinder stone. (10-14") F/M light brown sand with SO small gravel. (14-24") silty brown sand; dense; porous cinders at 20-24".
B	2-4	42/48	1405	0.0	(30-32") silty brown sand; dense. (32-34") M black sand with SO cinder ash. (34-72") brown/light brown silty sand; dense; saturated.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



## TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: E12
ESS Job No: P151-002	Date: 12/14/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 3.0'
	Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1410	0.0	(0-4") M brown sand with SO cinder ash and SO cinder ash rock. (4-24") light brown silty sand; dry.
B	2-4	48/48	1425	0.0	(24-28") light brown silty sand; dry. (28-72") dense brown silty sand; saturated at approximately 36".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

**PROPORTIONS USED**

TRACE (TR)            0-10%  
LITTLE (LI)            10-20%  
SOME (SO)              20-35%  
AND                        35-50%

**ABBREVIATIONS**

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

**Well Construction**

**DEPTH INTERVALS**

A = 0-24 in.            G = 144-168 in.  
B = 24-48 in.            H = 168-192 in.  
C = 48-72 in.            I = 192-216 in.  
D = 72-96 in.            J = 216-240 in.  
E = 96-120 in..        K = 240-264 in.  
F = 120-144 in.        L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E13

Date: 12/14/00

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1445	0.0	(0-4") M brown sand with cinder ash. (4-24") light tan and pink with SO M/large stones and SO coal; M yellow/brown sand with M rounded stones.
B	2-4	48/48	1455	0.0	(24-26") M light pink sand with stone. (28-30") M brown sand. (30-60") M brown sand with large gravel; oxidized. (60-72") silty brown sand; dense; saturated at 60".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E14  
Date: 12/15/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 4.0'  
Logged By: Nicole Murry

Depth (Intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1140	0.0	(0-4") M brown sand with M black gravel. (4-6") cinder ash. (6-12") large gravel and light brown sand with bits of coal and gravel. (12-24") M light tan sand.
B	2-4	48/48	1155	0.0	(24-26") M light tan sand. (26-28") M brown sand with SO cinder. (28-48") M yellow sand and gravel. (48-60") large brown/yellow sand with gravel; wet. (60-72") silty brown sand with gravel; wet.
C	4-6			0.0	
D	6-8	42/48		0.0	
E	8-10			0.0	(78-84") M gravel with M sand; wet. (84-96") M/large brown gravel; saturated. (96-120") iron oxidation; large gravel.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR) 0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E15

Date: 12/15/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: Not determined

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1520	14.1	(0-20") F/M blue stained sand and wood chips with F/C tan sand mixed in; dry; strong odor. (20-24") F/M dark blue sand with SO gravel; dry; odor present.
B	2-4	36/48		263	(36-42") F/M light blue sand and silt; dry; heavy odor. (42-72") F/M blue stained sand, silt, and gravel; dry; heavy odor. Refusal at 72".
C	4-6		1530	939	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: E16
ESS Job No: P151-002	Date: 12/15/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 3.0'
	Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1325	0.0	(0-8") F/M dark brown sand. (8-24") F/silty light brown sand with SO gravel.
B	2-4	48/48	1335	0.0	(24-72") F/silty light brown sand with SO gravel; saturated at approximately 36".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: E17  
 Date: 12/15/00  
 Within 100' of Water: No  
 Instrument: Thermo Environment  
 Instruments, Inc., Model 580B OVM  
 Boring Depth: 6.0'  
 Depth to Water: 4.5'  
 Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (In.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1345	0.0	(0-8") M brown sand with roots and organics; leaves. (8-24") F silty light brown sand.
B	2-4	40/48	1355	0.0	(32-48") F silty light brown sand. (48-72") F silty light brown sand; saturated at approximately 40%.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E18

Date: 12/15/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 3.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1410	0.0	(0-4") M brown sand; SO organics; roots. (4-10") M/large brown/orange sand with gravel. (10-24") dense silty brown sand; dry.
B	2-4	40/48	1420	0.0	(32-36") M brown sand with gravel. (36-72") dense silty brown sand; saturated at 36".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

**PROPORTIONS USED**

TRACE (TR) 0-10%  
LITTLE (LI) 10-20%  
SOME (SO) 20-35%  
AND 35-50%

**ABBREVIATIONS**

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

**Well Construction**

**DEPTH INTERVALS**

A = 0-24 in. G = 144-168 in.  
B = 24-48 in. H = 168-192 in.  
C = 48-72 in. I = 192-216 in.  
D = 72-96 in. J = 216-240 in.  
E = 96-120 in. K = 240-264 in.  
F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E19

Date: 12/15/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6'

Depth to Water: 4.5'

Logged By: Daryll Issa/Nicole  
Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1438	0.0	(0-10") M brown to black sand; dry; no odor. (10-12") black cinder ash and black cinders with M brown to black sand; dry; no odor. (12-15") M light brown sand with SO gravel; dry; no odor. (15-17") cinder ash and black cinders. (17-24") F/silty brown sand; dry.
B	2-4	36/48	1450	0.0	(36-40") F/M brown/dark brown sand with gravel mixed in; dry; no odor. (40-52") F/M light brown silt and sand; damp; no odor. (52-72") F/M brown silt and sand; saturated with water; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E20

Date: 12/15/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 2.5'

Logged By: Daryll Issa

Depth (Intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1500	0.0	(0-4") F/M brown sand and organic matter; dry; no odor. (4-15") F/M brown sand and silt with TR gravel; dry; no odor. (15-24") F/M brown silt and sand; saturated with water; no odor.
B	2-4	48/48	1515	0.0	(24-72") F dense silty brown sand; saturated at approximately 36"
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E21

Date: 12/16/99

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 2.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1010	0.0	(0-8") F/M brown sand with SO small rounded stones. (8-18") F brown and light brown sand. (18-20") gravel; stone. (20-24") F dense silty brown sand; wet.
B	2-4	36/48	1020	0.0	(36-48") F silty brown sand; saturated. (48-72") F silty brown sand with iron staining at 60-72"; saturated.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (L) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E22  
Date: 12/16/99  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1040	0.0	(0-5") M brown sand with large gravel stone. (5-7") cinder ash band. (7-12") M light tan/brown sand with green spotting and mixed gravel. (12-20") M/large orange sand with gravel. (20-24") F silty orange/brown sand.
B	2-4	40/48	1050	0.0	(24-32") M brown sand with gravel. (32-50") M/large brown/orange sand with mixed gravel. (50-72") F brown silty sand; dense; saturated at 60".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E23

Date: 12/13/99

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 5.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1114	0.0	(0-8") F/M brown sand; roots; SO gravel stone. (8-20") F silty dense brown sand. (20-24") F silty loose light tan sand
B	2-4	36/48		0.0	(36-60") Fine silty loose light tan sand with brown sand and SO gravel. (60-66") M orange sand with SO gravel; wet. (66-72") M brown sand with SO gravel; wet.
C	4-6		1130	0.0	
D	6-8	30/48		0.0	
E	8-10			0.0	(90-94") M brown sand; wet. (94-120") F/M light brown and orange sand; saturated at 94".
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E24  
Date: 12/16/99  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 7.0'  
Depth to Water: 4.5'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1216	0.0	(0-6") M loose brown sand. (6-8") dense brown silty sand. (8-12") M loose brown sand with gravel, bits of coal, and SO brick. (12-24") F/M light brown to brown sand with gravel and coal bits throughout; large cinder block at 14".
B	2-4	40/48	1235	0.0	(32-36") F/M brown sand with cinder ash and coal bits throughout. (36-44") F silty light brown sand with SO gravel; coal bits; wet at 44-48". (48-50") gravel band. (50-72") F/M dense brown sand with small gravel.
C	4-6			0.0	
D	6-8	12/48		0.0	
E	8-10				(72-84") F orange/brown sand with SO small gravel; saturated.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	(+1.0-2.0') PVC Solid Riser (2.0-7.0') PVC Screen One inch sump at 7.0'	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM F/C = FINE TO COARSE M/C = MEDIUM TO COARSE		D = 72-96 in.	J = 216-240 in.
				E = 96-120 in.	K = 240-264 in.
				F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E25

Date: 12/17/99

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0815	0.0	(0-4") M brown sand. (4-7") F/M brown sand. (7-14") F/M light brown to brown sand with cinder ash throughout. (14-20") M brown sand with cinders and coal bits. (20-24") F orange/brown sand.
B	2-4	36/48	0830	0.0	(36-40") F/M dense brown sand. (40-44") large brown sand with M rounded gravel. (44-48") F/M brown sand with M/large rounded gravel; wet. (48-72") F/M silty sand with SO small rounded gravel; saturated at 48".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (L)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: E26  
 Date: 12/17/99  
 Within 100' of Water: No  
 Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
 Boring Depth: 6.0'  
 Depth to Water: 5.0'  
 Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0845	0.0	(0-8") M/C brown sand with M/large rounded gravel. (8-9") cinder ash/cinders. (9-14") F/M sand with brick and small gravel. (14-16") cinder ash with M brown sand. (16-18") large gravel with F/M brown sand. (18-24") cinder ash with F/M silty brown sand.
B	2-4	36/48	0855	0.0	(36-40") M brown sand with small rounded gravel and cinder ash bits; brick. (40-48") F/M brown sand with large gravel; bits of coal at 47-48". (48-56") F/M silty dense brown sand with SO large gravel. (56-60") large brown sand with M gravel; wet. (60-72") F dense silty brown/light brown sand; saturated at 60".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: E27
ESS Job No: P151-002	Date: 12/20/99
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environment Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 5.0'
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1105	28.2	(0-17") F/M brown sand and gravel with TR gravel; dry; no odor. (17-24") F/M light brown/ brown sand and black cinders with TR gravel and TR brick; dry; faint odor.
B	2-4	47/48	1155	3.5	(25-37") F/M brown sand and gravel and black cinders; TR brick pieces; dry; light odor. (37-61") F/M light brown/brown sand - uniform; dry; no odor. (61-72") F/M brown sand with SO gravel; saturated with water; light odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)                    0-10%	F = FINE		A = 0-24 in.                    G = 144-168 in.
LITTLE (LI)                    10-20%	M = MEDIUM		B = 24-48 in.                    H = 168-192 in.
SOME (SO)                    20-35%	C = COARSE		C = 48-72 in.                    I = 192-216 in.
AND                                35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.                    J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in..                  K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.                  L = 264-288 in.



# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E28  
Date: 12/20/99  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: not determined  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	23/24	1215	1.7	(0-18") F/M brown and black sand with SO gravel; dry; no odor. (18-20") F light brown sand; dry; no odor. (20-24") F/M dark red stained sand with TR silt; dry; light odor.
B	2-4	40/48		1.7	(32-36") F/M dark red stained sand with TR silt; dry; no odor. (36-50") F/M dark brown sand with SO gravel; dry; no odor. (50-54") pulverized stone. (54-72") F/M brown sand with SO gravel and SO black cinders; damp; no odor.
C	4-6		1230	1.7	
D	6-8	48/48		1.7	(72-84") F/M brown sand and gravel with SO black cinders; damp; no odor. (84-120") F/C brown sand and gravel; dry; no odor.
E	8-10			1.7	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E29  
Date: 12/17/99  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 4.5'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1005	0.0	(0-8") M/C brown sand and large gravel with SO roots; moist. (8-20") C cinder ash mixed with poorly sorted small/M gravel; cinder ash and black cinders throughout. (20-24") F/M brown sand; SO gravel; dense; wet.
B	2-4	36/48		54.6	(36-40") M/C brown sand; heavy content of C cinder ash. (40-48") F/M silty light brown/brown sand. (48-72") F/M silty brown/dark gray sand; wet; heavy petroleum odor.
C	4-6	36/48	1050		
D	6-8	40/48		127	(80-90") poorly sorted F/C sand; black cinder ash and cinder ash stone; saturated. (90-120") F/M silty brown/black sand; saturated with petroleum; heavy petroleum odor. Sheen observed
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	(+1.0-2.0') PVC Solid Riser (2.0-7.0') PVC Screen One inch sump at 7.0"	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM F/C = FINE TO COARSE M/C = MEDIUM TO COARSE		D = 72-96 in.	J = 216-240 in.
				E = 96-120 in..	K = 240-264 in.
				F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E30

Date: 12/17/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 3.5'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1220	0.0	(0-6") poorly sorted M/large gravel with F/M brown sand; roots; visible iron staining at 6". (6-8") black silty sand (8-24") F/M brown silty sand with M rounded gravel; cinder ash at 20-21"; soil wet at 20-24".
B	2-4	48/48		0.0	(24-28") F/M dense silt; SO small gravel. (28-38") F/M light brown and tan silty sand; SO small gravel. (38-39") cinder ash with M brown sand; wet. (39-72") F/M brown silty sand with SO small gravel; saturated.
C	4-6		1240	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E31

Date: 12/16/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1315	0.0	(0-10") M brown sand with gravel and small rounded stones; dense. (10-18") cinder ash band with M brown sand. (18-24") F silty light brown sand.
B	2-4	36/48	1330	0.0	(36-40") cinder ash with SO M brown sand; SO gravel. (40-48") F dense silty brown sand; wet. (48-52") M/C brown sand with gravel; saturated. (52-60") F silty orange and brown sand; dense. (60-72") F/M brown sand with small rounded stones and SO gravel; saturated.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				
Comments:					

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E32  
Date: 12/15/99  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1350	0.0	(0-4") M loose brown sand with small/large rounded stones. (4-10") M brown and light tan sand with M/large rounded stone; cinder ash throughout (10-12") cinder ash band. (12-14") M brown sand with SO stone. (14-16") dense light brown silty sand. (16-24") cinder ash with M/large brown sand and small rounded stones.
B	2-4	36/48		0.0	(36-40") M brown sand with large gravel. (40-42") gravel (large conglomerate stone). (42-50") F silty sand. (50-54") M/C sand with M gravel. (54-58") M/C sand with small/M gravel. (58-60") schist stone and gravel. (60-72") F light tan silty sand; saturated.
C	4-6		1420	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E33  
Date: 12/20/99  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 4.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	22/24	1415	1.7	(2-15") F/C brown and light brown sand and gravel; dry; no odor. (15-24") blue/black cinders with SO F/M brown sand and SO gravel; dry; no odor.
B	2-4	42/48	1430	0.0	(30-36") black/blue stained cinders with SO dark brown sand and TR gravel; dry; no odor. (36-42") F/M brown sand with SO gravel; dry; no odor. (42-72") F/C brown sand with TR silt and TR gravel; saturated with water; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: E34  
 Date: 12/20/99  
 Within 100' of Water: No  
 Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
 Boring Depth: 6.0'  
 Depth to Water: 5.0'  
 Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1020	5.3	(0-5") F/M brown sand and gravel; dry; no odor. (5-8") F/M black sand and gravel; dry; no odor. (8-16") F/M blue-stained soil with wood chips and gravel; dry; no odor. (16-24") F gray/tan/blue sand with TR gravel; dry; no odor.
B	2-4	40/48		291	(32-42") F/M brown sand mixed with blue stained sand and SO gravel; dry; no odor. (42-58") F/M brown sand and gravel; wet; no odor. (58-72") F/M rust-colored sand and silt with TR gravel; saturated with water; odor present.
C	4-6		1045	348	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		G = 144-168 in.
SOME (SO) 20-35%	C = COARSE		B = 24-48 in.
AND 35-50%	F/M = FINE TO MEDIUM		H = 168-192 in.
	F/C = FINE TO COARSE		C = 48-72 in.
	M/C = MEDIUM TO COARSE		I = 192-216 in.
			D = 72-96 in.
			J = 216-240 in.
			E = 96-120 in..
			K = 240-264 in.
			F = 120-144 in.
			L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E35

Date: 12/20/99

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1505	63.0	(0-10") F/M brown sand and gravel; dry; no odor. (10-18") black bits of coal; dry; no odor. (18-24") F/M gray/black stained sand; dry; petroleum odor.
B	2-4	42/48		51.0	(30-36") F/M black stained sand with SO black cinders; bits of coal; dry; odor present. (36-47") F/M gray stained sand and silt; damp; heavy odor. (47-60") F/M gray stained sand and gravel; wet; heavy odor. (60-72") F brown/dark brown sand with TR gravel; wet; heavy odor.
C	4-6		1530	74.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



**TEST BORING LOG**



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E36  
Date: 12/21/99  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 5.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1000	4.0	(0-5") F/M brown sand with SO organics; roots. (5-12") C cinder ash mixed with brick, M brown sand, and small/M gravel. (12-24") very C cinder ash with cinder ash block (large pieces).
B	2-4	36/48		151.0	(36-48") very C cinder ash with cinder ash block (large pieces). (48-60") M petroleum stained sand. (60-72") cinder ash block with large gravel; heavy petroleum odor; staining; saturated at 60".
C	4-6		1015		
D	6-8				(72-84") cinder ash block with large gravel; heavy petroleum odor; staining. (84-120") M black stained silty sand; saturated; petroleum sheen observed on soil.
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in.
LITTLE (LJ) 10-20%	M = MEDIUM		G = 144-168 in.
SOME (SO) 20-35%	C = COARSE		B = 24-48 in.
AND 35-50%	F/M = FINE TO MEDIUM		H = 168-192 in.
	F/C = FINE TO COARSE		C = 48-72 in.
	M/C = MEDIUM TO COARSE		I = 192-216 in.
			D = 72-96 in.
			J = 216-240 in.
			E = 96-120 in.
			K = 240-264 in.
			F = 120-144 in.
			L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Boring No.: E37  
Date: 1/26/00  
Within 100' of Water: No

Driller.: Environmental Drilling, Inc.

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Well Diameter: N/A

Boring Depth: 6.0'

Drilling Method: Geoprobe

Depth to Water: 4.0'

Sample Method: 4' Acetate Sampler

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (In.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1420	0.0	(0-12") miscellaneous fill with M brown sand, gravel, SO brick, and M/large gravel at 10-12". (12-21") F black cinder ash with coal bits. (21-24") gray gravel with F gray sand.
B	2-4	40/48	1435	0.0	(32-34") large gravel with black cinder ash. (34-46") F/M light tan sand; soft. (46-52") dense gray silty sand with petroleum staining and water saturation at 48"; heavy coal bits at 46". (52-72") poorly sorted F/C light brown sand mixed with small/large rounded stones.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E38

Date: 12/21/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.5'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1050	0.0	(0-4") F/M brown silty sand with organics; roots and grass at 0-1/4" and SO F gravel. (4-6") F orange silty sand with SO clay. (6-12") M brown and orange sand; damp. (12-16") M brown and orange sand mixed with large pieces of cinder ash block; damp. (16-20") C cinder ash. (20-24") dense light brown F silty sand with SO gravel.
B	2-4	44/48			(48-56") F/M brown sand; wet. (56-60") F/M brown sand; wet; heavy petroleum staining. (60-64") dense petroleum stained brown clay. (64-66") M black petroleum stained sand. (66-72") M brown sand; saturated; light petroleum staining.
C	4-6		1115	163	
D	6-8				
E	8-10				
	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E39  
Date: 1/26/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1345	0.0	(0-4") M brown sand with roots; small/large rounded stones and SO brick. (4-12") F black cinder ash. (12-14") black cinder ash with bits of coal. (14-18") black cinders and cinder ash. (18-22") dense light tan silty sand mixed with cinder ash and porous cinders.
B	2-4	36/48		110	(36-40") black cinder ash. (40-44") M orange sand with M gravel. (44-72") F gray/brown sand with SO cinder ash at 44-48" and M rounded stones; Wet at 56"; sheen observed.
C	4-6		1400		
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E40  
Date: 12/21/99  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 4.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1150	0.0	(0-4") M brown sand with large gravel. (4-6") pink quartz stone. (6-14") F/M light brown sand with black and gray porous cinders throughout. (14-15") oxidized stone. (15-20") F/M light brown sand with black and gray porous cinders throughout with SO M gravel. (20-24") heavily black stained F/M clay and sand; heavy greenish blue hue.
B	2-4	36/48	1205	0.0	(36-40") F/M light brown sand with black and gray porous cinders throughout. (40-48") light tan silty sand with black and gray porous cinders throughout; SO evidence of orange oxidation. (48-72") F silty light tan/yellow sand with porous cinders of gray, black, and rust color throughout; saturated.
C	4-6				
D	6-8				
E	8-10				
	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (L) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E41

Date: 12/21/99

Within 100' of Water: No

Instrument: Thermo Environmen.  
Instruments, Inc., Model 580B OV

Boring Depth: 6.0'

Depth to Water: 4.5'

Logged By: Nicole Murry

Depth (Intervals)	Sample Depth (feet)	Recovery/ Penetration (In.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1330	0.0	(0-5") M dense brown sand with M/large gravel. (5-6") M black sand. (6-8") M dark brown sand. (8-22") M/C cinder ash mixed with SO M black sand and brick. (22-24") schist stone with M brown sand; visible oxidation (iron staining).
B	2-4	44/48	1352		(28-36") M/C cinder ash mixed with SO M black sand and brick. (36-48") F/M loose brown/gray silty sand; petroleum staining; odor throughout. (58-60") C cinder ash mixed with loose brown/gray sand. (60-64") M brown sand with large gravel. (64-66") loose light tan silty sand. (66-72") M brown/gray sand with large gravel; petroleum staining at 36-72"; saturation at approximately 40".
C	4-6			314	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E42

Date: 12/21/99

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 2.5'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1405	0.0	(0-5") M brown sand with large gravel; SO organics. (5-6") brown sand with cinder ash. (6-8") solid brick. (8-24") M/C cinder/ash with large bits of cinder ash and porous cinders.
B	2-4	44/48	1440	14	(28-36") M/C cinder ash with SO black cinders. (36-38") brown silty sand with small gravel. (38-56") M/C cinder ash with porous cinders mixed with SO M black sand. (56-72") F brown/gray petroleum stained silty sand with SO gravel at 65-72". Wet at 30".
C	4-6				
D	6-8	48/48			
E	8-10				(72-120") F brown/gray petroleum stained silty sand with SO gravel; wet.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	(+ 5-1.8') PVC Solid Riser (1.8-6.8') PVC Screen One inch sump at 6.75'	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE	F = 120-144 in.	L = 264-288 in.	

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E43  
Date: 12/21/99  
Within 100' of Water: No  
Instrument: Thermo Environmen.  
Instruments, Inc., Model 580B OVN  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1500	0.0	(0-12") M brown sand; organics; stones. (12-16") SO cinder ash with M brown sand. (16-18") brick; cinder ash; large gravel; M brown sand. (18-20") M dense brown sand. (20-21") white gravel. (21-24") C cinder ash with brick.
B	2-4	40/48			(32-60") M/C cinder ash with cinder ash stone and C porous cinders mixed with SO M black sand; oxidation and iron staining at 54". (60-72") F silty brown/gray sand; heavy petroleum staining; heavy petroleum odor; saturated at 60".
C	4-6		1510	4.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: E44  
 Date: 12/22/99  
 Within 100' of Water: No  
 Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
 Boring Depth: 6.0'  
 Depth to Water: 4.5'  
 Logged By: Daryll Issa/Nicole Murry

Depth Intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0930	0.0	(0-2") organic matter. (2-8") F/M brown sand and gravel; dry; no odor. (8-24") black cinders with F/M brown sand and with TR gravel; dry; no odor.
B	2-4	36/48	0940	0.0	(36-40") F/M black cinder ash. (40-44") C black cinder ash with SO black cinders. (44-48") F dense silty brown sand. (48-60") F/M brown sand with SO small gravel. (60-72") M/C brown sand; SO M/large rounded gravel; saturation at 54".
C	4-6			0.0	
D	6-8				
E	8-10				
	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E45  
Date: 12/22/99  
Within 100' of Water: No  
Instrument: Thermo Environmen.  
Instruments, Inc., Model 580B OV  
Boring Depth: 6.0'  
Depth to Water: 4.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1005	0.0	(0-5") brown to black sand mixed with M/large gravel; grass; organics; leaves. (5-10") M black sand with M cinder ash. (10-16") black/teal/gray soil and C cinder ash, moist. (16-20") F/M gray/tan soils stained dark green with large gravel/cobble. (20-24") F/M silty tan soils; SO gravel; moist.
B	2-4	48/48	1015	0.0	(24-28") F/M silty tan soils; SO gravel; moist. (28-32") M/C cinder ash mixed with F/M silty tan soils and SO gravel or wood fiber; moist. (32-38") iron stained F/M orange/tan sandy soils mixed with M rounded gravel. (38-48") F yellow/tan sandy soil. (48-68") M gray/brown soils with SO small rounded gravel. (68-72") large gravel mixed with iron stained gray/brown silty sand; saturation at 48"
C	4-6				
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS		Well Construction		DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE				A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM				B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE				C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM				D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE				E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE				F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E46  
Date: 12/22/99  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1035	0.0	(0-6") M brown sand with organics; grass; roots. (6-10") M black sand with roots and M gravel. (10-12") M brown sand with roots and small gravel. (12-15") M rust color sand; porous cinders/cinder ash. (15-24") F/M brown sand with cinder ash and orange wood fiber.
B	2-4	46/48	1050	0.0	(26-30") M black/brown sandy soil with spots of orange (iron staining). (30-48") F loose tan/yellow silty sand; black porous cinders throughout. (48-56") M brown sand; SO small gravel. (56-70") F light brown silty sand; saturation at 60%. (70-72") large gravel with M brown sand.
C	4-6				
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E48

Date: 2/1/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.25'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1420	0.0	(0-3") F/M tan sand with TR silt. (3-11") F/C gravel with SO M/C sand and TR porous cinders; moist. (11-22") F black sand and silt with TR gravel and TR porous cinders. (22-24") F brown sand with LI white ash and TR silt.
B	2-4	43/48	1430	0.0	(29-72") F brown sand; LI silt; TR F gravel. Wet at 51".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS		Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE			A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM			B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE			C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM			D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE			E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE			F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E52

Date: 12/22/99

Within 100' of Water: No

Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.5'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1105	0.0	(0-1") organic branches; peat. (1-6") F/M brown soil; heavy organics; roots; peat consistency. (6-10") M brown loose sand with SO cinder ash and M gravel. (10-23") F/M loose tan silty sand. (23-24") cinder ash stone with M orange/brown soil.
B	2-4	42/48		0.0	(30-48") very C black cinder ash mixed with bits of coal, cinders, porous cinders, and roots. (48-49") large tree root. (49-54") M dark brown to black stained sand with coal; C cinder ash. (54-72") F dense light brown/tan silty sand with SO gravel and black cinders; iron stained band at 65"; saturation at 54".
C	4-6		1130	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E53

Date: 12/22/99

Within 100' of Water: No

Instrument: Thermo Environmen.  
Instruments, Inc., Model 580B OVA

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1150	0.0	(0-3") F/M dense brown silty sand. (3-6") M brown sand with C cinder ash and M gravel. (6-10") F yellow/tan silty sand; loose. (10-24") C black cinder ash mixed with large gravel and black cinders.
B	2-4	36/48		35	(36-40") C black cinder ash mixed with large gravel and black cinders. (40-44") dense brown silty sand. (44-45") white gravel stone. (45-60") C black cinder ash with black cinders and SO M black/brown sand. (60-72") dense gray/brown silty sand with SO M rounded gravel stone at 68"; petroleum odor and staining at 70-72"; saturation at 60".
C	4-6		1215		
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E54  
Date: 2/1/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	22/24	1445	0.0	(2-10") C gravel; SO M/C brown sand; wet (10-24") F black sand and silt; TR C sand.
B	2-4	45/48	1500	0.0	(27-33") F tan sand; LI silt. (33-72") F/M brown sand; TR F gravel; TR silt; areas of iron staining throughout. Wet at 60".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E55

Date: 2/1/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.0'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1515	0.0	(0-18") F/M brown sand and F gravel; TR silt; dry. (18-24") F/M light brown sand; TR F gravel; TR silt.
B	2-4	46/48	1525	0.0	(26-49") F/M brown sand; LI black cinder/ash; TR silt; dry. (49-72") F/M brown sand; TR silt; wet.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
		F = FINE	(+1.0-2.0') PVC Solid Riser (2.0-7.0') PVC Screen One inch sump at 7.0'	A = 0-24 in.	G = 144-168 in.
TRACE (TR)	0-10%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
LITTLE (LI)	10-20%	C = COARSE		C = 48-72 in.	I = 192-216 in.
SOME (SO)	20-35%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
AND	35-50%	F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE	F = 120-144 in.	L = 264-288 in.	



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E57

Date: 2/2/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1330	7.3	(0-2") frozen topsoil and snow. (2-8") F/M brown/dark brown sand with SO gravel; dry; no odor. (8-12") F brown sand with SO gravel; dry; no odor. (17-24") small/large black cinders and cinder ash with SO shiny coal pieces and TR gravel; dry; no odor.
B	2-4	41/48	1340	0.0	(31-36") F/M black cinder ash; dry; no odor (loose ). (36-46") M/large black cinders with SO cinder ash and SO F/M brown/dark brown sand; dry; no odor. (46-72") F grey sand and SO silt; wet; slight odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: E58  
 Date: 1/4/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
 Boring Depth: 6.0'  
 Depth to Water: 3.0'  
 Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0855	0.0	(0-6") topsoil and F/M brown sand; dry; no odor. (6-15") F tan sand; dry; no odor. (18-24") small/M black cinders with TR sand; dry; no odor.
B	2-4	39/48		0.0	(33-36") F/M black sand and black cinders; dry; no odor. (36-72") black cinders and TR black/brown sand; wet; no odor.
C	4-6		0910	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LJ)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company	Boring No.: E59
642 Allens Avenue, Providence, RI	Date: 1/4/00
ESS Job No: P151-002	Within 100' of Water: No
Driller.: Environmental Drilling, Inc.	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Well Diameter: N/A	Boring Depth: 6.0'
Drilling Method: Geoprobe	Depth to Water: 5.5'
Sample Method: 4' Acetate Sampler	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0925	4.5	(0-7") F/M brown topsoil with TR silt; dry; no odor. (8-17") F/M black stained sand, cinders, and gravel; dry; no odor. (17-24") F tan sand with TR gravel; dry; no odor.
B	2-4	42/48		0.0	(30-36") F/M brown/black sand with SO gravel; dry; no odor. (36-47") F tan sand with TR gravel; dry; no odor. (47-72") Black colored cobbles with brown stained sand; wet at 66", no odor.
C	4-6		0940	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: E61
ESS Job No: P151-002	Date: 1/20/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 5.5'
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1415	0.0	(0-19") F/M brown sand, gravel, and pulverized stone; dry; no odor. (19-22") F/M brown sand and gravel; dry; no odor. (22-24") F/M light brown sand and gravel; dry; no odor.
B	2-4	38/48	1430	0.0	(34-37") F/M dark brown sand (frozen) with SO gravel. (37-40") concrete and pulverized stone. (40-46") F/M brown sand with SO gravel; wet at 66"; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)            0-10%	F = FINE		A = 0-24 in.            G = 144-168 in.
LITTLE (L)            10-20%	M = MEDIUM		B = 24-48 in.            H = 168-192 in.
SOME (SO)            20-35%	C = COARSE		C = 48-72 in.            I = 192-216 in.
AND                    35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.            J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.           K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.           L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E62

Date: 1/20/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	20/24	1455	0.0	(4-8") M/large gravel with SO F/M sand; dry; no odor. (8-24") F/M dark brown sand and M/large dull black cinders and gravel; dry; light odor at 22-24"; SO F/M orange/brown silt.
B	2-4	46/48	1510	0.0	(26-31") gravel and F/M black stained sand. (31-37") F brown sand with LI gravel; dry; no odor. (37-58") F/M brown/orange sand with LI gravel; dry; no odor. (58-61") F dark brown sand with LI silt; wet; no odor. (61-72") F/C brown sand and gravel; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E64

Date: 2/2/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1400	0.0	(0-3") topsoil. (3-5") F/M black stained sand with SO gravel; dry; no odor. (5-10") F/M brown sand with LI gravel; dry; no odor. (10-24") F/M brown sand with SO gravel; dry; no odor.
B	2-4	42/48	1425	0.0	(30-32") F/M black/brown sand/silt; dry; no odor. (32-47") F/M brown sand and gravel; dry - damp at 47"; no odor. (47-57") F brown sand with SO silt and SO black stained sand and LI gravel; wet; no odor. (57-72") F/C brown/orange/black sand; saturated with water; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LJ)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E65

Date: 1/21/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1050	0.0	(0-24") F/M brown sand with SO gravel; dry; no odor; F only from 18-24".
B	2-4	48/48	1105	0.0	(24-48") F/M brown/black sand with SO shiny and dull M/large cinders and LI porous cinders; dry; no odor. (48-60") F light brown sand with TR gravel (with SO light blue streaks in it) and TR silt; wet; no odor. (60-72") F/M brown/dark brown sand with LI gravel and TR silt; saturated with water; light odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E66

Date: 1/21/00

Within 100' of Water: No

Instrument: Thermo Environment,  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1120	0.0	(0-24") F/M dark brown sand with light gravel and SO light green staining; dry; no odor.
B	2-4	47/48	1135	0.0	(25-39") F/M brown sand with dull black cinders, SO gravel, and LI silt; dry; light odor. (39-53") M and large black/orange/white porous cinders; dry; no odor. (53-72") F brown sand with SO silt; saturated with water; light odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E67  
Date: 1/21/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 4.5'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1145	0.0	(0-24") F/M brown sand and gravel with TR small black dull cinders; dry; no odor.
B	2-4	48/48	1200	0.0	(24-52") F/M light brown/dark brown/black sand with SO gravel and LI black cinders; dry; light odor. (52-72") F/M brown/dark brown sand with LI gravel; saturated with water; light odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002.

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E68

Date: 1/20/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0930	0.0	(0-9") concrete/gravel; (9-14") F/M brown sand and concrete with SO gravel; dry; no odor. (14-19") F/M black large/M cinders with SO cinder ash; dry; no odor. (19-24") F/M brown sand and gray sand with LI gravel and large shiny cinders; dry; no odor.
B	2-4	39/48	1005	0.0	(33-36") F/C brown sand with LI gravel; dry; no odor. (36-48") F/M loose cinder ash with SO small dull cinders; dry; no odor. (40-46") F/M gray sand with LI gravel; dry; no odor. (46-52") F/M brown sand with SO gravel; damp; no odor. (52-72") F/M brown sand and black sand with SO gravel and SO large black cinders; saturated with water; odor present; red staining at 60-72".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E69

Date: 1/20/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1020	0.0	(0-8") concrete/gravel; (8-14") large dull black cinders with LI cinder ash; dry; no odor. (14-24") F brown sand with TR gravel; dry; no odor.
B	2-4	46/48	1035	0.0	(26-56") F/M brown sand with TR gravel and TR black cinders; dry; no odor. (56-70") F brown sand with TR silt; saturated with water; no odor. (70-72") F/M brown/gray/black stained sand and silt with LI wood chips; saturated with water; odor present.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E70

Date: 1/20/00

Within 100' of Water: No

Instrument: Thermo Environmen.  
Instruments, Inc., Model 580B OVI

Boring Depth: 6.0'

Depth to Water: 4.5'

Logged By: Daryl Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1130	0.0	(0-8") F/M black/brown sand with TR gravel and SO M/large black dull cinders; dry; no odor. (8-24") F/M brown sand with SO gravel; dry; no odor.
B	2-4	46/48	1145	0.0	(26-38") F/M brown sand with SO gravel and SO large stones; dry; no odor. (38-53") F/M brown sand with SO pulverized stone; dry; no odor. (53-72") F/M brown sand with TR gravel; saturated with water; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (L) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



72 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: E71  
 Date: 1/20/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVM  
 Boring Depth: 6.0'  
 Depth to Water: 5.0'  
 Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1150	0.0	(0-8") F dull brown topsoil with TR gravel; dry; no odor. (8-20") F/M light brown to dark brown sand with SO black shiny/dull cinders and LI gravel; dry; no odor. (20-24") F black stained sand; dry; light odor.
B	2-4	48/48	1210	0.0	(24-36") F light purple sand with SO gravel and TR black cinders; dry; no odor. (36-60") F/M sand with SO gravel; dry; no odor. (60-72") F/M gray/ brown sand with TR gravel; saturated with water; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E72

Date: 1/20/00

Within 100' of Water: No

Instrument: Thermo Environmen.  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1325	0.0	(0-3") topsoil. (3-17") M/large pieces of gravel with LI F/M brown sand; dry; no odor. (17-24") F/M dark brown sand with SO gravel; dry; no odor.
B	2-4	48/48	1340	0.0	(24-26") F/M black/gray stained sand with LI gravel; dry; no odor. (26-55") F/M brown sand with LI gravel; dry; no odor. (55-72") F/M brown sand with TR silt and LI gravel; saturated with water; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E73

Date: 1/20/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1400	0.0	(0-14") F/M brown (frozen) sand with SO gravel; dry; no odor. (14-20") F/M brown sand and pulverized white stone with SO gravel; dry; no odor. (20-24") F/M brown sand with SO gravel.
B	2-4	35/48	1405	0.0	(37-50") F/M dark brown sand with SO gravel; dry; no odor. (50-58") F/C light brown sand with SO gravel; dry; no odor. (58-72") M/large sized gravel; saturated with water; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E74

Date: 1/21/00

Within 100' of Water: No

Instrument: Thermo Environment.  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0950	0.0	(0-6") concrete/gravel. (6-18") F/M brown/ dark brown sand with TR gravel and SO bits of coal; dry; no odor. (18-24") F/M gray/black sand with SO cinder ash and bits of coal; dry; no odor. (22-24") yellow sand
B	2-4	39/48	1005	0.0	(33-37") pulverized stone with SO gray/black F/M sand; dry; no odor. (37-56") F/M brown/dark brown sand with TR gravel and LI cinder ash; dry; light odor. (56-72") F black/gray sand with LI gravel; saturated with water; light sweet odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

**PROPORTIONS USED**

TRACE (TR) 0-10%  
LITTLE (LI) 10-20%  
SOME (SO) 20-35%  
AND 35-50%

**ABBREVIATIONS**

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

**Well Construction**

**DEPTH INTERVALS**

A = 0-24 in. G = 144-168 in.  
B = 24-48 in. H = 168-192 in.  
C = 48-72 in. I = 192-216 in.  
D = 72-96 in. J = 216-240 in.  
E = 96-120 in.. K = 240-264 in.  
F = 120-144 in. L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: E75
ESS Job No: P151-002	Date: 1/19/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 5.0'
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1100	0.0	(0-7") concrete and gravel. (7-17") F/M shiny black cinder ash with SO small black cinders; dry; no odor. (17-24") F/M brown sand with SO gravel; dry; no odor.
B	2-4	39/48	1120	0.0	(33-56") F/M brown sand with SO gravel; dry; no odor. (56-62") F/M brown sand with LI gravel and TR silt; wet; no odor. (62-72") F/C brown sand with SO gravel; saturated with water; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E76  
Date: 1/19/00  
Within 100' of Water: No  
Instrument: Thermo Environment  
Instruments, Inc., Model 580B OV.  
Boring Depth: 6.0'  
Depth to Water: 4.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1130	0.0	(0-4") concrete bits with gray sand. (4-12") F black cinder ash with large cinder ash stone. (12-24") F loose light tan silty sand.
B	2-4	48/48	1150		(24-30") F black cinder ash with large cinder ash stone. (30-44") F loose light tan sand; porous cinders at 36". (44-72") F brown and black sandy soils; iron staining throughout; SO green soils; wet at 48". Sheen observed
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E77

Date: 1/24/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1435	0.0	(0-6") F/M brown sand and gravel; dry; no odor. (6-13") M/large black cinders and cinder ash; dry; no odor. (13-24") F/M brown sand with SO gravel and LI small black cinders; dry; no odor.
B	2-4	42/48	1450	0.0	(30-34") F/C gray/brown sand; dry; no odor. (34-48") F/M brown/black sand with SO large black cinders; no odor. (48-52") small/large shiny coal pieces; saturated with water; no odor. (52-61") F brown sand and silt with TR cinders; saturated with water; no odor. (61-72") F black stained sand and silt ; saturated with water; heavy odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.:

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E78

Date: 1/28/00

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.5'

Logged By: Darryl Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1100	0.0	(0-24") F/M brown/dark brown sand and gravel with SO small/M dull black cinders; dry; no odor.
B	2-4	48/48	1115	0.0	(24-28") F/M dark brown sand with SO gravel; dry; no odor. (28-36") F brown sand with SO silt and TR gravel; dry; no odor. (36-50") F brown sand with silt with LI gravel; damp; no odor. (50-72") F brown sand with SO silt; saturated with water; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



72 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: E79
ESS Job No: P151-002	Date: 1/25/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 3.8'
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1330	0.0	(0-13") F/M brown sand with SO gravel; dry; no odor. (13-18") pulverized stone. (18-24") F/M brown sand and gravel with SO light green/gray color; dry; no odor.
B	2-4	48/48	1350	0.0	(24-31") F brown/gray/green sand with LI gravel; dry; no odor. (31-54") F/M brown sand with LI gravel; wet; no odor. (54-62") F/M gray stained sand with LI gravel and SO black cinder ash with SO M/large black cinders; saturated with water; light odor. (62-72") cinder ash and M/large cinders; saturated with water; sweet odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (L) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E80

Date: 1/19/00

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVI

Boring Depth: 6.0'

Depth to Water: 4.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1200	2.2	(0-15") concrete mixed with F/M brown sand and TR F cinder ash with TR gravel; dry; no odor. (15-24") F brown sand with TR gravel; dry; no odor.
B	2-4	43/48	1220	0.0	(29-45") F brown sand with TR gravel; dry; no odor. (45-72") F/M brown to dark brown sand with LI silt; blue streaks in interval; saturated with water; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E81

Date: 1/21/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0920	0.0	(0-9") gravel/asphalt/fill, (9-19") F/M brown sand with SO gravel; dry; no odor. (19-24") F/M dark brown sand with LI gravel; dry; no odor.
B	2-4	45/48	0935	0.0	(27-39") F/M brown sand with SO gravel; dry; no odor. (39-72") F/M dark brown sand with LI gravel; dry - wet at 50-72"; light odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

**PROPORTIONS USED**

TRACE (TR)            0-10%  
LITTLE (LI)            10-20%  
SOME (SO)            20-35%  
AND                      35-50%

**ABBREVIATIONS**

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

**Well Construction**

**DEPTH INTERVALS**

A = 0-24 in.            G = 144-168 in.  
B = 24-48 in.            H = 168-192 in.  
C = 48-72 in.            I = 192-216 in.  
D = 72-96 in.            J = 216-240 in.  
E = 96-120 in..          K = 240-264 in.  
F = 120-144 in.          L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E82

Date: 1/24/00

Within 100' of Water: No

Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.8'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	22/24	1410	0.0	(2-4") asphalt/gravel. (4-15") F/M brown sand with SO gravel and LI black cinders; dry; no odor. (15-24") M/large black cinders with SO black cinder ash; dry; no odor.
B	2-4	46/48		0.0	(26-28") F black cinder ash; dry; no odor. (28-72") F/M brown sand and gravel; wet at 66"; no odor.
C	4-6		1435	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E83  
Date: 1/21/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0845	0.0	(0-7") concrete. (7-18") F/M dark brown sand with TR gravel; dry; no odor. (7-18") F/M brown sand with SO gravel; dry; no odor. (22-24") F brown sand with TR silt; dry; no odor.
B	2-4	45/48	0905	0.0	(27-57") F/M brown sand with SO gravel; dry; no odor. (57-72") F/M brown sand with LI gravel; saturated with water; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E84

Date: 1/19/00

Within 100' of Water: No

Instrument: Thermo Environmen.  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 5.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1400	0.0	(0-6") asphalt with M/large concrete bits..(6-12") M brown silty sand with SO M/large rounded stone. (12-24") F/M black cinder ash with SO orange cinders; F coal bits throughout.
B	2-4	36/48	1410	21.0	(36-40") F/M black cinder ash with SO orange cinders; F coal bits throughout. (40-48") F/M orange sand; SO M stone throughout. (48-72") M/C black cinder ash with SO coal throughout; F cinder ash at 60-72"; wet at 60". Sheen observed.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (L) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: E85
ESS Job No: P151-002	Date: 1/19/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 6'
Sample Method: 4' Acetate Sampler	Depth to Water: 4.5'
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1345	0.0	(0-7") pulverized stone/concrete. (7-15") F/M black cinder ash; dry; no odor. (15-24") F/M brown/dark brown sand with SO cinder ash and TR shiny black cinders; dry; no odor.
B	2-4	46/48	1405	15.0	(26-50") F/M brown/dark brown sand and black cinder ash with shiny and dull black cinders with TR gravel; dry; odor present. (50-59") F/M black cinder ash and small black cinders; wet; heavy odor. (59-72") F/M black cinders and cinder ash with SO silt; saturated with water; heavy, heavy odor.
C	4-6			26.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	(0-3.0') PVC Solid Riser (3.0-8.0')	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM	PVC Screen One inch sump at 8.0'	B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E86

Date: 1/17/00

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVI

Boring Depth: 6.0'

Depth to Water: 4.5'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1325	0.0	(0-2") asphalt and concrete bits. (2-12") M brown sand with M/large gravel and SO black cinder ash throughout. (12-24") F/M black cinder ash with M cinder ash/cinders/coal bits 20-24".
B	2-4	36/48	1340	36.0	(36-42") very fine loose black cinder ash with SO M/C white porous cinders. (42-48") C orange and black cinder, (48-56") very fine black cinder and bits of coal; wet at 52". (56-72") very C black cinder ash/black cinders/black sand; petroleum saturated; heavy odor. Sheen present.
C	4-6				
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: E87  
 Date: 1/19/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVM  
 Boring Depth: 6.0'  
 Depth to Water: 5.0'  
 Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1305	0.0	(0-3") concrete/gravel. (3-24") F/M black cinder ash and small shiny black cinders/coal with TR brown sand and TR gravel; dry; no odor.
B	2-4	35/48	1320	0.0	(37-46") F/M brown sand with TR dull cinders and TR gravel; dry; no odor. (46-53") F/M shiny black cinder ash and small black cinders; dry; no odor. (53-72") F/C cinder ash and small black cinders; wet/saturated with water; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: E88
ESS Job No: P151-002	Date: 1/19/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environment Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 4.5'
	Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1235	0.0	(0-2") asphalt and concrete bits. (2-12") F/M brown and black sand with M rounded gravel; (12-13") quartz stone. (13-24") F black cinder ash mixed with M/C cinder ash and black cinders with SO iron staining (18-24").
B	2-4	48/48	1250		(24-56") F/M black cinder ash mixed with SO orange and C cinders. (56-72") F black cinder ash mixed with coal; tar and cinders; wet at 52".
C	4-6			16.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)            0-10%	F = FINE		A = 0-24 in.            G = 144-168 in.
LITTLE (LI)            10-20%	M = MEDIUM		B = 24-48 in.            H = 168-192 in.
SOME (SO)            20-35%	C = COARSE		C = 48-72 in.            I = 192-216 in.
AND                    35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.            J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.            K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.            L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E89

Date: 1/24/00

Within 100' of Water: No

Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1440	0.0	(0-14") F/M brown sand and gravel; dry; no odor. (14-24") F/M black cinder ash with SO F/M brown sand with SO small black cinders; dry; no odor.
B	2-4	48/48	1450	0.0	(24-30") gravel and black cinders with SO F/M brown sand; dry; no odor. (30-36") F brown sand with TR gravel; damp; no odor. (46-72") F brown sand with TR gravel; saturated with water; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: E90  
Date: 1/25/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 3.8'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1410	0.0	(0-4") topsoil. (3-6") pulverized stone. (6-24") F/M dark brown sand and gravel with SO black cinders; dry; no odor.
B	2-4	48/48	1425	0.0	(24-45") F/M brown sand with SO black stained sand and TR silt with LI gravel; dry; no odor. (45-72") F/M brown/dark brown sand with LI gravel; saturated with water; no odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E91

Date: 1/25/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1025	0.0	(0-13") F/M brown sand and gravel with LI black cinders; dry; no odor. (13-24") F/M dark brown sand with LI gravel; dry; no odor.
B	2-4	38/48	1100	1.0	(34-46") F/M black stained sand and gravel with SO small/M black cinders; damp at 46"; heavy odor. (46-60") F/M black stained sand and gravel with SO black cinders; saturated with water; heavy odor. (60-72") F black stained silt; saturated with water; heavy petroleum odor.
C	4-6	38/48		4.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E92

Date: 3/7/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.8'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	16/24	1410	0.0	(8-22") small/large black cinders with SO black and SO gray cinder ash and SO orange/red small/M porous cinders; dry; no odor. (22-24") F dark brown silt with SO sand and TR gravel; dry; no odor.
B	2-4	28/48		0.0	(44-48") small/M black cinders with SO gravel and SO F/M dark brown sand and SO small white cinders; dry; no odor. (48-59") F dark brown silt with SO F brown/dark brown sand and SO gravel; saturated with water; light odor. (59-72") F gray/dark brown silt with SO gravel and TR small/large black cinders; saturated with water; petroleum odor.
C	4-6		1425	10.7	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: E93
ESS Job No: P151-002	Date: 3/7/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 6.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 4.8'
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	20/24	1435	0.0	(4-6") damp dark brown topsoil. (6-24") F/M brown sand and gravel with TR silt, SO black cinder ash, and LI small/M black cinders; dry; no odor.
B	2-4	34/48		0.0	(38-66") F/M brown/dark brown sand and gravel with TR small/M black cinders and TR silt; wet; no odor. (66-72") F black/dark brown silt and gravel; saturated with water; light odor.
C	4-6		1450	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)                    0-10%	F = FINE		A = 0-24 in.                    G = 144-168 in.
LITTLE (LI)                    10-20%	M = MEDIUM		B = 24-48 in.                    H = 168-192 in.
SOME (SO)                    20-35%	C = COARSE		C = 48-72 in.                    I = 192-216 in.
AND                                35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.                    J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.                  K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.                 L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E94

Date: 3/8/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6"

Depth to Water: N/A

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	N/A	1545	N/A	(0-3") F light brown sand with SO gravel and TR orange paint chips; dry; no odor. (3-6") F/M brown sand with SO gravel and TR orange paint chips; dry; no odor.
B	2-4				
C	4-6				
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:  
Lead grab sample only.

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: E95
ESS Job No: P151-002	Date: 3/8/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 6"
Sample Method: 4' Acetate Sampler	Depth to Water: N/A
	Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	N/A	1555	N/A	(0-2") F/M light brown sand with SO gravel and SO orange paint chips; dry; no odor. (2-6") F/M dark brown sand with SO gravel and SO small/large black cinders and LI paint chips; dry; no odor.
B	2-4				
C	4-6				
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:  
Leadgrab sample only.

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)            0-10%	F = FINE		A = 0-24 in.            G = 144-168 in.
LITTLE (LI)            10-20%	M = MEDIUM		B = 24-48 in.            H = 168-192 in.
SOME (SO)              20-35%	C = COARSE		C = 48-72 in.            I = 192-216 in.
AND                      35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.            J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.           K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.           L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E96

Date: 3/8/00

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 6"

Depth to Water: N/A

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	N/A	1605	N/A	(0-6") F/M brown sand with SO gravel and SO small/large black cinders and TR orange paint chips; dry; no odor.
B	2-4				
C	4-6				
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:  
Lead grab sample only.

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: E97  
 Date: 3/8/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
 Boring Depth: 6"  
 Depth to Water: N/A  
 Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	N/A	1610	N/A	(0-6") F/M brown sand and gravel with SO small to very large black cinders and TR orange paint chips; dry; no odor.
B	2-4				
C	4-6				
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:  
 Lead grab sample only.

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.
	F/C = FINE TO COARSE		E = 96-120 in..
	M/C = MEDIUM TO COARSE		F = 120-144 in.
			G = 144-168 in.
			H = 168-192 in.
			I = 192-216 in.
			J = 216-240 in.
			K = 240-264 in.
			L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: E98

Date: 3/8/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6"

Depth to Water: N/A

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	N/A	1620	N/A	(0-6") F/M brown/blue stained sand with SO gravel and SO black cinders with TR orange paint chips; dry; no odor.
B	2-4				
C	4-6				
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:  
Lead grab sample only.

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: F01  
Date: 1/4/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.5'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	21/24	0950	2.2	(3-6") F dark brown sand with TR silt; dry; no odor. (6-24") F/M brown/light brown sand with TR gravel; dry; no odor.
B	2-4	40/48		0.0	(32-35") F tan sand; dry; no odor. (35-72") black cinders and small stones with LI brown/black sand; wet at 66-72"; no odor.
C	4-6		1020	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F02

Date: 1/4/00

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 6.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1040	0.0	(0-4") F/M dark brown sand with TR silt and TR gravel; dry; no odor. (4-16") F tan sand with TR gravel; dry; no odor. (16-24") black cinders and cinder ash with TR dark brown sand; dry; no odor.
B	2-4	40/48		0.0	(32-68") black cinders and cinder ash with SO F/M dark brown sand; dry; no odor. (68-72") F/C brown sand with SO gravel; wet; no odor.
C	4-6		1055	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (L) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: F03  
Date: 1/4/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.5'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	20/24	1110	0.0	(0-4") F/M brown sand with TR gravel; dry; no odor. (4-24") F/M black cinders with SO F/M brown sand; dry; no odor.
B	2-4	43/48		0.0	(29-42") F/M black cinders and cinder ash; dry; no odor. (42-46") F/M brown sand with SO gravel; dry; no odor. (46-52") F/M dark brown sand with TR gravel; dry; no odor. (52-66") cinder ash; dry; no odor. (66-72") F/M brown sand with TR cinder ash and TR silt; wet; no odor.
C	4-6		1130	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F04

Date: 1/4/00

Within 100' of Water: No

Instrument: Thermo Environmental Instruments, Inc., Model 580B OVI

Boring Depth: 10.0'

Depth to Water: 7.5'

Logged By: Daryl Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	19/24	1145	0.0	(5-8") F/M brown sand with LI gravel; dry; no odor. (8-24") F/C cinder ash with SO black cinders; dry; no odor.
B	2-4	28/48		0.0	(44-52") black cinder ash; dry; no odor. (52-61") F/M brown sand with SO gravel mixed in; dry; no odor. (61-72") F/M brown sand with TR cinder ash; wet; no odor.
C	4-6			0.0	
D	6-8	43/48		20.2	
E	8-10		1200	110.0	(77-86") black cinder ash with TR gravel; dry; no odor. (86-91") F brown stained sand with SO silt and LI gravel; saturated; no odor. (91-120") F gray stained sand with LI silt and TR gravel; saturated with water; heavy petroleum odor and visible sheen; (116-120") C sand.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE	(+1.0-4.0') PVC Solid Riser (4.0-9.0') PVC Screen One inch sump at 9.0'	A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: F05  
Date: 1/4/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 8.5'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	19/24	1230	0.0	(5-8") brown topsoil. (8-14") F/M brown sand with SO gravel; dry; no odor. (14-24") F/M black cinder ash with black cinders and pieces of elastic material.
B	2-4	32/48		0.0	(40-49") black cinder ash with SO gravel; dry; no odor. (49-56") F/M brown sand with LI gravel and TR black cinder ash; dry; no odor. (56-63") black cinder ash/black cinders; dry; no odor. (63-72") F/M brown sand with SO gravel and TR cinder ash; dry; no odor.
C	4-6			0.0	
D	6-8	28/48	1255	0.0	
E	8-10			0.0	(92-99") black cinder ash; dry; no odor. (99-103") F/M brown sand with SO gravel; damp; no odor. (103-115") F/M brown sand and silt with streaks of black; saturated; no odor. (115-120") F/M brown sand and TR gravel; saturated with water; no odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F06

Date: 1/4/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.1'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1310	0.0	(0-5") F/M dark brown topsoil. (5-15") F brown/dark brown sand; dry; no odor. (15-24") F tan sand; dry; no odor.
B	2-4	35/48		0.0	(37-43") F/M brown sand with SO gravel; SO small cinders; dry; no odor. (43-55") F brown sand with TR silt and TR cinders; damp; no odor. (55-72") F/M brown sand with SO cinder ash and SO gravel; dry; no odor.
C	4-6			0.0	
D	6-8	35/48		0.0	
E	8-10		1330	0.0	(85-96") F/M brown sand with SO cinder ash and TR gravel; damp; no odor. (96-99") F/M gray sand with TR gravel; damp; light odor. (99-110") F/M brown sand with SO gravel; damp; no odor. (110-120") F/C brown sand with TR gravel; saturated with water; no odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F07

Date: 1/5/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	22/24	1130	0.0	(2-6") F dark brown topsoil. (6-11") F/M brown sand with TR gravel; no odor. (11-24") F/M black cinder ash and black cinders; dry; no odor.
B	2-4	21/48		0.0	(41-62") F/M black cinders and cinder ash with SO gravel; dry; no odor. (62-72") F/M brown sand with SO black cinders and LI silt; dry; no odor.
C	4-6			0.0	
D	6-8	28/48		0.0	
E	8-10		1150	2.1	(92-103") F/M black cinder ash and small black cinders with TR F/M brown sand; dry; no odor. (103-108") red brick (weathered). (108-115") black cinder ash and brown/black cinders; F/M sand; damp; light odor. (115-120") F brown sand with TR silt; saturated with water; light odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: F08  
Date: 1/5/00  
Within 100' of Water: No  
Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 9.0'  
Logged By: Daryll Issa

Depth (Intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	18/24	1210	0.0	(6-12") brown topsoil. (12-17") F/M sand with SO gravel; dry; no odor. (17-24") F/M black/red cinder ash/cinders; dry; no odor.
B	2-4	32/48		0.0	(40-59") F/M black cinder ash with large black cinders ; dry; no odor. (59-63") F/M brown sand with LI gravel and SO black cinder ash; dry; no odor. (63-72") black cinder ash with SO small cinders; dry; no odor.
C	4-6			0.0	
D	6-8	23/48		0.0	
E	8-10		1225	0.0	(97-99") F/M black cinder ash; dry; no odor. (99-106") red brick (weathered). (106-120") large black cinders with SO cinder ash; wet at 108"; no odor
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



## TEST BORING LOG



2 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002

Boring No.: F09  
 Date: 1/5/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVM  
 Boring Depth: 14.0'  
 Depth to Water: 8.0'  
 Logged By: Daryll Issa

Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1310	0.0	(0-7") F/M black topsoil; dry; no odor. (7-10") F/M dark brown sand; dry; no odor. (10-19") F/M brown sand with SO gravel; dry; no odor. (19-24") F/M black cinder ash with SO black large cinders; dry; no odor.
B	2-4	31/48	0.0	0.0	(41-72") F/M black cinder ash and M black cinders with pieces of a porous metal/ore near bottom of sample; dry; no odor.
C	4-6			0.0	
D	6-8	41/48	1335	0.0	
E	8-10			0.0	(79-80") F black cinder ash with TR F/M brown sand; dry; no odor. (80-96") F/M brown sand and black cinder ash/cinders; damp; no odor. (96-120") F/M black sparkling cinders/cinder ash; wet; no odor.
	10-12	33/48		0.0	
G	12-14	33/48		0.0	

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F10

Date: 1/5/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVI

Boring Depth: 10.0'

Depth to Water: 9.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1410	0.0	(0-6") F black topsoil; no odor. (6-19") F/M brown sand with TR gravel; dry; no odor. (19-24") F/M black cinder ash; dry; no odor.
B	2-4	32/48		0.0	(40-53") F/M black cinder ash - uniform; dry; no odor. (53-72") F/M brown sand with SO gravel; dry; no odor.
C	4-6	32/48		0.0	
D	6-8	34/48		0.0	
E	8-10		1420	0.0	(86-91") F/M black cinder ash with SO F/M brown sand; dry; no odor. (91-120") F/M brown sand with SO silt and SO gravel; wet; no odor; saturated at 114".
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax: (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F11

Date: 1/6/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.0'

Logged By: Daryll Issa/Jason  
Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0915	0.0	(0-5") F black topsoil. (5-20") F/M brown to light brown sand with TR gravel and LI cinders; dry; no odor. (20-24") F tan sand; dry; no odor.
B	2-4	18/48		0.0	(44-46") F/M black/yellow/brown sand; dry; no odor. (46-72") F/M cinder ash with SO F/M brown sand at 72"; dry; no odor.
C	4-6			0.0	
D	6-8	33/48	0930	0.0	
E	8-10			1.6	(87-89") F black cinder ash. (89-105") F/M brown sand with LI gravel; damp; no odor. (105-120") F/M brown sand with TR silt and TR gravel and TR cinders; saturated with water; no odor.
	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F12

Date: 1/6/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 14.0'

Depth to Water: 9.0'

Logged By: Daryll Issa/Jason  
Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0950	0.0	(0-5") black topsoil. (5-24") F tan sand.
B	2-4	37/48		0.0	(37-39") F tan sand. (39-72") black cinders and cinder ash.
C	4-6			0.0	
D	6-8	25/48		0.0	(105-120") black cinder and cinder ash; LI M sand with large cinders. Wet.
E	8-10		1000	0.0	
F	10-12	36/48			(134-168") C black cinders; LI gravel.
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LJ)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F13

Date: 1/6/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 14.0'

Depth to Water: 10.5

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1015		(0-1") brown topsoil. (1-12") F/C brown/dark brown sand. (12-24") F/M tan sand; TR gravel; TR silt.
B	2-4	36/48			(36-41") F tan sand; SO gravel; TR silt. (41-51") reddish brown/black cinders and ash; TR brick and ceramic fragments. (51-72") black cinders and cinder ash.
C	4-6				
D	6-8	32/48			
E	8-10		1030		(88-94") black cinders and cinder ash. (94-120") black cinders and cinder ash; LI porous cinders; TR F/M sand.
F	10-12	40/48			
G	12-14	40/48			

Comments:

**PROPORTIONS USED**

TRACE (TR) 0-10%  
LITTLE (LI) 10-20%  
SOME (SO) 20-35%  
AND 35-50%

**ABBREVIATIONS**

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

**Well Construction**

**DEPTH INTERVALS**

A = 0-24 in. G = 144-168 in.  
B = 24-48 in. H = 168-192 in.  
C = 48-72 in. I = 192-216 in.  
D = 72-96 in. J = 216-240 in.  
E = 96-120 in. K = 240-264 in.  
F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F14

Date: 1/6/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.5'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1045		(0-6") F/M brown sand; LI silt. (6-24") F/C brown sand; SO cinders and cinder ash; dry.
B	2-4	32/48			(40-72") black cinder and cinder ash; large porous ore at 50"; TR F/C sand; dry.
C	4-6				
D	6-8	36/48	1110		
E	8-10				(84-94") black cinders and cinder ash. (94-96") brown/reddish brown substance; no odor. (96-106") F/C brown/gray/black sand; SO gravel; LI cobble; dry. (106-118") F/C brown sand; LI silt; TR clay; wet at 114-118". (118-120") black cinder.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F15

Date: 1/6/00

Within 100' of Water: No

Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 10.0'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1230		(0-3") black topsoil. (3-9") F brown sand; LI silt. (9-11") F tan sand; LI silt. (11-24") black cinders and cinder ash.
B	2-4	34/48			(38-64") black cinders and cinder ash; LI porous cinders; TR brick fragments. (64-68") F brown sand; LI gravel. (68-72") black cinders; TR gravel.
C	4-6				
D	6-8	40/48	1250		
E	8-10				(80-120") black cinders and cinder ash; TR F/M sand; Wet at 120"..
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F16

Date: 1/6/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 14.0'

Depth to Water: 9.0'

Logged By: Jason Wiggin/Daryll  
Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	22/24	1215		(0-4") dark brown topsoil with organics. (4-22") F/M brown sand; TR silt; TR gravel.
B	2-4	38/48			(34-39") F/C brown sand; SO gravel. (39-72") black cinder and cinder ash; LI porous cinders.
C	4-6	38/48			
D	6-8	33/48	1230		(88-120") black cinders and ash. Wet at 108".
E	8-10				(132-168") black cinders and ash.
F	10-12	36/48			
G	12-14	36/48			

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	(+.75-6.0') PVC Solid Riser (6.0-11.0') PVC Screen	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM	One inch sump at 11.0'	B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.



## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F17

Date: 1/6/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 7.5'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	18/24	1340	0.0	(6-10") black topsoil. (10-24") F/C brown sand; SO gravel; TR silt.
B	2-4	33/48	0.09	0.0	(39-41") F/C brown sand; SO gravel; TR silt. (41-72") C black cinders/cinder ash and porous cinders; LI gravel 68-72".
C	4-6		1355	0.0	
D	6-8	36/48		0.0	(84-113") F black cinders and cinder ash; LI fines (ash or silt); TR brick. (113-120") F black cinders and cinder ash; LI fines; TR gravel. Wet at 90".
E	8-10			0.0	
	10-12				
G	12-14				

Comments:

### PROPORTIONS USED

TRACE (TR) 0-10%  
LITTLE (L) 10-20%  
SOME (SO) 20-35%  
AND 35-50%

### ABBREVIATIONS

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

### Well Construction

### DEPTH INTERVALS

A = 0-24 in. G = 144-168 in.  
B = 24-48 in. H = 168-192 in.  
C = 48-72 in. I = 192-216 in.  
D = 72-96 in. J = 216-240 in.  
E = 96-120 in. K = 240-264 in.  
F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F18

Date: 1/6/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 7.5'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1420	0.0	(0-5") black topsoil. (6-15") F/C brown/brownish orange sand; SO gravel. (15-24") F/M tan sand; LI silt.
B	2-4	36/48	0.0	0.0	(36-38") F/M tan sand; LI silt. (38-72") C black cinders and cinder ash; LI porous cinders.
C	4-6		1435	0.0	
D	6-8	36/48		0.0	
E	8-10			0.0	(84-120") C black cinders/cinder ash; TR porous cinders; moderate petroleum odor below 108). Wet at 90".
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: F19  
 Date: 1/7/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
 Boring Depth: 10.0'  
 Depth to Water: 8.5'  
 Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0910	0.0	(0-3") brown topsoil; organics. (3-13") F brown sand; LI silt. (13-21") F/C brown sand; LI gravel; TR silt. (21-24") F/C black cinders and cinder ash ; TR porous cinders.
B	2-4	37/48		0.0	(37-39") F/C brown sand; LI silt. (39-72") F/C black cinders and cinder ash; LI porous cinders; gravel sized sand.
C	4-6	37/48	0920	0.0	
D	6-8	20/48		0.0	(100-106") F/C black cinders and cinder ash. (106-108") F/C dark brown/black sand; LI silt; TR cinder ash. (108-120") F/C cinders/cinder ash; LI porous cinders. Wet at 102".
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F20

Date: 1/7/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 8.75'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0940	0.0	(0-5") brown topsoil and organics; F/M sand. (5-13") F/M brown/black sand. (13-24") F/M tan sand; TR silt; TR gravel.
B	2-4	36/48		0.0	(36-72") F/C black cinders/cinder ash; LI porous cinders.
C	4-6		0950		
D	6-8	27/48			
E	8-10				(93-98") F/C black cinders/cinder ash; TR porous cinders. (98-100") F/M brown sand and F/M cinders/cinder ash. (100-120") F/C black cinder ash; SO M/C gravel/porous cinders. Wet at 92".
F	10-12				
G	12-14				

Comments:

**PROPORTIONS USED**

TRACE (TR) 0-10%  
LITTLE (LI) 10-20%  
SOME (SO) 20-35%  
AND 35-50%

**ABBREVIATIONS**

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

**Well Construction**

**DEPTH INTERVALS**

A = 0-24 in. G = 144-168 in.  
B = 24-48 in. H = 168-192 in.  
C = 48-72 in. I = 192-216 in.  
D = 72-96 in. J = 216-240 in.  
E = 96-120 in. K = 240-264 in.  
F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F21

Date: 1/7/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.0'

Logged By: Jason Wiggin

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1015	0.0	(0-4") topsoil; F/M brown sandy silt. (4-8") F/M brown sandy soil. (8-12") F/M black sandy soil; F organics; iron staining at 12". (12-24") light tan silty sand with TR C black sand; moist.
B	2-4	36/48			(36-38") light tan silty sand with TR C sand; moist. (38-41") F brown sand; LI silt; iron oxidation. (41-62") F/C black cinders/cinder ash; TR porous cinders; TR F/M sand. (62-72") gravel sized orange/brown porous cinders; SO M/C cinders/ash.  (88-118") M/C black cinders; LI porous cinders; moist. (118-120") F/C cinder/ash and gummy petroleum odor; wood chips with slight odor and heavy black staining at 113-115".
C	4-6		1025	0.0	
D	6-8	32/48			
E	8-10			0.0	
	10-12				
G	12-14				

Comments:  
No PID - PID is malfunctioning.

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F22

Date: 1/7/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 10.0'

Logged By: Jason Wiggin/Nicole  
Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1045	0.0	(0-12") F brown sand; LI silt; organics; iron oxidation; moist. (12-13") gray silt and F sand. (13-15") gray gravel. (15-24") F/M brown sand; LI silt; TR gravel.
B	2-4	38/48		0.0	(34-39") F/M dark brown sand; LI silt. (39-55") tan to gray/dark gray silty sand; TR C sand (quartz); no odor. (55-72") F/C black cinders/cinder ash; TR porous cinders; red porous cinders at 68-70".
C	4-6			0.0	
D	6-8	36/48		0.0	(84-90") F/C black cinders/cinder ash; LI red porous cinders. (90-92") F/C brown/dark gray sand; SO silt. (92-120") F/C black cinders/cinder ash; SO orange/red/light brown porous cinders. Wet at 120".
E	8-10		1055		
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F23

Date: 1/7/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 8.0'

Logged By: Jason Wiggin/Nicole  
Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1120	0.0	(0-4") topsoil; F/M brown sand with organics. (4-8") F/M brown sand. (8-9") dark brown wood chip band with SO M coal fragments; saturated; odor. (9-24") F/M light gray to gray silty sand; iron staining at 12-14"; M/large purple gravel chips at 20-21"; M/large rounded gray gravel at 20-24".
B	2-4	36/48		0.0	(36-40") F/M silty gray sand; dense. (40-48") F/M light tan loose sand. (48-58") F/M light brown sand; dense; M/large rounded gray gravel. (58-68") M/large cinder ash with M porous cinders and large pieces of coal. (68-72") dense silty brown/black sand; petroleum odor.
C	4-6		1130		
D	6-8	48/48		0.0	
E	8-10				(72-76") M/large cinder ash with M pieces of porous cinders and large pieces of coal. (76-96") F/M gray to brown silty sand; dense at 80-90". (96-120") F silty gray sand; dense; saturation at 96".
	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F24

Date: 1/7/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.5'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1200	0.0	(0-6") topsoil; F/M brown sand with organics at 0-2". (6-8") dense F/M brown sand with SO coal bits. (8-12") M orange sand with SO M rounded stone. (12-13") gray stone; schist. (13-24") F/M brown sand with SO M black stone; sand throughout; yellow quartz stone at 22".
B	2-4	36/48		0.0	(36-44") M brown/orange silty sand with bits of gray gravel. (44-45") M brown/orange silty sand with bits of gray gravel and stone chips. (45-46") rounded red stone. (46-72") M/C black cinder ash with bits of coal and M/large porous cinders.
C	4-6			0.0	
D	6-8	48/48		0.0	
E	8-10		1210		(72-120") M/C black cinder ash; bits of coal; M/large bits of porous cinders; saturation at 118"; SO brown sand at 118".
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



## TEST BORING LOG



2 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: F25  
 Date:  
 Within 100' of Water: No  
 Instrument: Thermo Environmental  
 Instruments, Inc., Model 580B OVM  
 Boring Depth: 11.0'  
 Depth to Water: 10.5'  
 Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1230	0.0	(0-12") large gray and white gravel mixed with SO M light brown sand. (12-20") M light brown sand with SO large gravel. (23-24") M black stained sand with M granular cinder ash; no odor.
B	2-4	36/48		0.0	(36-40") M black stained sand with M granular cinder ash; no odor. (40-48") F/M brown sand with M/large gray rounded gravel and bits of white quartz. (48-70") F light brown silty sand; soft; SO M gray gravel. (70-72") dense F/M silty brown sand.
C	4-6				
D	6-8	28/48		0.0	
E	8-10		1240		(92-100") F/M light brown sand; soft; large bits of rounded gravel throughout. (100-120") F/M gray sand; soft; SO M rounded gravel and M black sand throughout; moist at 100".
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F26

Date: 2/2/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1145	0.0	(0-5") F/M dark brown topsoil. (5-17") F/M brown sand and gravel; dry; no odor. (17-20") F/M red sand and gravel; dry; no odor. (17-20") F/M red sand with LI gravel; dry; no odor. (20-24") black cinder ash with SO small black cinders; dry; no odor.
B	2-4	38/48		0.0	(34-42") F brown sand and black cinders and cinder ash; dry; no odor. (42-72") F brown sand with TR gravel; dry; no odor.
C	4-6			0.0	
D	6-8	29/48		0.0	(91-110") F brown sand with SO silt, SO gravel, and SO black cinder ash; dry; no odor. (110-120") F brown sand and silt; wet; no odor.
E	8-10		1200	0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: F27  
 Date: 2/2/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
 Boring Depth: 10.0'  
 Depth to Water: 9.0'  
 Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0950	0.0	(0-2") topsoil. (2-14") F/M brown sand and gravel; dry; no odor. (14-19") black cinders/cinder ash/porous cinders ; dry; no odor. (19-24") F/M brown sand with LI gravel; dry; no odor.
B	2-4	40/48		0.0	(32-72") F brown sand with TR gravel and TR F black sand; dry; no odor; uniform.
C	4-6			0.0	
D	6-8	33/48		0.0	
E	8-10		1015		(85-108") F brown sand with TR black F sand and TR gravel; dry; no odor. (108-120") F brown sand with TR silt saturated with water; no odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F28

Date: 2/2/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1030	0.0	(0-9") F/M dark brown/brown sand with SO gravel; dry; no odor. (9-18") F/M brown sand with LI gravel; dry; no odor. (18-24") F light brown sand; no gravel; dry; no odor.
B	2-4	35/48		0.0	(37-52") F light brown sand; dry; no odor. (52-67") F/M black/dark brown sand with black cinders and shiny M/large black bits of coal; dry; no odor. (67-72") pulverized stone.
C	4-6			0.0	
D	6-8	23/48		0.0	
E	8-10		1040		(97-108") F brown sand with SO gravel; damp; no odor. (108-120") F brown sand and silt; saturated with water; no odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: F29  
 Date: 1/10/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
 Boring Depth: 10.0'  
 Depth to Water: 9.0'  
 Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1005	0.0	(0-7") F/M dark brown topsoil; dry; no odor. (7-10") F/M light brown sand with LI gravel; dry; no odor. (10-15") F/C brown sand; damp; no odor. (15-24") F brown sand with TR gravel; dry; no odor.
B	2-4	42/48		0.0	(30-36") F/M brown sand with SO gravel; dry; no odor. (36-72") F/M brown sand with TR gravel; dry; no odor.
C	4-6			0.0	
D	6-8	46/48		0.0	
E	8-10		1015	0.0	(74-92") F/M light brown/brown sand with SO gravel; damp; no odor. (92-120") F/M brown/red sand with SO gravel; no odor. Wet at 108".
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE	(+.3-7.0") PVC Solid Riser (7.0-12.0') PVC Screen One inch sump at 12.0'	A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F30

Date: 1/10/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 8.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1325	0.0	(0-6") topsoil; M brown sand; grass and organics at 0-1. (6-7") stone. (7-24") F loose silty light tan sand.
B	2-4	48/48		0.0	(24-36") F dense brown sandy silt. (36-72") F/M light tan and brown sand; iron staining at 36-38".
C	4-6				
D	6-8	48/48	1325	0.0	
E	8-10				(72-80") F/M light tan and brown sand. (80-120") dense brown sandy silt; saturation at 96".
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F31

Date: 1/10/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 14.0'

Depth to Water: 8.3'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0815	0.0	(0-6") F/M brown topsoil; dry; no odor. (6-12") F/M brown/dark brown sand; dry; no odor. (12-24") F/M brown sand with TR silt and TR gravel.
B	2-4	35/48		0.0	(37-45") F/M black cinder ash; dry; no odor. (45-51") F brown/dark brown sand; dry; no odor. (51-61") F/M red/brown sand with LI gravel; dry; no odor. (61-72") F/M brown sand with LI gravel; damp; no odor.
C	4-6		0930	0.0	
D	6-8	31/48		0.0	(99-102") F/M brown sand with TR cinder ash; wet; no odor. (102-104") F/M black cinder ash with TR F/M brown sand. (104-120") F/C brown sand and SO gravel; wet; no odor.
E	8-10			0.0	
	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F32

Date: 2/2/00

Within 100' of Water: N

Instrument: Thermo Environ.  
Instruments, Inc., Model 580B

Boring Depth: 10.0'

Depth to Water: 9.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	22/24	1100	0.0	(2-6") dark brown/brown topsoil; (6-15") F/M brown sand and gravel; dry; no odor. (15-24") F/M black cinder ash; dry; no odor.
B	2-4	38/48		0.0	(34-35") F/M black cinder ash (loose ). (38-72") F brown sand with TR silt and LI gravel; dry; no odor.
C	4-6			0.0	
D	6-8	30/48		0.0	
E	8-10		1120	0.0	(90-120") F brown sand with TR gravel; F/C black sand at 99-102"; wet at 114"; no odor.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



# TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F33

Date: 1/7/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 8.5'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1300	0.0	(0-5") topsoil; M brown sand; grass and organics at 0-1". (5-9") F/M dense brown sand. (9-19") F light tan silty sand; soft. (19-24") black stained soil with M/large bits of cinder ash and porous cinders.
B	2-4	36/48		0.0	(36-38") F light tan soils; soft; mixed with SO black stained soil. (38-66") M/C granular cinder ash with M/C porous cinders with coal bits. (66-72") brick; red stained cinder ash and porous cinders.
C	4-6		1310		
D	6-8	32/48		0.0	(88-96") black and brick; red stained M/large granular cinder ash with M/large porous cinders. (96-120") M/large granular black cinder ash and porous cinders; saturation at 100%.
E	8-10				
F	10-12				
G	12-14				

Comments:

**PROPORTIONS USED**

TRACE (TR) 0-10%  
LITTLE (L) 10-20%  
SOME (SO) 20-35%  
AND 35-50%

**ABBREVIATIONS**

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

**Well Construction**

**DEPTH INTERVALS**

A = 0-24 in. G = 144-168 in.  
B = 24-48 in. H = 168-192 in.  
C = 48-72 in. I = 192-216 in.  
D = 72-96 in. J = 216-240 in.  
E = 96-120 in. K = 240-264 in.  
F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI

ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F34

Date: 1/11/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: not determined

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1300	0.0	(0-2") grass and roots. (2-8") M/F dark brown sand with black staining; no odor; heavy root content. (8-24") F/M silty tan/light brown loose sand; black stone (jagged) at 20"; moist.
B	2-4	48/48		0.0	(24-40") F to silty light brown sand; dark staining at 28". (40-48") M/C light tan sand. (48-72") F/M light brown dense silty sand; iron staining at 66".
C	4-6		1316		
D	6-8	48/48		0.0	
E	8-10				(72-120") F/M light brown silty sand; heavy iron staining at (96-108").
F	10-12				
G	12-14				

Comments:

### PROPORTIONS USED

TRACE (TR) 0-10%  
LITTLE (LI) 10-20%  
SOME (SO) 20-35%  
AND 35-50%

### ABBREVIATIONS

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

### Well Construction

### DEPTH INTERVALS

A = 0-24 in. G = 144-168 in.  
B = 24-48 in. H = 168-192 in.  
C = 48-72 in. I = 192-216 in.  
D = 72-96 in. J = 216-240 in.  
E = 96-120 in. K = 240-264 in.  
F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F35

Date: 1/11/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 7.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1400	0.0	(0-4") concrete (asphalt cut prior to drilling). (4-20")F/M brown sand mixed with M/C gravel. (20-24") C cinder ash with M cinders.
B	2-4	48/48		0.0	(24-26") cinder ash. (26-28") F/C brown sand. (28-44") M gray sand mixed with small/M gravel and M cinder ash and porous cinders. (44-72") M/C black cinder ash.
C	4-6		1410		
D	6-8	36/48		9.0	(84-88") M/C gray sand with large bits of porous cinders. (88-116") C black cinder ash and porous cinders. (116-120") dense black sand with F stained sand; saturation at 88".
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F36

Date: 1/12/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 3.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1510	0.0	(0-2") grass and roots. (2-8") M dark brown silty sand. (8-9") SO cinders and porous cinders. (9-24") F silty light tan sand; wet.
B	2-4	36/48		0.0	(36-40") F silty light tan sand; wet. (40-56") C black cinder ash mixed with bits of M/large porous cinders. (56-60") dense brown/black silty sand; saturated; no odor. (60-72") very F loose black cinder ash with SO fibrous material at 60"; moist.
C	4-6		1520		
D	6-8	36/48		0.0	
E	8-10				(86-120") very C cinder ash mixed with porous cinders; saturated at 108".
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



Site: Providence Gas Company 642 Allens Avenue, Providence, RI ESS Job No: P151-002	Boring No.: F37 Date: 1/12/00 Within 100' of Water: No
Driller.: Environmental Drilling, Inc.	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Well Diameter: N/A	Boring Depth: 6.0'
Drilling Method: Geoprobe	Depth to Water: not determined
Sample Method: 4' Acetate Sampler	Logged By: Nicole Murry

2 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	0825	0.0	(0-2") grass and roots. (2-24") M/F dark brown sand; SO silt mixed with M/large rounded gravel; SO small bits of shale and cinder ash/porous cinders at (18-24") cinder stone at 6".
B	2-4	18/48		0.0	(54-72") M brown sand with M/large gravel; cinder ash strata at 68-72"; TR M cinder ash throughout.
C	4-6		0835		
D	6-8	0/48		0.0	
E	8-10			0.0	no recovery - stone in sleeve with SO saturated dirt.
	10-12				
G	12-14				

Comments:  
 No recovery from (6-10') - stone in sleeve with SO saturated dirt. Depth to water could not be determined.

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (L) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F38

Date: 1/12/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 9.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1405	0.0	(0-8") M brown sand with roots; soft; grass at 0-1". (8-10") M/large light white gravel. (10-20") F loose light brown silty sand with specs of black sand throughout. (20-24") F black cinder ash with M bits of coal throughout.
B	2-4	30/48		1.0	(42-48") F black cinder ash with M bits of coal throughout. (48-52") large solid pieces of coal. (52-56") F black cinder ash. (56-58") M/C orange ash with SO M brown sand. (58-72") F/M black cinder ash.
C	4-6		1420		
D	6-8	12/48		0.0	
E	8-10				(108-120") large gravel with C cinders and porous cinders with miscellaneous materials including black stained paper, saturated; loose.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



1/2 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002  
 Driller.: Environmental Drilling, Inc.  
 Well Diameter: N/A  
 Drilling Method: Geoprobe  
 Sample Method: 4' Acetate Sampler

Boring No.: F39  
 Date: 1/12/00  
 Within 100' of Water: No  
 Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
 Boring Depth: 10.0'  
 Depth to Water: 9.0'  
 Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	18/24	0905		(6-24") M brown sand with small/M rounded gravel; M cinder ash stone at 8-12"; large stone at 20" and cinder ash throughout 20-24".
B	2-4	24/48		0.0	(48-66") M brown sand with M/large rounded gravel; F small bits of black/gray shale throughout strata. (66-72") dense silty brown sand with M brown sand and rounded gravel; moist.
C	4-6		0935		
D	6-8	36/48		86.0	(84-96") M brown sand with large cinder ash stone with small/M round gravel. (96-110") large brown sand with M/large rounded gravel; wet. (110-120") M petroleum stained sand mixed with M/large gravel and cinders; loose; saturation at 110"; heavy odor.
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F40

Date: 1/12/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 5.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1020	0.0	(0-2") grass and roots. (2-10") M brown sand with organic roots. (10-24") M brown/orange sand; soft; M rounded gravel.
B	2-4	48/48	1025	0.0	(24-72") F light brown silty sand; saturated at 60"; M rounded gravel throughout.
C	4-6				
D	6-8	48/48		125	
E	8-10				(72-75") F light brown silty sand; saturated at 60"; M rounded gravel throughout. (75-96") M/large brown sand; saturated; iron stained soil at 76-96". (96-118") petroleum stained black wood fiber; heavy petrolcum odor; dense and wet. (118-120") F light brown soil saturated.
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: F41  
Date: 1/12/00  
Within 100' of Water: No  
Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 9.0'  
Logged By: Nicole Murry

Depth (Intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1105	0.0	(0-10") M brown sand mixed with M/large rounded stones; grass at 0-1". (10-15") M cinder ash mixed with M brown sand. (15-20") brick. (20-24") black cinder ash with large bits of coal and cinder ash stone.
B	2-4	36/48			(36-66") M/large cinder ash mixed with M/large bits of coal; brick at 36-38"; gravel at 60". (66-72") F black cinder ash.
C	4-6		1125	0.0	
D	6-8	24/48		28	(96-100") F black cinder ash. (100-104") petroleum saturated wood fibers. (104-120") F black cinder ash with SO M gravel throughout; wet at 104"; heavy petroleum odor.
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (L)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F42

Date: 1/12/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 7.5'


Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1200	0.0	(0-6") M brown sand; grass and roots at 0-1". (6-14") M brown sand mixed with F/C black cinder ash. (14-24") F black loose cinder ash.
B	2-4	36/48			(36-40") F black loose cinder ash. (40-44") C solid light red ash. (44-48") C solid light purple ash. (48-52") M black cinders with F brick bits. (52-54") C solid light purple ash. (54-72") F loose black cinder ash with SO coal and cinder ash stone throughout.
C	4-6	36/48	1220	0.0	
D	6-8	30/48		1.0	
E	8-10				(90-116") F/M black wet cinder ash with bits of gravel, cinder stone, and ash throughout. (116-118") petroleum saturated cinder ash; petroleum odor. (118-120") M/C light yellow porous cinders; wood fibers at 114-116".
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG

 72 West Exchange Street, Suite 101  Providence, Rhode Island 02903 (401) 421-0398 Fax (401) 421-5731	Site: Providence Gas Company 642 Allens Avenue, Providence, RI		Boring No.: F43
	ESS Job No: P151-002		Date: 1/12/00
	Driller.: Environmental Drilling, Inc.		Within 100' of Water: No
	Well Diameter: N/A		Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
	Drilling Method: Geoprobe		Boring Depth: 10.0'
	Sample Method: 4' Acetate Sampler		Depth to Water: 8.0'
			Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1250	0.0	(0-4") M brown sand with roots, grass, and topsoil. (4-8") F gray silty sand. (8-12") F black cinder ash with M/large bits of coal. (12-24") F black cinder ash with small bits of coal.
B	2-4	36/48			(36-48") F black cinder ash with small bits of coal. (48-60") M/C cinder ash with bits of stone (gravel), brick, and orange porous cinders at 48-50". (60-62") brick. (62-64") F/M light orange ash. (64-66") F/M light yellow ash. (66-72") M/C light yellow and tan ash mixed with F/M brown sand; moist at 70".
C	4-6		1300	0.0	
D	6-8	24/48		0.0	(72-96") no recovery, (96-100") large porous cinders; saturated. (100-116") F/M black cinder ash; saturated. (116-120") large gravel and stone with F/M brown sand.
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)            0-10%	F = FINE		A = 0-24 in.            G = 144-168 in.
LITTLE (LI)           10-20%	M = MEDIUM		B = 24-48 in.           H = 168-192 in.
SOME (SO)            20-35%	C = COARSE		C = 48-72 in.           I = 192-216 in.
AND                    35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.           J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in..        K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in.        L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F44

Date: 1/12/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 8.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1324	0.0	(0-10") very F loose light tan sand with roots. (10-24") very F black cinder ash mixed with M brown sand and SO coal bits and SO gravel; large gravel at 22-24".
B	2-4	24/48		0.0	(48-52") large bits of coal mixed with F brown sand. (52-56") large gravel with M light brown sand and coal bits. (56-66") C black cinder ash and C large bits of gray porous cinders. (66-68") M light red cinder; solid. (68-72") M brown sand with SO M rounded gravel; moist.
C	4-6		1340		
D	6-8	48/48		108	(72-84") C black cinders with M/large rounded gravel and M brown sand. (84-96") F light brown silty sand; saturated; petroleum odor. (96-110") F black stained silty sand with C cinder ash and coal; heavy petroleum odor. (110-120") F light brown silty sand; saturated; petroleum odor.
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (L) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F45

Date: 1/13/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 6.5'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	22/24	1210	0.0	(2-12") F/M brown sand with TR gravel; dry; no odor. (12-16") F/M brown sand with SO black sand; dry; no odor. (16-24") F/M brown sand with TR gravel; dry; no odor.
B	2-4	42/48		0.0	(30-61") M/C brown sand with SO gravel; dry; no odor. (61-72") F/M black stained sand; wet at 78"; saturated with heavy petroleum odor.
C	4-6		1230	144	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (L) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F46

Date: 1/12/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 4.5'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1445	0.0	(0-6") M brown sand with roots. (6-12") F/M brown silty sand; dense; with small/M rounded gravel. (12-24") F/C black cinder ash mixed with SO brown sand; C coal bits at 18-20"; coal throughout 20-24".
B	2-4	42/48		0.0	(28-40") M brown and black sand with small gravel bits. (40-48") F dense brown/black cinder ash with C cinder ash and porous cinders at 42-44"; SO brown sand throughout. (48-52") M light orange cinder ash and porous cinders with M orange sand and wood fibers. (52-66") F black cinder ash with M/C porous cinders and M/large gravel bits; saturated at 52". (66-72") C black cinder ash.
C	4-6		1510		
D	6-8			0.0	(72-120") saturated black M/large cinder ash mixed with F/M black sand; porous cinders throughout; petroleum odor.
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (L) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in.. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: F47  
Date: 1/13/00  
Within 100' of Water: No  
Instrument: Thermo Environment  
Instruments, Inc., Model 580B O  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1315	0.0	(0-4") asphalt and gravel. (4-19") F/M brown sand and large gravel; dry; no odor. (19-24") F black s dry; sweet odor.
B	2-4	45/48		21.2	(27-31") F/M brown sand with TR gravel; dry; no odor. (31-57") F/M black stained sand and gravel; c light odor. (57-72") F/M black stained sand; wet; heavy odor; black shiny coal pieces with dull cinder interval.
C	4-6		1330	50.1	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: F48  
Date: 1/13/00  
Within 100' of Water: No  
Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1350	3.1	(0-7") F/M brown sand with LI gravel; dry; no odor. (7-24") F/M black stained sand with SO black cinders; dry; light odor.
B	2-4	45/48		4.0	(27-39") F/M dark brown sand with LI cinder ash; dry; no odor. (39-49") F/M orange stained sand with TR cinder ash; dry; no odor. (49-72") F/M black stained sand with LI silt at 60"; shiny/dull black cinders throughout entire 4' interval; wet at 60"; heavy odor.
C	4-6		1410	8.3	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: F49  
Date: 1/13/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 10.0'  
Depth to Water: 7.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1425	1.0	(0-7") F/M brown sand with LI gravel; dry; no odor. (7-22") F/M brown sand with SO shiny cinders; dry; light odor. (22-24") F tan sand; dry; no odor.
B	2-4	48/48		0.0	(24-32") F/M brown sand with TR gravel; dry; no odor. (32-72") F/M black cinder ash; dry; no odor.
C	4-6		1440	0.0	
D	6-8	47/48		0.0	(73-120) F/M black cinder ash with pieces of cinders; heavy odor. Wet at 84".
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

## TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F50

Date: 1/13/00

Within 100' of Water: No

Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVR

Boring Depth: 10.0'

Depth to Water: 9.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1510	0.0	(0-7") F/M brown sand with LI wood chips; dry; no odor. (7-24") F/M black sand with SO wood chips and SO dull cinders; dry; no odor.
B	2-4	43/48		0.0	(29-44") F/M brown/dark brown sand with LI gravel; dry; no odor. (44-52") F/M brown sand and gravel; dry; no odor. (52-72") F black cinder ash; dry; no odor.
C	4-6			0.0	
D	6-8	43/48	1530	0.0	
E	8-10				(77-99") F/M black stained sand; damp; no odor. (99-108") brick; (108-120") F/M black sand with SO shiny black cinders; wet; odor present.
F	10-12				
G	12-14				

Comments:

**PROPORTIONS USED**

TRACE (TR)            0-10%  
LITTLE (L)            10-20%  
SOME (SO)            20-35%  
AND                    35-50%

**ABBREVIATIONS**

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

**Well Construction**

(+1.0-6.0') PVC Solid Riser (6.0-11.0') PVC Screen    One inch sump at 11.0'

**DEPTH INTERVALS**

A = 0-24 in.            G = 144-168 in.  
B = 24-48 in.            H = 168-192 in.  
C = 48-72 in.            I = 192-216 in.  
D = 72-96 in.            J = 216-240 in.  
E = 96-120 in.            K = 240-264 in.  
F = 120-144 in.            L = 264-288 in.

## TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company 642 Allens Avenue, Providence, RI	Boring No.: F51
ESS Job No: P151-002	Date: 1/11/00
Driller.: Environmental Drilling, Inc.	Within 100' of Water: No
Well Diameter: N/A	Instrument: Thermo Environmental Instruments, Inc., Model 580B OVM
Drilling Method: Geoprobe	Boring Depth: 10.0'
Sample Method: 4' Acetate Sampler	Depth to Water: 9.0'
	Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1425	0.0	(0-1") grass and roots. (1-24") F/M dark brown sand; roots throughout; SO shells; brick at 12-18"; cinder ash and porous cinders with soil staining at 18-24".
B	2-4	48/48		0.0	(24-30") F/M brown sand, cinder ash, and coal/porous cinders. (30-34") C light tan sand with large gravel. (34-72") F silty black stained soil; dense; slight odor.
C	4-6			0.0	
D	6-8	40/48	1450		(80-82") C light tan sand with large gravel. (82-86") M light brown silty sand; dense. (86-96") large bits of coal mixed with M brown/black sand. (96-116") C black stained soil with cinder ash. (116-120") M/C light brown (brown at 116") sand; saturation at 96".
E	8-10			12	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR)	0-10%	F = FINE	A = 0-24 in.      G = 144-168 in.
LITTLE (LJ)	10-20%	M = MEDIUM	B = 24-48 in.      H = 168-192 in.
SOME (SO)	20-35%	C = COARSE	C = 48-72 in.      I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM	D = 72-96 in.      J = 216-240 in.
		F/C = FINE TO COARSE	E = 96-120 in..      K = 240-264 in.
		M/C = MEDIUM TO COARSE	F = 120-144 in.      L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: F52  
Date: 1/19/00  
Within 100' of Water: No  
Instrument: Thermo Environment.  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 4.0'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1000	0.0	(0-8") light gray sand with small/large rounded gravel; coal throughout. (8-24") M/C cinder ash and porous cinders mixed with M black sand.
B	2-4	48/48	1030	0.0	(24-36") F/M black silty sand with F cinder ash. (60-72") M/C porous cinders with SO black cinder ash; saturation at 48".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F53

Date: 1/19/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.5'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1045	2.0	(0-20") F/M gray sand with M gravel; SO coal bits at 16-20". (20-24") gray and black sand with C cinder ash and porous cinders.
B	2-4	36/48	1100	0.0	(36-40") gray and black sand with C cinder ash and porous cinders. (40-72") C black cinder ash with C porous cinders and coal bits; saturation at 52".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
 (401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
 642 Allens Avenue, Providence, RI  
 ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F54

Date: 1/21/00

Within 100' of Water: No

Instrument: Thermo Environment  
 Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: not determined

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1020	0.0	(0-7") gravel/concrete. (7-24") F/M brown/dark brown sand and gravel with LI black cinders (small); dry; no odor.
B	2-4	43/48		0.0	(29-38") F/M black/brown/dark brown sand with SO gravel and SO M/large black cinders with SO cinder ash; dry; no odor. (38-68") F/M orange/brown/black stained sand with SO shiny/dull black cinders and LI cinder ash; dense; dry; no odor. (60-72") F black cinder ash and F black sand with SO orange staining; damp; no odor.
C	4-6		1040	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LJ) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F55

Date: 1/19/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 6.0'

Depth to Water: 4.0'

Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1515	0.0	(0-2") asphalt and concrete bits. (2-10") F light brown sand mixed with large rounded stones. (10-24") F black cinder ash with M/large bits of coal, porous cinders, and SO large stones at (20-21").
B	2-4	36/48	1530	0.0	(36-40") F/M gray loose sand. (40-48") black cinder ash mixed with bits of coal and porous cinders with cinder ash stone. (48-72") F/M loose light brown sand; iron staining at 48-49"; saturated at 48".
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (LI)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in.	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: F56  
Date: 1/19/00  
Within 100' of Water: No  
Instrument: Thermo Environment  
Instruments, Inc., Model 580B OVI  
Boring Depth: 6.0'  
Depth to Water: 5.5'  
Logged By: Nicole Murry

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1435	0.0	(0-2") asphalt and concrete bits. (2-14") F loose light tan sand with SO rounded stone. (14-16") dense cinder ash with coal. (16-18") C red/orange porous cinders. (18-24") loose black cinder ash; SO orange clay at 23".
B	2-4	36/48		0.0	(36-39") F loose gray sand. (37-40") C orange sand; loose. (40-44") large bits of coal with M brick red and orange sand. (44-60") brick red sand with large coal bits. (60-72") C black cinder ash with porous cinders and large bits of coal; wet at 68"; saturation at 66". Sheen observed.
C	4-6		1455	0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED	ABBREVIATIONS	Well Construction	DEPTH INTERVALS
TRACE (TR) 0-10%	F = FINE		A = 0-24 in. G = 144-168 in.
LITTLE (LI) 10-20%	M = MEDIUM		B = 24-48 in. H = 168-192 in.
SOME (SO) 20-35%	C = COARSE		C = 48-72 in. I = 192-216 in.
AND 35-50%	F/M = FINE TO MEDIUM		D = 72-96 in. J = 216-240 in.
	F/C = FINE TO COARSE		E = 96-120 in. K = 240-264 in.
	M/C = MEDIUM TO COARSE		F = 120-144 in. L = 264-288 in.



## TEST BORING LOG



West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002  
Driller.: Environmental Drilling, Inc.  
Well Diameter: N/A  
Drilling Method: Geoprobe  
Sample Method: 4' Acetate Sampler

Boring No.: F57  
Date: 1/19/00  
Within 100' of Water: No  
Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM  
Boring Depth: 6.0'  
Depth to Water: 5.0'  
Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1430	0.0	(0-12") F/M brown sand and concrete with SO gravel; dry; no odor. (12-17") F/M black cinder ash/cinders with SO gravel; dry; no odor. (17-24") F brown sand with TR gravel; dry; no odor.
B	2-4	41/48	1445	0.0	(31-59") F/M brown sand with SO gravel; dry; no odor. (59-72") F/M brown sand with LI gravel and LI silt; saturated with water; light odor.
C	4-6			0.0	
D	6-8				
E	8-10				
F	10-12				
G	12-14				

Comments:

**PROPORTIONS USED**

TRACE (TR) 0-10%  
LITTLE (LI) 10-20%  
SOME (SO) 20-35%  
AND 35-50%

**ABBREVIATIONS**

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

**Well Construction**

**DEPTH INTERVALS**

A = 0-24 in. G = 144-168 in.  
B = 24-48 in. H = 168-192 in.  
C = 48-72 in. I = 192-216 in.  
D = 72-96 in. J = 216-240 in.  
E = 96-120 in. K = 240-264 in.  
F = 120-144 in. L = 264-288 in.

# TEST BORING LOG



272 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F58

Date: 3/7/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 10.0'

Depth to Water: 5.8'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1200	0.0	(0-2") brown/light brown topsoil; damp; no odor. (2-24") F light brown/tan sand; damp; no odor.
B	2-4	48/48		0.0	(24-27") F/C light brown sand with TR gravel; damp; no odor. (28-36") F/M dark brown sand with TR gravel; damp; no odor. (36-51") F/M brown sand with LI gravel and SO black cinder and SO bits of coal; with LI F cinder ash; damp; no odor. (51-56") F brown/dark brown silt with TR F sand; wet; no odor. (56-68") F dark brown sand with SO small/M black cinders and SO gravel; saturated at 68"; no odor. (68-72") F brown/dark brown sand with TR gravel; saturated with water; no odor.
C	4-6		1215	0.0	
D	6-8	42/48		0.0	(126-168) F/C brown sand and silt with SO gravel and TR black cinders near 126"; saturated with water; no odor.
E	8-10			0.0	
F	10-12				
G	12-14				

Comments:

PROPORTIONS USED		ABBREVIATIONS	Well Construction	DEPTH INTERVALS	
TRACE (TR)	0-10%	F = FINE		A = 0-24 in.	G = 144-168 in.
LITTLE (L)	10-20%	M = MEDIUM		B = 24-48 in.	H = 168-192 in.
SOME (SO)	20-35%	C = COARSE		C = 48-72 in.	I = 192-216 in.
AND	35-50%	F/M = FINE TO MEDIUM		D = 72-96 in.	J = 216-240 in.
		F/C = FINE TO COARSE		E = 96-120 in..	K = 240-264 in.
		M/C = MEDIUM TO COARSE		F = 120-144 in.	L = 264-288 in.

# TEST BORING LOG



2 West Exchange Street, Suite 101

Providence, Rhode Island 02903  
(401) 421-0398 Fax (401) 421-5731

Site: Providence Gas Company  
642 Allens Avenue, Providence, RI  
ESS Job No: P151-002

Driller.: Environmental Drilling, Inc.

Well Diameter: N/A

Drilling Method: Geoprobe

Sample Method: 4' Acetate Sampler

Boring No.: F59

Date: 3/7/00

Within 100' of Water: No

Instrument: Thermo Environmental  
Instruments, Inc., Model 580B OVM

Boring Depth: 14.0'

Depth to Water: 9.0'

Logged By: Daryll Issa

Depth (intervals)	Sample Depth (feet)	Recovery/ Penetration (in.)	Sample Time	PID (ppm)	Materials Description (size, grade, color, moisture)
A	0-2	24/24	1220	0.0	(0-18") F brown/dark brown sand with SO silt and LI large black cinders and TR gravel; dry; no odor. (18-24") F light brown sand with TR gravel and TR black cinders; dry; no odor.
B	2-4	40/48		0.0	(32-39") F brown/dark brown silt with TR sand and TR gravel; dry; no odor. (39-43") F light brown sand with TR gravel; dry; no odor. (43-54") F/M brown/dark brown sand with SO cinder ash and SO gravel; dry; no odor. (54-72") dense black cinder ash with SO small/M multi-colored cinders and SO small/M black cinders and SO gravel; dry; no odor.
C	4-6		1230	0.0	
D	6-8	34/48		0.0	(86-120") dense black cinder ash with SO small black cinders and small multi-colored cinders; wet at 108"; no odor.
E	8-10			0.0	
F	10-12	40/48			(128-168") dense black cinder ash with SO small black cinders and small multicolored cinders; saturated with water; no odor.
G	12-14	40/48			

Comments:

**PROPORTIONS USED**

TRACE (TR) 0-10%  
LITTLE (LI) 10-20%  
SOME (SO) 20-35%  
AND 35-50%

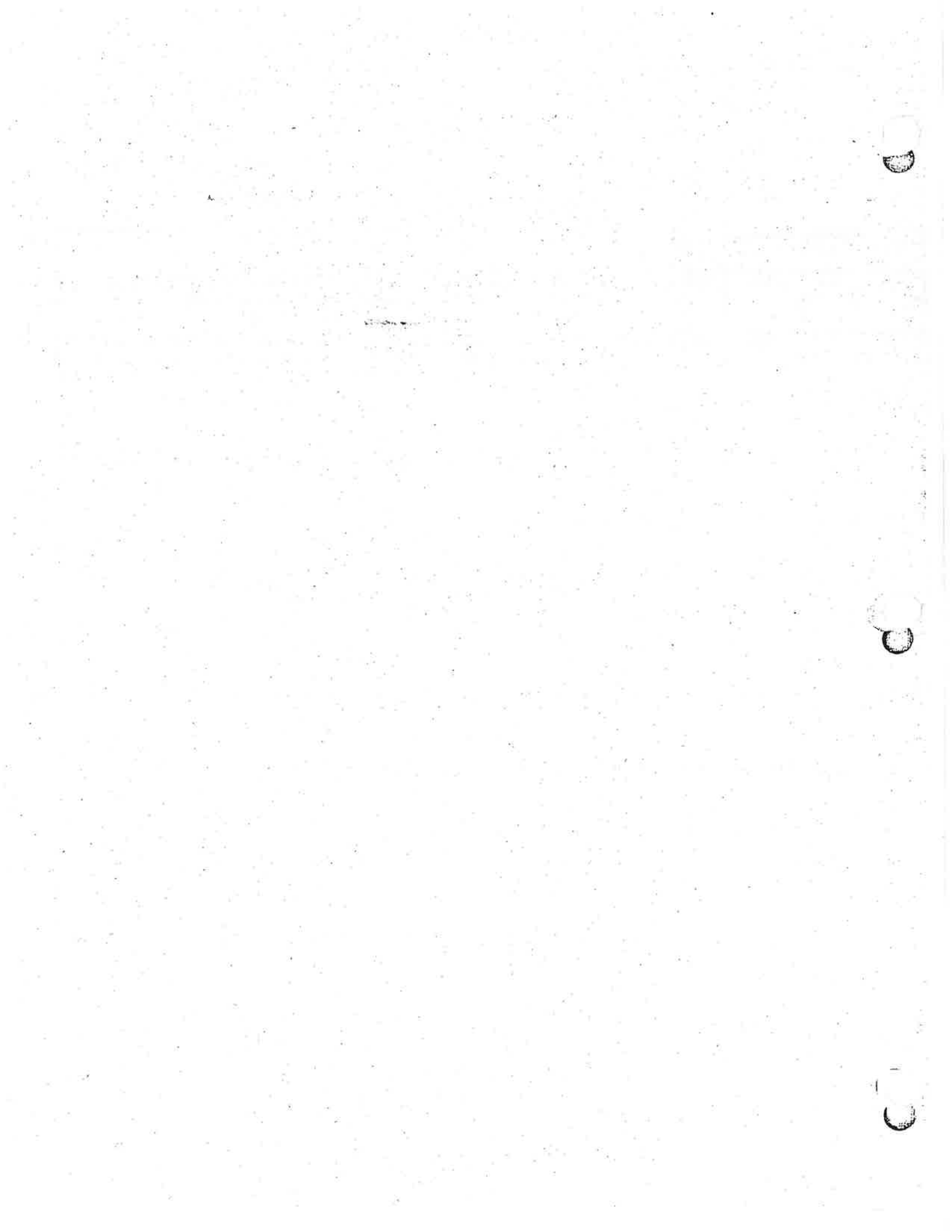
**ABBREVIATIONS**

F = FINE  
M = MEDIUM  
C = COARSE  
F/M = FINE TO MEDIUM  
F/C = FINE TO COARSE  
M/C = MEDIUM TO COARSE

**Well Construction**

**DEPTH INTERVALS**

A = 0-24 in. G = 144-168 in.  
B = 24-48 in. H = 168-192 in.  
C = 48-72 in. I = 192-216 in.  
D = 72-96 in. J = 216-240 in.  
E = 96-120 in. K = 240-264 in.  
F = 120-144 in. L = 264-288 in.



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*VOLUME I  
APPENDIX B*

*Test Pit Logs*

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Test Pit Excavation Log

 Environmental Science Services, Inc. 272 West Exchange Street, Suite 101 Providence, Rhode Island 02903 (401) 421-0398 Environmental Scientists, Engineers, and Planners	Client	Providence Gas Company	Test Pit No.	B07
	Site Name	Allens Avenue Remediation Project	Date	9/5/00
	Site Address	642 Allens Avenue, Providence, Rhode Island	Observed By	Daryll Issa
	Job Number	P151-002	Checked By	Gary Kaufman
	Contractor	Tantara Corporation	Test Pit Depth	10.5 feet
	Excavator Reach	12 feet	Groundwater Depth	Damp at 10.5 feet

Test Pit Description

0-8" Fine/medium brown sand with some gravel, dry, no odor.

8-24" Fine/ medium brown sand with some black cinder/ash and some red brick, gravel, dry, no odor.

24-62" Fine/medium light brown sand with some gravel, dry, faint petroleum odor, no PID above background.

62-96" Fine/medium gray sand with some fine/medium brown and dark brown sand, dry, petroleum odor, no PID above background.

96-126" Fine/medium gray sand with trace gravel, damp at 126", petroleum odor present, no PID above background.

Remarks:  
Soil damp at 10.5 feet. Test pit was ended due to sides caving in.

Location/Sketch:  
Test pit is located within 100 feet of the river, adjacent to Boring B07. See Figure 2 in SIR.

Test Pit Excavation Log



Environmental Science Services, Inc.  
 272 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903 (401) 421-0398  
 Environmental Scientists, Engineers, and Planners



Client	Providence Gas Company	Test Pit No.	B09
Site Name	Allens Avenue Remediation Project	Date	9/5/00
Site Address	642 Allens Avenue, Providence, Rhode Island	Observed By	Daryll Issa
Job Number	P151-002	Checked By	Gary Kaufman
Contractor	Tantara Corporation	Test Pit Depth	10 feet
Excavator Reach	12 feet	Groundwater Depth	6 feet

Test Pit Description

- 0-3" Fine/medium brown sand with some gravel, dry, no odor.
- 3-10" Fine/medium black sand with black cinders/ash, dry, no odor.
- 10-36" Fine light brown sand, dry, no odor.
- 36-48" Fine/medium gray to olive gray sand with trace gravel, dry, strong petroleum odor.
- 48-72" Fine/medium gray sand with trace gravel, damp, petroleum odor, PID=48.0 ppm.
- 72-120" Fine/medium gray sand with trace gravel, wet, petroleum odor, PID=48.0 ppm.

Remarks:


Groundwater entered hole at approximately 72". Was able to excavate to 120" prior to hole filling with water.

Location/Sketch:

Within 100 feet of the river, adjacent to B09. See Figure 2 in SIR.



**Test Pit Excavation Log**

 Environmental Science Services, Inc. 272 West Exchange Street, Suite 101 Providence, Rhode Island 02903 (401) 421-0398 Environmental Scientists, Engineers, and Planners	Client	Providence Gas Company	Test Pit No.	D19
	Site Name	Allens Avenue Remediation Project	Date	9/14/00
	Site Address	Allens Avenue, Providence, Rhode I	Observed By	Daryll Issa
	Job Number	P151-002	Checked By	Gary Kaufman
	Contractor	Tantara Corporation	Test Pit Depth	9 feet
	Excavator Reach	12 feet	Groundwater Depth	9 feet

**Test Pit Description**

0-23" Fine/medium brown sand with some gravel, dry, no odor.

23-35" Fine/medium brown sand with trace gravel, trace black cinder/ash, dry, PID=0.5 ppm.

35-60" Fine/medium brown sand with black cinder/ash, dry.

60-72" Fine/medium brown to black sand, damp, petroleum odor, PID=80.0 ppm.

72-90" Medium brown to dark brown sand, some gravel, petroleum odor.

90-108" Medium dark gray/black sand, wet at 108", strong petroleum odor, no sheen observed.

**Remarks:**  
 Area of test pit was previously filled with 2 feet of sand and gravel to building truck ramp. Depths recorded are measured from the observable surface.

**Location/Sketch:**  
 Adjacent to Boring D19, approximately 15' from MHA, near RCA-13. See Figure 2 in SIR.

**Test Pit Excavation Log**



Environmental Science Services, Inc.  
 272 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903 (401) 421-0398  
 Environmental Scientists, Engineers, and Planners



Client	Providence Gas Company	Test Pit No.	D21
Site Name	Allens Avenue Remediation Project	Date	9/14/00
Site Address	642 Allens Avenue, Providence, Rhode Island	Observed By	Daryll Issa
Job Number	P151-002	Checked By	Gary Kaufman
Contractor	Tantara Corporation	Test Pit Depth	4.5 feet
Excavator Reach	12 feet	Groundwater Depth	4.5 feet

**Test Pit Description**

0-46" Fine/medium brown/light brown sand with some gravel and trace black cinder/ash from 8-20", dry, no odor. No PID above background.

46-56" Medium dark gray/black sand, wet at 56", slight odor, no sheen, no PID above background.


**Remarks:**

Concrete foundation encountered at 56" running north and south. Ended test pit at 56".

**Location/Sketch:**

Adjacent to Boring D21 approximately 24' of the SW corner of the MHA. See Figure 2 in the SIR.

**Test Pit Excavation Log**

 Environmental Science Services, Inc. 271 West Exchange Street, Suite 101 Providence, Rhode Island 02903 (401) 421-0398 Environmental Scientists, Engineers, and Planners	Client	Providence Gas Company	Test Pit No.	D77
	Site Name	Allens Avenue Remediation Project	Date	9/12/00
	Site Address	642 Allens Avenue, Providence, Rhode Island	Observed By	Sean Driscoll
	Job Number	P151-002	Checked By	Gary Kaufman
	Contractor	Tantara Corporation	Test Pit Depth	4.5 feet
	Excavator Reach	12 feet	Groundwater Depth	4.5 feet

**Test Pit Description**

0-11" Fine/medium olive gray sand with gravel, dry, no odor.

11-17" Fine/medium black sand with gravel, dry, no odor.

17-20" Fine/medium red/black sand some cinders, dry, no odor.

20-26" Fine/medium gray sand with brick and debris, dry, no odor.

26-45" Fine/medium light gray/red/black sand some cinders, dry, no odor.

45-57" Fine/medium olive gray sand, wet at 57", no odor.

**Remarks:**

On the northern side (between 12 and 40") of the test pit, a portion of concrete foundation was observed. Near and around the foundation was some moist white fibrous powder residue.

A crushed, 5-gallon bucket with roofing tar residue was observed in the hole. The container was removed and disposed of properly.

**Location/Sketch:**

Adjacent to Boring D77. See Figure 2 in SIR.

**Test Pit Excavation Log**



**Environmental Science Services, Inc.**  
 172 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903 (401) 421-0398  
 Environmental Scientists, Engineers, and Planners



Client	<u>Providence Gas Company</u>	Test Pit No.	<u>D78</u>
Site Name	<u>Allens Avenue Remediation Project</u>	Date	<u>9/12/00</u>
Site Address	<u>642 Allens Avenue, Providence, Rhode Island</u>	Observed By	<u>Sean Driscoll</u>
Job Number	<u>P151-002</u>	Checked By	<u>Gary Kaufman</u>
Contractor	<u>Tantara Corporation</u>	Test Pit Depth	<u>5 feet</u>
Excavator Reach	<u>12 feet</u>	Groundwater Depth	<u>5 feet</u>

**Test Pit Description**

- 0-15"     *Fine/medium olive gray/gray sand with gravel, dry, no odor*
- 15-17"   *Fine/medium red/black cinders with gravel, dry, no odor*
- 17-27"   *Fine/medium black/olive gray cinder with gravel, dry, no odor*
- 27-40"   *Fine red silty sand, dry no odor*
- 40-56"   *Fine/medium black/red silty sand with debris (tar paper), dry, faint petroleum odor*
- 56-60"   *Fine/medium olive gray/gray silty sand, wet at 60", no odor*


Remarks:

Location/Sketch:

Adjacent to Boring D78. See Figure 2 in SIR.



**Test Pit Excavation Log**

 Environmental Science Services, Inc. 272 West Exchange Street, Suite 101 Providence, Rhode Island 02903 (401) 421-0393 Environmental Scientists, Engineers, and Planners	Client	Providence Gas Company	Test Pit No.	D87
	Site Name	Allens Avenue Remediation Project	Date	9/12/00
	Site Address	642 Allens Avenue, Providence, Rhode Island	Observed By	Sean Driscoll
	Job Number	P151-002	Checked By	Gary Kaufman
	Contractor	Tantara Corporation	Test Pit Depth	5 feet
	Excavator Reach	12 feet	Groundwater Depth	5 feet

**Test Pit Description**

- 0-12" Fine/medium tan sand and gravel, dry, no odor.
- 12-24" Medium tan sand and gravel with some black cinders, dry, no odor.
- 24-30" Coarse red/brown sand, some gravel, dry no odor.
- 30-50" Fine brown to gray silty sand, trace gravel, dry, with 4-6" layer of black petroleum thick liquid on northern face of test pit approximately 45" below ground surface (bgs), strong petroleum odor.
- 50-60" Very fine gray silty/clay, wet, strong petroleum odor, sheening on soil and groundwater.

**Remarks:**

Test pit remained open for several hours. Tidal influence. Tide rose above the layer of petroleum observed on northern face of test pit.  
 Soil sample and water sample retrieved and analyzed for total petroleum hydrocarbon (TPH) fingerprint. Fingerprinted similar to diesel fuel.

**Location/Sketch:**

Adjacent to Boring D87. See Figure 2 in SIR.

Test Pit Excavation Log



Environmental Science Services, Inc.  
172 West Exchange Street, Suite 101  
Providence, Rhode Island 02903 (401) 421-0398  
Environmental Scientists, Engineers, and Planners



Client Providence Gas Company  
Site Name Allens Avenue Remediation Project  
Site Address 642 Allens Avenue, Providence, Rhode Island  
Job Number P151-002  
Contractor Tantara Corporation  
Excavator Reach 12 feet

Test Pit No. E15  
Date 10/4/00  
Observed By Daryll Issa  
Checked By Gary Kaufman  
Test Pit Depth 5.0 feet  
Groundwater Depth 5.0 feet

Test Pit Description

0-36"	Brown/dark brown fine to medium sand. Some large subangular gravel. Some cinders and wood. Strong odor.
36-54"	Dark brown/black fine to medium sand and black/purple, dense, fibrous material. Damp. Strong odor.
	Black/purple fine to medium sand with some wood, gravel, concrete block fragments, and metal (50-54"). Damp. Very strong odor.

Remarks:  
Unusual, strong odor. Blue stained surface soil and prussian blue stained small stones on surface. Concrete fragments are curved and may represent portions of purifiers historically located in this area. Further evaluation needed. Headspace readings at 3' = 1.5 ppm; 4.5' = 2.4 ppm; 5.0' = 175 ppm. CN Draeger tube pulled at 3' result = 0 ppm.

Location/Sketch  
Near pipe staging area, east of Holder 21 near historical structures No. 6. Adjacent to Boring E15. See Figure 2 in SIR.



Test Pit Excavation Log



Environmental Science Services, Inc.  
 272 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903 (401) 421-0398  
 Environmental Scientists, Engineers, and Planners



Client	Providence Gas Company	Test Pit No.	E29
Site Name	Allens Avenue Remediation Project	Date	9/25/00
Site Address	642 Allens Avenue, Providence, Rhode Island	Observed By	D. Issa, S. Courtemanche, A. Frye
Job Number	P151-002	Checked By	Gary Kaufman
Contractor	Tantara Corporation	Test Pit Depth	6 Feet
Excavator Reach	12 feet	Groundwater Depth	Approximately 5.5 Feet


Test Pit Description

- 0-12" Dark brown fine to medium sand and gravel with trace of silt.
- 12-13" Black fine sand with traces of coal and fine to medium gravel.
- 13-17" Light brown fine to medium sand, trace of silt.
- 17-28" Black fine to coarse slag, no odor, no measurable PID readings.
- 28-42" Light brown fine to medium sand with some gravel (damp).
- 42-68" Light brown fine wet sand.

Remarks:  
 Groundwater entering excavation at approximately 68" (5'8"). No measurable PID readings, no odors from excavation, no sheen on groundwater.

Location/Sketch:  
 Adjacent to Boring E29. See Figure 2 in SIR.

Test Pit Excavation Log

 Environmental Science Services, Inc. 272 West Exchange Street, Suite 101 Providence, Rhode Island 02903 (401) 421-0398 Environmental Scientists, Engineers, and Planners	Client	Providence Gas Company	Test Pit No.	E76
	Site Name	Allens Avenue Remediation Project	Date	10/5/00
	Site Address	642 Allens Avenue, Providence, Rhode Island	Observed By	Sean Driscoll
	Job Number	P151-002	Checked By	Gary Kaufman
	Contractor	Tanjara Corporation	Test Pit Depth	5.5 Feet
	Excavator Reach	12 feet	Groundwater Depth	5.5 Feet

Test Pit Description

0-2"	Asphalt road surface.
3"-12"	Black fine to medium cinders and some gravel. No odors.
12"-63"	Light brown/yellow fine silty sand, trace blue fine silty sand. Slight odor.
63"-66"	Black fine to medium sand. No odor.

Remarks:  
Groundwater entering excavation at 5.5 feet. Blue staining observed throughout excavation. During excavation, light brown/yellow fine silty sand took on a dark blue coloration over time. Only slight odor emanating from excavation.

Location/Sketch:  
Adjacent to Boring E76. See Figure 2 in SIR.



**Test Pit Excavation Log**



Environmental Science Services, Inc.  
 272 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903 (401) 411-0398  
 Environmental Scientists, Engineers, and Planners



Client	Providence Gas Company	Test Pit No.	E91
Site Name	Allens Avenue Remediation Project	Date	9/25/00
Site Address	642 Allens Avenue, Providence, Rhode Island	Observed By	D. Issa, S. Courtemanche, A. Frye
Job Number	P151-002	Checked By	Gary Kaufman
Contractor	Tanlara Corporation	Test Pit Depth	4 Feet
Excavator Reach	12 feet	Groundwater Depth	4 Feet

**Test Pit Description**

- 0-8" Dark brown fine to medium sand with trace of silt.
- 8-12" Light brown fine to medium sand with some gravel.
- 12-14" Layer of black coal ash; no odor, no PID above background.
- 14-28" Brown fine sand, trace of silt, some cobbles.
- 28-48" Brown sand and gravel, red and white brick.


**Remarks:**

No PID readings above background.  
 No odors emanating from excavation.  
 Slight sheen on groundwater. Groundwater entering excavation at approximately 4 feet.


**Location/Sketch:**

Approximately 30' south of Boring E91. See Figure 2 in SIR.

Test Pit Excavation Log



Environmental Science Services, Inc.  
 272 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903 (401) 421-0398  
 Environmental Scientists, Engineers, and Planners



Client	Providence Gas Company
Site Name	Allens Avenue Remediation Project
Site Address	642 Allens Avenue, Providence, Rhode Island
Job Number	P151-002
Contractor	Tantara Corporation
Excavator Reach	12 feet

Test Pit No.	F14
Date	9/25/00
Observed By	D. Issa, S. Courtemanche, A. Frye
Checked By	Gary Kaufman
Test Pit Depth	8 Feet
Groundwater Depth	8 Feet

Test Pit Description

0-13"	Topsoil (0-5"), light tan fine sand (5-13").
13-28"	Fine to coarse black slag. No measurable PID readings.
28-32"	Fine to coarse orange slag. No measurable PID readings.
32-96"	Fine to coarse slag of varying tones with red and white brick fragments. No measurable PID readings.


Remarks:

This excavation consisted mostly of slag/clinker.  
 No PID measurements above background.  
 Groundwater entering excavation at 96" (8 feet). No sheen or odors.

Location/Sketch:

Adjacent to Boring F14 near refueling station. See Figure 2 in SIR.

**Test Pit Excavation Log**

 Environmental Science Services, Inc. 277 West Exchange Street, Suite 101 Providence, Rhode Island 02903 (401) 411-0398 Environmental Scientists, Engineers, and Planners	Client	Providence Gas Company	Test Pit No.	F21
	Site Name	Allens Avenue Remediation Project	Date	10/4/00
	Site Address	642 Allens Avenue, Providence, Rhode Island	Observed By	D. Issa
	Job Number	P151-002	Checked By	Gary Kaufman
	Contractor	Tantara Corporation	Test Pit Depth	9 Feet
	Excavator Reach	12 feet	Groundwater Depth	9 Feet

**Test Pit Description**

0-14"      Brown fine to medium sand, with some topsoil.

14-26"      Tan fine sand.

26-108"      Black cinders and ash/slag. Brick fragments. Some fine to medium dark brown/brown sand. Some roofing paper/life and rusted metal bucket.

**Remarks:**

Groundwater entering at 9 feet (108"). Slight blue sheen.  
 Headspace on bucket contents = 26 ppm. Latex paint odor.

**Location/Sketch:**

Five feet east of Boring F21 on east side of PGC Control Building (see Figure 2 of SIR).

**Test Pit Excavation Log**



**Environmental Science Services, Inc.**  
 172 West Exchange Street, Suite 101  
 Providence, Rhode Island 02903 (401) 421-0398  
 Environmental Scientists, Engineers, and Planners



Client	Providence Gas Company	Test Pit No.	F35
Site Name	Allens Avenue Remediation Project	Date	10/4/00
Site Address	642 Allens Avenue, Providence, Rhode Island	Observed By	D. Issa
Job Number	P151-002	Checked By	Gary Kaufman
Contractor	Tantara Corporation	Test Pit Depth	7 Feet
Excavator Reach	12 feet	Groundwater Depth	7 Feet

**Test Pit Description**

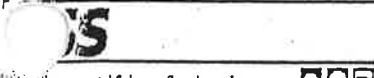
- 0-3" Asphalt parking lot.
- 3-20" Brown/gray fine to medium sand, some gravel. No odors. No PID above background. Dry.
- 20-80" Black cinders/ash/slag with some brown fine to medium sand and gravel. Groundwater entering at 80".

**Remarks:**  
 No PID above background measured during excavation.

**Location/Sketch:**  
 West side of PGC control building, south of and adjacent to billboard, and adjacent to Boring F35. See Figure 2 of SIR.



Test Pit Excavation Log

 Environmental Science Services, Inc. 272 West Exchange Street, Suite 101 Providence, Rhode Island 02903 (401) 421-0398 Environmental Scientists, Engineers, and Planners	Client	<u>Providence Gas Company</u>	Test Pit No.	<u>F41</u>
	Site Name	<u>Allens Avenue Remediation Project</u>	Date	<u>9/25/00</u>
	Site Address	<u>642 Allens Avenue, Providence, Rhode Island</u>	Observed By	<u>D. Issa, S. Courtemanche, A. Frye</u>
	Job Number	<u>P151-002</u>	Checked By	<u>Gary Kaufman</u>
	Contractor	<u>Tantara Corporation</u>	Test Pit Depth	<u>7.5 Feet</u>
	Excavator Reach	<u>12 feet</u>	Groundwater Depth	<u>7.5 Feet</u>


Test Pit Description

- 0-6"     Approximately 1/2 inch root layer over 6" light brown topsoil.
- 6-18"   Black slag, tan roofing paper with black staining. Mothball odor.
- 18-57"   Asphalt pieces (some hard, some soft and pliable PID = 11 ppm), red and white brick fragments, coal fragments, glass, metal, copper, and other fill. Strong mothball odor.
- 57-90"   Slag. Mothball odor.

Remarks:  
 Mothball odor during entire excavation. PID over excavation peaked at 3.3 ppm.  
 Groundwater entering bottom of excavation at 7.5 feet. No sheen visible.

Location/Sketch:  
 West side of PGC Control Building adjacent to billboard and Boring F41. See Figure 2 in SIR.

Test Pit Excavation Log

 <p>Environmental Science Services, Inc. 272 West Exchange Street, Suite 101 Providence, Rhode Island 01903 (401) 421-0398 Environmental Scientists, Engineers, and Planners</p>	Client	Providence Gas Company	Test Pit No.	F56
	Site Name	Allens Avenue Remediation Project	Date	9/25/00
	Site Address	642 Allens Avenue, Providence, Rhode Island	Observed By	D. Issa, S. Courtemanche, A. Frye
	Job Number	P151-002	Checked By	Gary Kaufman
	Contractor	Tantara Corporation	Test Pit Depth	6 Feet
	Excavator Reach	12 feet	Groundwater Depth	6 Feet

Test Pit Description

0-2"	Asphalt parking lot.
2-14"	Light tan fine sand with some gravel.
14-16"	Fine black sand and coal ash. Dry no odors. No measurable PID.
16-24"	Slag and red brick with traces of fine sand and silt. Dry.
24-30"	Light brown fine to medium sand and gravel.
30-72"	Slag and coal with red brick fragments. Wet at 72".

Remarks:


Groundwater entering excavation at approximately 6 feet. No visible sheen.

No PID readings above background. No discernable odors.

Location/Sketch:

Adjacent to Boring F56. See Figure 2 in SIR.

**Test Pit Excavation Log**

 <b>Environmental Science Services, Inc.</b> 272 West Exchange Street, Suite 101 Providence, Rhode Island 02903 (401) 421-0398 Environmental Scientists, Engineers, and Planners	Client	Providence Gas Company	Test Pit No.	E77
	Site Name	Allens Avenue Remediation Project	Date	10/5/00
	Site Address	642 Allens Avenue, Providence, Rhode Island	Observed By	Sean Driscoll
	Job Number	P151-002	Checked By	Gary Kaufman
	Contractor	Tantara Corporation	Test Pit Depth	4.5 Feet
	Excavator Reach	12 feet	Groundwater Depth	4.5 Feet

**Test Pit Description**

- 0-12"      Brown fine to medium sand with some gravel. Loose and dry.
- 12-16"    Black fine to medium sand with trace gravel. Loose and dry. No odors.
- 16"-50"   Brown fine to medium sand with trace of brick. Loose and dry. Pine timbers just above water table. No odors.
- 50-54"    Light brown fine silty sand. No odor.


**Remarks:**

No evidence of coal/coal tar in test pit. Groundwater entered excavation at 6.5 feet, then after approximately one minute leveled at 4.5 feet.  
 Soil between 4.5 and 6.5 feet consisted of light brown fine silty sand.

**Location/Sketch:**

Adjacent to Boring E77. See Figure 2 of SIR.

**Test Pit Excavation Log**

 <p>Environmental Science Services, Inc. 172 West Exchange Street, Suite 101 Providence, Rhode Island 02903 (401) 421-0398 Environmental Scientists, Engineers, and Planners</p>	Client	<b>Providence Gas Company</b>	Test Pit No.	E86
	Site Name	Allens Avenue Remediation Project	Date	9/25/00
	Site Address	642 Allens Avenue, Providence, Rhode Island	Observed By	D. Issa, S. Courtemanche, A. Frye
	Job Number	P151-002	Checked By	Gary Kaufman
	Contractor	Tantara Corporation	Test Pit Depth	4.5 feet
	Excavator Reach	12 feet	Groundwater Depth	4.5 feet

**Test Pit Description**

0-2" Asphalt parking lot cover.

2"-54" Asphaltic-based material, coal-tar like material, petroleum-impacted material, all of varying degrees of compaction. Sweet odor along with strong diesel odor.

Highly compacted layer of apparent "cold patch" asphalt, free petroleum present (21-24"). PID = 29 ppm headspace. Strong petroleum odor.

Loosely compacted apparent "cold patch" asphalt (24-54"). Groundwater entering excavation at approximately 4.5 feet. Significant sheening on groundwater and strong diesel-like odor, with additional sweet odor. Gravel and cobbles throughout.

Remarks:

PID Over Excavated Material = 60 ppm                      Sample 1 (Soil at Water Table)

PID Over Excavation = 8 ppm (peak not sustained)      Sample 2 (Loosely Compacted)

Draeger Xylene = ND                                              Sample 3 (E86 Dense)

                                                                                            Sample 4 (Moderately Compacted)

Location/Sketch:

Adjacent to Boring E86 (see Figure 2 of SIR) at toe of PGC soil processing slope.



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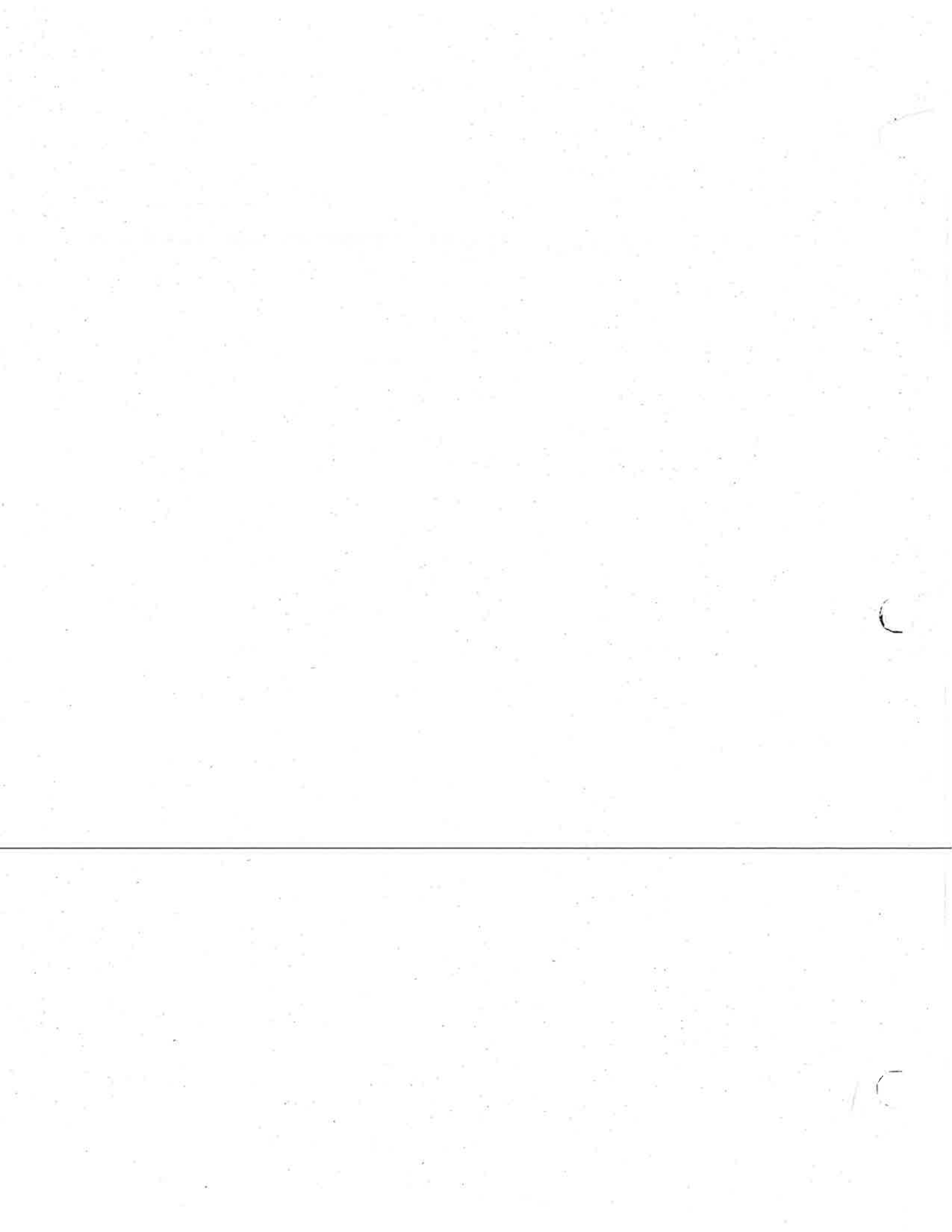
# Appendix F – Monitor Well Construction Logs





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# Appendix H – ESS Surficial Soil Data





APPENDIX D  
 TABLE D-1  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Surface Soil Analytical Summary - Area A  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date Collected	Sample Depth	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,2-dybis (1-Chloropropane)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	1,1-Dimethylphenol	2,4-Dialkyphenol	2,4-Dialkytoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
A54A1C01	02/10/00	00-02ft	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	7,600 U	3,700 U	1,700 U	3,700 U	7,600 U	1,700 U	1,700 U	1,700 U
A55A1C01	02/09/00	00-02ft	1,900 U	1,900 U	1,900 U	1,900 U	3,900 U	7,900 U	3,900 U	1,900 U	3,900 U	7,900 U	1,900 U	1,900 U	1,900 U
A56A1C01	02/09/00	00-02ft	1,800 U	1,800 U	1,800 U	1,800 U	3,800 U	7,800 U	3,800 U	1,800 U	3,800 U	7,800 U	1,800 U	1,800 U	1,800 U
A57A1C01	02/23/00	00-02ft	1,700 U	1,700 U	1,700 U	1,700 U	3,700 U	7,700 U	3,700 U	1,700 U	3,700 U	7,700 U	1,700 U	1,700 U	1,700 U
A58A1C01	02/29/00	00-02ft	1,600 U	1,600 U	1,600 U	1,600 U	3,600 U	7,600 U	3,600 U	1,600 U	3,600 U	7,600 U	1,600 U	1,600 U	1,600 U
A59A1C01	02/29/00	00-02ft	1,600 U	1,600 U	1,600 U	1,600 U	3,600 U	7,600 U	3,600 U	1,600 U	3,600 U	7,600 U	1,600 U	1,600 U	1,600 U
A60A1C01	02/29/00	00-02ft	1,800 U	1,800 U	1,800 U	1,800 U	3,800 U	7,800 U	3,800 U	1,800 U	3,800 U	7,800 U	1,800 U	1,800 U	1,800 U
A61A1C01	02/29/00	00-02ft	1,700 U	1,700 U	1,700 U	1,700 U	3,700 U	7,700 U	3,700 U	1,700 U	3,700 U	7,700 U	1,700 U	1,700 U	1,700 U
A62A1C01	02/23/00	00-02ft	1,500 U	1,500 U	1,500 U	1,500 U	3,500 U	7,500 U	3,500 U	1,500 U	3,500 U	7,500 U	1,500 U	1,500 U	1,500 U
A63A1C01	02/29/00	00-02ft	1,600 U	1,600 U	1,600 U	1,600 U	3,600 U	7,600 U	3,600 U	1,600 U	3,600 U	7,600 U	1,600 U	1,600 U	1,600 U
A64A1C01	02/29/00	00-02ft	1,600 U	1,600 U	1,600 U	1,600 U	3,600 U	7,600 U	3,600 U	1,600 U	3,600 U	7,600 U	1,600 U	1,600 U	1,600 U
A64A1C01dup	02/29/00	00-02ft	1,600 U	1,600 U	1,600 U	1,600 U	3,600 U	7,600 U	3,600 U	1,600 U	3,600 U	7,600 U	1,600 U	1,600 U	1,600 U
A65A1C01	02/29/00	00-02ft	1,600 U	1,600 U	1,600 U	1,600 U	3,600 U	7,600 U	3,600 U	1,600 U	3,600 U	7,600 U	1,600 U	1,600 U	1,600 U
A66A1C01	02/29/00	00-02ft	1,600 U	1,600 U	1,600 U	1,600 U	3,600 U	7,600 U	3,600 U	1,600 U	3,600 U	7,600 U	1,600 U	1,600 U	1,600 U
A67A1C01	02/23/00	00-02ft	1,600 U	1,600 U	1,600 U	1,600 U	3,600 U	7,600 U	3,600 U	1,600 U	3,600 U	7,600 U	1,600 U	1,600 U	1,600 U
A68A1C01	02/23/00	00-02ft	1,500 U	1,500 U	1,500 U	1,500 U	3,500 U	7,500 U	3,500 U	1,500 U	3,500 U	7,500 U	1,500 U	1,500 U	1,500 U
A69A1C01	02/23/00	00-02ft	1,500 U	1,500 U	1,500 U	1,500 U	3,500 U	7,500 U	3,500 U	1,500 U	3,500 U	7,500 U	1,500 U	1,500 U	1,500 U
A70A1C01	02/23/00	00-02ft	1,500 U	1,500 U	1,500 U	1,500 U	3,500 U	7,500 U	3,500 U	1,500 U	3,500 U	7,500 U	1,500 U	1,500 U	1,500 U
A71A1C01	02/23/00	00-02ft	1,900 U	1,900 U	1,900 U	1,900 U	3,900 U	7,900 U	3,900 U	1,900 U	3,900 U	7,900 U	1,900 U	1,900 U	1,900 U
A72A1C01	02/23/00	00-02ft	1,600 U	1,600 U	1,600 U	1,600 U	3,600 U	7,600 U	3,600 U	1,600 U	3,600 U	7,600 U	1,600 U	1,600 U	1,600 U
A73A1C01	02/23/00	00-02ft	1,500 U	1,500 U	1,500 U	1,500 U	3,500 U	7,500 U	3,500 U	1,500 U	3,500 U	7,500 U	1,500 U	1,500 U	1,500 U
A74A1C01	02/23/00	00-02ft	1,800 U	1,800 U	1,800 U	1,800 U	3,800 U	7,800 U	3,800 U	1,800 U	3,800 U	7,800 U	1,800 U	1,800 U	1,800 U

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded.  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from dilution.  
 \* - Sample not tested.  
 (1) - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.

**SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Surface Soil Analytical Summary - Area A  
Providence Gas Company  
642 Attens Avenue, Providence, Rhode Island**

Sample No.	Date Collected	Sample Depth	1-Chloro-phenol	2-Methyl-naphthalene	2-Methyl-phenol	2-Nitroaniline	2-Nitrophenol	3,3-Dichloro-benzidine	3-Nitroaniline	4,6-Dichloro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-Methyl-phenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methyl-phenol
A01A1C01	02/03/00	00-02ft	1,900 U	1,900 U	1,900 U	7,900 U	1,900 U	1,900 U	7,900 U	7,900 U	3,900 U	1,900 U	1,900 U	3,900 U	1,900 U
A02A1C01	02/03/00	00-02ft	4,100 U	740 U	4,100 U	8,200 U	4,100 U	4,100 U	8,200 U	8,200 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
A03A1C01	03/02/00	00-02ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A04A1C01	03/03/00	00-02ft	1,900 U	1,900 U	1,900 U	7,900 U	1,900 U	1,900 U	7,900 U	7,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
A05A1C01	03/02/00	00-02ft	4,400 U	4,400 U	4,400 U	9,000 U	4,400 U	4,400 U	9,000 U	9,000 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U
A06A1C01	03/03/00	00-02ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A07A1C01	03/03/00	00-02ft	1,700 U	1,700 U	1,700 U	7,600 U	1,700 U	1,700 U	7,600 U	7,600 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
A08A1C01	03/03/00	00-02ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A09A1C01	02/04/00	00-02ft	1,700 U	3,700 U	1,700 U	7,500 U	1,700 U	1,700 U	7,500 U	7,500 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
A10A1C01	02/04/00	00-02ft	1,600 U	650 U	1,600 U	7,100 U	1,600 U	1,600 U	7,100 U	7,100 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
A11A1C01	02/04/00	00-02ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A12A1C01	03/03/00	00-02ft	3,400 U	650 U	3,400 U	7,000 U	3,400 U	3,400 U	7,000 U	7,000 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A13A1C01	03/03/00	00-02ft	3,500 U	8,000 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A14A1C01	02/03/00	00-02ft	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A15A1C01dup	02/03/00	00-02ft	1,500 U	3,500 U	1,500 U	7,200 U	1,500 U	1,500 U	7,200 U	7,200 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
A16A1C01	02/03/00	00-02ft	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A17A1C01	02/03/00	00-02ft	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A18A1C01	02/03/00	00-02ft	1,600 U	1,600 U	1,600 U	7,100 U	1,600 U	1,600 U	7,100 U	7,100 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
A19A1C01	02/04/00	00-02ft	1,600 U	1,600 U	1,600 U	7,100 U	1,600 U	1,600 U	7,100 U	7,100 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
A22A1C01	02/08/00	00-02ft	1,600 U	1,600 U	1,600 U	7,400 U	1,600 U	1,600 U	7,400 U	7,400 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
A23A1C01	02/08/00	00-02ft	1,600 U	860 U	1,600 U	7,100 U	1,600 U	1,600 U	7,100 U	7,100 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
A24A1C01	02/09/00	00-02ft	1,500 U	1,500 U	1,500 U	7,100 U	1,500 U	1,500 U	7,100 U	7,100 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
A25A1C01 (1)	02/08/00	00-02ft	3,600 U	6,400 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A26A1C01	02/08/00	00-02ft	3,500 U	3,400 U	3,500 U	7,000 U	3,500 U	3,500 U	7,000 U	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A27A1C01dup	02/08/00	00-02ft	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A28A1C01	02/08/00	00-02ft	1,700 U	3,700 U	1,700 U	7,500 U	1,700 U	1,700 U	7,500 U	7,500 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
A29A1C01	02/09/00	00-02ft	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	7,000 U	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A30A1C01	02/09/00	00-02ft	1,400 U	3,400 U	1,400 U	6,900 U	1,400 U	1,400 U	6,900 U	6,900 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A31A1C01	02/08/00	00-02ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A32A1C01	02/08/00	00-02ft	1,800 U	3,800 U	1,800 U	7,600 U	1,800 U	1,800 U	7,600 U	7,600 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
A33A1C01	02/08/00	00-02ft	1,600 U	1,600 U	1,600 U	7,100 U	1,600 U	1,600 U	7,100 U	7,100 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
A34A1C01	02/08/00	00-02ft	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A36A1C01	02/08/00	00-02ft	4,600 U	4,600 U	4,600 U	9,200 U	4,600 U	4,600 U	9,200 U	9,200 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U
A37A1C01	02/17/00	00-02ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A38A1C01	02/09/00	00-02ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A40A1C01	02/08/00	00-02ft	1,600 U	1,000 U	1,600 U	7,200 U	1,600 U	1,600 U	7,200 U	7,200 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
A42A1C01	02/09/00	00-02ft	1,500 U	520 U	1,500 U	7,200 U	1,500 U	1,500 U	7,200 U	7,200 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
A43A1C01	02/17/00	00-02ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A44A1C01	02/17/00	00-02ft	1,800 U	3,800 U	1,800 U	7,700 U	1,800 U	1,800 U	7,700 U	7,700 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
A45A1C01	02/09/00	00-02ft	1,600 U	3,600 U	1,600 U	7,400 U	1,600 U	1,600 U	7,400 U	7,400 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
A46A1C01	02/10/00	00-02ft	3,900 U	480 U	3,900 U	7,800 U	3,900 U	3,900 U	7,800 U	7,800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
A47A1C01	02/09/00	00-02ft	R	250,000 U	R	R	R	R	R	R	R	R	R	R	R
A47A1C01dup	02/09/00	00-02ft	R	180,000 U	R	R	R	R	R	R	R	R	R	R	R
A48A1C01	02/09/00	00-02ft	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	8,100 U	8,100 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
A49A1C01	02/17/00	00-02ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A50A1C01	02/17/00	00-02ft	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A51A1C01	02/23/00	00-02ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A52A1C01	02/09/00	00-02ft	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	7,800 U	7,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A53A1C01	02/09/00	00-02ft	1,500 U	3,500 U	1,500 U	7,200 U	1,500 U	1,500 U	7,200 U	7,200 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U

APPENDIX D  
 TABLE D-1  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Surface Soil Analytical Summary - Area A  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date Collected	Sample Depth	3-Chlorophenol	2-Methylphthalate	2-Methylphenol	3,3-Dichlorobenzidine	3-Nitroaniline	4,4-Diall(methyl)phenol	4-Bromophenylphenylether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenylether	4-Methylphenol
A91A1C01	02/25/00	00-02ft	3,700 U	3,200 J	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A55A1C01	02/09/00	00-02ft	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
A56A1C01	02/09/00	00-02ft	3,800 U	3,640 J	3,800 U	3,800 U	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A57A1C01	02/23/00	00-02ft	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A58A1C01	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A59A1C01	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A60A1C01	02/29/00	00-02ft	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A61A1C01	02/29/00	00-02ft	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A62A1C01	02/23/00	00-02ft	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A63A1C01	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A64A1C01	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A64A1C01dup	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A65A1C01	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A66A1C01	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A67A1C01	02/23/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A68A1C01	02/23/00	00-02ft	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A69A1C01	02/23/00	00-02ft	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A70A1C01	02/23/00	00-02ft	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A71A1C01	02/23/00	00-02ft	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
A72A1C01	02/23/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A73A1C01	02/23/00	00-02ft	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A74A1C01	02/23/00	00-02ft	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	7,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U

Notes:  
 All results in micrograms per kilogram (ug/kg)  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from dilution  
 "-" Sample not tested.  
 (1) - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.





APPENDIX D  
TABLE D-1  
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Surface Soil Analytical Summary - Area A  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date Collected	Sample Depth	4-Nitroaniline	4-Nitrophenol	Acetophenone	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(c)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bit(2-Chlorofluorobenzene)	bit(2-Chlorophenyl)ether	bit(2-Ethylhexyl)phthalate
A51A1C01	01/23/00	00-02ft	7,600 U	7,600 U	3,700 U	910 J	1,600 J	3,000 J	2,400 J	3,100 J	3,700 U	1,300 J	3,700 U	3,700 U	3,700 U
A55A1C01	02/09/00	00-02ft	7,900 U	7,900 U	3,900 U	1,900 U	670 J	980 J	800 J	1,100 J	3,900 U	440 J	3,900 U	3,900 U	3,900 U
A56A1C01	02/09/00	00-02ft	7,600 U	7,600 U	3,600 U	1,700 U	3,300 J	4,800 J	3,800 J	4,700 J	1,800 J	1,700 J	3,800 U	3,800 U	3,800 U
A57A1C01	02/23/00	00-02ft	7,600 U	7,600 U	3,700 U	1,700 U	3,900 J	940 J	770 J	1,100 J	430 J	500 J	3,700 U	3,700 U	3,700 U
A58A1C01	02/23/00	00-02ft	7,300 U	7,300 U	3,600 U	1,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A59A1C01	02/29/00	00-02ft	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A60A1C01	02/29/00	00-02ft	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A61A1C01	02/29/00	00-02ft	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A62A1C01	02/23/00	00-02ft	7,000 U	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A63A1C01	02/29/00	00-02ft	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A64A1C01	02/29/00	00-02ft	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A64A1C01dup	02/29/00	00-02ft	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A65A1C01	02/29/00	00-02ft	7,100 U	7,100 U	3,600 U	3,600 U	3,600 U	3,600 U	450 J	3,500 J	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A66A1C01	02/29/00	00-02ft	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A67A1C01	02/23/00	00-02ft	7,100 U	7,100 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A68A1C01	02/25/00	00-02ft	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A69A1C01	02/25/00	00-02ft	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A70A1C01	02/25/00	00-02ft	7,000 U	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A71A1C01	02/25/00	00-02ft	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
A72A1C01	02/25/00	00-02ft	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A73A1C01	02/25/00	00-02ft	7,000 U	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A74A1C01	02/25/00	00-02ft	7,800 U	7,800 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U

Notes:

- All results in micrograms per kilogram (µg/kg)
- U - Compound not detected above method reporting limit presented
- J - Estimated concentration
- E - Estimated concentration; calibration range exceeded.
- R - Data rejected due to QC violation
- D - Analyte concentration obtained from dilution
- \*, - Sample not tested
- ||| - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.



APPENDIX D  
 TABLE D-1  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Surface Soil Analytical Summary - Area A  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date Collected	Sample Depth	Butylbenzyl-phthalate	Carbazole	Chrysene	Di-n-butyl-phthalate	Di-n-octyl-phthalate	Dibenz(a,b)anthracene	Dibenzofuran	Diethyl-phthalate	Dimethyl-phthalate	Fluoranthene	Fluorene	Hexachloro-benzene	Hexachloro-butadiene
A91A1C01	02/23/00	00-02ft	3,700 U	1,300 J	2,700 J	3,700 U	3,700 U	3,700 U	600 J	3,700 U	3,700 U	4,700 U	980 J	3,700 U	3,700 U
A53A1C01	02/09/00	00-02ft	3,900 U	3,900 U	880 J	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	1,900 J	3,900 U	3,900 U	3,900 U
A56A1C01	02/09/00	00-02ft	3,800 U	1,000 J	4,100 J	3,800 U	3,800 U	800 U	1,100 J	3,800 U	3,800 U	10,000 U	2,000 J	3,800 U	3,800 U
A57A1C01	02/23/00	00-02ft	3,700 U	3,700 U	960 J	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	1,600 J	3,700 U	3,700 U	3,700 U
A58A1C01	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A59A1C01	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A60A1C01	02/29/00	00-02ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A61A1C01	02/29/00	00-02ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A62A1C01	02/25/00	00-02ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A63A1C01	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A64A1C01	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A64A1C01dup	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A65A1C01	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A66A1C01	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A67A1C01	02/25/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A68A1C01	02/25/00	00-02ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A69A1C01	02/25/00	00-02ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A70A1C01	02/25/00	00-02ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A71A1C01	02/25/00	00-02ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
A72A1C01	02/25/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A73A1C01	02/25/00	00-02ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A74A1C01	02/25/00	00-02ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U

Notes:  
 All results in micrograms per kilogram (pp/kg)  
 U - Compound not detected above method reporting limit pretensed  
 J - Estimated concentration  
 E - Estimated concentration, calibration range exceeded  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from dilution  
 \* - Sample not tested  
 (f) - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.



APPENDIX D  
 TABLE D-1  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Surface Soil Analytical Summary - Area A  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date Collected	Sample Depth	Hexachloro- cyclo- pentadiene	Hexachloro- ethane	Indeno(1,2,3- cd) pyrene	Isophorone	N-Nitroso-di-n- propyl-amine	N-Nitroso- diphenyl- amine	Naphthalene	Nitrobenzene	2,2,4,4-Tetrachloro- phenol	Phenanthrene	Phenol	Pyrene
A61A1C01	02/25/00	00-02ft	3,700 U	3,700 U	700 J	3,700 U	3,700 U	3,700 U	1,400 J	3,700 U	7,600 U	5,400 U	3,700 U	5,200 U
A55A1C01	02/09/00	00-02ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	2,500 J	3,900 U	1,500 J
A56A1C01	02/09/00	00-02ft	3,800 U	3,800 U	2,200 J	3,800 U	3,800 U	3,800 U	760 J	3,800 U	7,600 U	11,000 U	3,800 U	7,900 U
A57A1C01	02/21/00	00-02ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	1,300 J	3,700 U	1,300 J
A58A1C01	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
A59A1C01	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U
A60A1C01	02/29/00	00-02ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
A61A1C01	02/29/00	00-02ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,700 U	3,700 U	3,700 U	3,700 U
A62A1C01	02/25/00	00-02ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U
A63A1C01	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	360 J
A64A1C01	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
A64A1C01 dup	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
A65A1C01	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	470 J
A66A1C01	02/29/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
A67A1C01	02/25/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
A68A1C01	02/25/00	00-02ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
A69A1C01	02/25/00	00-02ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
A70A1C01	02/25/00	00-02ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U
A71A1C01	02/25/00	00-02ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
A72A1C01	02/25/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
A73A1C01	02/25/00	00-02ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U
A74A1C01	02/25/00	00-02ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above  
 method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range  
 exceeded.  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from dilution.  
 \*\* - Sample not tested.  
 [1] - Multiple analysis of sample conducted;  
 result presented is the highest detected or  
 or lowest quantitation limit for constituent.



APPENDIX D  
 TABLE D-2  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Surface Soil Analytical Summary - Area B  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date Collected	Sample Depth	1,2,4-Trichloro-benzene	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	1,2-dybit(-) Chloro-propane	1,4,5-Trichloro-phenol	1,4,6-Trichloro-phenol	2,4-Dichloro-phenol	2,4-Dimethyl-phenol	2,4-Dinitro-phenol	2,4-Dinitro-toluene	2,6-Dinitro-toluene	1-Chloro-naphthalene
B52A1C01dup	02/18/00	00-02ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U
B53A1C01	02/18/00	00-02ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	3,900 U
B54A1C01	02/18/00	00-02ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
B55A1C01	03/02/00	00-02ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U
B56A1C01	02/18/00	00-02ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U
B57A1C01	03/02/00	00-02ft	3,300 U	3,300 U	3,300 U	3,300 U	3,300 U	6,800 U	3,300 U	3,300 U	3,300 U	6,800 U	3,300 U	3,300 U	3,300 U
B58A1C01	03/02/00	00-02ft	3,300 U	3,300 U	3,300 U	3,300 U	3,300 U	6,800 U	3,300 U	3,300 U	3,300 U	6,800 U	3,300 U	3,300 U	3,300 U
B59A1C01	02/18/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
B59A1C01dup	02/18/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
B60A1C01	02/18/00	00-02ft	R	R	R	R	R	R	R	R	R	R	R	R	R
B61A1C01	02/16/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
B61A1C01dup	02/17/00	00-02ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
B62A1C01	02/16/00	00-02ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
B64A1C01	02/18/00	00-02ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
B65A1C01	02/18/00	00-02ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
B66A1C01 [1]	02/18/00	00-02ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	R	R	R	R	R	R	R	3,400 U

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from dilution  
 - - - Sample not tested  
 [1] - Multiple analysis of sample conducted; result presented is the highest detected or



SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)

Surface Soil Analytical Summary - Area B

Providence Gas Company

642 Allens Avenue, Providence, Rhode Island

Sample No.	Date Collected	Sample Depth	2-Chloro-phenol	2-Methyl-naphthalene	2-Methyl-phenol	2-Nitroaniline	2-Nitrophenol	3,3-Dichloro-benzidine	3-Nitroaniline	1,4-Dinitro-2-methylbenzol	4-Bromophenyl-phenylether	4-Chloro-3-Methyl-phenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methyl-phenol
B01A1C01	01/27/00	00-02ft	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B02A1C01	01/27/00	00-02ft	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B03A1C01	01/27/00	00-02ft	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
B04A1C01	01/27/00	00-02ft	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B05A1C01	01/27/00	00-02ft	3,500 U	3,500 U	3,500 U	7,600 U	3,500 U	3,500 U	7,600 U	7,600 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
B06A1C01	01/27/00	00-02ft	3,700 U	3,700 U	3,700 U	7,100 U	3,700 U	3,700 U	7,100 U	7,100 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
B07A1C01	01/27/00	00-02ft	3,400 U	3,400 U	3,400 U	6,800 U	3,400 U	3,400 U	6,800 U	6,800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B08A1C01	01/27/00	00-02ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
B09A1C01	01/27/00	00-02ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B10A1C01	01/27/00	00-02ft	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
B11A1C01	01/27/00	00-02ft	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
B12A1C01	01/27/00	00-02ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B13A1C01	01/27/00	00-02ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B14A1C01	01/27/00	00-02ft	15,000 U	15,000 U	15,000 U	31,000 U	15,000 U	15,000 U	31,000 U	31,000 U	15,000 U	15,000 U	15,000 U	15,000 U	15,000 U
B17A1C01	01/31/00	00-02ft	3,900 U	3,900 U	3,900 U	8,000 U	3,900 U	3,900 U	8,000 U	8,000 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
B18A1C01	01/27/00	00-02ft	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	7,800 U	7,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
B19A1C01	01/27/00	00-02ft	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	7,100 U	7,100 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B20A1C01	01/27/00	00-02ft	4,200 U	4,200 U	4,200 U	8,400 U	4,200 U	4,200 U	8,400 U	8,400 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U
B21A1C01	01/31/00	00-02ft	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
B22A1C01	01/31/00	00-02ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B23A1C01	01/31/00	00-02ft	3,400 U	3,400 U	3,400 U	6,800 U	3,400 U	3,400 U	6,800 U	6,800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B24A1C01	02/01/00	00-02ft	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
B25A1C01	02/01/00	00-02ft	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
B26A1C01	02/03/00	00-02ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B27A1C01	02/22/00	00-02ft	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
B28A1C01	02/23/00	00-02ft	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
B29A1C01	01/02/00	00-02ft	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B30A1C01	01/01/00	00-02ft	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	7,000 U	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
B31A1C01	01/01/00	00-02ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B32A1C01	03/01/00	00-02ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B33A1C01	03/01/00	00-02ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B34A1C01	02/23/00	00-02ft	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	7,000 U	7,000 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B35A1C01	02/22/00	00-02ft	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	7,000 U	7,000 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B36A1C01	02/22/00	00-02ft	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	7,800 U	7,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
B37A1C01	03/02/00	00-02ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
B38A1C01	03/01/00	00-02ft	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
B39A1C01	03/01/00	00-02ft	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	7,000 U	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
B40A1C01	03/01/00	00-02ft	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
B41A1C01	03/01/00	00-02ft	3,900 U	3,900 U	3,900 U	8,000 U	3,900 U	3,900 U	8,000 U	8,000 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
B42A1C01	02/22/00	00-02ft	4,200 U	4,200 U	4,200 U	8,600 U	4,200 U	4,200 U	8,600 U	8,600 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U
B43A1C01	02/22/00	00-02ft	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
B44A1C01	02/22/00	00-02ft	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	7,100 U	7,100 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B45A1C01	02/22/00	00-02ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
B46A1C01	02/22/00	00-02ft	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	7,000 U	7,000 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B47A1C01	02/18/00	00-02ft	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	7,100 U	7,100 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B48A1C01	02/22/00	00-02ft	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
B49A1C01	02/18/00	00-02ft	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B50A1C01	03/07/00	00-02ft	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B51A1C01	02/18/00	00-02ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B52A1C01	02/18/00	00-02ft	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U

APPENDIX D  
 TABLE D-2  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Surface Soil Analytical Summary - Area B  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date Collected	Sample Depth	2-Chlorophenol	2-Methyl-naphthalene	2-Methyl-phenol	2-Nitroaniline	2-Nitro-phenol	3,3-Dichloro-benzidine	3-Nitroaniline	4,4-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-2-Methyl-phenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methyl-phenol
B51A1C01 dup	01/18/00	00-02ft	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	7,000 U	7,000 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B53A1C01	02/18/00	00-02ft	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	7,800 U	7,800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
B54A1C01	02/18/00	00-02ft	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
B55A1C01	01/02/00	00-02ft	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	7,000 U	7,000 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B56A1C01	02/18/00	00-02ft	3,800 U	840 U	3,800 U	7,800 U	3,800 U	3,800 U	7,800 U	7,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
B57A1C01	01/02/00	00-02ft	3,300 U	3,300 U	3,300 U	6,800 U	3,300 U	3,300 U	6,800 U	6,800 U	3,300 U	3,300 U	3,300 U	3,300 U	3,300 U
B58A1C01	01/02/00	00-02ft	3,300 U	3,300 U	3,300 U	6,800 U	3,300 U	3,300 U	6,800 U	6,800 U	3,300 U	3,300 U	3,300 U	3,300 U	3,300 U
B59A1C01	02/18/00	00-02ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B59A1C01 dup	02/18/00	00-02ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B60A1C01	02/18/00	00-02ft	R	R	R	R	R	R	R	R	R	R	R	R	R
B61A1C01	02/16/00	00-02ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B61A1C01 dup	02/17/00	00-02ft	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
B62A1C01	02/16/00	00-02ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B64A1C01	02/18/00	00-02ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
B65A1C01	02/18/00	00-02ft	3,600 U	9,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B66A1C01 [1]	02/18/00	00-02ft	R	3,400 U	R	7,000 U	R	3,400 U	7,000 U	R	3,400 U	R	3,400 U	R	R

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded.  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from dilution  
 \* - Sample not tested  
 [1] - Multiple analysis of sample conducted; result presented in the highest detected or



APPENDIX D  
TABLE D-2  
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Surface Soil Analytical Summary - Area B  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date Collected	Sample Depth	4-Nitroaniline	4-Nitrophenol	Acet- asphthene	Acet- naphthylene	Anthracene	Benzo(a)- anthracene	Benzo(a)- pyrene	Benzo(b)- fluoranthene	Benzo(k)- perylene	Benzo(h)- fluoranthene	Chloro(bis)- methane	Chloro(bis)(E)- lithc	Di(2- Ethylhexyl)- phthalate
B51A1C01 dup	02/18/00	00-02R	7,000 U	7,000 U	3,400 U	3,400 U	540 J	400 J	700 J	3,400 U	3,400 U	400 J	3,400 U	3,400 U	3,400 U
B53A1C01	02/18/00	00-02R	7,800 U	7,800 U	3,900 U	3,900 U	2,100 J	1,800 J	2,200 J	1,600 J	1,600 J	1,200 J	3,900 U	3,900 U	3,900 U
B54A1C01	02/18/00	00-02R	7,600 U	7,600 U	3,700 U	3,700 U	1,500 J	3,500 J	4,800 J	2,100 J	2,100 J	1,100 J	3,700 U	3,700 U	3,550 U
B55A1C01	02/02/00	00-02R	7,000 U	7,000 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B56A1C01	02/18/00	00-02R	7,800 U	7,800 U	3,400 U	3,400 U	8,700 J	6,700 J	8,600 J	3,800 J	3,800 J	3,800 J	3,800 U	3,800 U	3,800 U
B57A1C01	03/02/00	00-02R	6,800 U	6,800 U	3,300 U	3,300 U	3,300 U	800 U	3,300 U	3,300 U	3,300 U	3,300 U	3,300 U	3,300 U	3,300 U
B58A1C01	03/02/00	00-02R	6,800 U	6,800 U	3,300 U	3,300 U	3,300 U	800 U	3,300 U	3,300 U	3,300 U	3,300 U	3,300 U	3,300 U	3,300 U
B59A1C01	02/18/00	00-02R	7,300 U	7,300 U	3,600 U	3,600 U	990 J	830 J	1,100 J	3,600 U	3,600 U	550 J	3,600 U	3,600 U	3,600 U
B59A1C01 dup	02/18/00	00-02R	7,300 U	7,300 U	3,600 U	3,600 U	1,400 J	1,300 J	1,600 J	3,600 U	3,600 U	920 J	3,600 U	3,600 U	3,600 U
B60A1C01	02/18/00	00-02R	R	R	R	R	R	R	R	R	R	R	R	R	R
B61A1C01	02/16/00	00-02R	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B61A1C01 dup	02/17/00	00-02R	7,100 U	7,100 U	3,500 U	3,500 U	880 J	520 J	970 J	3,500 U	3,500 U	400 J	3,500 U	3,500 U	3,500 U
B62A1C01	02/16/00	00-02R	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B64A1C01	02/18/00	00-02R	7,500 U	7,500 U	3,700 U	3,700 U	440 J	1,900 J	2,900 J	1,700 J	1,700 J	1,300 J	3,700 U	3,700 U	3,700 U
B65A1C01	02/18/00	00-02R	7,200 U	7,200 U	14,000 U	680 J	23,000 J	20,000 J	23,000 J	10,000 J	10,000 J	6,400 J	3,600 U	3,600 U	3,600 U
B66A1C01 [1]	02/18/00	00-02R	7,000 U	7,000 U	3,400 U	3,400 U	1,100 J	960 J	1,300 J	700 J	700 J	500 J	3,400 U	3,400 U	3,400 U

**Notes:**

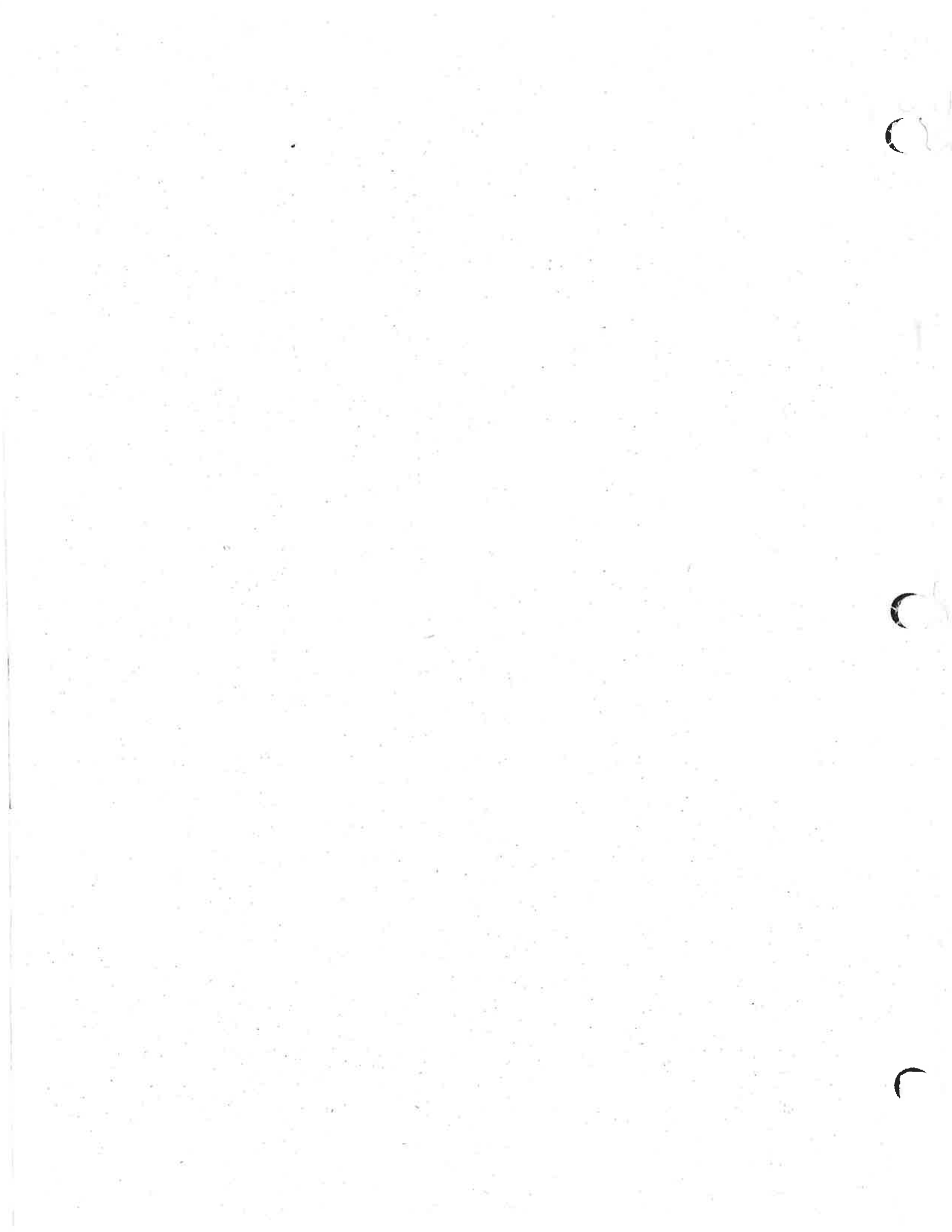
- All results in micrograms per kilogram (µg/kg)
- U - Compound not detected above method reporting limit presented
- J - Estimated concentration
- E - Estimated concentration; calibration range exceeded.
- R - Data rejected due to QC violation
- D - Analyte concentration obtained from dilution.
- Sample not tested.
- [1] - Multiple analytical sites of sample conducted; result presented is the highest detected or

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# Appendix I – ESS Subsurface Soil Data



AP 10  
X E  
E-1

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area A  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,2-dicyclohexylchloropropane	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
Locations within 100 ft of Shore															
A01C1CO1	02/03/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U
A02C1CO1	03/01/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,900 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
A03E1CO1	01/02/00	08-10ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
A04C1CO1	03/02/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U
A05D1CO1	03/02/00	06-08ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
A06D1CO1	03/03/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
A07D1CO1	03/03/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
A08D1CO1	03/03/00	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,400 U	3,700 U	3,700 U	3,700 U	7,400 U	3,700 U	3,700 U	3,700 U
A09E1CO1	02/04/00	08-10ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
A10B1CO1	02/04/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
A11D1CO1	02/04/00	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
A12E1CO1	02/03/00	08-10ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
A13E1CO1	03/03/00	08-10ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
A14C1CO1	02/03/00	04-06ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	4,000 U
A15B1CO1	02/03/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U
A15B1CO1 dup	02/03/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
A16D1CO1	02/03/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U
A17B1CO1	02/03/00	03-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
A18C1CO1	02/03/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
A19D1CO1	02/04/00	06-08ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	3,900 U
A20E1CO1	02/04/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
A22C1CO1 (1)	02/08/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	440	7,500 U	3,700 U	3,700 U	3,700 U
A24D1CO1	02/09/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
A25D1CO1	02/08/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
A26D1CO1	02/08/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
A27C1CO1	02/08/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
A27C1CO1 dup	02/08/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
A71C1CO1	02/25/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
A72E1CO1	02/25/00	08-10ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U
A73E1CO1	02/25/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
A74E1CO1	02/25/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U
Locations greater than 100 ft of shore															
A28C1CO1	02/08/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
A29D1CO1	02/09/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
A30E1CO1	02/09/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U
A31D1CO1	02/08/00	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
A32E1CO1	02/09/00	08-10ft	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	8,100 U	4,200 U	4,200 U	4,200 U	8,100 U	4,200 U	4,200 U	4,200 U
A33C1CO1	02/09/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
A34C1CO1	02/08/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
A35C1CO1	02/08/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
A36E1CO1	02/08/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U
A37C1CO1	02/17/00	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
A38E1CO1	02/09/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
A40F1CO1	02/08/00	10-12ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
A42E1CO1	02/09/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
A43C1CO1	02/17/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
A44C1CO1	02/17/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
A44C1CO1 dup	02/17/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U

APPENDIX E  
 TABLE E-1  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Subsurface Soil Analytical Summary - Area A  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,2-dicyclo(1-Chloropropane)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	1,4-Dinitrotoluene	2,6-Dinitrotoluene	1-Chloronaphthalene
A45E1C01	02/09/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
A46E1C01	02/10/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U
A47G1C01	02/09/00	12-14ft	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U
A48C1C01	02/09/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
A49G1C01	02/17/00	12-14ft	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U
A50E1C01	02/09/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U
A51D1C01	02/23/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
A52D1C01	02/09/00	06-08ft	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U
A53D1C01	02/09/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U
A54E1C01	02/10/00	08-10ft	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
A55D1C01	02/09/00	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
A55D1C01 dup	02/09/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
A56C1C01	02/09/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
A57E1C01	02/23/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U
A58C1C01	02/29/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U
A59C1C01	02/29/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U
A60G1C01	02/29/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
A61C1C01	02/29/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
A62D1C01 [1]	02/25/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
A61B1C01	02/29/00	02-04ft	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
A64C1C01	02/29/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
A64FC1C01 dup	02/29/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
A65C1C01	02/29/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
A66D1C01	02/29/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
A67C1C01	02/25/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U
A68E1C01	02/25/00	08-10ft	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U
A69D1C01	02/25/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
A78C1C02	02/08/00	04-06ft	3,679 U	3,679 U	3,679 U	3,679 U	7,478 U	3,679 U	3,679 U	3,679 U	3,679 U	7,478 U	3,679 U	3,679 U	3,679 U

Notes:  
 All results in micrograms per kilogram (µg/kg)

- U - Compound not detected above method reporting limit presented
- E - Estimated concentration; calibration range exceeded
- R - Data rejected due to QC violation
- D - Analyte concentration obtained from dilution
- \* - Sample not tested
- [1] - Multiple analysis of sample conducted, result presented is the highest detected or lowest quantitation limit for constituent



IX E  
TABLE E-1

**SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)**  
Subsurface Soil Analytical Summary - Area A  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	2-Chloro-phenol	2-Methyl-naphthalene	2-Methyl-phenol	2-Nitroaniline	2-Nitrophenol	3,3-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-Methyl-phenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methyl-phenol
<b>Locations within 100 ft of Shore</b>															
A01C1C01	02/03/00	04-06ft	1,800 U	1,800 U	1,800 U	7,800 U	3,800 U	1,800 U	7,800 U	7,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
A02C1C01	02/03/00	04-06ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A03E1C01	03/02/00	08-10ft	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
A04C1C01	03/02/00	04-06ft	1,600 U	1,600 U	1,600 U	7,100 U	1,600 U	1,600 U	7,100 U	7,100 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
A05D1C01	03/02/00	06-08ft	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
A06D1C01	03/03/00	06-08ft	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A07D1C01	03/03/00	06-08ft	1,600 U	1,600 U	1,600 U	7,400 U	1,600 U	1,600 U	7,400 U	7,400 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
A08D1C01	03/03/00	06-08ft	29,000 U	29,000 U	29,000 U	7,400 U	3,700 U	3,700 U	7,400 U	7,400 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A09E1C01	02/04/00	08-10ft	14,000 U	14,000 U	14,000 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A10D1C01	02/04/00	06-08ft	1,600 U	1,600 U	1,600 U	7,400 U	1,600 U	1,600 U	7,400 U	7,400 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
A11D1C01	03/04/00	06-08ft	1,700 U	1,700 U	1,700 U	7,500 U	1,700 U	1,700 U	7,500 U	7,500 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
A12E1C01	03/03/00	08-10ft	1,600 U	1,600 U	1,600 U	7,400 U	1,600 U	1,600 U	7,400 U	7,400 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
A13E1C01	03/03/00	08-10ft	1,600 U	1,600 U	1,600 U	7,400 U	1,600 U	1,600 U	7,400 U	7,400 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
A14C1C01	02/03/00	04-06ft	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	8,100 U	8,100 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
A15B1C01	02/03/00	02-04ft	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	7,000 U	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A15B1C01.dup	02/03/00	02-04ft	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A16D1C01	02/03/00	06-08ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A17B1C01	02/03/00	02-04ft	1,700 U	1,700 U	1,700 U	7,500 U	1,700 U	1,700 U	7,500 U	7,500 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
A18C1C01	02/03/00	04-06ft	1,600 U	1,600 U	1,600 U	7,400 U	1,600 U	1,600 U	7,400 U	7,400 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
A19D1C01	02/04/00	06-08ft	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	7,800 U	7,800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
A20C1C01	02/08/00	04-06ft	1,800 U	1,800 U	1,800 U	7,700 U	1,800 U	1,800 U	7,700 U	7,700 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
A23C1C01 (1)	02/08/00	04-06ft	1,700 U	1,700 U	1,700 U	7,500 U	1,700 U	1,700 U	7,500 U	7,500 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
A24D1C01	02/09/00	06-08ft	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A25D1C01	02/08/00	06-08ft	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	7,100 U	7,100 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A26D1C01	02/08/00	06-08ft	1,800 U	1,800 U	1,800 U	7,700 U	1,800 U	1,800 U	7,700 U	7,700 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
A27C1C01	02/08/00	04-06ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A27C1C01.dup	02/08/00	04-06ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A71C1C01	02/15/00	04-06ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A72E1C01	02/15/00	08-10ft	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	7,800 U	7,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A73D1C01	02/15/00	06-08ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A74E1C01	02/15/00	08-10ft	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U

<b>Locations greater than 100 ft of shore</b>															
Sample No.	Date	Depth	2-Chloro-phenol	2-Methyl-naphthalene	2-Methyl-phenol	2-Nitroaniline	2-Nitrophenol	3,3-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-Methyl-phenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methyl-phenol
A28C1C01	02/08/00	04-06ft	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	7,100 U	7,100 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A29D1C01	02/09/00	06-08ft	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A30E1C01	02/09/00	08-10ft	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A31D1C01	02/08/00	06-08ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A32E1C01	02/09/00	08-10ft	3,700 U	3,700 U	3,700 U	8,400 U	3,700 U	3,700 U	8,400 U	8,400 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A33C1C01	02/08/00	04-06ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A34C1C01	02/08/00	04-06ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A35C1C01	02/08/00	04-06ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A36E1C01	02/08/00	08-10ft	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	7,000 U	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A37C1C01	02/17/00	04-06ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A38E1C01	02/09/00	08-10ft	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A40F1C01	02/08/00	10-12ft	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	7,000 U	7,000 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A42E1C01	02/09/00	08-10ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A43C1C01	02/17/00	04-06ft	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A44C1C01	02/17/00	04-06ft	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A44C1C01.dup	02/17/00	04-06ft	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U

APPENDIX E  
TABLE E-1  
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area A  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	2-Chloro-phenol	2-Methyl-naphthalene	2-Methyl-phenol	2-Nitroaniline	2-Nitrophenol	3,3-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-Methyl-phenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methyl-phenol
A15E1C01	02/09/00	08-10ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A45E1C01	02/10/00	03-10ft	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	7,000 U	7,000 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A47G1C01	02/09/00	12-14ft	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A48C1C01	02/09/00	04-06ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A49G1C01	02/17/00	12-14ft	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	7,000 U	7,000 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A50E1C01	02/23/00	08-10ft	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	7,000 U	7,000 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A51D1C01	02/23/00	06-08ft	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A52D1C01	02/09/00	06-08ft	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	7,000 U	7,000 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A53D1C01	02/09/00	06-08ft	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A54E1C01	02/10/00	08-10ft	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A55D1C01	02/09/00	06-08ft	3,700 U	3,700 U	3,700 U	7,400 U	3,700 U	3,700 U	7,400 U	7,400 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A55D1C01dup	02/09/00	06-08ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A56C1C01	02/09/00	04-06ft	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A57E1C01	02/21/00	08-10ft	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A58C1C01	02/29/00	04-06ft	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	7,000 U	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A59C1C01	02/29/00	04-06ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A60C1C01	02/29/00	04-06ft	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A61C1C01	02/29/00	04-06ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A62D1C01 [1]	02/23/00	06-08ft	3,800 U	150,000 D	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A63B1C01	02/29/00	02-04ft	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
A64C1C01	02/29/00	04-06ft	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A64C1C01dup	02/29/00	04-06ft	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A65C1C01	02/29/00	04-06ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A66D1C01	02/29/00	06-08ft	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A67C1C01	02/23/00	04-06ft	3,800 U	5,000 U	3,800 U	7,800 U	3,800 U	3,800 U	7,800 U	7,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A68E1C01	02/25/00	08-10ft	3,600 U	3,000 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A69D1C01	02/25/00	06-08ft	3,800 U	2,700 U	3,800 U	7,600 U	3,800 U	3,800 U	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A28C1C02	02/08/00	04-06ft	3,679 U	13,293 U	3,679 U	7,478 U	3,679 U	3,679 U	7,478 U	7,478 U	3,679 U	3,679 U	3,679 U	3,679 U	3,679 U

Notes:  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above  
 D - Multiple reporting limit presented  
 E - Estimated concentration  
 E - Estimated concentration; calibration range excluded.  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from dilution.  
 -- Sample not issued.  
 [1] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area A  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benz(a)pyrene	Benz(b)fluoranthene	Benz(g,h,i)perylene	Benzo(k)fluoranthene	bis(2-Chloroethyl)ether	bis(2-Chloroethyl)methane	bis(2-Ethylhexyl)phthalate
Locations within 100 ft of Shore															
A01C1C01	02/03/00	04-06ft	7,800	7,800	3,800	3,800	3,800	500	800	640	3,800	3,800	3,800	3,800	3,800
A02C1C01	02/03/00	04-06ft	7,500	7,500	3,700	3,700	2,600	5,900	3,600	6,100	1,200	2,300	3,700	3,700	3,700
A03C1C01	03/02/00	08-10ft	7,900	7,900	3,900	3,900	3,900	3,900	800	3,900	3,900	3,900	3,900	3,900	3,900
A04C1C01	03/02/00	04-06ft	7,100	7,100	3,600	3,600	3,600	3,600	800	400	3,600	3,600	3,600	3,600	3,600
A05D1C01	03/02/00	06-08ft	7,900	7,900	3,900	3,900	3,900	3,900	800	3,900	3,900	3,900	3,900	3,900	3,900
A06D1C01	03/03/00	06-08ft	7,700	7,700	3,800	3,800	3,800	3,800	800	3,800	3,800	3,800	3,800	3,800	3,800
A07D1C01	03/03/00	06-08ft	7,400	7,400	3,600	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600
A08D1C01	03/03/00	06-08ft	7,400	7,400	3,400	3,400	3,400	3,400	910	880	3,400	3,400	3,400	3,400	3,400
A09E1C01	02/04/00	08-10ft	7,500	7,500	44,000	3,700	20,000	11,000	8,600	7,500	3,500	3,200	3,700	3,700	3,700
A10D1C01	02/04/00	06-08ft	7,400	7,400	3,600	3,70	560	1,100	1,100	1,500	3,600	3,600	3,600	3,600	3,600
A11D1C01	02/04/00	06-08ft	7,500	7,500	860	1,300	4,100	6,700	4,600	5,900	2,000	2,400	3,700	3,700	3,700
A12E1C01	03/03/00	08-10ft	7,400	7,400	3,600	3,600	3,600	2,000	1,400	1,500	560	520	3,600	3,600	3,600
A13E1C01	03/03/00	08-10ft	7,200	7,200	3,100	3,600	1,900	870	520	650	3,600	3,600	3,600	3,600	3,600
A14C1C01	02/03/00	04-06ft	8,100	8,100	4,000	4,000	4,000	4,000	800	4,000	4,000	4,000	4,000	4,000	4,000
A15B1C01	02/03/00	02-04ft	7,000	7,000	3,500	510	880	820	630	740	3,500	3,500	3,500	3,500	3,500
A15B1C01 dup	02/03/00	02-04ft	7,100	7,100	1,400	1,700	1,000	810	580	700	3,500	3,500	3,500	3,500	3,500
A16D1C01	02/03/00	06-08ft	7,300	7,300	3,600	710	1,200	1,400	1,000	1,100	3,600	3,600	3,600	3,600	3,600
A17B1C01	02/03/00	02-04ft	7,500	7,500	3,700	850	1,900	2,600	2,200	2,700	1,100	1,000	3,700	3,700	3,700
A18C1C01	02/03/00	04-06ft	7,400	7,400	3,600	3,600	3,600	460	460	660	3,600	3,600	3,600	3,600	3,600
A19D1C01	02/04/00	06-08ft	7,800	7,800	3,900	3,900	3,900	3,900	800	3,900	3,900	3,900	3,900	3,900	3,900
A22C1C01	02/08/00	04-06ft	7,700	7,700	3,700	41,000	3,800	3,800	800	3,800	3,800	3,800	3,800	3,800	3,800
A23C1C01 (1)	02/08/00	04-06ft	7,500	7,500	3,700	50,000	68,000	55,000	72,000	72,000	16,000	25,000	3,700	3,700	3,700
A34D1C01	02/09/00	06-08ft	7,700	7,700	3,800	3,800	460	1,800	800	3,800	3,800	3,800	3,800	3,800	3,800
A35D1C01	02/08/00	06-08ft	7,300	7,300	3,600	3,600	1,100	1,100	1,400	1,700	620	700	3,600	3,600	3,600
A26D1C01	02/08/00	06-08ft	7,700	7,700	3,700	3,700	4,700	5,700	4,400	5,600	1,700	2,100	3,600	3,600	3,600
A37C1C01	02/08/00	04-06ft	7,200	7,200	3,600	510	1,800	8,200	8,800	11,000	4,400	4,000	3,600	3,600	3,600
A37C1C01 dup	02/08/00	04-06ft	7,500	7,500	3,700	3,700	3,700	870	920	1,200	640	440	3,700	3,700	3,700
A71C1C01	02/25/00	04-06ft	7,500	7,500	1,200	1,800	2,000	6,500	6,100	7,400	2,900	1,900	3,700	3,700	3,700
A72E1C01	02/25/00	08-10ft	7,800	7,800	16,000	3,100	14,000	19,000	15,000	17,000	7,400	6,400	3,800	3,800	3,800
A73D1C01	02/25/00	06-08ft	7,200	7,200	1,100	1,400	1,700	3,200	3,100	3,900	2,000	1,200	3,600	3,600	3,600
A74E1C01	02/25/00	08-10ft	7,200	7,200	3,500	850	2,700	5,000	4,900	5,600	2,600	2,600	3,500	3,500	3,500
Locations greater than 100 ft of shore															
A28C1C01	02/03/00	04-06ft	7,300	7,300	3,600	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600
A29D1C01	02/09/00	06-08ft	7,700	7,700	3,800	3,800	3,800	3,800	800	3,800	3,800	3,800	3,800	3,800	3,800
A30E1C01	02/09/00	08-10ft	7,300	7,300	3,500	3,500	3,500	3,500	800	3,500	3,500	3,500	3,500	3,500	3,500
A31D1C01	02/08/00	06-08ft	7,500	7,500	3,700	3,700	3,700	3,700	800	3,700	3,700	3,700	3,700	3,700	3,700
A32E1C01	02/09/00	08-10ft	8,400	8,400	4,200	1,500	3,600	6,800	6,400	7,600	2,900	3,100	3,700	3,700	3,700
A33C1C01	02/08/00	04-06ft	7,500	7,500	3,700	3,700	3,700	3,700	800	3,700	3,700	3,700	3,700	3,700	3,700
A34C1C01	02/08/00	04-06ft	7,200	7,200	3,600	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600
A35C1C01	02/08/00	04-06ft	7,200	7,200	3,600	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600
A36E1C01	02/08/00	08-10ft	7,000	7,000	3,500	3,500	3,500	3,500	450	510	3,500	3,500	3,500	3,500	3,500
A37C1C01	02/17/00	04-06ft	6,900	6,900	3,400	3,400	3,400	3,400	800	3,400	3,400	3,400	3,400	3,400	3,400
A38E1C01	02/09/00	08-10ft	7,100	7,100	3,500	3,500	3,500	3,500	800	3,500	3,500	3,500	3,500	3,500	3,500
A40F1C01	02/08/00	10-12ft	7,000	7,000	3,400	3,400	3,400	3,400	800	3,400	3,400	3,400	3,400	3,400	3,400
A42E1C01	02/09/00	08-10ft	6,900	6,900	3,400	3,400	3,400	3,400	1,200	1,600	3,400	3,400	3,400	3,400	3,400
A43C1C01	02/17/00	04-06ft	7,100	7,100	3,500	3,500	3,500	3,500	800	3,500	3,500	3,500	3,500	3,500	3,500
A44C1C01	02/17/00	04-06ft	7,100	7,100	3,500	3,500	3,500	3,500	680	1,000	3,500	3,500	3,500	3,500	3,500
A44C1C01 dup	02/17/00	04-06ft	7,100	7,100	3,500	3,500	3,500	3,500	800	3,60	3,500	3,500	3,500	3,500	3,500

APPENDIX E  
TABLE E-1  
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area A  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	4-Nitroaniline	4-Nitrophenol	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bit(2-Chloroethoxy)methane	bit(2-Chloroethoxy)ether	bit(2-Ethylhexyl)phthalate
A45E1C01	02/09/00	08-10ft	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A45E1C01	02/10/00	03-10ft	7,000 U	7,000 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A47G1C01	02/09/00	12-14ft	7,200 U	7,200 U	3,500 U	380 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A48C1C01	02/09/00	04-06ft	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A49G1C01	02/17/00	12-14ft	7,000 U	7,000 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A50E1C01	02/23/00	08-10ft	7,000 U	7,000 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A51D1C01	02/23/00	06-08ft	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A52D1C01	02/09/00	06-08ft	7,000 U	7,000 U	3,400 U	480 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A53D1C01	02/09/00	06-08ft	7,700 U	7,700 U	3,800 U	690 U	3,400 U	490 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A54E1C01	02/10/00	08-10ft	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A55D1C01	02/09/00	06-08ft	7,200 U	7,200 U	3,600 U	430 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A56C1C01	02/09/00	04-06ft	7,600 U	7,600 U	3,800 U	2,400 U	3,200 U	4,400 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U
A57E1C01	02/23/00	08-10ft	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A58C1C01	02/29/00	04-06ft	7,000 U	7,000 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A59C1C01	02/29/00	04-06ft	7,100 U	7,100 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A60C1C01	02/29/00	04-06ft	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A61C1C01	02/29/00	04-06ft	7,100 U	7,100 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A62D1C01 [1]	02/23/00	06-08ft	7,700 U	7,700 U	36,000 D	36,000 D	19,000 D	18,000 D	15,000 D	15,000 D	5,600 D	3,800 U	3,800 U	3,800 U
A63D1C01	02/29/00	02-04ft	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
A64C1C01	02/29/00	04-06ft	7,600 U	7,600 U	3,800 U	400 U	3,800 U	860 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A64C1C01dup	02/29/00	04-06ft	7,600 U	7,600 U	3,700 U	3,700 U	420 U	450 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A65C1C01	02/29/00	04-06ft	7,500 U	7,500 U	3,700 U	3,700 U	630 U	680 U	3,940 U	3,940 U	3,600 U	3,700 U	3,700 U	3,700 U
A66D1C01	02/29/00	06-08ft	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A67C1C01	02/23/00	04-06ft	7,800 U	7,800 U	3,800 U	3,800 U	9,000 U	8,900 U	11,000 U	4,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A68E1C01	02/25/00	08-10ft	7,300 U	7,300 U	3,800 U	4,200 U	9,400 U	8,300 U	11,000 U	4,100 U	4,400 U	3,600 U	3,600 U	3,600 U
A69D1C01	02/25/00	06-08ft	7,600 U	7,600 U	3,900 U	3,900 U	6,400 U	6,200 U	7,700 U	3,500 U	3,300 U	3,800 U	3,800 U	3,800 U
A28C1C02	02/08/00	04-06ft	7,478 U	7,478 U	3,079 U	4,477 U	5,127 U	3,893 U	5,183 U	3,774 U	3,943 U	3,679 U	3,679 U	3,411 U

Notes:  
All results in micrograms per kilogram (µg/kg)

U - Compound not detected above method reporting limit presented

J - Estimated concentration

E - Estimated concentration; calibration range exceeded

R - Data rejected due to QC violation

D - Analytic concentration obtained from dilution

"-" Sample not tested

[1] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.

AT IX E  
TABLE E-1

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area A  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	Butylbenzyl- phthalate	Carbazole	Chrysene	Di-n-butyl- phthalate	Di-n-octyl- phthalate	Dibenz(a,b)- anthracene	Dibenzofuran	Diallyl- phthalate	Dimethyl- phthalate	Fluoranthene	Fluorene	Hexachloro- benzene	Hexachloro- bicyclopentadiene
<b>Locations within 100 ft of Shore</b>															
A01C1C01	02/03/00	04-06ft	3,800 U	3,800 U	540 J	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	570 J	3,800 U	3,800 U	3,800 U
A02C1C01	02/03/00	04-06ft	3,700 U	2,000 J	6,100 J	3,700 U	3,700 U	800 U	420 J	3,700 U	3,700 U	16,000 U	1,200 J	3,700 U	3,700 U
A03E1C01	03/02/00	08-10ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	560 J	3,900 U	3,900 U	3,900 U
A04C1C01	03/02/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	370 J	3,600 U	3,600 U	3,600 U
A05D1C01	03/02/00	06-08ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
A06D1C01	03/03/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A07D1C01	03/03/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A08D1C01	03/03/00	06-08ft	3,700 U	3,700 U	990 J	3,700 U	3,700 U	800 U	1,300 J	3,700 U	3,700 U	1,800 J	3,100 J	3,700 U	3,700 U
A09E1C01	02/04/00	08-10ft	3,700 U	3,700 U	9,100 U	3,700 U	3,700 U	1,100 J	14,000 U	3,700 U	3,700 U	26,000 U	32,000 U	3,700 U	3,700 U
A10D1C01	02/04/00	06-08ft	3,600 U	3,600 U	1,100 J	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	2,000 J	3,600 U	3,600 U	3,600 U
A11D1C01	02/04/00	06-08ft	3,700 U	750 J	5,500 J	3,700 U	3,700 U	800 U	920 J	3,700 U	3,700 U	14,000 U	2,200 J	3,700 U	3,700 U
A12E1C01	03/03/00	08-10ft	3,600 U	3,600 U	1,700 J	3,600 U	3,600 U	800 U	9,500 U	3,600 U	3,600 U	4,400 U	14,000 U	3,600 U	3,600 U
A13E1C01	03/03/00	08-10ft	3,600 U	3,600 U	740 J	3,600 U	3,600 U	800 U	2,400 J	3,600 U	3,600 U	1,800 J	3,600 U	3,600 U	3,600 U
A14C1C01	02/03/00	04-06ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	800 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
A15B1C01	02/03/00	02-04ft	3,500 U	3,500 U	790 J	3,500 U	3,500 U	800 U	690 J	3,500 U	3,500 U	1,400 J	3,500 U	3,500 U	3,500 U
A15B1C01 dup	02/03/00	02-04ft	3,500 U	3,500 U	800 J	3,500 U	3,500 U	800 U	780 J	3,500 U	3,500 U	1,400 J	3,500 U	3,500 U	3,500 U
A16D1C01	02/03/00	06-08ft	3,600 U	470 J	1,100 J	3,600 U	3,600 U	800 U	550 J	3,600 U	3,600 U	2,600 J	850 J	3,600 U	3,600 U
A17B1C01	02/03/00	02-04ft	3,700 U	470 J	2,300 J	3,700 U	3,700 U	800 U	550 J	3,700 U	3,700 U	6,100 J	1,200 J	3,700 U	3,700 U
A18C1C01	04-06ft	04-06ft	3,600 U	3,600 U	520 J	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	810 J	1,600 U	3,600 U	3,600 U
A19D1C01	02/04/00	06-08ft	3,900 U	3,900 U	1,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
A22C1C01	02/08/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A23D1C01	02/08/00	06-08ft	3,800 U	3,800 U	57,000 U	3,700 U	3,700 U	5,100 U	24,000 U	3,700 U	3,700 U	110,000 E	31,000 U	3,700 U	3,700 U
A26D1C01	02/08/00	06-08ft	3,600 U	1,400 J	1,600 J	3,600 U	3,600 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A27C1C01	02/08/00	04-06ft	3,600 U	3,900 U	4,600 U	3,800 U	3,800 U	420 J	570 J	3,600 U	3,600 U	4,900 U	3,100 J	3,600 U	3,600 U
A27C1C01 dup	02/08/00	04-06ft	3,600 U	2,200 J	7,900 J	3,600 U	3,600 U	1,100 J	470 J	3,600 U	3,600 U	12,000 U	3,100 J	3,600 U	3,600 U
A71C1C01	02/25/00	04-06ft	3,700 U	3,700 U	1,100 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	1,500 J	3,700 U	3,700 U	3,700 U
A72E1C01	02/25/00	08-10ft	3,800 U	3,800 U	16,000 U	3,700 U	3,700 U	700 U	430 J	3,700 U	3,700 U	12,000 U	1,400 J	3,700 U	3,700 U
A71D1C01	02/25/00	06-08ft	3,600 U	3,600 U	3,100 J	3,600 U	3,600 U	520 J	6,300 U	3,800 U	3,800 U	31,000 U	17,000 U	3,800 U	3,800 U
A74E1C01	02/25/00	08-10ft	3,500 U	710 J	4,300 U	3,500 U	3,500 U	680 J	1,500 J	3,500 U	3,500 U	6,000 U	1,900 J	3,500 U	3,500 U
<b>Locations greater than 100 ft of shore</b>															
A28C1C01	02/08/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A29D1C01	02/09/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A30E1C01	02/09/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	380 J	3,500 U	3,500 U	3,500 U
A31D1C01	02/08/00	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A32E1C01	02/09/00	08-10ft	4,200 U	3,700 U	5,700 U	4,200 U	4,200 U	950 J	1,300 J	4,200 U	4,200 U	12,000 U	1,800 J	4,200 U	4,200 U
A33C1C01	02/08/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A34C1C01	02/08/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A35C1C01	02/08/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A36E1C01	02/08/00	08-10ft	3,500 U	3,500 U	570 J	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	1,600 U	3,500 U	3,500 U	3,500 U
A37C1C01	02/17/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A38E1C01	02/09/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	1,000 J	3,500 U	3,500 U	3,500 U
A40F1C01	02/08/00	10-12ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,500 U	3,500 U	3,500 U	3,500 U
A42E1C01	02/09/00	08-10ft	3,400 U	3,400 U	1,400 J	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	460 J	3,400 U	3,400 U
A43C1C01	02/17/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A44C1C01	02/17/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	1,900 J	3,500 U	3,500 U	3,500 U
A44C1C01 dup	02/17/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	670 J	3,500 U	3,500 U	3,500 U

APPENDIX E  
 TABLE E-1  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Subsurface Soil Analytical Summary - Area A  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	Butylbenzyl- phthalate	Carbazole	Chrysene	Di-n-butyl- phthalate	Di-n-octyl- phthalate	Dibenz(a,h)- anthracene	Dibenzofuran	Diethyl- phthalate	Dimethyl- phthalate	Fluoranthene	Fluorene	Hexachloro- benzene	Hexachloro- butadiene
A45E1C01	02/09/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A45E1C01	02/10/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A47G1C01	02/09/00	12-14ft	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A48C1C01	02/09/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A49G1C01	02/17/00	12-14ft	3,400 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A50E1C01	02/23/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A51D1C01	02/23/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A52D1C01	02/09/00	06-08ft	3,400 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
A53D1C01	02/09/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A54E1C01	02/10/00	08-10ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A55D1C01	02/09/00	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A55D1C01 dup	02/09/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A56C1C01	02/09/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	590 J	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A57E1C01	02/23/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A58C1C01	02/29/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
A59C1C01	02/29/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A60C1C01	02/29/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A61C1C01	02/29/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A62D1C01 (I)	02/25/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	1,400 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A63B1C01	02/29/00	02-04ft	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
A64C1C01	02/29/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A64C1C01 dup	02/29/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A65C1C01	02/29/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
A66D1C01	02/29/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A67C1C01	02/25/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	1,300 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A68E1C01	02/25/00	08-10ft	3,600 U	3,600 U	3,600 U	3,600 U	1,100 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
A69D1C01	02/25/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	890 J	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
A78C1C02	02/08/00	04-06ft	3,679 U	2,769 U	4,632 U	3,679 U	1,034 U	3,679 U	3,666 U	3,679 U	3,679 U	7,769 U	6,131 U	3,679 U	3,679 U

Notes:  
 All results in micrograms per kilogram (ug/kg)  
 U - Compound not detected above  
 method reporting limit presented

J - Estimated concentration  
 E - Estimated concentration; calibration range  
 exceeded

R - Data rejected due to QC violation

D - Analyte concentration obtained from dilution

-- Sample not tested

(I) - Multiple analysis of sample conducted;  
 result presented is the highest detected or  
 or lowest quantitation limit for constituent.

SEMI-VOLATILE ORGANIC COMPOUNDS (SYOCs)  
 Subsurface Soil Analytical Summary - Area A  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	Hexachloro-cyclopentadiene	Hexachloroethane	Indene(1,2,3-cd) pyrene	Isophorone	N-Nitroso-di-n-propylamine	N-Nitroso-diphenylamine	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
Locations within 100 ft. of Shore														
A01C1C01	02/03/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	390 J	3,800 U	730 J
A02C1C01	02/03/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,400 U	12,000 U	3,700 U	12,000 U
A03E1C01	02/02/00	08-10ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	560 J	3,900 U	600 J
A04C1C01	02/02/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	420 J
A05D1C01	02/02/00	06-08ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
A06D1C01	02/03/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
A07D1C01	02/03/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
A08D1C01	02/03/00	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,400 U	5,300 U	3,700 U	3,900 U
A09E1C01	02/04/00	08-10ft	3,700 U	3,700 U	3,500 J	3,700 U	3,700 U	3,700 U	2,700 J	3,700 U	7,500 U	74,000 E	3,700 U	38,000 U
A10D1C01	02/04/00	06-08ft	3,600 U	3,600 U	800 J	3,600 U	3,600 U	3,600 U	440 J	3,600 U	7,400 U	1,900 J	3,600 U	1,800 U
A11D1C01	02/04/00	06-08ft	3,700 U	3,700 U	2,500 J	3,700 U	3,700 U	3,700 U	1,600 J	3,700 U	7,500 U	12,000 U	3,700 U	12,000 U
A12E1C01	02/02/00	08-10ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	38,000 U	3,600 U	7,400 U	27,000 U	3,600 U	6,500 U
A13E1C01	02/03/00	08-10ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	8,000 U	3,600 U	2,600 U
A14C1C01	02/03/00	04-06ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	4,000 U
A15D1C01	02/03/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	1,700 J	3,500 U	7,000 U	4,100 U	3,500 U	2,200 J
A15R1C01 dup	02/03/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	1,700 J	3,500 U	7,100 U	4,100 U	3,500 U	2,200 J
A16D1C01	02/03/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	1,400 J	3,600 U	7,300 U	3,500 J	3,600 U	2,200 J
A17B1C01	02/02/00	02-04ft	3,700 U	3,700 U	3,100 J	3,700 U	3,700 U	3,700 U	430 J	3,700 U	7,500 U	6,300 U	3,700 U	4,800 U
A18C1C01	02/02/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	740 J	3,600 U	850 J
A19D1C01	02/04/00	06-08ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	3,900 U
A22C1C01	02/08/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
A23C1C01 [1]	02/08/00	04-06ft	3,700 U	3,700 U	21,000 U	3,700 U	3,700 U	3,700 U	12,000 U	3,700 U	7,500 U	140,000 E	3,700 U	110,000 E
A24D1C01	02/09/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	1,900 U	3,800 U	3,800 U
A25D1C01	02/08/00	06-08ft	3,600 U	3,600 U	730 J	3,600 U	3,600 U	3,600 U	410 J	3,600 U	7,100 U	5,600 U	3,600 U	3,600 U
A26D1C01	02/08/00	06-08ft	3,800 U	3,800 U	2,000 J	3,800 U	3,800 U	3,800 U	3,700 J	3,800 U	7,700 U	16,000 U	3,800 U	9,900 U
A27C1C01	02/08/00	04-06ft	3,600 U	3,600 U	5,100 U	3,600 U	3,600 U	3,600 U	530 J	3,600 U	7,300 U	7,000 U	3,600 U	10,000 U
A27C1C01 dup	02/08/00	04-06ft	3,700 U	3,700 U	690 J	3,700 U	3,700 U	3,700 U	640 J	3,700 U	7,500 U	1,600 J	3,700 U	1,200 U
A71C1C01	02/23/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	910 J	3,700 U	7,500 U	4,000 U	3,700 U	14,000 U
A72E1C01	02/23/00	08-10ft	3,800 U	3,800 U	8,600 U	3,800 U	3,800 U	3,800 U	11,000 U	3,800 U	7,800 U	51,000 U	3,800 U	41,000 U
A73D1C01	02/23/00	06-08ft	3,600 U	3,600 U	2,100 J	3,600 U	3,600 U	3,600 U	3,000 J	3,600 U	7,200 U	7,300 U	3,600 U	6,900 U
A74E1C01	02/23/00	08-10ft	3,500 U	3,500 U	3,200 J	3,500 U	3,500 U	3,500 U	8,500 U	3,500 U	7,200 U	12,000 U	3,500 U	9,100 U
Locations greater than 100 ft. of shore														
A28C1C01	02/08/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
A29D1C01	02/09/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	1,100 J	3,800 U	3,800 U
A30E1C01	02/09/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	1,600 J	3,500 U	400 J
A31D1C01	02/08/00	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
A32E1C01	02/09/00	08-10ft	4,200 U	4,200 U	3,600 J	4,200 U	4,200 U	4,200 U	2,700 J	4,200 U	R	11,000 R	3,700 U	9,500 U
A33C1C01	02/08/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
A34C1C01	02/08/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
A35C1C01	02/08/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
A36E1C01	02/08/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	1,000 J	3,500 U	820 J
A37C1C01	02/17/00	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
A38E1C01	02/09/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
A40F1C01	02/08/00	10-12ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U
A42E1C01	02/09/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	350 J	3,400 U	6,900 U	4,100 U	3,400 U	2,300 J
A43C1C01	02/17/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
A44C1C01	02/17/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	1,600 J	3,500 U	1,400 U
A44C1C01 dup	02/17/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	580 J	3,500 U	500 U

APPENDIX E  
TABLE E-1  
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area A  
Providence Gas Company  
612 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	Hexachloro- cyclo- pentadiene	Hexachloroeth- ane	Indeno(1,2,3- cd) pyrene	Isophorene	N-Nitroso-di-n propylamine	N-Nitroso- diphenyl- amine	Naphthalene	Nitrobenzene	Pentachloro- phenol	Phenanthrene	Picnol	Pyrene
A45E1C01	02/09/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	1,200 J	3,400 U	3,400 U
A46E1C01	02/10/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U
A47H1C01	02/09/00	12-14ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	1,700 J	3,500 U	3,500 U
A48C1C01	02/09/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	1,400 J	3,600 U	3,600 U
A49G1C01	02/17/00	12-14ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U
A50E1C01	02/23/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U
A51D1C01	02/21/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	460 J	3,600 U	410 J
A52D1C01	02/09/00	06-08ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	1,700 J	3,400 U	3,400 U
A53D1C01	02/09/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	2,600 J	3,800 U	1,100 J
A54E1C01	02/10/00	08-10ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
A55D1C01	02/09/00	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,400 U	2,000 J	3,700 U	470 J
A55D1C01 dup	02/09/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	1,700 J	3,600 U	3,600 U
A56C1C01	02/09/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	7,100 J	3,800 U	7,100 J
A57E1C01	02/23/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U
A58C1C01	02/29/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U
A59C1C01	02/29/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U
A60C1C01	02/29/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
A61C1C01	02/29/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
A62D1C01 (1)	02/25/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	110,000 D	3,800 U	69,000 D
A63B1C01	02/29/00	02-04ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	410 J	3,900 U	450 J
A64C1C01	02/29/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	1,000 J	3,800 U	1,800 J
A64C1C01 dup	02/29/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	490 J	3,700 U	640 J
A65C1C01	02/29/00	04-06ft	3,700 U	3,700 U	490 J	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	1,700 J
A66D1C01	02/29/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	7,800 J	3,600 U	640 J
A67C1C01	02/29/00	04-06ft	3,800 U	3,800 U	5,500 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	21,000 J	3,800 U	21,000 J
A68E1C01	02/25/00	08-10ft	3,600 U	3,600 U	4,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	18,000 J
A69D1C01	02/25/00	06-08ft	3,800 U	3,800 U	3,600 J	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	13,000 J	3,800 U	12,000 J
A78C1C02	02/08/00	04-06ft	3,679 U	3,679 U	3,583 U	3,679 U	3,679 U	3,679 U	14,942 U	3,679 U	2,478 U	13,892 U	3,679 U	10,374 U

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above  
 method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from dilution  
 -- Sample not tested  
 (1) - Multiple analysis of sample conducted; result presented is the highest detected or on lowest quantitation limit for constituent.





APPENDIX E  
 TABLE E-2  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Subsurface Soil Analytical Summary - Area B  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,2-dybis(1-Chloropropane)	1,4,5-Trichlorophenol	1,1,4-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dinitrotoluene	2-Chloronaphthalene
B49E1C01	02/18/00	08-10ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B50C1C01	01/07/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B51E1C01	02/18/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B52D1C01	02/18/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B53C1C01	02/18/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B54B1C01	02/18/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B55C1C01	01/02/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
B56C1C01	01/02/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
B57C1C01	01/02/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
B58B1C01	01/02/00	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
B59C1C01	02/18/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
B60C1C01	02/18/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
B60C1C01dup	02/18/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
B61C1C01	02/16/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B62B1C01	02/16/00	02-04ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
B64B1C01	02/18/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
B65B1C01	02/18/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B66C1C01	02/18/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above method reporting limit presented  
 E - Estimated concentration; calibration range exceeded  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from dilution  
 -- Sample not tested  
 [ ] - Multiple analysis of sample conducted

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area B  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	1-Chloro-phenol	2-Methyl-naphthalene	2-Methyl-phenol	2-Nitroaniline	2-Nitrophenol	3,3-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-Methyl-phenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methyl-phenol	4-Nitroaniline
Locations within 100 ft. of Shore															
B07C1C01	01/27/00														
B08C1C01	01/27/00														
B09B1C01	01/27/00														
B17C1C01	01/31/00														
B18C1C01	01/27/00														
B30C1C01	01/31/00														
B31C1C01	01/27/00														
B32C1C01	01/31/00														
B33C1C01	01/31/00														
B34D1C01	02/01/00														
B35C1C01	02/01/00														
B36C1C01	02/03/00														
Locations greater than 100 ft. of Shore															
B01C1C01	01/27/00														
B02B1C01	01/27/00														
B03B1C01	01/27/00														
B04B1C01	01/27/00														
B05B1C01	01/27/00														
B06B1C01	01/27/00														
B10B1C01	01/27/00														
B11D1C01	01/27/00														
B12C1C01	01/27/00														
B13B1C01	01/27/00														
B14B1C01	01/27/00														
B19B1C01	01/27/00														
B27C1C01	02/22/00														
B28E1C01	02/22/00														
B29G1C01	01/02/00														
B30E1C01	01/01/00														
B31C1C01	01/01/00														
B32D1C01	01/01/00														
B33E1C01	01/01/00														
B34E1C01	02/22/00														
B35E1C01	02/22/00														
B36C1C01	02/22/00														
B37E1C01	01/02/00														
B38C1C01	02/22/00														
B38C1C01dup	02/22/00														
B39D1C01	01/01/00														
B40C1C01	01/01/00														
B41C1C01	01/01/00														
B42C1C01	02/22/00														
B43C1C01	02/22/00														
B44E1C01	02/22/00														
B45C1C01	02/22/00														
B46C1C01	02/18/00														
B47C1C01	02/18/00														
B48B1C01	02/22/00														

APPENDIX E  
 TABLE E-2  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Subsurface Soil Analytical Summary - Area B  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	2-Chloro-phenol	2-Methyl-naphthalene	2-Methyl-phenol	2-Nitroaniline	1-Nitrophenol	3,3-Dichloro-benzidine	3-Nitroaniline	4,6-Dichloro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-Methyl-phenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methyl-phenol	4-Nitroaniline
B49E1C01	02/18/00	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	7,100 U	7,100 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U
B50C1C01	03/02/00	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U
B51E1C01	02/18/00	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U
B52D1C01	02/18/00	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U
B53C1C01	02/18/00	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U
B54B1C01	02/18/00	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U
B55C1C01	03/02/00	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U
B56C1C01	03/02/00	3,700 U	4,400 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	630 U	7,600 U
B57C1C01	03/02/00	3,700 U	650 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U
B58B1C01	03/02/00	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U
B59C1C01	02/18/00	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U
B60C1C01	02/18/00	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	7,000 U	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U
B60C1C01 dup	02/18/00	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U
B61C1C01	02/16/00	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U
B62B1C01	02/16/00	4,000 U	4,000 U	4,000 U	8,000 U	4,000 U	4,000 U	8,000 U	8,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,000 U
B64B1C01	02/18/00	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U
B65B1C01	02/18/00	3,600 U	6,700 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U
B66C1C01	02/18/00	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U

Notes:  
 All results in micrograms per kilogram  
 All results in micrograms per kilogram  
 U - Compound not detected above  
 J - method reporting limit presumed  
 E - Estimated concentration; calibration exceeded  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from  
 -- Sample not tested  
 [1] - Multiple analysis of sample conducted

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area B  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(e)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(2-Chlorophenyl)methane	bis(2-Chlorophenyl)ether	bis(2-Ethylhexyl)phthalate	Butylbenzylphthalate	Carbazole
Locations within 100 ft. of Shore															
B07C1C01	01/27/00	R	R	R	R	R	R	R	R	R	R	R	R	R	R
B08C1C01	01/27/00	R	R	R	R	R	R	R	R	R	R	R	R	R	R
B09B1C01	01/27/00	R	R	R	R	R	R	R	R	R	R	R	R	R	R
B17C1C01	01/31/00	7,200	1,600	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600	3,600	3,600
B18C1C01	01/27/00	7,700	3,600	2,700	1,200	6,800	5,200	8,400	3,500	2,700	3,800	3,800	3,800	3,800	3,800
B20C1C01	01/31/00	7,500	1,500	3,700	610	3,700	800	3,700	3,700	3,700	3,700	3,700	3,700	3,700	3,700
B21C1C01	01/31/00	7,600	17,000	11,000	18,000	10,000	6,500	5,100	3,700	3,500	3,700	3,700	3,700	3,700	3,700
B22C1C01	01/31/00	6,800	3,300	3,300	3,300	3,300	800	3,300	3,300	3,300	3,300	3,300	3,300	3,300	3,300
B23C1C01	01/31/00	7,000	3,500	3,500	3,500	3,500	800	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
B24D1C01	02/01/00	7,000	3,500	3,500	3,500	4,900	6,200	6,500	4,400	2,600	3,500	3,500	3,500	3,500	3,500
B25C1C01	02/01/00	15,000	7,400	8,200	4,200	16,000	27,000	25,000	21,000	11,000	7,400	7,400	7,400	7,400	7,400
B26C1C01	02/03/00	7,000	600	350	1,000	1,900	1,700	2,500	1,300	700	3,500	3,500	3,500	3,500	460
Locations greater than 100 ft. of Shore															
B01C1C01	01/27/00	7,200	1,300	3,600	440	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600	3,600	3,600
B02B1C01	01/27/00	R	R	R	R	R	R	R	R	R	R	R	R	R	R
B03B1C01	01/27/00	R	R	R	R	R	R	R	R	R	R	R	R	R	R
B04B1C01	01/27/00	R	R	R	R	R	R	R	R	R	R	R	R	R	R
B05B1C01	01/27/00	7,700	3,800	3,800	3,800	710	800	990	3,800	3,800	3,800	3,800	3,800	3,800	3,800
B06B1C01	01/27/00	7,200	3,600	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600	3,600	3,600
B10B1C01	01/27/00	8,100	4,000	4,000	670	1,400	800	1,500	4,000	650	4,000	4,000	4,000	4,000	4,000
B11D1C01	01/27/00	7,600	3,800	3,800	3,800	3,800	800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
B12C1C01	01/27/00	29,000	5,100	14,000	2,200	74,000	3,200	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000
B13B1C01	01/27/00	R	15,000	74,000	74,000	74,000	16,000	74,000	74,000	74,000	74,000	74,000	74,000	74,000	74,000
B14B1C01	01/27/00	7,600	9,100	410	13,000	11,000	7,100	7,900	2,500	2,100	3,600	3,600	3,600	3,600	3,600
B19D1C01	01/27/00	7,200	3,500	730	390	1,800	1,500	2,400	1,200	930	3,500	3,500	3,500	3,500	3,500
B27C1C01	02/22/00	7,300	3,600	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600	3,600	3,600
B28E1C01	02/23/00	7,100	3,600	880	710	2,100	1,900	2,500	1,100	780	3,600	3,600	3,600	3,600	3,600
B29G1C01	03/02/00	7,800	3,800	3,800	3,800	3,800	800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
B30E1C01	03/01/00	14,000	5,500	10,000	20,000	25,000	20,000	24,000	9,700	8,600	7,100	7,100	7,100	7,100	7,100
B31C1C01	03/01/00	7,100	3,500	4,600	4,800	6,600	4,700	6,000	3,100	1,900	3,500	3,500	3,500	3,500	3,500
B32D1C01	03/01/00	7,200	3,200	3,600	1,400	930	550	550	1,600	3,600	3,600	3,600	3,600	3,600	3,600
B33E1C01	03/01/00	7,500	3,700	3,700	3,700	770	640	870	3,700	390	3,700	3,700	3,700	3,700	3,700
B34E1C01	03/23/00	7,300	3,600	3,000	2,000	3,300	4,000	4,900	3,500	1,800	3,600	3,600	3,600	3,600	3,600
B35E1C01	02/22/00	7,200	3,500	470	500	1,700	1,200	1,600	930	730	3,500	3,500	3,500	3,500	3,500
B36C1C01	02/22/00	7,400	3,600	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600	3,600	3,600
B37E1C01	01/02/00	11,000	5,400	5,400	5,400	1,800	1,500	2,100	1,000	690	5,400	5,400	5,400	5,400	5,400
B38C1C01	02/22/00	7,200	3,700	470	390	1,200	1,000	1,600	620	500	3,500	3,500	3,500	3,500	3,500
B38C1C01dup	02/22/00	7,500	3,700	460	440	1,400	1,100	1,700	730	510	3,700	3,700	3,700	3,700	3,700
B39D1C01	03/01/00	7,300	3,600	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600	3,600	3,600
B40C1C01 [1]	03/01/00	7,400	260,000	3,600	180,000	290,000	190,000	200,000	74,000	77,000	3,600	3,600	3,600	3,600	3,600
B41C1C01	03/01/00	7,900	3,900	3,900	3,900	3,900	400	520	3,900	3,900	3,900	3,900	3,900	3,900	3,900
B42C1C01	02/22/00	9,000	4,400	4,400	470	1,500	1,300	1,800	620	700	4,400	4,400	4,400	4,400	4,400
B43C1C01	02/22/00	7,400	3,700	3,700	3,700	3,700	800	3,700	3,700	3,700	3,700	3,700	3,700	3,700	3,700
B44E1C01	02/22/00	10,000	5,100	5,100	1,900	8,900	6,700	8,800	5,800	3,200	5,100	5,100	5,100	5,100	5,100
B45C1C01	03/22/00	7,500	420	2,600	2,400	8,000	7,300	8,600	4,400	2,900	3,700	3,700	3,700	3,700	3,700
B46C1C01	02/18/00	7,800	1,100	650	3,000	5,700	5,000	6,300	3,700	1,800	3,800	3,800	3,800	3,800	3,800
B47C1C01	02/18/00	7,100	3,600	380	3,600	1,300	1,300	1,700	840	550	3,600	3,600	3,600	3,600	3,600
B48B1C01	02/22/00	7,500	3,700	3,700	3,700	3,700	800	3,700	3,700	3,700	3,700	3,700	3,700	3,700	3,700

APPENDIX E  
 TABLE E-2  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Subsurface Soil Analytical Summary - Area B  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butylbenzylphthalate	Carbazole
B49E1C01	02/18/00	7,300 U	1,500 J	590 J	470 J	620 J	670 J	520 J	3,600 U	210 J	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B50C1C01	03/07/00	7,300 U	3,600 U	440 J	690 J	1,600 J	1,300 J	2,000 J	790 J	540 J	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B51E1C01	02/18/00	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B52D1C01	02/18/00	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B53C1C01	02/18/00	7,400 U	3,600 U	3,600 U	3,600 U	730 J	590 J	810 J	460 J	310 J	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B54B1C01	02/18/00	7,400 U	3,600 U	3,600 U	800 J	2,400 J	2,200 J	2,600 J	1,500 J	720 J	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B55C1C01	03/02/00	7,100 U	690 J	620 J	2,000 J	11,000 J	12,000 J	17,000 J	7,000 J	5,800 J	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
B56C1C01	03/02/00	7,600 U	8,400 U	3,000 J	27,000 J	45,000 J	36,000 J	44,000 J	18,000 J	13,000 J	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
B57C1C01	03/02/00	7,600 U	2,300 J	1,200 J	6,600 J	15,000 J	11,000 J	14,000 J	5,100 J	4,600 J	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
B58B1C01	02/18/00	7,700 U	3,800 U	3,800 U	450 J	1,200 J	950 J	1,200 J	420 J	410 J	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
B59C1C01	02/18/00	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
B60C1C01	02/18/00	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
B66C1C01 dup	02/18/00	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
B61C1C01	02/16/00	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B62B1C01	02/16/00	8,000 U	4,000 U	4,000 U	4,000 U	670 J	800 U	700 J	4,000 U	600 J	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
B64B1C01	02/18/00	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
B65B1C01	02/18/00	7,400 U	10,000 U	3,600 U	16,000 U	16,000 U	10,000 U	10,000 U	5,200 U	6,000 U	3,600 U	3,600 U	3,600 U	3,600 U	3,900 U
B66C1C01	02/18/00	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U

Notes:  
 All results in micrograms per kilogram  
 All results in micrograms per kilogram  
 U - Compound not detected above  
 J - Estimated concentration  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from  
 \*\* - Sample not tested  
 [1] - Multiple analysis of sample conlude



APPENDIX E  
TABLE E-2  
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area B  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Chrysene	Di-n-butyl-phthalate	Di-n-octyl-phthalate	Dibenzof(a,h)-anthracene	Dibenzofuran	Diethyl-phthalate	Dimethyl-phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene
B-19E(CO)	02/18/00	550	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	780 J	710 J	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B-50C(CO)	03/02/00	1,600 J	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,200 J	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	910 J
B-51E(CO)	02/18/00	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B-52D(CO)	02/18/00	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B-53C(CO)	02/18/00	750 J	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	1,000 J	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	450 J
B-54B(CO)	02/18/00	2,600 J	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,500 J	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	1,500 J
B-55C(CO)	03/02/00	15,000	3,500 U	3,500 U	2,000 J	460 J	3,500 U	3,500 U	34,000 E	680 J	3,500 U	3,500 U	3,500 U	3,500 U	7,600 U
B-56C(CO)	03/02/00	42,000	3,700 U	3,700 U	5,600 J	7,500 U	3,700 U	3,700 U	74,000 E	12,000 E	3,700 U	3,700 U	3,700 U	3,700 U	30,000 U
B-57C(CO)	03/02/00	15,000	3,700 U	3,700 U	1,700 J	1,400 J	3,700 U	3,700 U	26,000 E	2,400 J	3,700 U	3,700 U	3,700 U	3,700 U	5,700 U
B-58B(CO)	03/02/00	1,200 J	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	2,100 J	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	460 J
B-59C(CO)	02/18/00	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
B-60C(CO)	02/18/00	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
B-60C(CO) dup	02/18/00	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
B-61C(CO)	02/16/00	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
B-62B(CO)	02/16/00	850 J	4,000 U	4,000 U	800 U	4,000 U	4,000 U	4,000 U	1,100 J	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
B-64B(CO)	02/18/00	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
B-65B(CO)	02/18/00	14,000	3,600 U	3,600 U	2,300 J	3,200 U	3,600 U	3,600 U	25,000 E	11,000 U	3,600 U	3,600 U	3,600 U	3,600 U	5,800 U
B-66C(CO)	02/18/00	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U

**Notes:**  
 All results in micrograms per kilogram  
 All results in micrograms per kilogram  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration exceeded  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from  
 \*- Sample not tested  
 [ ] - Multiple analysis of sample condue



SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area B  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Isophorone	N-Nitroso-di-n-propylamine	N-Nitroso-diphenylamine	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
Locations within 100 ft of Shore										
B07C1C01	01/27/00	R	R	R	R	R	R	490	R	R
B08C1C01	01/27/00	R	R	R	R	R	R	3,100	R	920
B09B1C01	01/27/00	R	R	R	R	R	R	970	R	610
U17C1C01	01/31/00	3,600	U	3,600	U	3,600	U	7,200	U	3,600
B18C1C01	01/27/00	3,800	U	3,800	U	3,800	U	7,700	U	19,000
B19C1C01	01/31/00	3,700	U	3,700	U	3,700	U	8,100	U	1,100
B20C1C01	01/27/00	3,700	U	3,700	U	3,700	U	7,600	U	16,000
B22C1C01	01/31/00	3,300	U	3,300	U	3,300	U	6,800	U	400
B23C1C01	01/31/00	3,500	U	3,500	U	3,500	U	7,000	U	3,500
B24D1C01	02/01/00	3,500	U	3,500	U	3,500	U	7,000	U	20,000
B25C1C01	02/01/00	7,400	U	7,400	U	7,400	U	15,000	U	70,000
B26C1C01	02/03/00	3,500	U	3,500	U	3,500	U	7,000	U	3,800
Locations Greater than 100 ft of Shore										
B01C1C01	01/27/00	3,600	U	3,600	U	3,600	U	7,200	U	3,600
B02B1C01	01/27/00	R	R	R	R	R	R	R	R	R
B03B1C01	01/27/00	R	R	R	R	R	R	R	R	R
B04B1C01	01/27/00	R	R	R	R	R	R	R	R	R
B05B1C01	01/27/00	3,800	U	3,800	U	3,800	U	7,700	U	840
B06B1C01	01/27/00	3,600	U	3,600	U	3,600	U	7,200	U	3,600
B10B1C01	01/27/00	4,000	U	4,000	U	4,000	U	8,100	U	2,800
U11B1C01	01/27/00	3,800	U	3,800	U	3,800	U	7,600	U	550
B12C1C01	01/27/00	14,000	U	14,000	U	14,000	U	29,000	U	14,000
B13B1C01	01/27/00	74,000	U	74,000	U	74,000	U	12,000	U	2,100
U14B1C01	01/27/00	3,600	U	3,600	U	3,600	U	7,400	U	74,000
B19B1C01	01/27/00	3,500	U	3,500	U	3,500	U	7,200	U	22,000
B27C1C01	02/23/00	3,600	U	3,600	U	3,600	U	7,300	U	3,400
B28E1C01	02/23/00	3,600	U	3,600	U	3,600	U	7,200	U	4,000
B29G1C01	03/01/00	3,800	U	3,800	U	3,800	U	7,800	U	3,800
B30E1C01	03/01/00	7,100	U	7,100	U	7,100	U	14,000	U	5,600
B31C1C01	03/01/00	3,500	U	3,500	U	3,500	U	7,100	U	10,000
B32D1C01	03/01/00	3,600	U	3,600	U	3,600	U	7,500	U	2,300
B33E1C01	03/01/00	3,700	U	3,700	U	3,700	U	7,500	U	1,000
B34E1C01	02/23/00	3,600	U	3,600	U	3,600	U	7,100	U	6,100
B35E1C01	02/22/00	3,500	U	3,500	U	3,500	U	7,200	U	3,000
B36C1C01	02/22/00	3,600	U	3,600	U	3,600	U	7,400	U	3,600
B37E1C01	03/02/00	5,400	U	5,400	U	5,400	U	11,000	U	2,800
B38C1C01	02/22/00	3,500	U	3,500	U	3,500	U	7,200	U	1,600
B38C1C01 dup	02/22/00	3,700	U	3,700	U	3,700	U	7,500	U	1,800
B39D1C01	01/01/00	3,600	U	3,600	U	3,600	U	7,100	U	3,600
B40C1C01 [1]	03/01/00	3,600	U	3,600	U	3,600	U	7,400	U	3,600
U41C1C01	03/01/00	3,900	U	3,900	U	3,900	U	7,900	U	520,000
B42C1C01	02/22/00	4,400	U	4,400	U	4,400	U	9,500	U	580
B43C1C01	02/22/00	3,700	U	3,700	U	3,700	U	9,000	U	1,400
B44E1C01	02/22/00	5,100	U	5,100	U	5,100	U	7,600	U	3,700
B45C1C01	02/22/00	3,700	U	3,700	U	3,700	U	10,000	U	14,000
B46C1C01	02/18/00	3,800	U	3,800	U	3,800	U	7,500	U	15,000
B47C1C01	02/18/00	3,600	U	3,600	U	3,600	U	7,800	U	8,500
B48B1C01	02/23/00	3,700	U	3,700	U	3,700	U	7,500	U	3,000

APPENDIX E  
 TABLE E-2  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Subsurface Soil Analytical Summary - Area B  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Isophorone	N-Nitrosodi-n-propylamine	N-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
B49E1C01	02/18/00	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	1,100 J	3,600 U	2,300 J
B50G1C01	03/02/00	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	2,500 J	3,600 U	2,800 J
B51E1C01	02/18/00	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
B53D1C01	02/18/00	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
B53C1C01	02/18/00	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,70 J	3,600 U	810 J
B54B1C01	02/18/00	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	2,900 J	3,600 U	5,200 U
B55C1C01	03/02/00	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	12,000 U	3,500 U	22,000 U
B56C1C01	03/02/00	3,700 U	3,700 U	3,700 U	7,800 J	3,700 U	7,600 U	64,000 E	3,700 U	68,000 E
B57C1C01	03/02/00	3,700 U	3,700 U	3,700 U	3,800 U	3,800 U	7,600 U	21,000 U	3,700 U	25,000 U
B58B1C01	03/02/00	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	1,900 J	3,800 U	1,900 J
B59C1C01	02/18/00	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
B60C1C01	02/18/00	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U
B66C1C01 dip	02/18/00	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
B61C1C01	02/16/00	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
B62B1C01	02/16/00	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,000 U	700 J	4,000 U	1,600 J
B64B1C01	02/18/00	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
B65B1C01	02/18/00	3,600 U	3,600 U	3,600 U	5,100 U	3,600 U	7,400 U	46,000 U	3,600 U	32,000 U
B66C1C01	02/18/00	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U

Notes:  
 All results in micrograms per kilogram  
 All results in micrograms per kilogram  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration exceeded  
 R - Data rejected due to QC violation  
 D - Analytic concentration obtained from  
 \*\* - Sample not tested  
 [1] - Multiple analysis of sample conclud

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area C  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,2-dybis(1-Chloropropane)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
C05C1C01	01/11/00	04-06ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	4,000 U
C06B1C01	01/11/00	02-04ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
C07B1C01	01/11/00	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
C09C1C01	01/11/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
C10C1C01	01/11/00	04-06ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	4,000 U
C18D1C01	12/13/99	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
C19C1C01	12/13/99	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
C20C1C01	12/14/99	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U
C22C1C01	02/15/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
C23B1C01	02/15/00	02-04ft	7,500 U	7,500 U	7,500 U	7,500 U	15,000 U	15,000 U	7,500 U	7,500 U	7,500 U	15,000 U	7,500 U	7,500 U	7,500 U
C24C1C01	02/15/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
C25E1C01	02/24/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U
C26C1C01	02/15/00	04-06ft	6,800 U	6,800 U	6,800 U	6,800 U	6,800 U	14,000 U	6,800 U	6,800 U	6,800 U	14,000 U	6,800 U	6,800 U	6,800 U
C27B1C01	02/15/00	02-04ft	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	6,700 U	3,100 U	3,100 U	3,100 U	6,700 U	3,100 U	3,100 U	3,100 U
C28B1C01	02/15/00	02-04ft	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	6,700 U	3,100 U	3,100 U	3,100 U	6,700 U	3,100 U	3,100 U	3,100 U
C29C1C01	02/15/00	04-06ft	14,000 U	14,000 U	14,000 U	14,000 U	14,000 U	28,000 U	14,000 U	14,000 U	14,000 U	28,000 U	14,000 U	14,000 U	14,000 U
C30C1C01	02/24/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U
C31B1C01	02/16/00	02-04ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,000 U	4,000 U	4,000 U	4,000 U	8,000 U	4,000 U	4,000 U	4,000 U
C32E1C01	02/15/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
C33F1C01	02/24/00	10-12ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
C34G1C01	02/24/00	12-14ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
C35C1C01	02/15/00	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U
C36B1C01	02/16/00	02-04ft	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	8,500 U	4,200 U	4,200 U	4,200 U	8,500 U	4,200 U	4,200 U	4,200 U
C37E1C01	02/15/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
C38E1C01	02/24/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U
C38E1C01 dup	02/24/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U
C39F1C01	02/24/00	08-10ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U
C40E1C01	02/15/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
C41C1C01	02/16/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U
C42C1C01	02/15/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
C43C1C01	02/15/00	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
C44E1C01	02/24/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
C45C1C01	02/24/00	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
C46C1C01	02/24/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
C47C1C01	02/17/00	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,800 U	3,400 U	3,400 U	3,400 U	6,800 U	3,400 U	3,400 U	3,400 U
C48B1C01	02/16/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
C49B1C01-A	02/16/00	02-04ft	R	R	R	R	R	R	R	R	R	R	R	R	R
C49C1C01-B	6/20/00	04-06ft													
C49C1C01-C	6/20/00	04-06ft													
C49C1C01-D	6/20/00	04-06ft													
C49C1C01-E	6/20/00	04-06ft													
C49C1C01-F	6/20/00	04-06ft													
C49C1C01-G	6/20/00	04-06ft													
C50C1C01	02/16/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
C51B1C01	02/16/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
C52B1C01	02/16/00	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U
C53B1C01	02/16/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
C55C1C01	02/16/00	04-06ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	3,900 U

APPENDIX E  
TABLE E-3  
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area C  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	1,2,4-Trichloro-benzene	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	1,2-dybit(1-Chloro-propane)	2,4,5-Trichloro-phenol	2,4,6-Trichloro-phenol	2,4-Dichloro-phenol	2,4-Dimethyl-phenol	2,4-Dinitro-phenol	2,4-Dinitro-phenol	2,6-Dinitro-toluene	2-Chloro-naphthalene
C56C1C01	02/16/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	
C57B1C01	02/16/00	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	
C58B1C01	02/16/00	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	
C58B1C01dup	02/16/00	02-04ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	
C59B1C01	02/16/00	02-04ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	8,000 U	3,900 U	3,900 U	3,900 U	8,000 U	3,900 U	3,900 U	
C64B1C01	02/11/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	
C65E1C01	02/11/00	06-10ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	
C66C1C01	02/11/00	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	
C67C1C01	02/11/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,400 U	3,700 U	3,700 U	3,700 U	7,400 U	3,700 U	3,700 U	
C68C1C01	02/17/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	
C69B1C01	02/11/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	
C70C1C01	02/11/00	04-06ft	7,100 U	7,100 U	7,100 U	7,100 U	14,000 U	7,100 U	7,100 U	7,100 U	14,000 U	7,100 U	7,100 U	7,100 U	
C71B1C01	02/11/00	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	7,200 U	3,400 U	3,400 U	3,400 U	7,200 U	3,400 U	3,400 U	
C72B1C01	02/11/00	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	7,300 U	3,400 U	3,400 U	3,400 U	7,300 U	3,400 U	3,400 U	
C73B1C01	02/11/00	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	
C74B1C01	02/11/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	
C75E1C01	02/10/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	
C76F1C01	02/10/00	10-12ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	
C76F1C01dup	02/10/00	10-12ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	
C77E1C01	02/10/00	08-10ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	
C78D1C01	02/09/00	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,700 U	3,700 U	3,700 U	3,700 U	7,700 U	3,700 U	3,700 U	
C79E1C01	02/10/00	08-10ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	
C80F1C01	02/10/00	10-12ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,800 U	3,400 U	3,400 U	3,400 U	6,800 U	3,400 U	3,400 U	
C81E1C01	02/10/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,300 U	3,500 U	3,500 U	3,500 U	7,300 U	3,500 U	3,500 U	
C83E1C01	02/10/00	08-10ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	

Notes:  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration, calibration range exceeded  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from dilution  
 \* - Sample not tested  
 [1] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area C  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	3-Chlorophenol	2-Methyl-naphthalene	2-Methyl-phenol	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-Methyl-phenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methyl-phenol
Greater Than 100 Feet from Shore															
C0581C01	01/11/00	04-06ft	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	8,100 U	8,100 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
C0681C01	01/11/00	02-04ft	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
C0781C01	01/11/00	02-04ft	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
C08C1C01	01/11/00	04-06ft	4,000 U	3,800,000 E	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
C10C1C01	01/11/00	04-06ft	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	8,100 U	8,100 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
C18D1C01	12/13/99	06-08ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
C19C1C01	12/13/99	04-06ft	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C20C1C01	12/14/99	04-06ft	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C22C1C01	02/15/00	04-06ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
C23B1C01	02/15/00	02-04ft	7,500 U	26,000 U	7,500 U	15,000 U	7,500 U	7,500 U	15,000 U	15,000 U	7,500 U	7,500 U	7,500 U	7,500 U	7,500 U
C24C1C01	02/15/00	04-06ft	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
C25E1C01	02/23/00	08-10ft	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C26C1C01	02/15/00	04-06ft	6,800 U	8,800 U	6,800 U	14,000 U	6,800 U	6,800 U	14,000 U	14,000 U	6,800 U	6,800 U	6,800 U	6,800 U	6,800 U
C27B1C01	02/15/00	02-04ft	3,100 U	3,100 U	3,100 U	6,700 U	3,100 U	3,100 U	6,700 U	6,700 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U
C28B1C01	02/15/00	02-04ft	3,100 U	3,100 U	3,100 U	6,700 U	3,100 U	3,100 U	6,700 U	6,700 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U
C29C1C01	02/15/00	04-06ft	14,000 U	72,000 U	14,000 U	28,000 U	14,000 U	14,000 U	28,000 U	28,000 U	14,000 U	14,000 U	14,000 U	14,000 U	14,000 U
C30C1C01	02/23/00	04-06ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
C31B1C01	02/16/00	02-04ft	4,000 U	4,000 U	4,000 U	8,000 U	4,000 U	4,000 U	8,000 U	8,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
C32E1C01	02/15/00	08-10ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C33E1C01	02/15/00	08-10ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C33F1C01	02/23/00	10-12ft	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C34G1C01	02/23/00	12-14ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
C35C1C01	02/15/00	04-06ft	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	7,000 U	7,000 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C36B1C01	02/16/00	02-04ft	4,200 U	4,200 U	4,200 U	8,500 U	4,200 U	4,200 U	8,500 U	8,500 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U
C37E1C01	02/15/00	08-10ft	3,500 U	3,500 U	3,500 U	6,900 U	3,500 U	3,500 U	6,900 U	6,900 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C38E1C01	02/23/00	08-10ft	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	7,000 U	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C39F1C01	02/23/00	08-10ft	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C40E1C01	02/23/00	08-10ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
C41C1C01	02/15/00	04-06ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C42C1C01	02/15/00	04-06ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C43C1C01	02/15/00	04-06ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C44E1C01	02/23/00	08-10ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C45C1C01	02/23/00	04-06ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C46C1C01	02/23/00	04-06ft	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C47C1C01	02/17/00	04-06ft	3,400 U	3,400 U	3,400 U	6,800 U	3,400 U	3,400 U	6,800 U	6,800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C48B1C01	02/16/00	02-04ft	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
C49B1C01	02/16/00	02-04ft	R	2,000,000 J	110,000 J	R	R	R	R	R	R	R	R	R	R
C49C1C01-A	6/20/00	04-06ft	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-B	6/20/00	04-06ft	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-C	6/20/00	04-06ft	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-D	6/20/00	04-06ft	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-E	6/20/00	04-06ft	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-F	6/20/00	04-06ft	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-G	6/20/00	04-06ft	-	-	-	-	-	-	-	-	-	-	-	-	-
C50C1C01	02/16/00	04-06ft	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
C51B1C01	02/16/00	02-04ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
C52B1C01	02/16/00	02-04ft	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	7,000 U	7,000 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C53B1C01	02/16/00	02-04ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
C53C1C01	02/16/00	04-06ft	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	7,800 U	7,800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U

APPENDIX E  
 TABLE E-3  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Subsurface Soil Analytical Summary - Area C  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	1-Chloro-phenol	2-Methyl-naphthalene	2-Methyl-phenol	3-Nitroaniline	3-Nitrophenol	3,3-Dichloro-benzidine	3-Nitroaniline	4,4-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-Methyl-phenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methyl-phenol
C56C1C01	02/16/00	04-06ft	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
C57B1C01	02/16/00	02-04ft	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
C58B1C01	02/16/00	03-04ft	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
C58B1C01dup	02/16/00	02-04ft	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
C59B1C01	02/16/00	02-04ft	3,900 U	3,900 U	3,900 U	8,000 U	3,900 U	3,900 U	8,000 U	8,000 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
C64B1C01	02/11/00	02-04ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
C65E1C01	02/11/00	06-10ft	3,600 U	390 J	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
C66C1C01	02/11/00	04-06ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C67C1C01	02/11/00	04-06ft	3,700 U	3,700 U	3,700 U	7,400 U	3,700 U	3,700 U	7,400 U	7,400 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
C68C1C01	02/17/00	04-06ft	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C69B1C01	02/11/00	02-04ft	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
C70C1C01	02/11/00	04-06ft	7,100 U	7,100 U	7,100 U	14,000 U	7,100 U	7,100 U	14,000 U	14,000 U	7,100 U	7,100 U	7,100 U	7,100 U	7,100 U
C71B1C01	02/11/00	02-04ft	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C72B1C01	02/11/00	02-04ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
C73B1C01	02/11/00	02-04ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C74B1C01	02/11/00	02-04ft	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	7,000 U	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C75E1C01	02/10/00	08-10ft	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C76F1C01	02/10/00	10-12ft	3,800 U	950 J	3,800 U	7,800 U	3,800 U	3,800 U	7,800 U	7,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
C76F1C01dup	02/10/00	10-12ft	3,800 U	2,800 J	3,800 U	7,800 U	3,800 U	3,800 U	7,800 U	7,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
C77E1C01	02/10/00	08-10ft	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
C78D1C01	02/09/00	06-08ft	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
C79E1C01	02/10/00	08-10ft	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
C80F1C01	02/10/00	10-12ft	3,400 U	3,400 U	3,400 U	6,800 U	3,400 U	3,400 U	6,800 U	6,800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C81E1C01	02/10/00	08-10ft	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C82E1C01	02/10/00	08-10ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U

Notes:  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from dilution  
 \*\* - Sample not tested  
 [1] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area C  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	4-Nitroaniline	4-Nitrophenol	Acenaphthylene	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(2-Chlorophenyl)methane	bis(2-Chlorophenyl)ether	bis(2-Ethylhexyl)phthalate
Greater Than 100 Feet from Shore															
C05C1C01	01/11/00	04-06ft	8,100	8,100	4,000	4,000	510	4,600	7,700	11,000	4,800	2,600	4,000	4,000	4,000
C06B1C01	01/11/00	02-04ft	7,900	7,900	3,900	3,900	680	4,600	24,000	31,000	15,000	8,600	3,900	3,900	3,900
C07B1C01	01/11/00	02-04ft	7,600	7,600	3,800	3,800	3,800	3,800	800	3,800	3,800	8,600	3,800	3,800	3,800
C09C1C01	01/11/00	04-06ft	7,400	7,400	3,600	3,600	3,900	2,700	2,000	2,700	3,600	900	3,600	3,600	3,600
C10C1C01	01/11/00	04-06ft	8,100	8,100	4,000	4,000	4,000	4,000	800	4,000	4,000	4,000	4,000	4,000	4,000
C18D1C01	12/13/99	06-08ft	7,500	7,500	3,700	3,700	3,700	3,700	800	3,700	3,700	3,700	3,700	3,700	3,700
C19C1C01	12/13/99	04-06ft	7,100	7,100	3,500	3,500	350	3,500	760	3,500	490	900	3,500	3,500	3,500
C20C1C01	12/14/99	04-06ft	7,200	7,200	3,500	3,500	3,500	3,500	800	740	3,500	440	3,500	3,500	3,500
C22C1C01	02/15/00	04-06ft	7,300	7,300	3,600	3,600	620	4,800	4,200	3,600	1,800	3,000	3,600	3,600	3,600
C23B1C01	02/15/00	02-04ft	15,000	15,000	7,500	7,500	1,400	1,900	1,000	3,000	1,000	910	7,500	7,500	7,500
C24C1C01	02/15/00	04-06ft	7,000	7,400	3,600	3,600	3,600	760	800	1,300	3,600	580	3,600	3,600	3,600
C25E1C01	02/24/00	08-10ft	7,200	7,200	3,500	3,500	3,500	3,500	300	410	3,500	210	3,500	3,500	3,500
C26C1C01	02/15/00	04-06ft	14,000	14,000	8,500	8,500	18,000	22,000	16,000	22,000	8,800	8,700	6,800	6,800	6,800
C27B1C01	02/15/00	02-04ft	6,700	6,700	3,300	3,300	3,300	3,300	800	3,300	3,300	3,300	3,300	3,300	3,300
C28B1C01	02/15/00	02-04ft	6,700	6,700	3,300	3,300	3,300	3,300	800	3,300	3,300	3,300	3,300	3,300	3,300
C29C1C01	02/15/00	04-06ft	28,000	28,000	14,000	14,000	8,100	9,800	7,100	11,000	4,200	3,800	14,000	14,000	14,000
C30C1C01	02/24/00	04-06ft	7,300	7,300	3,600	3,600	3,600	460	500	1,600	880	520	3,600	3,600	3,600
C31B1C01	02/16/00	02-04ft	8,000	8,000	4,000	4,000	4,000	910	680	1,500	4,000	680	4,000	4,000	4,000
C37E1C01	02/15/00	08-10ft	6,900	6,900	3,400	3,400	3,400	3,400	800	3,400	3,400	3,400	3,400	3,400	3,400
C33F1C01	02/24/00	10-12ft	7,100	7,100	3,500	3,500	3,500	3,500	800	3,500	3,500	3,500	3,500	3,500	3,500
C43G1C01	02/24/00	12-14ft	7,200	7,200	3,600	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600
C35C1C01	02/15/00	04-06ft	7,000	7,000	3,400	3,400	3,400	3,400	800	3,400	3,400	3,400	3,400	3,400	3,400
C36B1C01	02/16/00	02-04ft	8,500	8,500	4,200	4,200	4,200	4,200	800	4,200	4,200	4,200	4,200	4,200	4,200
C37E1C01	02/15/00	08-10ft	6,900	6,900	3,400	3,400	3,400	3,400	800	3,400	3,400	3,400	3,400	3,400	3,400
C38E1C01	02/24/00	08-10ft	7,000	7,000	3,500	3,500	3,500	3,500	800	3,500	3,500	3,500	3,500	3,500	3,500
C38E1C01 dup	02/24/00	08-10ft	7,100	7,100	3,500	3,500	3,500	3,500	800	3,500	3,500	3,500	3,500	3,500	3,500
C39F1C01	02/24/00	10-12ft	7,300	7,300	3,600	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600
C40E1C01	02/15/00	08-10ft	6,900	6,900	3,400	3,400	3,400	3,400	800	3,400	3,400	3,400	3,400	3,400	3,400
C41C1C01	02/16/00	04-06ft	7,100	7,300	3,600	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600
C42C1C01	02/15/00	04-06ft	7,800	7,800	3,800	3,800	3,800	3,800	800	3,800	3,800	3,800	3,800	3,800	3,800
C43C1C01	02/15/00	04-06ft	6,900	6,900	3,400	3,400	3,400	3,400	800	3,400	3,400	3,400	3,400	3,400	3,400
C44E1C01	02/24/00	08-10ft	6,900	6,900	3,400	3,400	3,400	3,400	800	3,400	3,400	3,400	3,400	3,400	3,400
C45C1C01	02/24/00	04-06ft	7,000	7,000	3,400	3,400	3,400	3,400	800	3,400	3,400	3,400	3,400	3,400	3,400
C46C1C01	02/24/00	04-06ft	7,100	7,100	3,500	3,500	3,500	3,500	800	3,500	3,500	3,500	3,500	3,500	3,500
C47C1C01	02/17/00	04-06ft	6,800	6,800	3,400	3,400	3,400	3,400	800	3,400	3,400	3,400	3,400	3,400	3,400
C48B1C01	02/16/00	02-04ft	7,400	7,400	3,600	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600
C49B1C01	02/16/00	02-04ft	7,400	7,400	3,600	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600
C49C1C01-A	6/20/00	04-06ft	R	R	R	R	2,500,000	2,000,000	1,100,000	1,600,000	570,000	800,000	R	R	R
C49C1C01-B	6/20/00	04-06ft													
C49C1C01-C	6/20/00	04-06ft													
C49C1C01-D	6/20/00	04-06ft													
C49C1C01-E	6/20/00	04-06ft													
C49C1C01-F	6/20/00	04-06ft													
C49C1C01-G	6/20/00	04-06ft													
C50C1C01	02/16/00	04-06ft	7,600	7,600	3,700	3,700	3,700	3,700	800	3,700	3,700	3,700	3,700	3,700	3,700
C51B1C01	02/16/00	02-04ft	7,200	7,200	3,600	3,600	3,600	410	800	390	3,600	3,600	3,600	3,600	3,600
C52B1C01	02/16/00	02-04ft	7,000	7,000	3,400	3,400	3,400	410	800	390	3,400	3,400	3,400	3,400	3,400
C53B1C01	02/16/00	02-04ft	7,300	7,300	3,600	3,600	3,600	3,600	800	860	3,600	3,600	3,600	3,600	3,600
C55C1C01	02/16/00	04-06ft	7,800	7,800	3,900	3,900	3,900	3,900	800	3,900	3,900	3,900	3,900	3,900	3,900

APPENDIX E  
TABLE E-3  
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area C  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	4-Nitrosaniline	4-Nitrophenol	Ac-naphthene	Ac-naphthylene	Anthracene	Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(g,h,i)perylene	Benzo(k)-fluoranthene	bis(2-Chloroethyl) ether	bis(2-Chloroethyl) methane	bis(2-Chloroethyl) ethyl ether	bis(2-Ethylhexyl) phthalate
C56C1C01	02/16/00	04-06ft	7,600	7,600	3,700	3,700	3,700	3,700	800	3,700	3,700	3,700	3,700	3,700	3,700	3,700
C57D1C01	02/16/00	02-04ft	7,700	7,700	500	3,800	630	1,100	820	1,000	1,800	550	3,800	3,800	3,800	3,800
C58B1C01	02/16/00	02-04ft	7,700	7,700	3,800	3,800	430	1,400	1,200	1,700	3,800	960	3,800	3,800	3,800	3,800
C58B1C01dup	02/16/00	02-04ft	7,900	7,900	3,900	3,900	450	1,700	1,500	2,000	3,900	900	3,900	3,900	3,900	3,900
C59B1C01	02/16/00	02-04ft	8,000	8,000	3,900	3,900	3,900	3,900	800	3,900	3,900	3,900	3,900	3,900	3,900	3,900
C64B1C01	02/11/00	03-04ft	7,300	7,300	3,600	3,600	3,600	3,600	400	1,300	3,600	440	3,600	3,600	3,600	3,600
C65E1C01	02/11/00	06-10ft	7,300	7,300	3,600	3,600	3,600	3,600	5,200	6,400	2,800	2,800	3,600	3,600	3,600	3,600
C66E1C01	02/11/00	04-06ft	6,900	6,900	3,400	3,400	3,400	3,400	800	3,400	3,400	3,400	3,400	3,400	3,400	3,400
C67C1C01	02/17/00	04-06ft	7,400	7,400	3,700	3,700	3,700	3,700	800	3,700	3,700	3,700	3,700	3,700	3,700	3,700
C68C1C01	02/17/00	04-06ft	7,200	7,200	3,500	3,500	3,500	3,500	800	3,500	3,500	3,500	3,500	3,500	3,500	3,500
C69B1C01	02/11/00	02-04ft	7,400	7,400	3,600	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600	3,600
C70C1C01	02/11/00	04-06ft	14,000	14,000	7,100	14,000	13,000	61,000	45,000	61,000	22,000	3,600	7,100	7,100	7,100	7,100
C71B1C01	02/11/00	02-04ft	7,200	7,200	3,500	3,500	3,500	3,500	800	3,500	3,500	3,500	3,500	3,500	3,500	3,500
C72B1C01	02/11/00	03-04ft	7,300	7,300	3,600	3,600	3,600	3,600	660	910	390	440	3,600	3,600	3,600	3,600
C73B1C01	02/11/00	02-04ft	6,900	6,900	3,400	3,400	3,400	3,400	380	570	3,400	3,400	3,400	3,400	3,400	3,400
C74B1C01	02/11/00	02-04ft	7,000	7,000	3,500	3,500	3,500	3,500	800	3,500	3,500	3,500	3,500	3,500	3,500	3,500
C75E1C01	02/10/00	08-10ft	7,200	7,200	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
C76E1C01	02/10/00	10-12ft	7,800	7,800	3,800	3,800	3,800	3,800	5,300	5,800	1,800	2,800	3,800	3,800	3,800	3,800
C76E1C01dup	02/10/00	10-12ft	7,800	7,800	3,800	3,800	3,800	3,800	10,000	12,000	3,800	3,800	3,800	3,800	3,800	3,800
C77E1C01	02/10/00	08-10ft	7,700	7,700	3,800	3,800	3,800	3,800	920	1,500	3,800	750	3,800	3,800	3,800	3,800
C78D1C01	02/09/00	06-08ft	7,600	7,600	3,700	3,700	3,700	3,700	800	3,700	3,700	3,700	3,700	3,700	3,700	3,700
C79E1C01	02/10/00	08-10ft	7,600	7,600	3,700	3,700	3,700	3,700	3,700	3,700	3,700	3,700	3,700	3,700	3,700	3,700
C80F1C01	02/10/00	10-12ft	6,800	6,800	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,400
C81E1C01	02/10/00	08-10ft	7,200	7,200	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
C82E1C01	02/10/00	08-10ft	7,500	7,500	3,700	3,700	3,700	3,700	3,700	3,700	3,700	3,700	3,700	3,700	3,700	3,700

Notes:

All results in micrograms per kilogram (µg/kg)

U - Compound not detected above

J - Estimated concentration

E - Estimated concentration; calibration range exceeded

R - Data rejected due to QC violation

D - Analyte concentration obtained from dilution

\*\* - Sample not tested

||| - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.



SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area C  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	Butylbenzyl-phthalate	Carbazole	Chrysene	Dip-n-butyl-phthalate	Di-n-octyl-phthalate	Dibenzof(a,h)-anthracene	Dibenzofuran	Diethyl-phthalate	Dimethyl-phthalate	Fluoranthene	Fluorene	Hexachloro-benzene	Hexachloro-butadiene
Greater Than 100 Feet from Shore															
C05C1C01	01/11/00	04-06ft	4,000 U	4,000 U	5,200 U	4,000 U	4,000 U	800 U	4,000 U	4,000 U	4,000 U	5,300 U	4,000 U	4,000 U	4,000 U
C06B1C01	01/11/00	02-04ft	3,900 U	3,900 U	8,800 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,200 U	3,900 U	3,900 U	3,900 U
C07B1C01	01/11/00	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
C09C1C01	01/11/00	04-06ft	3,600 U	860 U	2,600 U	3,600 U	3,600 U	800 U	3,400 U	3,600 U	3,600 U	6,100 U	7,400 U	3,600 U	3,600 U
C10C1C01	01/11/00	04-06ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	800 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
C18D1C01	12/13/99	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
C19C1C01	12/13/99	04-06ft	3,500 U	3,500 U	1,700 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	2,000 U	3,500 U	3,500 U	3,500 U
C20C1C01	02/15/00	04-06ft	3,500 U	3,500 U	600 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	450 U	3,500 U	3,500 U	3,500 U
C21C1C01	02/15/00	04-06ft	3,600 U	3,600 U	4,700 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	5,200 U	3,600 U	3,600 U	3,600 U
C23B1C01	02/15/00	02-04ft	7,500 U	7,500 U	2,400 U	7,500 U	7,500 U	1,600 U	1,200 U	7,500 U	7,500 U	4,200 U	2,600 U	7,500 U	7,500 U
C24C1C01	02/15/00	04-06ft	3,600 U	3,600 U	800 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	880 U	1,600 U	3,600 U	3,600 U
C25E1C01	02/15/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	480 U	3,500 U	3,500 U	3,500 U
C26C1C01	02/15/00	04-06ft	6,800 U	7,900 U	21,000 U	6,800 U	6,800 U	2,800 U	9,400 U	6,800 U	6,800 U	54,000 U	13,000 U	6,800 U	6,800 U
C27B1C01	02/15/00	02-04ft	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	800 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U
C28B1C01	02/15/00	02-04ft	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	800 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U
C29C1C01	02/15/00	04-06ft	14,000 U	3,900 U	10,000 U	14,000 U	14,000 U	3,200 U	4,800 U	14,000 U	14,000 U	26,000 U	8,100 U	14,000 U	14,000 U
C30C1C01	02/16/00	04-06ft	3,600 U	3,600 U	770 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	580 U	3,600 U	3,600 U	3,600 U
C31B1C01	02/16/00	02-04ft	4,000 U	4,000 U	1,100 U	4,000 U	4,000 U	800 U	4,000 U	4,000 U	4,000 U	960 U	4,000 U	4,000 U	4,000 U
C32E1C01	02/15/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	530 U	3,400 U	3,400 U	3,400 U
C33F1C01	02/16/00	10-12ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C34G1C01	02/16/00	12-14ft	3,600 U	3,600 U	1,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
C35C1C01	02/15/00	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C36B1C01	02/16/00	02-04ft	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	800 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U
C37E1C01	02/15/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C38E1C01	02/15/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C38E1C01 dup	02/16/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C39F1C01	02/24/00	10-12ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
C40E1C01	02/15/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C41C1C01	02/16/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
C42C1C01	02/15/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
C43C1C01	02/15/00	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C44E1C01	02/24/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C45C1C01	02/24/00	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C46C1C01	02/24/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C47C1C01	02/17/00	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C48B1C01	02/16/00	02-04ft	3,400 U	3,600 U	3,600 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C49B1C01	02/16/00	02-04ft	3,600 U	1,200,000 U	1,600,000 U	3,600 U	3,600 U	140,000 U	1,900,000 U	3,600 U	3,600 U	4,400,000 U	2,700,000 U	3,600 U	3,600 U
C49C1C01-A	6/20/00	04-06ft													
C49C1C01-B	6/20/00	04-06ft													
C49C1C01-C	6/20/00	04-06ft													
C49C1C01-D	6/20/00	04-06ft													
C49C1C01-E	6/20/00	04-06ft													
C49C1C01-F	6/20/00	04-06ft													
C49C1C01-G	6/20/00	04-06ft													
C50C1C01	02/16/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
C51B1C01	02/16/00	02-04ft	3,600 U	3,600 U	440 U	3,600 U	3,600 U	800 U	3,70 U	3,600 U	3,600 U	960 U	3,600 U	3,600 U	3,600 U
C52B1C01	02/16/00	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	760 U	3,400 U	3,400 U	3,400 U
C53D1C01	02/16/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
C55C1C01	02/16/00	04-06ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U

APPENDIX E  
 TABLE E-3  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Subsurface Soil Analytical Summary - Area C  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	Butylbenzyl-phthalate	Carbazole	Chrysene	Di-n-butyl-phthalate	Di-n-octyl-phthalate	Dibenzof(a,h)-anthracene	Dibenzofuran	Diethyl-phthalate	Dimethyl-phthalate	Fluoranthene	Fluoranthene	Hexachloro-benzene	Hexachloro-butadiene
C56C1C01	02/16/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
C57B1C01	02/16/00	02-04ft	3,800 U	3,800 U	1,100 J	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
C58B1C01	02/16/00	02-04ft	3,800 U	3,800 U	1,500 J	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
C58B1C01 dup	02/16/00	02-04ft	3,900 U	3,900 U	1,800 J	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
C59B1C01	02/16/00	02-04ft	3,900 U	3,900 U	1,900 J	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
C64B1C01	02/11/00	02-04ft	3,600 U	3,600 U	940 J	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
C65E1C01	02/11/00	06-10ft	3,600 U	3,600 U	4,800 U	3,600 U	3,600 U	860 J	430 J	3,600 U	3,600 U	8,600 U	3,600 U	3,600 U	3,600 U
C66C1C01	02/11/00	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C67C1C01	02/11/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
C68C1C01	02/17/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C69B1C01	02/11/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
C70C1C01	02/11/00	04-06ft	7,100 U	970 J	55,000 J	7,100 U	9,100 U	9,100 U	7,100 U	7,100 U	7,100 U	98,000 U	7,100 U	7,100 U	7,100 U
C71B1C01	02/11/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C72B1C01	02/11/00	02-04ft	3,600 U	3,600 U	840 J	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	830 J	3,600 U	3,600 U	3,600 U
C73B1C01	02/11/00	02-04ft	3,400 U	3,400 U	440 J	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	780 J	3,400 U	3,400 U	3,400 U
C74B1C01	02/11/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C75E1C01	02/10/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C76F1C01	02/10/00	10-12ft	3,800 U	1,400 J	6,100 U	3,800 U	3,800 U	800 U	780 J	3,800 U	3,800 U	10,000 U	3,800 U	3,800 U	3,800 U
C76F1C01 dup	02/10/00	10-12ft	3,800 U	6,300 U	11,000 U	3,800 U	3,800 U	1,000 J	3,000 J	3,800 U	3,800 U	21,000 U	3,800 U	3,800 U	3,800 U
C77E1C01	02/10/00	08-10ft	3,800 U	3,800 U	1,200 J	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
C78D1C01	02/09/00	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	670 J	3,700 U	3,700 U	3,700 U
C79E1C01	02/10/00	08-10ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
C80F1C01	02/10/00	10-12ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
C81E1C01	02/10/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
C82E1C01	02/10/00	08-10ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from dilution  
 -- - Sample not tested  
 (1) - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area C  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	Mesochloro-cyclopentadiene	Mesochloroethane	Indene(1,2,3-cd)pyrene	Isophorone	N-Nitroso-propylamine	N-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
Greater Than 100 Feet from Shore														
C05C1C01	01/11/00	04-06ft	4,000 U	4,000 U	5,400 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,100 U	740 J	4,000 U	4,000 J
C06B1C01	01/11/00	02-04ft	3,900 U	3,900 U	16,000 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	2,400 J
C07B1C01	01/11/00	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
C09C1C01	01/11/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	1,100,000 E	3,600 U	7,400 U	14,000 U	3,600 U	6,200 U
C10C1C01	01/11/00	04-06ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	4,000 U
C18D1C01	12/13/99	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
C19C1C01	12/13/99	04-06ft	3,500 U	3,500 U	690 J	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	1,800 J
C30C1C01	12/14/99	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	470 J
C32C1C01	02/15/00	04-06ft	3,600 U	3,600 U	1,500 J	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	990 J	3,600 U	8,000 U
C33B1C01	02/15/00	02-04ft	7,500 U	7,500 U	7,500 U	7,500 U	7,500 U	7,500 U	91,000 U	7,500 U	15,000 U	7,400 J	7,500 U	4,100 J
C34C1C01	02/15/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	1,100 J	3,600 U	7,400 U	820 J	3,600 U	1,700 J
C35E1C01	02/24/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	370 J	3,500 U	510 J
C36C1C01	02/15/00	04-06ft	6,800 U	6,800 U	9,800 U	740 J	6,800 U	6,800 U	23,000 U	6,800 U	14,000 U	70,000 U	6,800 U	42,000 U
C37B1C01	02/15/00	02-04ft	3,300 U	3,300 U	3,300 U	3,300 U	3,300 U	3,300 U	1,100 J	3,300 U	6,700 U	3,300 U	3,300 U	3,300 U
C38B1C01	02/15/00	02-04ft	3,300 U	3,300 U	3,300 U	3,300 U	3,300 U	3,300 U	3,300 U	3,300 U	6,700 U	3,300 U	3,300 U	3,300 U
C39C1C01	02/15/00	04-06ft	14,000 U	14,000 U	5,100 J	14,000 U	14,000 U	14,000 U	160,000 U	14,000 U	28,000 U	38,000 U	14,000 U	18,000 U
C30C1C01	02/24/00	04-06ft	3,600 U	3,600 U	880 J	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	500 J
C31B1C01	02/16/00	02-04ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,000 U	4,000 U	4,000 U	4,000 U
C32E1C01	02/15/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	740 J	3,400 U	740 J
C33F1C01	10-12ft	10-12ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
C34G1C01	02/24/00	12-14ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
C35C1C01	02/15/00	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
C36B1C01	02/16/00	02-04ft	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	8,500 U	4,200 U	4,200 U	4,200 U
C37E1C01	02/15/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
C38E1C01	02/24/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U
C38E1C01dup	02/24/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U
C39F1C01	02/24/00	10-12ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
C40E1C01	02/15/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	790 J	3,400 U	3,400 U
C41C1C01	02/16/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U
C42C1C01	02/15/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U
C43C1C01	02/15/00	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
C44E1C01	02/24/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
C45C1C01	02/24/00	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
C46C1C01	02/24/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U
C47C1C01	02/17/00	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,800 U	3,400 U	3,400 U	3,400 U
C48B1C01	02/16/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
C49B1C01	02/16/00	02-04ft	3,600 U	3,600 U	740,000 J	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
C49C1C01-A	6/20/00	04-06ft	R	R	R	R	R	R	5,200,000 J	R	R	7,000,000 J	65,000 J	3,900,000 J
C49C1C01-B	6/20/00	04-06ft	-	-	-	-	-	-	3,500 U	-	-	-	-	-
C49C1C01-C	6/20/00	04-06ft	-	-	-	-	-	-	3,500 U	-	-	-	-	-
C49C1C01-D	6/20/00	04-06ft	-	-	-	-	-	-	3,500 U	-	-	-	-	-
C49C1C01-E	6/20/00	04-06ft	-	-	-	-	-	-	3,100 U	-	-	-	-	-
C49C1C01-F	6/20/00	04-06ft	-	-	-	-	-	-	3,100 U	-	-	-	-	-
C49C1C01-G	6/20/00	04-06ft	-	-	-	-	-	-	3,500 U	-	-	-	-	-
C50C1C01	02/16/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
C51B1C01	02/16/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	1,900 J	3,600 U	720 J
C52B1C01	02/16/00	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	510 J	3,400 U	510 J
C53B1C01	02/16/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
C55C1C01	02/16/00	04-06ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	3,900 U

APPENDIX E  
 TABLE E-3  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Subsurface Soil - Analytical Summary - Area C  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	Hexachloro- cyclo- pentadiene	Hexachloroeth- ane	Indene(1,2,3- cd) pyrene	Isophorene	N-Nitroso-di-n propylamine	N-Nitroso- diphenyl- amine	Naphthalene	Nitrobenzene	Pentachloro- phenol	Phenanthrene	Phenol	Pyrene
C56C1C01	02/16/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	450 J
C57B1C01	02/16/00	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	2,400 J
C58B1C01	02/16/00	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	2,600 J
C58B1C01 dup	02/16/00	02-04ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,400 J
C59B1C01	02/16/00	02-04ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 J
C64B1C01	02/11/00	06-10ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,600 U	3,600 U	3,600 U	750 J
C65E1C01	02/11/00	06-10ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,600 U	3,600 U	3,600 U	750 J
C66C1C01	02/11/00	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	7,400 U	3,400 U	3,400 U	7,100 J
C67C1C01	02/11/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,700 U	3,700 U	3,700 U	3,400 U
C68C1C01	02/17/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,500 U	3,500 U	3,500 U	3,700 U
C69B1C01	02/11/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,600 U	3,600 U	3,600 U	3,500 U
C70C1C01	02/11/00	04-06ft	7,100 U	7,100 U	27,000 U	7,100 U	7,100 U	7,100 U	720 J	7,100 U	14,000 U	720 J	3,600 U	3,600 U
C71B1C01	02/11/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,500 U	3,500 U	3,500 U	84,000 U
C72B1C01	02/11/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,600 U	3,600 U	3,600 U	3,500 U
C73B1C01	02/11/00	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	7,400 U	3,400 U	3,400 U	890 J
C74B1C01	02/11/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,500 U	3,500 U	3,500 U	710 J
C75E1C01	02/10/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,500 U	3,500 U	3,500 U	3,500 U
C76F1C01	02/10/00	10-12ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	23,000 U
C76F1C01 dup	02/10/00	10-12ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	38,000 U
C77E1C01	02/10/00	08-10ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	6,000 J	3,800 U	7,800 U	3,800 U	3,800 U	2,800 J
C78D1C01	02/09/00	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	610 J	3,700 U	7,700 U	3,700 U	3,700 U	560 J
C79E1C01	02/10/00	08-10ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,700 U	3,700 U	3,700 U	3,700 U
C80E1C01	02/10/00	10-12ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	7,400 U	3,400 U	3,400 U	3,400 U
C81E1C01	02/10/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,500 U	3,500 U	3,500 U	3,500 U
C82E1C01	02/10/00	08-10ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,700 U	3,700 U	3,700 U	3,700 U

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above  
 method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range  
 exceeded.  
 R - Data rejected due to QC violation  
 D - Analytic concentration obtained from dilution  
 -- Sample not listed  
 (1) - Multiple analysis of sample conducted;  
 result presented is the highest detected or  
 or lowest quantitation limit for constituent







APPENDIX E  
TABLE E-4  
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area D  
Providence Gas Company  
612 Allen Avenue, Providence, Rhode Island

Sample No.	Date	Depth	3-Methyl-naphthalene	2-Methyl-phenol	2-Nitroaniline	2-Nitrophenol	3,3-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromo-phenyl-phenylether	4-Chloro-3-Methyl-phenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methyl-phenol	4-Nitroaniline	4-Nitrophenol
D51C1C01	12/07/99	04-06ft	480,000 E	600 J	7,500 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	7,500 U
D53C1C01-A	6/20/00	01-06ft														
D53C1C01-B	6/20/00	01-06ft														
D53B1C01-B-DL	6/20/00	01-06ft														
D53B1C01-C	6/20/00	02-04ft														
D54C1C01	12/07/99	01-06ft														
D53E1C01	12/08/99	08-10ft														
D56D1C01	12/08/99	06-08ft														
D57B1C01	12/08/99	02-04ft														
D58D1C01	12/08/99	06-08ft														
D59C1C01	12/08/99	04-06ft														
D60B1C01	12/08/99	02-04ft														
D61D1C01	12/09/99	06-08ft														
D62E1C01	12/09/99	08-10ft														
D62C1C01-A	6/20/00	04-06ft														
D62C1C01-B	6/20/00	04-06ft														
D62C1C01-C	6/20/00	04-06ft														
D62C1C01-C-DL	6/20/00	04-06ft														
D63D1C01	12/09/99	06-08ft	680,000 E	2,600 J	7,600 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	7,600 U	7,600 U
D64C1C01	12/11/99	04-06ft	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	7,200 U	7,200 U
D65C1C01	12/11/99	04-06ft	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	7,100 U	7,100 U
D66B1C01	12/12/99	02-04ft	380 U	380 U	770 U	380 U	380 U	770 U	380 U	380 U	380 U	380 U	380 U	770 U	770 U	770 U
D67C1C01	12/22/99	04-06ft	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	7,500 U	7,500 U
D68C1C01	12/23/99	04-06ft	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	7,500 U	7,500 U
D69C1C01	12/23/99	04-06ft	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	7,200 U	7,200 U
D70B1C01	12/23/99	02-04ft	3,200 U	4,200 U	8,500 U	4,200 U	4,200 U	8,500 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	8,500 U	8,500 U	8,500 U
D71D1C01	12/23/99	06-08ft	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,100 U	8,100 U	8,100 U
D71D1C01dup	12/23/99	06-08ft	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	7,600 U	7,600 U
D72B1C01	01/26/00	02-04ft	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	7,200 U	7,200 U
D73B1C01	02/01/00	02-04ft	3,100 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	7,200 U	7,200 U
D74C1C01	01/26/00	04-06ft	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	7,100 U	7,100 U
D74C1C01dup	01/26/00	04-06ft	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	7,200 U	7,200 U
D75B1C01	01/28/00	04-06ft	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	7,100 U	7,100 U
D76C1C01	01/28/00	02-04ft	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	7,400 U	7,400 U
D77B1C01	01/26/00	02-04ft	5,100 U	5,100 U	10,000 U	5,100 U	5,100 U	10,000 U	5,100 U	5,100 U	5,100 U	5,100 U	5,100 U	10,000 U	10,000 U	10,000 U
D78B1C01	01/26/00	02-04ft	2,100 J	4,100 U	8,700 U	4,100 U	4,100 U	8,700 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	8,700 U	8,700 U	8,700 U
D79B1C01	01/26/00	02-04ft	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	7,600 U	7,600 U
D80B1C01	01/26/00	02-04ft	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	7,300 U	7,300 U
D81B1C01	01/19/00	02-04ft	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	7,400 U	7,400 U
D82C1C01	01/28/00	04-06ft	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	7,400 U	7,400 U
D84C1C01	01/25/00	04-06ft	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	7,500 U	7,500 U
D85C1C01	01/25/00	04-06ft	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	7,400 U	7,400 U
D86B1C01	02/02/00	02-04ft	5,600 U	5,600 U	11,000 U	5,600 U	5,600 U	11,000 U	5,600 U	5,600 U	5,600 U	5,600 U	5,600 U	11,000 U	11,000 U	11,000 U
D87C1C01	01/25/00	04-06ft	820 J	4,400 U	8,900 U	4,400 U	4,400 U	8,900 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	8,900 U	8,900 U	8,900 U
D88B1C01	01/25/00	02-04ft	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	7,700 U	7,700 U
D89B1C01	01/23/00	02-04ft	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	7,500 U	7,500 U
D90B1C01	01/28/00	02-04ft	6,200 U	3,800 U	7,600 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	7,600 U	7,600 U
D91B1C01	01/28/00	02-04ft	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	7,900 U	7,900 U
D95C1C01	03/07/00	04-06ft	38,000 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	7,400 U	7,400 U

Notes:  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above reporting limit  
 J - Estimated concentration  
 E - Estimated conc; calibration range exceeded  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from dilution  
 \*\* - Sample not tested  
 (1) - Multiple analysis of sample conducted;  
 result - conc'd is the highest detected or  
 violation limit for constituent.  
 \*\*Subsurface-7] Area D



SEMI-VOLATILE ORG. COMPOUNDS (SVOCs)  
 Subsurface Soil Analytical Summary - Area D  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	Acet-naphthalene	Acet-naphthalylene	Anthracene	Benzof(a)-anthracene	Benzof(a)-pyrene	Benzof(b)-fluoranthene	Benzof(k)fluoranthene	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Bis(2-benzyl)phthalate	Carbazole	Chrysenes
Locations within 100 ft of Shore															
D92D1C01	01/28/00	04-06ft	4,000 U	4,000 U	4,000 U	4,000 U	800 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	1,000 U	4,000 U	4,000 U
D93C1C01	01/28/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
D94C1C01	01/28/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
Locations greater than 100 ft of Shore															
D01C1C01	11/17/99	04-06ft	350 U	350 U	350 U	350 U	69 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U
D02C1C01	11/17/99	04-06ft	1,600 U	1,600 U	1,600 U	1,600 U	14,000 U	14,000 U	14,000 U	14,000 U	14,000 U	14,000 U	14,000 U	14,000 U	14,000 U
D03C1C01	11/17/99	04-06ft	2,100 U	2,100 U	2,100 U	2,100 U	680 U	90,000 U	410 U	90,000 U	90,000 U	90,000 U	90,000 U	90,000 U	90,000 U
D04C1C01	11/17/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D05C1C01	11/17/99	04-06ft	8,100 U	8,100 U	8,100 U	8,100 U	750 U	19,000 U	280 U	19,000 U	19,000 U	19,000 U	19,000 U	19,000 U	19,000 U
D06C1C01	11/17/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D07C1C01	11/17/99	04-06ft	10,000 U	10,000 U	10,000 U	10,000 U	460 U	38,000 U	38,000 U	38,000 U	38,000 U	38,000 U	38,000 U	38,000 U	38,000 U
D08C1C01	11/17/99	04-06ft	4,800 U	4,800 U	4,800 U	4,800 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U
D09C1C01	11/17/99	04-06ft	6,900 U	6,900 U	6,900 U	6,900 U	120 U	39 U	58 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D10C1C01	11/17/99	08-10ft	4,400 U	4,400 U	4,400 U	4,400 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U
D11C1C01	11/17/99	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
D12C1C01	11/18/99	04-06ft	1,200 U	1,200 U	1,200 U	1,200 U	390 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D13C1C01	11/18/99	08-10ft	3,000 U	3,000 U	3,000 U	3,000 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D14C1C01	11/18/99	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
D15C1C01	11/18/99	04-06ft	4,000 U	4,000 U	4,000 U	4,000 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U
D16C1C01	11/29/99	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	6,500 U	8,300 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
D17C1C01	11/29/99	04-06ft	6,000 U	6,000 U	6,000 U	6,000 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
D18C1C01	11/29/99	04-06ft	2,400 U	2,400 U	2,400 U	2,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
D19C1C01	11/30/99	04-06ft	11,000 U	11,000 U	11,000 U	11,000 U	1,500 U	710 U	410 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
D20C1C01	11/30/99	04-06ft	11,000 U	11,000 U	11,000 U	11,000 U	8,400 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
D21C1C01	11/30/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	2,900 U	980 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D22C1C01	11/30/99	04-06ft	1,600 U	1,600 U	1,600 U	1,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D23C1C01	11/30/99	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D24C1C01	12/01/99	04-06ft	6,900 U	6,900 U	6,900 U	6,900 U	380 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D25C1C01	12/01/99	04-06ft	31,000 U	31,000 U	31,000 U	31,000 U	1,600 U	72,000 U	410 U	72,000 U	72,000 U	72,000 U	72,000 U	72,000 U	72,000 U
D26C1C01	12/01/99	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
D27C1C01	12/01/99	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
D28C1C01	12/01/99	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
D29C1C01	12/01/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D30C1C01	12/01/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D31C1C01	12/01/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D32C1C01	12/01/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D33C1C01	12/01/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D34C1C01	12/02/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D35C1C01	12/02/99	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
D36C1C01	12/02/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	2,600 U	2,100 U	1,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D37C1C01	12/02/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D38C1C01	12/02/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D39C1C01	12/02/99	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
D40C1C01	12/02/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D41C1C01	12/03/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D42C1C01	12/03/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D43C1C01	12/03/99	04-06ft	25,000 U	25,000 U	25,000 U	25,000 U	610 U	400,000 U	400,000 U	400,000 U	400,000 U	400,000 U	400,000 U	400,000 U	400,000 U
D44C1C01	12/06/99	04-06ft	6,100 U	6,100 U	6,100 U	6,100 U	800 U	78,000 U	78,000 U	78,000 U	78,000 U	78,000 U	78,000 U	78,000 U	78,000 U
D45C1C01	12/06/99	04-06ft	590 U	590 U	590 U	590 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D46D1C01	12/06/99	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
D47C1C01	12/06/99	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
D48D1C01	12/06/99	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
D49C1C01	12/06/99	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
D50E1C01	12/07/99	04-10ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
D51C1C01	12/07/99	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
D52C1C01	12/07/99	04-06ft	3,000 U	3,000 U	3,000 U	3,000 U	13,000 U	5,400 U	7,800 U	3,500 U	3,500 U	3,500 U	3,500 U	710 U	15,000 U





APPENDIX E  
TABLE E-4  
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area D  
Providence Gas Company  
642 Allen Avenue, Providence, Rhode Island

Sample No.	Date	Depth	Di-n-butyl-phthalate	Di-n-octyl-phthalate	Dibenzofuran	Diethyl-phthalate	Dimethyl-phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophavene
D531C1C01	12/07/99	04-06ft	3,700 U	3,700 U	15,000 U	3,700 U	3,700 U	7,400 U	20,000 U	3,700 U	3,700 U	3,700 U	3,700 U	1,200 U	3,700 U
D531C1C01-A	6/20/00	04-06ft													
D531C1C01-B	6/20/00	04-06ft													
D531C1C01-R-DL	6/20/00	04-06ft													
D531B1C01-C	6/20/00	02-04ft													
D531C1C01	12/07/99	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	730 U	670 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
D551E1C01	12/08/99	08-10ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D56D1C01	12/08/99	06-08ft	3,700 U	3,700 U	23,000 U	3,700 U	3,700 U	18,000 U	36,000 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
D531B1C01	12/08/99	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D531B1C01	12/08/99	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
D589C1C01	12/08/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D589C1C01	12/08/99	02-04ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
D589C1C01	12/08/99	06-08ft	3,700 U	3,700 U	2,400 U	3,700 U	3,700 U	3,900 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
D589C1C01	12/08/99	08-10ft	3,800 U	3,800 U	300,000 E	3,800 U	3,800 U	520,000 E	410,000 E	3,800 U	3,800 U	3,800 U	3,800 U	150,000 E	3,800 U
D623C1C01-A	6/20/00	04-06ft													
D623C1C01-B	6/20/00	04-06ft													
D623C1C01-C	6/20/00	04-06ft													
D623C1C01-C-DL	6/20/00	04-06ft													
D63D1C01	12/08/99	06-08ft	3,800 U	3,800 U	88,000 E	3,800 U	3,800 U	130,000 E	130,000 E	3,800 U	3,800 U	3,800 U	3,800 U	41,000 U	3,800 U
D64C1C01	12/11/99	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
D64C1C01	12/11/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D64C1C01	12/11/99	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
D6681C01	12/21/99	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
D6681C01	12/21/99	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
D6681C01	12/21/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D6681C01	12/21/99	02-04ft	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U
D71D1C01	12/23/99	06-08ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
D71D1C01-dup	12/23/99	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
D7281C01	01/26/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D7281C01	02/01/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
D741C01	01/26/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
D741C01-dup	01/26/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D75C1C01	01/23/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D75C1C01	01/23/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D7681C01	01/26/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D7701C01	01/26/00	02-04ft	5,100 U	5,100 U	3,300 U	5,100 U	5,100 U	12,000 U	2,400 U	5,100 U	5,100 U	5,100 U	5,100 U	5,100 U	5,100 U
D7701C01	01/26/00	02-04ft	4,300 U	4,300 U	4,300 U	4,300 U	4,300 U	37,000 U	5,000 U	4,300 U	4,300 U	4,300 U	4,300 U	4,300 U	4,300 U
D7981C01	01/26/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	450 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
D8081C01	01/26/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D8181C01	01/19/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D82C1C01	01/28/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D83C1C01	01/23/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
D83C1C01	01/23/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
D8681C01	02/02/00	02-04ft	5,600 U	5,600 U	870 U	5,600 U	5,600 U	7,700 U	1,600 U	5,600 U	5,600 U	5,600 U	5,600 U	5,600 U	5,600 U
D87C1C01	01/25/00	04-06ft	4,400 U	4,400 U	1,900 U	4,400 U	4,400 U	63,000 U	6,500 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U
D88B1C01	01/25/00	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	15,000 U	1,100 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
D89B1C01	01/28/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	1,200 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
D90B1C01	01/28/00	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	2,200 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
D91B1C01	01/28/00	02-04ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
D95C1C01	03/07/00	04-06ft	3,600 U	3,600 U	33,000 U	3,600 U	3,600 U	79,000 E	42,000 U	3,600 U	3,600 U	3,600 U	3,600 U	32,000 U	3,600 U

Notes:  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above reporting limit  
 J - Estimated concentration  
 E - Estimated value; calibration range exceeded  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from dilution  
 -- Sample not tested  
 [1] - Multiple analysis of sample conducted;  
 result -- is the highest detected or  
 addition limit for constituent.

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area D  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	N-Nitroso-di-n-propylamine	N-Nitroso-diphenylamine	Naphthalene	Nitrobenzene	Pentachlorophenol	Fluoranthene	Phenol	Pyrene
Locations within 100 ft of Shore										
D92B1C01	01/28/00	02-04ft	4,000 U	4,000 U	4,000 U	4,000 U	8,200 U	4,000 U	4,000 U	4,000 U
D93C1C01	01/28/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
D94C1C01	01/28/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
Locations greater than 100 ft of Shore										
D001C1C01	11/17/99	04-06ft	350 U	350 U	350 U	350 U	720 U	140 J	350 U	250 J
D002C1C01	11/17/99	04-06ft	14,000 U	14,000 U	100,000 E	14,000 U	29,000 U	5,300 DJ	14,000 U	610
D003C1C01 (I)	11/17/99	04-06ft	90,000 U	90,000 U	830,000 E	90,000 U	180,000 U	39,000 DJ	90,000 U	3,100
D004C1C01	11/17/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
D005C1C01 (I)	11/17/99	04-06ft	19,000 U	19,000 U	310,000 E	19,000 U	38,000 U	11,000 DJ	19,000 U	2,200 J
D006C1C01	11/17/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
D007C1C01 (I)	11/17/99	04-06ft	38,000 U	38,000 U	480,000 E	38,000 U	77,000 U	24,000 DJ	38,000 U	1,400
D008C1C01 (I)	11/17/99	04-06ft	18,000 U	18,000 U	170,000 E	18,000 U	38,000 U	17,000 DJ	18,000 U	970
D009C1C01 (I)	11/17/99	08-10ft	3,600 U	3,600 U	38,000 E	3,600 U	7,200 U	2,500 DJ	3,600 U	290
D009E1C01 (I)	11/17/99	04-06ft	37,000 U	37,000 U	360,000 E	37,000 U	75,000 U	13,000 DJ	37,000 U	920
D009E1C01 (I)	11/17/99	08-10ft	18,000 U	18,000 U	240,000 E	18,000 U	37,000 U	6,200 DJ	18,000 U	660
D100E1C01 (I)	11/17/99	08-10ft	29,000 U	29,000 U	350,000 E	29,000 U	58,000 U	3,600 DJ	29,000 U	830
D11C1C01	11/18/99	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U
D12C1C01	11/18/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
D13E1C01	11/18/99	08-10ft	3,600 U	3,600 U	120,000 E	3,600 U	7,200 U	3,600 U	3,600 U	380 J
D14C1C01	11/18/99	04-06ft	3,700 U	3,700 U	3,100 J	3,700 U	7,500 U	3,700 U	3,700 U	6,300
D15C1C01	11/18/99	04-06ft	3,600 U	3,600 U	95,000 E	3,600 U	7,400 U	13,000 U	3,600 U	3,500 J
D16C1C01	11/29/99	04-06ft	3,700 U	3,700 U	2,100 J	3,700 U	7,500 U	3,700 U	3,700 U	11,000
D17C1C01	11/29/99	04-06ft	4,000 U	4,000 U	4,000 U	4,000 U	8,000 U	1,500 J	4,000 U	520 J
D18C1C01	11/29/99	04-06ft	3,900 U	3,900 U	15,000 U	3,900 U	8,000 U	6,800 U	3,900 U	620 J
D19C1C01	11/20/99	04-06ft	3,900 U	3,900 U	42,000 U	3,900 U	7,900 U	13,000 U	3,900 U	2,600 J
D20C1C01	11/20/99	04-06ft	3,700 U	3,700 U	810,000 E	3,700 U	7,600 U	30,000 U	3,700 U	3,600 J
D21B1C01	11/20/99	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	190,000 E	3,800 U	81,000 E
D22C1C01	11/20/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	1,900 U	3,600 U	3,000 J
D23C1C01	11/20/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U
D24C1C01	11/20/99	04-06ft	3,600 U	3,600 U	36,000 U	3,600 U	7,300 U	3,600 U	3,600 U	1,200 J
D25C1C01	12/01/99	04-06ft	3,500 U	3,500 U	2,200 J	3,500 U	7,000 U	3,500 U	3,500 U	3,500 U
D26C1C01	12/01/99	04-06ft	3,600 U	3,600 U	330,000 E	3,600 U	7,200 U	8,600 U	3,600 U	1,200 J
D27C1C01 (I)	11/20/99	04-06ft	72,000 U	72,000 U	1,200,000 E	72,000 U	140,000 U	33,000 DJ	72,000 U	3,600
D28C1C01	12/01/99	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
D29C1C01	12/01/99	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U
D30C1C01	12/01/99	04-06ft	3,700 U	3,700 U	860 J	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
D31C1C01	12/01/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
D32C1C01	12/01/99	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
D33C1C01	12/01/99	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	7,400 U	3,700 U	3,700 U	3,700 U
D34C1C01	12/02/99	04-06ft	3,600 U	3,600 U	740 J	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
D35C1C01	12/02/99	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U
D36C1C01	12/02/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	2,000 J
D37E1C01	12/02/99	08-10ft	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
D38D1C01	12/03/99	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
D39E1C01	12/03/99	08-10ft	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
D40C1C01	12/03/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
D40E1C01	12/03/99	08-10ft	3,800 U	3,800 U	35,000 E	3,800 U	7,700 U	3,200 J	3,800 U	470 J
D41C1C01	12/03/99	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
D42C1C01	12/03/99	04-06ft	3,500 U	3,500 U	920 J	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U
D43C1C01 (I)	12/03/99	04-06ft	400,000 U	400,000 U	3,500,000 E	400,000 U	810,000 U	50,000 DJ	400,000 U	4,700
D44C1C01 (I)	12/06/99	04-06ft	78,000 U	78,000 U	1,000,000 E	78,000 U	160,000 U	16,000 DJ	78,000 U	2,000
D45C1C01	12/06/99	04-06ft	3,600 U	3,600 U	17,000 U	3,600 U	7,300 U	640 J	3,600 U	3,600 U
D46D1C01	12/06/99	06-08ft	4,000 U	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	4,000 U
D47C1C01	12/06/99	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
D48D1C01	12/06/99	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
D49C1C01	12/06/99	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
D50E1C01	12/07/99	08-10ft	3,900 U	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	3,900 U
D51C1C01	12/07/99	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
D52C1C01	12/07/99	04-06ft	3,500 U	3,500 U	1,100 J	3,500 U	7,200 U	8,600 U	3,500 U	38,000 U

APPENDIX E  
TABLE E-1  
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area D  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	N-Nitropropylamine	N-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
D531C1C01	12/07/99	04-06ft	3,700 U	3,700 U	5,600,000 E	3,700 U	7,500 U	34,000 U	3,700 U	6,800
D531C1C01-A	6/20/00	04-06ft	-	-	3,600 U	-	-	-	-	-
D531C1C01-B	6/20/00	04-06ft	-	-	1,100,000 E	-	-	-	-	-
D531C1C01-B-DL	6/20/00	04-06ft	-	-	1,000,000 D	-	-	-	-	-
D531C1C01-C	6/20/00	02-04ft	3,800 U	3,800 U	2,400 J	3,800 U	7,600 U	1,100 J	3,800 U	430 J
D541C1C01	12/07/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
D551E1C01	12/08/99	08-10ft	3,700 U	3,700 U	1,400,000 E	3,700 U	7,500 U	71,000 E	3,700 U	13,000 U
D561D1C01	12/08/99	06-08ft	3,700 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
D571B1C01	12/08/99	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
D581D1C01	12/08/99	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
D601B1C01	12/08/99	02-04ft	4,000 U	4,000 U	4,000 U	4,000 U	8,000 U	4,000 U	4,000 U	4,000 U
D611D1C01	12/09/99	06-08ft	3,700 U	2,500 J	100,000 E	3,700 U	7,500 U	5,900 U	3,700 U	2,600 J
D621E1C01	12/09/99	08-10ft	3,800 U	3,800 U	3,000,000 E	3,800 U	7,800 U	880,000 E	100,000 E	620,000 E
D631C1C01-A	6/20/00	04-06ft	-	-	3,100 J	-	-	-	-	-
D631C1C01-B	6/20/00	04-06ft	-	-	7,400	-	-	-	-	-
D631C1C01-C	6/20/00	04-06ft	-	-	85,000 E	-	-	-	-	-
D631C1C01-C-DL	6/20/00	04-06ft	-	-	83,000 D	-	-	-	-	-
D631D1C01	12/09/99	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
D641C1C01	12/11/99	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	860 J	3,500 U	2,700 J
D651C1C01	12/11/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
D661B1C01	12/22/99	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
D671C1C01	12/23/99	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
D681C1C01	12/23/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
D691C1C01	12/23/99	02-04ft	4,200 U	4,200 U	4,200 U	4,200 U	8,500 U	4,200 U	4,200 U	4,200 U
D701B1C01	12/23/99	06-08ft	4,000 U	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	4,000 U
D711D1C01	12/23/99	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
D711D1C01 dup	12/26/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
D721B1C01	02/01/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U
D731B1C01	01/26/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
D741C1C01	01/26/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
D741C1C01 dup	01/26/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
D751C1C01	01/28/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
D761B1C01	01/26/00	02-04ft	5,100 U	5,100 U	440 J	5,100 U	10,000 U	5,100 U	5,100 U	9,400
D771B1C01	01/26/00	02-04ft	4,300 U	4,300 U	5,900	4,300 U	8,700 U	4,300 U	4,300 U	3,900 J
D781B1C01	01/26/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,900 J
D791B1C01	01/26/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
D801B1C01	01/19/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
D811B1C01	01/28/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
D821C1C01	01/23/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
D831C1C01	01/23/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
D841B1C01	02/02/00	02-04ft	5,600 U	5,600 U	2,600 J	5,600 U	11,000 U	5,600 U	5,600 U	18,000
D871C1C01	01/23/00	04-06ft	4,400 U	4,400 U	940 J	4,400 U	8,900 U	4,400 U	4,400 U	49,000
D881B1C01	01/23/00	02-04ft	3,800 U	3,800 U	400 J	3,800 U	7,700 U	4,400 U	600 J	11,000
D891B1C01	01/28/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
D901B1C01	01/28/00	02-04ft	3,800 U	3,800 U	5,100 U	3,800 U	7,600 U	3,800 U	3,800 U	2,600 J
D911B1C01	01/28/00	02-04ft	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
D951C1C01	03/07/00	04-06ft	3,600 U	3,600 U	110,000 E	3,600 U	7,400 U	92,000 E	3,600 U	66,000 E

Notes:  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above reporting limit  
 J - Estimated concentration  
 E - Estimated conc. calibration range exceeded  
 K - Data rejected due to QC violation  
 D - Analyte concentration obtained from dilution  
 -- Sample not tested  
 (1) - Multiple analysis of sample conducted, result presented is the highest detected, or lowest quantitation limit for constituent.

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area E  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,2-dybis(1-Chloropropane)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	7,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
E01C1C01	12/11/99	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
E02C1C01	12/13/99	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
E03B1C01	12/13/99	02-04ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,200 U	4,000 U	4,000 U	4,000 U	8,200 U	4,000 U	4,000 U	4,000 U
E04D1C01	12/13/99	06-08ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
E08B1C01	12/14/99	02-04ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
E09B1C01	12/14/99	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
E10B1C01	12/14/99	02-04ft	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	8,400 U	4,200 U	4,200 U	4,200 U	8,400 U	4,200 U	4,200 U	4,200 U
E11B1C01	12/14/99	02-04ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,200 U	4,000 U	4,000 U	4,000 U	8,200 U	4,000 U	4,000 U	4,000 U
E12B1C01	12/14/99	02-04ft	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	8,300 U	4,100 U	4,100 U	4,100 U	8,300 U	4,100 U	4,100 U	4,100 U
E13B1C01	12/14/99	02-04ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	8,000 U	3,900 U	3,900 U	3,900 U	8,000 U	3,900 U	3,900 U	3,900 U
E14B1C01	12/15/99	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
E15C1C01	12/15/99	04-06ft	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	8,300 U	4,100 U	4,100 U	4,100 U	8,300 U	4,100 U	4,100 U	4,100 U
E16B1C01	12/15/99	02-04ft	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	8,400 U	4,100 U	4,100 U	4,100 U	8,400 U	4,100 U	4,100 U	4,100 U
E17D1C01	12/15/99	02-04ft	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	8,500 U	4,200 U	4,200 U	4,200 U	8,500 U	4,200 U	4,200 U	4,200 U
E18B1C01	12/15/99	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U
E19B1C01	12/15/99	02-04ft	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	8,300 U	4,100 U	4,100 U	4,100 U	8,300 U	4,100 U	4,100 U	4,100 U
E20B1C01	12/15/99	03-04ft	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	8,600 U	4,200 U	4,200 U	4,200 U	8,600 U	4,200 U	4,200 U	4,200 U
E21B1C01	12/16/99	02-04ft	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	8,300 U	4,100 U	4,100 U	4,100 U	8,300 U	4,100 U	4,100 U	4,100 U
E22B1C01	12/16/99	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
E23C1C01	12/16/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
E24C1C01	12/16/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
E25B1C01	12/16/99	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
E26B1C01	12/17/99	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
E27B1C01	12/17/99	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
E28C1C01	12/20/99	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,300 U	3,700 U	3,700 U	3,700 U	7,300 U	3,700 U	3,700 U	3,700 U
E29C1C01	12/17/99	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
E30C1C01	12/17/99	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
E30C1C01dup	12/17/99	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
E31D1C01	12/16/99	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
E32C1C01	12/16/99	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
E32C1C01dup	12/16/99	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
E33B1C01	12/20/99	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
E34C1C01 (1)	12/20/99	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
E35C1C01	12/20/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
E36C1C01	12/21/99	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U
E37C1C01	01/26/00	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
E38C1C01	12/21/99	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
E39C1C01	01/26/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
E40B1C01	12/21/99	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
E41B1C01 (1)	12/21/99	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
E42B1C01	12/21/99	02-04ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
E43C1C01	12/21/99	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
E43C1C01dup	12/21/99	04-06ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
E44B1C01	12/21/99	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
E45B1C01	12/22/99	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
E46B1C01	12/22/99	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
E48B1C01	02/01/00	02-04ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
E52C1C01	12/22/99	04-06ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
E53C1C01	12/22/99	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,400 U	3,700 U	3,700 U	3,700 U	7,400 U	3,700 U	3,700 U	3,700 U
E53C1C01dup	12/22/99	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,400 U	3,700 U	3,700 U	3,700 U	7,400 U	3,700 U	3,700 U	3,700 U
E54B1C01	02/01/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U

Locations greater than 100 ft. of shore

APPENDIX E  
TABLE E-5  
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area E  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	1,3,4-Trichloro-benzene	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2,2-dybibis(1-Chloro-propane)	2,4,5-Trichloro-phenol	2,4,6-Trichloro-phenol	2,4-Dichloro-phenol	2,4-Dimethyl-phenol	2,4-Dinitro-phenol	2,4-Dinitro-toluene	3,6-Dinitro-toluene	2-Chloro-naphthalene
E53B1C01	02/01/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U
E57B1C01	02/02/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
E58C1C01	01/04/00	04-06ft	4,500 U	4,500 U	4,500 U	4,500 U	4,500 U	9,200 U	4,500 U	4,500 U	4,500 U	9,200 U	4,500 U	4,500 U	4,500 U
E59C1C01	01/03/00	04-06ft	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	9,100 U	4,100 U	4,100 U	4,100 U	8,300 U	4,100 U	4,100 U	4,100 U
E61B1C01	02-04ft	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
E62B1C01	01/20/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
E64B1C01	02/02/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
E65B1C01	01/21/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
E66B1C01	01/21/00	02-04ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
E67B1C01	01/21/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
E68B1C01	01/20/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
E69B1C01	01/20/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
E70B1C01	01/20/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
E71B1C01	01/20/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
E72B1C01	01/20/00	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U
E73B1C01	01/20/00	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
E74B1C01	01/21/00	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U
E75B1C01	01/19/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
E76B1C01	01/19/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
E77B1C01	01/25/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
E78B1C01	01/28/00	02-04ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,000 U	4,000 U	4,000 U	4,000 U	8,000 U	4,000 U	4,000 U	4,000 U
E79B1C01	01/25/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
E80B1C01	01/19/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
E81B1C01	01/21/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
E83C1C01	01/25/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
E83B1C01	01/21/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
E84B1C01	01/19/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
E85B1C01	01/19/00	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
E86B1C01	01/19/00	02-04ft	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	8,200 U	4,100 U	4,100 U	4,100 U	8,200 U	4,100 U	4,100 U	4,100 U
E87B1C01	01/19/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U
E88B1C01 (1)	01/19/00	02-04ft	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	8,400 U	4,100 U	4,100 U	4,100 U	8,400 U	4,100 U	4,100 U	4,100 U
E89B1C01	01/21/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
E90B1C01	01/25/00	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
E91B1C01	01/25/00	02-04ft	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	9,100 U	4,600 U	4,600 U	4,600 U	9,100 U	4,600 U	4,600 U	4,600 U
E92C1C01	03/07/00	04-06ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	3,900 U
E93C1C01	03/07/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
E93C1C01dup	03/07/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U

Notes:  
All results in micrograms per kilogram (µg/kg)  
U - Compound not detected above method reporting limit presented  
J - Estimated concentration  
E - Estimated concentration; calibration range exceeded  
R - Data rejected due to QC violation  
D - Analyte concentration obtained from dilution  
\*- Sample not tested  
[1] - Multiple analysis of sample conducted; result presented is the highest detected or



SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area E

Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenylphenylether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenylphenylether	4-Methylphenol
E01C1CO1	12/11/99	04-06ft	1,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E02C1CO1	12/13/99	04-06ft	1,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E03B1CO1	12/13/99	02-04ft	4,000 U	4,000 U	4,000 U	8,200 U	4,000 U	4,000 U	8,200 U	8,200 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
E04D1CO1	12/13/99	06-08ft	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
E06B1CO1	12/14/99	02-04ft	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
E09B1CO1	12/14/99	02-04ft	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E10B1CO1	12/14/99	02-04ft	4,200 U	4,200 U	4,200 U	8,400 U	4,200 U	4,200 U	8,400 U	8,400 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U
E11B1CO1	12/14/99	02-04ft	4,000 U	4,000 U	4,000 U	8,200 U	4,000 U	4,000 U	8,200 U	8,200 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
E12B1CO1	12/14/99	02-04ft	4,300 U	4,300 U	4,300 U	8,600 U	4,300 U	4,300 U	8,600 U	8,600 U	4,300 U	4,300 U	4,300 U	4,300 U	4,300 U
E13B1CO1	12/14/99	02-04ft	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	7,800 U	7,800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
E14B1CO1	12/15/99	02-04ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E15C1CO1	12/15/99	04-06ft	4,100 U	210,000 E	4,100 U	8,200 U	4,100 U	4,100 U	8,200 U	8,200 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
E16B1CO1	12/15/99	02-04ft	4,100 U	4,100 U	4,100 U	8,200 U	4,100 U	4,100 U	8,200 U	8,200 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
E17D1CO1	12/15/99	02-04ft	4,200 U	4,200 U	4,200 U	8,500 U	4,200 U	4,200 U	8,500 U	8,500 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U
E18B1CO1	12/15/99	02-04ft	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E19B1CO1	12/15/99	02-04ft	4,100 U	4,100 U	4,100 U	8,200 U	4,100 U	4,100 U	8,200 U	8,200 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
E20B1CO1	12/15/99	02-04ft	4,200 U	4,200 U	4,200 U	8,400 U	4,200 U	4,200 U	8,400 U	8,400 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U
E21B1CO1	12/16/99	02-04ft	4,100 U	4,100 U	4,100 U	8,200 U	4,100 U	4,100 U	8,200 U	8,200 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
E22B1CO1	12/16/99	02-04ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E23C1CO1	12/16/99	04-06ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E23C1CO1 dup	12/16/99	04-06ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E25B1CO1	12/16/99	02-04ft	3,500 U	3,500 U	3,500 U	7,000 U	3,500 U	3,500 U	7,000 U	7,000 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
E26B1CO1	12/17/99	02-04ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E27B1CO1	12/20/99	02-04ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E28C1CO1	12/20/99	04-06ft	3,700 U	3,700 U	3,700 U	7,400 U	3,700 U	3,700 U	7,400 U	7,400 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E29C1CO1	12/17/99	04-06ft	3,700 U	3,700 U	3,700 U	7,400 U	3,700 U	3,700 U	7,400 U	7,400 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E30C1CO1	12/17/99	04-06ft	3,700 U	3,700 U	3,700 U	7,400 U	3,700 U	3,700 U	7,400 U	7,400 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E30C1CO1 dup	12/17/99	04-06ft	3,700 U	3,700 U	3,700 U	7,400 U	3,700 U	3,700 U	7,400 U	7,400 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E31B1CO1	12/16/99	02-04ft	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E32C1CO1	12/16/99	04-06ft	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E32C1CO1 dup	12/16/99	04-06ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E33C1CO1	12/20/99	02-04ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E34C1CO1 (1)	12/20/99	04-06ft	3,800 U	94,000 D	3,800 U	7,600 U	3,800 U	3,800 U	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E35C1CO1	12/20/99	04-06ft	3,600 U	17,000 D	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E36C1CO1	12/21/99	04-06ft	3,60 U	7,100 E	3,60 U	7,20 U	3,60 U	3,60 U	7,20 U	7,20 U	3,60 U	3,60 U	3,60 U	3,60 U	3,60 U
E37B1CO1	01/26/00	02-04ft	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E38C1CO1	12/21/99	04-06ft	3,80 U	45,000 E	3,80 U	7,70 U	3,80 U	3,80 U	7,70 U	7,70 U	3,80 U	3,80 U	3,80 U	3,80 U	3,80 U
E39C1CO1	01/26/00	04-06ft	R	80,000 J	R	R	R	R	R	R	R	R	R	R	R
E40B1CO1	12/21/99	02-04ft	3,80 U	3,80 U	3,80 U	7,70 U	3,80 U	3,80 U	7,70 U	7,70 U	3,80 U	3,80 U	3,80 U	3,80 U	3,80 U
E41B1CO1 (1)	12/21/99	02-04ft	3,600 U	170,000	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E42B1CO1	12/21/99	02-04ft	3,90 U	530	3,90 U	7,90 U	3,90 U	3,90 U	7,90 U	7,90 U	3,90 U	3,90 U	3,90 U	3,90 U	3,90 U
E43C1CO1	12/21/99	04-06ft	3,80 U	3,200	3,80 U	7,70 U	3,80 U	3,80 U	7,70 U	7,70 U	3,80 U	3,80 U	3,80 U	3,80 U	3,80 U
E43C1CO1 dup	12/21/99	04-06ft	3,90 U	2,700	3,90 U	7,90 U	3,90 U	3,90 U	7,90 U	7,90 U	3,90 U	3,90 U	3,90 U	3,90 U	3,90 U
E44B1CO1	12/22/99	02-04ft	3,800 U	820 J	3,800 U	7,600 U	3,800 U	3,800 U	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E45B1CO1	12/22/99	02-04ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E46B1CO1	12/22/99	02-04ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E48B1CO1	02/01/00	02-04ft	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	7,800 U	7,800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
E52C1CO1	12/22/99	04-06ft	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
E53C1CO1	12/22/99	04-06ft	3,700 U	420 J	3,700 U	7,400 U	3,700 U	3,700 U	7,400 U	7,400 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E53C1CO1 dup	12/22/99	04-06ft	3,700 U	480 J	3,700 U	7,400 U	3,700 U	3,700 U	7,400 U	7,400 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E54B1CO1	02/01/00	02-04ft	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U

Locations Greater than 100 ft. of shore

APPENDIX E  
 TABLE E-5  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Subsurface Soil Analytical Summary - Area E  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	2-Chloro-phenol	2-Methyl-naphthalene	2-Methyl-phenol	2-Nitroaniline	2-Nitrophenol	3,3-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-Methyl-phenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methyl-phenol
E5501C01	02/01/00	02-04ft	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	7,100 U	7,100 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E5711C01	02/02/00	02-04ft	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E581C01	01/04/00	04-06ft	4,500 U	4,500 U	4,500 U	9,200 U	4,500 U	4,500 U	9,200 U	9,200 U	4,500 U	4,500 U	4,500 U	4,500 U	4,500 U
E591C01	01/04/00	04-06ft	4,100 U	4,100 U	4,100 U	8,200 U	4,100 U	4,100 U	8,200 U	8,200 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
E6101C01	01/20/00	02-04ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
E6201C01	01/20/00	02-04ft	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E6401C01	02/02/00	02-04ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E6501C01	01/21/00	02-04ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E6601C01	01/21/00	02-04ft	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
E6701C01	01/21/00	02-04ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E6801C01	01/20/00	02-04ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E6901C01	01/20/00	02-04ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E7001C01	01/20/00	02-04ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E7101C01	01/20/00	02-04ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E7201C01	01/20/00	02-04ft	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	7,000 U	7,000 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
E7301C01	01/20/00	02-04ft	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
E7401C01	01/21/00	02-04ft	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	7,800 U	7,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E7501C01	01/19/00	02-04ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E7601C01	01/19/00	02-04ft	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
E7701C01	01/25/00	02-04ft	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E7801C01	01/28/00	02-04ft	4,000 U	4,000 U	4,000 U	8,000 U	4,000 U	4,000 U	8,000 U	8,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
E7901C01	01/25/00	02-04ft	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E8001C01	01/19/00	02-04ft	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
E8101C01	01/21/00	02-04ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E8201C01	01/24/00	04-06ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E8301C01	01/24/00	04-06ft	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E8401C01	01/21/00	02-04ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E8501C01	01/19/00	02-04ft	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E8601C01	01/19/00	02-04ft	4,100 U	4,100 U	4,100 U	8,200 U	4,100 U	4,100 U	8,200 U	8,200 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
E8701C01	01/19/00	02-04ft	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
E8801C01	01/19/00	02-04ft	4,100 U	4,100 U	4,100 U	8,200 U	4,100 U	4,100 U	8,200 U	8,200 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
E8901C01	01/19/00	02-04ft	4,100 U	4,100 U	4,100 U	8,200 U	4,100 U	4,100 U	8,200 U	8,200 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
E9001C01	01/24/00	02-04ft	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E9101C01	01/23/00	02-04ft	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E9201C01	01/23/00	02-04ft	4,600 U	4,600 U	4,600 U	9,300 U	4,600 U	4,600 U	9,300 U	9,300 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U
E9301C01	01/07/00	04-06ft	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	7,800 U	7,800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
E9401C01	03/07/00	04-06ft	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E9501C01 dup	03/07/00	04-06ft	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U

Notes:  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded.  
 R - Data rejected due to QC violation  
 D - Analytic concentration obtained from dilution.  
 \* - Sample not tested.  
 [1] - Multiple analysis of sample conducted; result presented is the highest detected or

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area E  
Providence Gas Company

642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate
E01C1C01	12/11/99	04-06ft	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	570 J	480 J	720 J	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E02C1C01	12/13/99	04-06ft	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E03B1C01	12/13/99	02-04ft	8,200 U	8,200 U	4,000 U	4,000 U	4,000 U	4,000 U	800 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
E04D1C01	12/13/99	06-08ft	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
E05B1C01	12/14/99	02-04ft	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
E09B1C01	12/14/99	02-04ft	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E10B1C01	12/14/99	02-04ft	8,400 U	8,400 U	4,200 U	4,200 U	4,200 U	4,200 U	800 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U
E11B1C01	12/14/99	02-04ft	8,200 U	8,200 U	4,000 U	4,000 U	4,000 U	4,000 U	800 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
E12B1C01	12/14/99	02-04ft	8,800 U	8,800 U	4,400 U	4,400 U	4,400 U	4,400 U	800 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U
E13B1C01	12/14/99	02-04ft	8,800 U	8,800 U	4,400 U	4,400 U	4,400 U	4,400 U	800 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U
E14B1C01	12/15/99	02-04ft	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E15C1C01	12/15/99	04-06ft	8,300 U	8,300 U	4,100 U	4,100 U	4,100 U	4,100 U	800 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
E16B1C01	12/15/99	02-04ft	8,400 U	8,400 U	4,200 U	4,200 U	4,200 U	4,200 U	800 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U
E17B1C01	12/15/99	02-04ft	8,500 U	8,500 U	4,200 U	4,200 U	4,200 U	4,200 U	800 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U
E18B1C01	12/15/99	02-04ft	7,800 U	7,800 U	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
E19B1C01	12/15/99	02-04ft	8,300 U	8,300 U	4,100 U	4,100 U	4,100 U	4,100 U	800 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
E20B1C01	12/15/99	02-04ft	8,600 U	8,600 U	4,300 U	4,300 U	4,300 U	4,300 U	800 U	4,300 U	4,300 U	4,300 U	4,300 U	4,300 U	4,300 U
E21B1C01	12/16/99	02-04ft	8,300 U	8,300 U	4,100 U	4,100 U	4,100 U	4,100 U	800 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
E22B1C01	12/16/99	02-04ft	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E23C1C01	12/16/99	04-06ft	7,400 U	7,400 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E23C1C01dup	12/16/99	04-06ft	7,200 U	7,200 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E24B1C01	12/16/99	02-04ft	7,400 U	7,400 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E25B1C01	12/17/99	02-04ft	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
E26B1C01	12/17/99	02-04ft	7,400 U	7,400 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E27B1C01	12/20/99	02-04ft	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E28C1C01	12/20/99	04-06ft	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E29C1C01	12/20/99	04-06ft	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E30C1C01	12/20/99	04-06ft	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E30C1C01dup	12/20/99	04-06ft	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E31B1C01	12/20/99	02-04ft	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E32C1C01dup	12/20/99	04-06ft	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E33B1C01	12/20/99	02-04ft	7,400 U	7,400 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E34C1C01 (1)	12/20/99	04-06ft	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E35C1C01	12/20/99	04-06ft	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E36C1C01	12/21/99	04-06ft	710 U	710 U	360 U	360 U	360 U	360 U	460 U	370 U	370 U	370 U	360 U	360 U	410 U
E37B1C01	01/26/00	02-04ft	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E38C1C01	12/21/99	04-06ft	770 U	770 U	380 U	380 U	380 U	380 U	670 U	570 U	570 U	570 U	570 U	570 U	570 U
E39C1C01	01/26/00	04-06ft	R	R	R	R	R	R	670 U	950 U	270 U	400 U	380 U	63 U	R
E40B1C01	12/21/99	02-04ft	770 U	770 U	380 U	380 U	380 U	380 U	560 U	1,100 U	260 U	660 U	380 U	380 U	380 U
E41B1C01 (1)	12/21/99	02-04ft	7,400 U	7,400 U	3,700 U	3,700 U	3,700 U	3,700 U	2,600 U	3,100 U	870 U	1,600 U	3,600 U	3,600 U	3,600 U
E42B1C01	12/21/99	02-04ft	790 U	790 U	440 U	440 U	440 U	440 U	2,100 U	3,600 U	860 U	1,600 U	390 U	390 U	410 U
E43C1C01	12/21/99	04-06ft	770 U	770 U	380 U	380 U	380 U	380 U	880 U	830 U	270 U	610 U	380 U	380 U	66 U
E43C1C01dup	12/21/99	04-06ft	790 U	790 U	440 U	440 U	440 U	440 U	510 U	790 U	200 U	510 U	390 U	390 U	60 U
E44B1C01	12/22/99	02-04ft	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	2,100 U	3,800 U	1,300 U	3,800 U	3,800 U	3,800 U
E45B1C01	12/22/99	02-04ft	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E46B1C01	12/22/99	02-04ft	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
E48B1C01	02/01/00	02-04ft	7,800 U	7,800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,400 U	4,400 U	1,400 U	1,400 U	3,900 U	3,900 U	3,900 U
E52C1C01	12/22/99	04-06ft	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
E53C1C01	12/22/99	04-06ft	7,400 U	7,400 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E53C1C01dup	12/22/99	04-06ft	7,400 U	7,400 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E54B1C01	02/01/00	02-04ft	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U

APPENDIX E  
TABLE E-5  
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area E  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(e,h,i)perylene	Benzo(k)fluoranthene	bi(2-Chloroethoxy)methane	bi(2-Chloroethyl)ether	bi(2-Ethylhexyl)phthalate
E55B1C01	02/01/00	02-04ft	7,300	7,300	3,600	3,600	1,400	1,000	2,000	3,600	3,600	770	3,600	3,600	3,600
E57B1C01	02/02/00	02-04ft	7,600	7,600	3,700	3,700	450	440	1,200	3,700	3,700	980	3,700	3,700	3,700
E58C1C01	01/04/00	04-06ft	9,200	9,200	4,500	4,500	4,500	800	4,500	4,500	4,500	4,500	4,500	4,500	4,500
E59C1C01	01/04/00	04-06ft	8,300	8,300	4,100	4,100	4,100	800	4,100	4,100	4,100	4,100	4,100	4,100	4,100
E61B1C01	01/20/00	02-04ft	6,900	6,900	3,400	3,400	3,400	800	3,400	3,400	3,400	3,400	3,400	3,400	3,400
E62B1C01	01/20/00	02-04ft	7,400	7,400	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600	3,600
E64B1C01	02/02/00	02-04ft	7,500	7,500	3,700	3,700	3,700	800	3,700	3,700	3,700	3,700	3,700	3,700	3,700
E65B1C01	01/21/00	02-04ft	7,500	7,500	3,700	3,700	16,000	16,000	22,000	8,800	8,800	9,600	3,700	3,700	3,700
E66B1C01	01/21/00	02-04ft	7,900	7,900	3,900	3,900	680	820	1,200	3,900	3,900	490	3,900	3,900	3,900
E67B1C01	01/21/00	02-04ft	7,300	7,300	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600	3,600
E68B1C01	01/20/00	02-04ft	7,200	7,200	3,600	3,600	5,000	3,800	5,400	2,000	2,000	2,200	3,600	3,600	3,600
E69B1C01	01/20/00	02-04ft	7,500	7,500	3,700	3,700	3,700	800	3,700	3,700	3,700	3,700	3,700	3,700	3,700
E70B1C01	01/20/00	02-04ft	7,300	7,300	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600	3,600
E71B1C01	01/20/00	02-04ft	7,100	7,100	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600	3,600
E72B1C01	01/20/00	02-04ft	7,000	7,000	3,400	3,400	3,400	800	3,400	3,400	3,400	3,400	3,400	3,400	3,400
E73B1C01	01/20/00	02-04ft	6,900	6,900	3,400	3,400	3,400	3,300	3,500	1,100	1,100	1,200	3,400	3,400	3,400
E74B1C01	01/21/00	02-04ft	7,800	7,800	4,000	4,000	2,800	1,800	7,100	1,800	1,800	2,300	3,400	3,400	3,400
E75B1C01	01/19/00	02-04ft	7,300	7,300	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600	3,600
E76B1C01	01/19/00	02-04ft	7,100	7,100	3,500	3,500	3,500	800	3,500	3,500	3,500	3,500	3,500	3,500	3,500
E77B1C01	01/25/00	02-04ft	7,400	7,400	3,600	3,600	27,000	24,000	32,000	3,500	3,500	480	3,500	3,500	3,500
E78B1C01	01/28/00	02-04ft	8,000	8,000	4,000	4,000	1,000	860	1,000	410	410	610	4,000	4,000	4,000
E79B1C01	01/25/00	02-04ft	7,600	7,600	3,700	3,700	3,700	800	3,700	3,700	3,700	3,700	3,700	3,700	3,700
E80B1C01	01/19/00	02-04ft	7,100	7,100	3,500	3,500	3,500	800	3,500	3,500	3,500	3,500	3,500	3,500	3,500
E81B1C01	01/21/00	02-04ft	7,300	7,300	3,600	3,600	3,600	1,400	3,400	3,400	3,600	1,000	3,600	3,600	3,600
E82C1C01	01/24/00	04-06ft	7,200	7,200	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600	3,600
E83B1C01	01/21/00	02-04ft	7,300	7,300	3,600	3,600	3,600	800	3,600	3,600	3,600	3,600	3,600	3,600	3,600
E84B1C01	01/19/00	02-04ft	7,500	7,500	3,700	3,700	3,700	800	3,700	3,700	3,700	3,700	3,700	3,700	3,700
E85B1C01	01/19/00	02-04ft	7,600	7,600	3,800	3,800	3,800	2,400	4,400	4,400	4,400	3,800	3,800	3,800	3,800
E86B1C01	01/19/00	02-04ft	8,300	8,300	4,100	4,100	29,000	22,000	31,000	8,500	8,500	13,000	3,800	3,800	3,800
E87B1C01	01/19/00	02-04ft	7,200	7,200	3,500	3,500	42,000	18,000	54,000	18,000	18,000	16,000	4,100	4,100	4,100
E88B1C01 (1)	01/19/00	02-04ft	8,400	8,400	4,100	4,100	840	800	1,100	3,500	3,500	3,500	3,500	3,500	3,500
E89B1C01	01/24/00	02-04ft	7,600	7,600	3,700	3,700	660	610,000	910,000	310,000	310,000	310,000	4,100	4,100	4,100
E90B1C01	01/25/00	02-04ft	7,700	7,700	3,800	3,800	17,000	800	3,700	3,700	3,700	3,700	3,700	3,700	3,700
E91B1C01	01/25/00	02-04ft	9,300	9,300	4,600	4,600	6,900	860	4,400	4,400	4,400	3,800	3,800	3,800	3,800
E92C1C01	03/07/00	04-06ft	7,800	7,800	3,900	3,900	2,900	20,000	26,000	26,000	26,000	9,300	4,600	4,600	4,600
E93C1C01	03/07/00	04-06ft	7,300	7,300	3,600	3,600	3,600	3,200	5,100	3,000	3,000	1,700	3,900	3,900	3,900
E93C1C01dup	03/07/00	04-06ft	7,500	7,500	3,700	3,700	3,700	1,000	1,200	3,600	3,600	460	3,600	3,600	3,600

**Notes:**

- All results in micrograms per kilogram (µg/kg)
- U - Compound not detected above method reporting limit presented
- J - Estimated concentration
- E - Estimated concentration; calibration range exceeded.
- R - Data rejected due to QC violation
- D - Analytic concentration obtained from dilution
- \* - Sample not tested
- (1) - Multiple analysis of sample conducted; result presented is the highest detected or

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area E  
642 Allens Avenue, Providence, Rhode Island

TABLE E-5

Table with columns: Sample No., Date, Depth, Butylbenzyl-phthalate, Carbazole, Chrysene, Di-n-butyl-phthalate, Di-n-octyl-phthalate, Dibenzofuran, Diethyl-phthalate, Dimethyl-phthalate, Fluoranthene, Fluorene, Ifexachloro-benzene, Ifexachloro-butadiene. Rows include sample IDs like E01C1C01, E02C1C01, etc., with corresponding data values.

APPENDIX E  
 TABLE E-5  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Subsurface Soil Analytical Summary - Area E  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	Baitylbenzyl-phthalate	Carbazole	Chrysenes	Di-n-butyl-phthalate	Di-n-octyl-phthalate	Dibenzofuran	Diethyl-phthalate	Dimethyl-phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene
E53B1C01	02/01/00	02-04ft	1,600 U	1,600 U	1,400 J	3,600 U	1,600 U	3,600 U	3,600 U	3,600 U	1,800 J	3,600 U	3,600 U	3,600 U
E53B1C01	02/02/00	02-04ft	3,700 U	3,700 U	560 J	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E58C1C01	01/04/00	04-06ft	4,500 U	4,500 U	4,500 U	4,500 U	4,500 U	4,500 U	4,500 U	4,500 U	4,500 U	4,500 U	4,500 U	4,500 U
E59C1C01	01/04/00	04-06ft	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
E61H1C01	01/20/00	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
E62B1C01	01/20/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E64B1C01	02/02/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E65B1C01	01/21/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E66B1C01	01/21/00	02-04ft	3,900 U	3,900 U	890 J	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
E67B1C01	01/21/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E68B1C01	01/20/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E69B1C01	01/20/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E70B1C01	01/20/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E71B1C01	01/20/00	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
E72B1C01	01/20/00	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
E73B1C01	01/21/00	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E74B1C01	01/19/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E76B1C01	01/19/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
E77B1C01	01/25/00	02-04ft	3,600 U	3,600 U	21,000 J	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E78B1C01	01/28/00	02-04ft	4,000 U	4,000 U	1,200 J	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
E79B1C01	01/25/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E80B1C01	01/19/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
E81B1C01	01/21/00	02-04ft	3,600 U	3,600 U	2,300 J	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E82C1C01	01/24/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E83B1C01	01/21/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E84B1C01	01/19/00	02-04ft	3,700 U	3,700 U	3,200 J	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E85B1C01	01/19/00	02-04ft	3,800 U	3,800 U	26,000 J	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E86B1C01	01/19/00	02-04ft	4,100 U	4,900 U	35,000 J	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
E87B1C01	01/19/00	02-04ft	3,500 U	3,500 U	980 J	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
E88B1C01 (1)	01/19/00	02-04ft	4,100 U	180,000 E	770,000 D	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
E89B1C01	01/24/00	02-04ft	3,700 U	3,700 U	540 J	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
E90B1C01	01/25/00	02-04ft	3,800 U	3,800 U	2,300 J	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
E91B1C01	01/25/00	02-04ft	4,600 U	4,600 U	18,000 J	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U
E92C1C01	03/07/00	04-06ft	3,900 U	3,900 U	3,500 J	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
E93C1C01	03/07/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
E94C1C01dup	03/07/00	04-06ft	3,700 U	3,700 U	1,000 J	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded.  
 R - Data rejected due to QC violation  
 D - Analytic concentration obtained from dilution.  
 \*\* - Sample not tested.  
 (1) - Multiple analysis of sample conducted; result presented is the highest detected or

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area E  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	Hexachloro- cyclo- pentaene	Hexachloroeth- ane	Indeno(1,2,3- cd) pyrene	Isopharane	N-Nitroso-di-n propylamine	N-Nitroso- diphenyl- amine	Naphthalene	Pentachloro- phenol	Phenanthrene	Phenol	Pyrene
Locations greater than 100 ft. of shore													
E01C1C01	12/11/99	04-06ft	3,700	3,700	3,700	3,700	3,700	3,700	3,700	7,600	3,700	3,700	520
E02C1C01	12/11/99	04-06ft	3,700	3,700	3,700	3,700	3,700	3,700	3,700	7,600	3,700	3,700	3,700
E03B1C01	12/13/99	02-04ft	4,000	4,000	4,000	4,000	4,000	4,000	4,000	8,200	4,000	4,000	4,000
E04D1C01	12/13/99	06-08ft	3,500	3,500	3,500	3,500	3,500	3,500	3,500	7,100	3,500	3,500	3,500
E08B1C01	12/14/99	02-04ft	3,900	3,900	3,900	3,900	3,900	3,900	3,900	7,900	3,900	3,900	3,900
E09B1C01	12/14/99	02-04ft	3,800	3,800	3,800	3,800	3,800	3,800	3,800	7,700	3,800	3,800	3,800
E10B1C01	12/14/99	02-04ft	4,200	4,200	4,200	4,200	4,200	4,200	4,200	8,400	4,200	4,200	4,200
E11B1C01	12/14/99	02-04ft	4,000	4,000	4,000	4,000	4,000	4,000	4,000	8,200	4,000	4,000	4,000
E12B1C01	12/14/99	02-04ft	4,300	4,300	4,300	4,300	4,300	4,300	4,300	8,600	4,300	4,300	4,300
E13B1C01	12/14/99	02-04ft	3,900	3,900	3,900	3,900	3,900	3,900	3,900	7,800	3,900	3,900	3,900
E14B1C01	12/15/99	02-04ft	3,600	3,600	3,600	3,600	3,600	3,600	3,600	7,200	3,600	3,600	3,600
E15C1C01	12/15/99	04-06ft	4,100	4,100	29,000	4,100	4,100	610,000	4,100	8,200	330,000	650	180,000
E16B1C01	12/15/99	02-04ft	4,100	4,100	4,100	4,100	4,100	4,100	4,100	8,200	4,100	4,100	4,100
E17B1C01	12/15/99	02-04ft	4,300	4,300	4,300	4,300	4,300	4,300	4,300	8,600	4,300	4,300	4,300
E18D1C01	12/15/99	02-04ft	3,800	3,800	3,800	3,800	3,800	3,800	3,800	7,600	3,800	3,800	3,800
E19B1C01	12/15/99	02-04ft	4,100	4,100	4,100	4,100	4,100	4,100	4,100	8,200	4,100	4,100	4,100
E20B1C01	12/15/99	02-04ft	4,200	4,200	4,200	4,200	4,200	4,200	4,200	8,400	4,200	4,200	4,200
E21B1C01	12/16/99	02-04ft	4,100	4,100	4,100	4,100	4,100	4,100	4,100	8,200	4,100	4,100	4,100
E22B1C01	12/16/99	02-04ft	3,600	3,600	3,600	3,600	3,600	3,600	3,600	7,200	3,600	3,600	3,600
E23C1C01	12/16/99	04-06ft	3,600	3,600	3,600	3,600	3,600	3,600	3,600	7,200	3,600	3,600	3,600
E24B1C01	12/16/99	02-04ft	3,600	3,600	3,600	3,600	3,600	3,600	3,600	7,200	3,600	3,600	3,600
E25B1C01	12/17/99	02-04ft	3,500	3,500	3,500	3,500	3,500	3,500	3,500	7,000	3,500	3,500	3,500
E26B1C01	12/17/99	02-04ft	3,600	3,600	710	3,600	3,600	3,600	3,600	7,200	3,600	3,600	3,600
E27B1C01	12/20/99	02-04ft	3,600	3,600	3,600	3,600	3,600	3,600	3,600	7,200	3,600	3,600	3,600
E28C1C01	12/20/99	04-06ft	3,700	3,700	3,700	3,700	3,700	3,700	3,700	7,400	3,700	3,700	3,700
E29C1C01	12/17/99	04-06ft	3,700	3,700	3,700	3,700	3,700	3,700	3,700	7,400	3,700	3,700	3,700
E30C1C01	12/17/99	04-06ft	3,700	3,700	3,700	3,700	3,700	3,700	3,700	7,400	3,700	3,700	3,700
E31B1C01	12/16/99	02-04ft	3,800	3,800	3,800	3,800	3,800	3,800	3,800	7,600	3,800	3,800	3,800
E32C1C01	12/16/99	04-06ft	3,800	3,800	3,800	3,800	3,800	3,800	3,800	7,600	3,800	3,800	3,800
E33C1C01	12/16/99	04-06ft	3,700	3,700	3,700	3,700	3,700	3,700	3,700	7,400	3,700	3,700	3,700
E34C1C01	12/20/99	02-04ft	3,600	3,600	2,000	3,600	3,600	3,600	3,600	7,200	3,600	3,600	3,600
E35C1C01	12/20/99	04-06ft	3,600	3,600	3,600	3,600	3,600	3,600	3,600	7,200	3,600	3,600	3,600
E36C1C01	12/21/99	04-06ft	360	360	280	360	360	360	360	710	360	360	360
E37B1C01	01/26/00	02-04ft	3,800	3,800	420	3,800	3,800	3,800	3,800	7,600	3,800	3,800	3,800
E38C1C01	12/21/99	04-06ft	380	380	290	380	380	380	380	770	380	380	380
E39C1C01	01/26/00	04-06ft	R	R	R	R	R	R	R	R	R	R	R
E40B1C01	12/21/99	02-04ft	380	380	320	380	380	380	380	770	380	380	380
E41B1C01	12/21/99	02-04ft	3,600	3,600	970	3,600	3,600	780,000	3,600	7,200	28,000	3,600	7,600
E42B1C01	12/21/99	02-04ft	390	390	940	390	390	390	390	790	390	390	7,000
E43C1C01	12/21/99	04-06ft	380	380	260	380	380	380	380	770	380	380	7,000
E44C1C01	12/21/99	04-06ft	390	390	220	390	390	390	390	790	390	390	7,000
E45B1C01	12/22/99	02-04ft	3,800	3,800	3,800	3,800	3,800	3,800	3,800	7,600	3,800	3,800	3,800
E46B1C01	12/23/99	02-04ft	3,700	3,700	3,700	3,700	3,700	3,700	3,700	7,400	3,700	3,700	3,700
E47B1C01	12/23/99	02-04ft	3,600	3,600	3,600	3,600	3,600	3,600	3,600	7,200	3,600	3,600	3,600
E48B1C01	02/01/00	02-04ft	3,900	3,900	4,000	3,900	3,900	3,900	3,900	7,800	3,900	3,900	3,900
E49C1C01	12/23/99	04-06ft	3,900	3,900	3,900	3,900	3,900	3,900	3,900	7,800	3,900	3,900	3,900
E50C1C01	12/23/99	04-06ft	3,700	3,700	3,700	3,700	3,700	3,700	3,700	7,400	3,700	3,700	3,700
E51C1C01	12/23/99	04-06ft	3,700	3,700	3,700	3,700	3,700	3,700	3,700	7,400	3,700	3,700	3,700
E52C1C01	12/23/99	04-06ft	3,500	3,500	3,500	3,500	3,500	3,500	3,500	7,000	3,500	3,500	3,500
E53C1C01	02/01/00	02-04ft	3,500	3,500	3,500	3,500	3,500	3,500	3,500	7,000	3,500	3,500	3,500

APPENDIX E  
TABLE E-5  
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area E  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	Hexachloro- cyclo- pentadiene	Hexachloroeth- ane	Indeno(1,2,3- cd) pyrene	Isopharone	N-Nitroso-di-n propylamine	N-Nitro- diphenyl- amine	Naphthalene	Nitrobenzene	Pentachloro- phenol	Phenanthrene	Phenol	Pyrene
E55B1C01	02/01/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	890 J	3,600 U	1,800 J
E55B1C01	02/02/00	02-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	560 J
E58C1C01	01/04/00	04-06ft	4,500 U	4,500 U	4,500 U	4,500 U	4,500 U	4,500 U	4,500 U	4,500 U	9,200 U	4,500 U	4,500 U	4,500 U
E58C1C01	01/05/00	04-06ft	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	8,300 U	4,100 U	4,100 U	4,100 U
E61B1C01	01/20/00	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
E62B1C01	01/20/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
E64B1C01	02/02/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
E65B1C01	01/21/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
E66B1C01	01/21/00	02-04ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	1,400 J
E67B1C01	01/21/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
E68B1C01	01/20/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	6,000 U
E69B1C01	01/20/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
E70B1C01	01/20/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
E71B1C01	01/20/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
E72B1C01	01/20/00	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	7,000 U	3,400 U	3,400 U	3,400 U
E73B1C01	01/20/00	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
E74B1C01	01/21/00	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U
E75B1C01	01/19/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U
E76B1C01	01/19/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
E77B1C01	01/23/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,100 U	3,600 U	3,600 U	3,600 U
E78B1C01	01/29/00	02-04ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,000 U	4,000 U	4,000 U	4,000 U
E79B1C01	01/25/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
E80B1C01	01/19/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
E81B1C01	01/21/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
E82C1C01	01/24/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,200 U	3,600 U	3,600 U	3,600 U
E83B1C01	01/21/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
E84B1C01	01/19/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
E85B1C01	01/19/00	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
E86B1C01	01/19/00	02-04ft	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	8,300 U	4,100 U	4,100 U	4,100 U
E87B1C01	01/19/00	02-04ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U
E88B1C01 [1]	01/19/00	02-04ft	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	8,300 U	4,100 U	4,100 U	4,100 U
E89B1C01	01/24/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
E90B1C01	01/25/00	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
E91B1C01	01/25/00	02-04ft	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	9,300 U	4,600 U	4,600 U	4,600 U
E92C1C01	03/07/00	04-06ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	3,900 U
E93C1C01	03/07/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
E93C1C01dup	03/07/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U

Notes:  
All results in micrograms per kilogram (µg/kg)  
U - Compound not detected above  
method reporting limit presented  
J - Estimated concentration  
E - Estimated concentration; calibration range  
exceeded  
R - Data rejected due to QC violation  
D - Analyte concentration obtained from dilution  
\*\* - Sample not tested  
[1] - Multiple analysis of sample conducted;  
result presented is the highest detected or



IX E  
TABLE E-6

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area F  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,2-oxybis(1-Chloropropane)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	3,4-Dichlorophenol	2,4-Dimethylphenol	3,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthal
Locations greater than 100 ft of Shore															
F01C1C01	01/04/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
F02C1C01	01/04/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
F03C1C01	01/04/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
F04E1C01	01/04/00	08-10ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
F05D1C01	01/04/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
F06E1C01	01/04/00	08-10ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
F07E1C01 (1)	01/05/00	08-10ft	R	R	R	R	R	R	R	R	57,000 J	R	R	R	R
F08E1C01	01/05/00	08-10ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
F09D1C01 (1)	01/05/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
F10E1C01	01/05/00	08-10ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
F11D1C01	01/06/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
F12E1C01	01/06/00	08-10ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U
F13E1C01	01/06/00	08-10ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,200 U	4,000 U	4,000 U	4,000 U	8,200 U	4,000 U	4,000 U	4,000 U
F14D1C01	01/06/00	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
F15D1C01	01/06/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
F16D1C01	01/06/00	06-08ft	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	8,300 U	4,100 U	4,100 U	4,100 U	8,300 U	4,100 U	4,100 U	4,100 U
F17C1C01	01/06/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
F18C1C01	01/06/00	04-06ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
F19C1C01	01/07/00	04-06ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	8,000 U	3,900 U	3,900 U	3,900 U	8,000 U	3,900 U	3,900 U	3,900 U
F20C1C01	01/07/00	04-06ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	8,000 U	3,900 U	3,900 U	3,900 U	8,000 U	3,900 U	3,900 U	3,900 U
F21C1C01	01/07/00	04-06ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	3,900 U
F22E1C01	01/07/00	08-10ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	4,000 U
F23C1C01 (1)	01/07/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
F24E1C01	01/07/00	08-10ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	4,000 U
F25E1C01 dup	01/07/00	08-10ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,000 U	4,000 U	4,000 U	4,000 U	8,000 U	4,000 U	4,000 U	4,000 U
F26E1C01	01/07/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
F27E1C01	02/02/00	08-10ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
F28E1C01	02/02/00	08-10ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
F29E1C01	01/10/00	08-10ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
F30E1C01	01/10/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
F31C1C01	01/10/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
F32E1C01	02/02/00	08-10ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
F33C1C01	01/07/00	04-06ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,200 U	4,000 U	4,000 U	4,000 U	8,200 U	4,000 U	4,000 U	4,000 U
F34C1C01	01/11/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
F34C1C01 dup	01/11/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
F35C1C01	01/11/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
F36C1C01	01/11/00	04-06ft	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	8,900 U	4,400 U	4,400 U	4,400 U	8,900 U	4,400 U	4,400 U	4,400 U
F37C1C01	01/12/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
F38C1C01	01/12/00	04-06ft	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	8,300 U	4,100 U	4,100 U	4,100 U	8,300 U	4,100 U	4,100 U	4,100 U
F39C1C01	01/12/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
F40B1C01	01/12/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,400 U	3,700 U	3,700 U	3,700 U	7,400 U	3,700 U	3,700 U	3,700 U
F41C1C01 (1)	01/12/00	04-06ft	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	8,600 U	4,200 U	4,200 U	4,200 U	8,600 U	4,200 U	4,200 U	4,200 U
F42C1C01 (1)	01/12/00	04-06ft	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	8,400 U	4,100 U	4,100 U	4,100 U	8,400 U	4,100 U	4,100 U	4,100 U
F43C1C01	01/12/00	04-06ft	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	8,200 U	4,100 U	4,100 U	4,100 U	8,200 U	4,100 U	4,100 U	4,100 U
F44C1C01 (1)	01/12/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U	7,200 U	3,500 U	3,500 U	3,500 U
F45C1C01	01/13/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
F46C1C01	01/12/00	04-06ft	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	8,100 U	4,100 U	4,100 U	4,100 U	8,100 U	4,100 U	4,100 U	4,100 U
F46C1C01 dup	01/12/00	04-06ft	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U	8,500 U	4,200 U	4,200 U	4,200 U	8,500 U	4,200 U	4,200 U	4,200 U
F47C1C01	01/13/00	04-06ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
F48C1C01	01/13/00	04-06ft	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	9,100 U	4,600 U	4,600 U	4,600 U	9,100 U	4,600 U	4,600 U	4,600 U

APPENDIX E  
 TABLE E-6  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Subsurface Soil Analytical Summary - Area F  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,2-dybis(Chloropropane)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dinitrotoluene	2-Chloronaphthal
F49CIC01	01/12/00	04-06ft	R	5,100	5,100	5,100	R	10,000	5,100	5,100	5,100	10,000	5,100	R
F50D1C01	01/11/00	06-08ft	U	4,100	4,100	4,100	U	8,300	4,100	4,100	60,000	8,100	4,100	U
F51D1C01	01/17/00	06-08ft	U	4,100	4,100	4,100	U	8,300	4,100	4,300	4,300	8,800	4,300	U
F52B1C01 [1]	01/19/00	02-04ft	U	3,700	3,700	3,700	U	7,600	3,700	3,700	3,700	7,600	3,700	U
F53B1C01	01/19/00	02-04ft	U	3,700	3,700	3,700	U	10,000	5,100	5,100	5,100	10,000	5,100	U
F54C1C01	01/21/00	04-06ft	U	3,700	3,700	3,700	U	7,500	3,700	3,700	3,700	7,500	3,700	U
F55B1C01	01/19/00	02-04ft	U	3,700	3,700	3,700	U	7,400	3,600	3,600	3,600	7,400	3,600	U
F56C1C01	01/19/00	04-06ft	U	3,600	3,600	3,600	U	7,400	3,600	3,600	3,600	7,400	3,600	U
F56C1C01dup	01/19/00	04-06ft	U	3,700	3,700	3,700	U	7,400	3,600	3,600	3,600	7,400	3,600	U
F57B1C01	01/19/00	02-04ft	U	3,600	3,600	3,600	U	7,100	3,600	3,600	3,600	7,100	3,600	U
F58C1C01	03/07/00	04-06ft	U	3,700	3,700	3,700	U	7,500	3,700	3,700	3,700	7,500	3,700	U
F59C1C01	03/07/00	04-06ft	U	3,700	3,700	3,700	U	7,500	3,700	3,700	3,700	7,500	3,700	U
F60C1C01	03/07/00	04-06ft	U	3,700	3,700	3,700	U	7,600	3,700	3,700	3,700	7,600	3,700	U

Notes:

- All results in micrograms per kilogram (mg/kg)
- U - Compound not detected above method reporting limit prescribed
- J - Estimated concentration
- E - Estimated concentration; calibration range exceeded
- R - Data rejected due to QC violation
- D - Analytic concentration obtained from dilution.
- \* Sample not tested
- [1] - Multiple analysis of sample conducted; result presented is the highest detected or

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area F  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	2-Chloro- ortho- pic nic not	2-Methyl- naphthalene	2-Methyl- phenol	3-Nitroaniline	3-Nitrophenol	3,3-Dichloro- benzidine	3-Nitroaniline	4,6-Dinitro-2- methylphenol	4-Bromophenyl- phenylether	4-Chloro-3- Methylphenol	4-Chloroaniline	4-Chlorophenyl- phenylether	4-Methyl- phenol
Locations greater than 100 ft. of Shore															
F01C101	01/04/00	04-06ft	U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F02C101	01/04/00	04-06ft	U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F03C101	01/04/00	04-06ft	U	490 J	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F04E101	01/04/00	08-10ft	U	850 J	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
F05D101	01/04/00	06-08ft	U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
F06E101	01/04/00	08-10ft	U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F07E101 [1]	01/05/00	08-10ft	R	230,000 J	46,000 J	R	R	R	R	R	R	R	R	R	130,000 J
F08E101	01/05/00	08-10ft	U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F09D101 [1]	01/05/00	06-08ft	U	4,500 J	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F10E101	01/05/00	08-10ft	U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F11D101	01/06/00	06-08ft	U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
F12E101	01/06/00	08-10ft	U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	7,800 U	7,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F13E101	01/06/00	08-10ft	U	4,000 U	4,000 U	8,200 U	4,000 U	4,000 U	8,200 U	8,200 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
F14D101	01/06/00	06-08ft	U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F15D101	01/06/00	06-08ft	U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F16D101	01/06/00	06-08ft	U	4,100 U	4,100 U	8,100 U	4,100 U	4,100 U	8,100 U	8,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
F17C101	01/06/00	04-06ft	U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
F18C101	01/06/00	04-06ft	U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F19C101	01/07/00	04-06ft	U	3,900 U	3,900 U	8,000 U	3,900 U	3,900 U	8,000 U	8,000 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F20C101	01/07/00	04-06ft	U	3,900 U	3,900 U	8,000 U	3,900 U	3,900 U	8,000 U	8,000 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F21C101	01/07/00	04-06ft	U	3,900 U	3,900 U	8,000 U	3,900 U	3,900 U	8,000 U	8,000 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F22E101	01/07/00	08-10ft	U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	8,100 U	8,100 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
F23C101 [1]	01/07/00	04-06ft	U	71,000 U	4,300 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	11,000 U
F24E101	01/07/00	08-10ft	U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	8,100 U	8,100 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
F24E101 dup	01/07/00	08-10ft	U	4,000 U	4,000 U	8,000 U	4,000 U	4,000 U	8,000 U	8,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
F25E101	01/07/00	08-10ft	U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
F26E101	02/02/00	08-10ft	U	3,900 U	3,900 U	7,800 U	3,900 U	3,900 U	7,800 U	7,800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F27E101	02/02/00	08-10ft	U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F28E101	02/02/00	08-10ft	U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F29E101	01/10/00	08-10ft	U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
F31C101	01/10/00	04-06ft	U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F32E101	02/02/00	08-10ft	U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F33C101	01/07/00	04-06ft	U	4,000 U	4,000 U	8,200 U	4,000 U	4,000 U	8,200 U	8,200 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
F34C101	01/11/00	04-06ft	U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F35C101	01/11/00	04-06ft	U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F36C101	01/11/00	04-06ft	U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
F37C101	01/12/00	04-06ft	U	4,400 U	4,400 U	8,900 U	4,400 U	4,400 U	8,900 U	8,900 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U
F38C101	01/12/00	04-06ft	U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F39C101	01/12/00	04-06ft	U	110,000 E	5,100 U	8,300 U	4,100 U	4,100 U	8,300 U	8,300 U	4,100 U	4,100 U	4,100 U	4,100 U	15,000 U
F40B101	01/12/00	04-06ft	U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
F41C101 [1]	01/12/00	02-04ft	U	3,700 U	3,700 U	7,400 U	3,700 U	3,700 U	7,400 U	7,400 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F42C101 [1]	01/12/00	04-06ft	E	160,000 E	2,700 U	8,600 U	4,200 U	4,200 U	8,600 U	8,600 U	4,200 U	4,200 U	4,200 U	4,200 U	8,000 U
F43C101 [1]	01/12/00	04-06ft	U	2,000 J	4,100 U	8,400 U	4,100 U	4,100 U	8,400 U	8,400 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
F44C101	01/12/00	04-06ft	U	2,100 J	4,100 U	8,200 U	4,100 U	4,100 U	8,200 U	8,200 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
F45C101	01/12/00	04-06ft	U	6,700 U	3,500 U	7,200 U	3,500 U	3,500 U	7,200 U	7,200 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
F46C101	01/12/00	04-06ft	U	110,000 E	1,600 J	7,400 U	3,600 U	3,600 U	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	3,900 U
F47C101	01/12/00	04-06ft	U	4,900 U	4,200 U	8,500 U	4,200 U	4,200 U	8,500 U	8,500 U	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U
F48C101	01/12/00	04-06ft	U	2,200 J	89 J	6,900 U	3,400 U	3,400 U	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	500 J
F48C101	01/12/00	04-06ft	U	4,600 U	4,600 U	9,300 U	4,600 U	4,600 U	9,300 U	9,300 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U

APPENDIX E  
 TABLE E-6  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Subsurface Soil Analytical Summary - Area F  
 Providence Gas Company  
 647 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenylphenylether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenylphenylether	4-Methylphenol
F49C1C01	01/11/00	04-06ft	R	R	R	R	R	R	R	R	R	R	R	R	R
F50D1C01	01/11/00	06-03ft	U	U	U	U	U	U	U	U	U	U	U	U	U
F31D1C01	01/11/00	06-08ft	U	U	U	U	U	U	U	U	U	U	U	U	U
F32B1C01 [1]	01/19/00	02-04ft	U	U	U	U	U	U	U	U	U	U	U	U	U
F33B1C01	01/19/00	02-04ft	U	U	U	U	U	U	U	U	U	U	U	U	U
F34C1C01	01/21/00	04-06ft	U	U	U	U	U	U	U	U	U	U	U	U	U
F35B1C01	01/19/00	02-04ft	U	U	U	U	U	U	U	U	U	U	U	U	U
F36C1C01	01/19/00	04-06ft	U	U	U	U	U	U	U	U	U	U	U	U	U
F36C1C01 dup	01/19/00	04-06ft	U	U	U	U	U	U	U	U	U	U	U	U	U
F37B1C01	01/19/00	02-04ft	U	U	U	U	U	U	U	U	U	U	U	U	U
F38C1C01	03/07/00	04-06ft	U	U	U	U	U	U	U	U	U	U	U	U	U
F39C1C01	03/07/00	04-06ft	U	U	U	U	U	U	U	U	U	U	U	U	U
F60C1C01	03/07/00	04-06ft	U	U	U	U	U	U	U	U	U	U	U	U	U

Notes:  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from dilution  
 \* - Sample not used  
 [1] - Multiple analysis of sample conducted; result presented is the highest detected or

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area F  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate
Locations greater than 100 ft. of Shore															
F01C1C01	01/04/00	04-06ft	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F02C1C01	01/04/00	04-06ft	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F03C1C01	01/04/00	04-06ft	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	3,700 U	2,800 U	2,000 U	3,800 U	3,800 U	3,800 U	3,800 U
F04E1C01	01/04/00	08-10ft	7,400 U	7,400 U	3,600 U	3,600 U	590 U	1,100 U	1,100 U	1,300 U	480 U	3,600 U	3,600 U	3,600 U	3,600 U
F05D1C01	01/04/00	06-08ft	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
F06E1C01	01/04/00	08-10ft	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F07E1C01 (I)	01/05/00	08-10ft	R	R	3,700 U	3,700 U	3,700 U	3,700 U	630,000 U	790,000 U	160,000 E	270,000 U	R	R	R
F08E1C01	01/05/00	08-10ft	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F09D1C01 (I)	01/05/00	06-08ft	7,700 U	7,700 U	2,000 U	2,000 U	30,000 U	75,000 U	56,000 U	67,000 U	21,000 U	30,000 U	3,800 U	3,800 U	3,800 U
F10E1C01 (I)	01/05/00	08-10ft	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F11D1C01	01/06/00	06-08ft	7,400 U	7,400 U	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
F12E1C01	01/06/00	08-10ft	7,800 U	7,800 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F13E1C01	01/06/00	08-10ft	8,200 U	8,200 U	4,000 U	4,000 U	4,000 U	4,000 U	800 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
F14D1C01	01/06/00	06-08ft	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F15D1C01	01/06/00	06-08ft	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F16D1C01	01/06/00	06-08ft	8,300 U	8,300 U	4,100 U	4,100 U	4,100 U	4,100 U	800 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
F17C1C01	01/06/00	04-06ft	7,400 U	7,400 U	3,600 U	3,600 U	660 U	3,100 U	2,700 U	4,200 U	3,600 U	1,500 U	3,600 U	3,600 U	3,600 U
F18C1C01	01/06/00	04-06ft	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F19C1C01	01/07/00	04-06ft	8,000 U	8,000 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F20C1C01	01/07/00	04-06ft	8,000 U	8,000 U	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F21C1C01	01/07/00	08-10ft	8,100 U	8,100 U	4,000 U	4,000 U	4,000 U	4,000 U	800 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
F22E1C01	01/07/00	08-10ft	8,100 U	8,100 U	4,000 U	4,000 U	4,000 U	4,000 U	800 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
F23C1C01 (I)	01/07/00	04-06ft	7,500 U	7,500 U	69,000 E	69,000 E	110,000 E	99,000 E	71,000 E	95,000 E	34,000 E	51,000 E	3,700 U	3,700 U	3,700 U
F24E1C01	01/07/00	08-10ft	8,100 U	8,100 U	4,000 U	4,000 U	4,000 U	4,000 U	800 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
F24E1C01dup	01/07/00	08-10ft	8,000 U	8,000 U	4,000 U	4,000 U	4,000 U	4,000 U	800 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
F25E1C01	01/07/00	08-10ft	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
F26E1C01	02/02/00	08-10ft	7,800 U	7,800 U	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F27E1C01	02/02/00	08-10ft	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F28E1C01	02/02/00	08-10ft	7,900 U	7,900 U	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F29E1C01	01/10/00	08-10ft	6,900 U	6,900 U	3,400 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
F31C1C01	01/10/00	04-06ft	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F32E1C01	02/02/00	08-10ft	7,600 U	7,600 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F33C1C01	01/07/00	04-06ft	8,200 U	8,200 U	4,000 U	4,000 U	4,000 U	4,000 U	800 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
F34C1C01	01/11/00	04-06ft	7,700 U	7,700 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F34C1C01dup	01/11/00	04-06ft	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F35C1C01	01/11/00	04-06ft	7,100 U	7,100 U	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
F36C1C01	01/11/00	04-06ft	8,900 U	8,900 U	4,400 U	4,400 U	74,000 E	220,000 E	170,000 E	270,000 E	62,000 E	95,000 E	4,400 U	4,400 U	4,400 U
F37C1C01	01/12/00	04-06ft	7,700 U	7,700 U	3,800 U	3,800 U	520 U	1,600 U	3,300 U	2,300 U	900 U	710 U	3,800 U	3,800 U	3,800 U
F38C1C01	01/12/00	04-06ft	8,300 U	8,300 U	4,100 U	4,100 U	19,000 E	210,000 E	160,000 E	350,000 E	55,000 E	66,000 E	4,100 U	4,100 U	4,100 U
F39C1C01	01/12/00	04-06ft	7,300 U	7,300 U	3,600 U	3,600 U	3,600 U	420 U	800 U	490 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
F40B1C01	01/12/00	02-04ft	7,400 U	7,400 U	3,700 U	3,700 U	3,700 U	440 U	370 U	760 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F41C1C01 (I)	01/12/00	04-06ft	8,600 U	8,600 U	4,300 U	4,300 U	150,000 D	460,000 D	310,000 E	580,000 E	130,000 E	150,000 E	4,200 U	4,200 U	4,200 U
F42C1C01 (I)	01/12/00	04-06ft	8,400 U	8,400 U	4,100 U	4,100 U	9,400 U	29,000 U	49,000 U	81,000 U	23,000 D	28,000 U	4,100 U	4,100 U	4,100 U
F43C1C01	01/12/00	04-06ft	8,200 U	8,200 U	4,000 U	4,000 U	3,500 U	5,500 U	4,500 U	6,300 U	1,900 U	2,600 U	4,100 U	4,100 U	4,100 U
F44C1C01 (I)	01/12/00	04-06ft	7,200 U	7,200 U	22,000 U	22,000 U	40,000 U	54,000 U	36,000 U	49,000 U	17,000 E	14,800 D	3,500 U	3,500 U	3,500 U
F45C1C01	01/13/00	04-06ft	18,000 U	18,000 U	7,400 U	7,400 U	170,000 E	170,000 E	70,000 E	170,000 E	47,000 E	61,000 E	3,600 U	3,600 U	3,600 U
F46C1C01	01/13/00	04-06ft	8,300 U	8,300 U	17,000 U	17,000 U	37,000 U	62,000 U	70,000 E	91,000 E	36,000 E	35,000 U	4,100 U	4,100 U	4,100 U
F46C1C01dup	01/13/00	04-06ft	8,500 U	8,500 U	6,300 U	6,300 U	31,000 U	67,000 U	77,000 E	77,000 E	28,000 E	30,000 U	4,200 U	4,200 U	4,200 U
F47C1C01	01/13/00	04-06ft	6,900 U	6,900 U	3,400 U	3,400 U	17,000 U	66,000 U	48,000 U	78,000 E	22,000 E	25,000 U	3,400 U	3,400 U	3,400 U
F48C1C01	01/13/00	04-06ft	9,300 U	9,300 U	3,500 U	3,500 U	2,200 U	13,000 U	18,000 U	23,000 U	7,900 U	9,400 U	4,600 U	4,600 U	4,600 U

APPENDIX E  
 TABLE E-6  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Subsurface Soil Analytical Summary - Area F  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate
F49C1C01	01/17/00	04-06ft	R	R	R	R	R	R	R	R	R	R	R	R	R
F50D1C01	01/17/00	06-08ft	10,000 U	10,000 U	5,100 U	2,300 J	2,500 J	1,000 J	3,500 J	1,800 J	2,000 J	2,100 J	5,100 U	5,100 U	5,100 U
F51D1C01	01/17/00	06-08ft	8,300 U	8,300 U	31,000 E	190,000 E	340,000 E	320,000 E	300,000 E	380,000 E	130,000 E	130,000 E	4,100 U	4,100 U	4,100 U
F52B1C01 [1]	01/19/00	02-04ft	8,800 U	8,800 U	4,300 U	12,000 U	43,000 DJ	100,000 D	72,000 DI	100,000 D	26,000 U	40,000 DI	4,300 U	4,300 U	4,300 U
F53B1C01	01/19/00	02-04ft	7,600 U	7,600 U	3,900 U	3,700 U	10,000 U	17,000 U	14,000 U	16,000 U	4,400 U	5,000 U	3,700 U	3,700 U	3,700 U
F54C1C01	01/21/00	04-06ft	10,000 U	10,000 U	5,100 U	5,100 U	5,100 U	880 J	800 U	1,100 J	5,100 U	5,100 U	5,100 U	5,100 U	5,100 U
F55B1C01	01/19/00	02-04ft	7,500 U	7,500 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F56C1C01	01/19/00	04-06ft	7,400 U	7,400 U	3,600 U	3,600 U	1,200 J	3,200 J	2,700 J	4,100 J	3,600 U	1,400 J	3,600 U	3,600 U	3,600 U
F56C1C01dup	01/19/00	04-06ft	7,500 U	7,500 U	3,700 U	3,700 U	900 J	2,500 J	2,200 J	3,600 J	3,700 U	1,200 J	3,700 U	3,700 U	3,700 U
F57B1C01	01/19/00	02-04ft	7,300 U	7,300 U	3,600 U	3,600 U	660 J	2,600 J	1,800 J	2,900 J	3,700 U	1,000 J	3,600 U	3,600 U	3,600 U
F58C1C01	03/07/00	04-06ft	7,500 U	7,500 U	3,700 U	3,700 U	3,200 U	530 J	800 U	490 J	3,700 U	1,200 U	3,700 U	3,700 U	3,700 U
F59C1C01	03/07/00	04-06ft	7,500 U	7,500 U	3,700 U	3,700 U	920 J	1,900 J	1,200 J	630 J	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F60C1C01	03/07/00	04-06ft	7,600 U	7,600 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U

Notes:

- All results in micrograms per kilogram (µg/kg)
- U - Compound not detected above method reporting limit presented
- J - Estimated concentration
- E - Estimated concentration; calibration range exceeded.
- R - Data rejected due to QC violation
- D - Analyte concentration obtained from dilution
- Sample not tested
- [1] - Multiple analysis of sample conducted; result presented is the highest detected or

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area F  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	Di-n-butyl-phthalate	Carbazole	Chrysene	Di-n-butyl-phthalate	Di-n-octyl-phthalate	Dibenz(a,b)-anthracene	Dibenzofuran	Diethyl-phthalate	Dimethyl-phthalate	Fluoranthene	Fluorene	Hexachloro-benzene
Locations greater than 100 ft of Shore														
F01C1C01	01/03/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F02C1C01	01/03/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F03C1C01	01/03/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	560 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F04E1C01	01/03/00	08-10ft	3,600 U	3,600 U	860 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
F05D1C01	01/03/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
F06E1C01	01/03/00	08-10ft	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F07E1C01 (1)	01/03/00	08-10ft	R	280,000 J	540,000 J	R	77,000 J	250,000 J	3,700 U	3,700 U	R	1,400,000 J	400,000 J	R
F08E1C01	01/03/00	08-10ft	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F09D1C01 (1)	01/03/00	06-08ft	3,800 U	6,300 J	56,000 J	3,800 U	8,300 U	8,300 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F10E1C01	01/03/00	08-10ft	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F11D1C01	01/03/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
F12E1C01	01/06/00	08-10ft	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F13E1C01	01/06/00	08-10ft	4,000 U	4,000 U	4,000 U	4,000 U	800 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
F14D1C01	01/06/00	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F15D1C01	01/06/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F16D1C01	01/06/00	06-08ft	4,100 U	4,100 U	4,100 U	4,100 U	800 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
F17C1C01	01/06/00	04-06ft	3,600 U	3,600 U	2,800 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
F18C1C01	01/06/00	04-06ft	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F19C1C01	01/07/00	04-06ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F20C1C01	01/07/00	04-06ft	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F21C1C01	01/07/00	04-06ft	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F22E1C01	01/07/00	08-10ft	4,000 U	4,000 U	4,000 U	4,000 U	800 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
F23C1C01 (1)	01/07/00	04-06ft	3,700 U	49,000 E	81,000 E	3,700 U	11,000 U	68,000 E	3,700 U	3,700 U	3,700 U	240,000 J	100,000 E	3,700 U
F24E1C01	01/07/00	08-10ft	4,000 U	4,000 U	4,000 U	4,000 U	800 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
F24E1C01 dup	01/07/00	08-10ft	4,000 U	4,000 U	4,000 U	4,000 U	800 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
F25E1C01	01/07/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
F26E1C01	02/02/00	08-10ft	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F27E1C01	02/02/00	08-10ft	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F28E1C01	02/02/00	08-10ft	3,900 U	3,900 U	3,900 U	3,900 U	800 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
F29E1C01	01/10/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	800 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
F31C1C01	01/10/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F32E1C01	02/02/00	08-10ft	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F33C1C01	01/07/00	04-06ft	4,000 U	4,000 U	4,000 U	4,000 U	800 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
F34C1C01	01/11/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F34C1C01 dup	01/11/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F35C1C01	01/11/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	800 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
F36C1C01	01/11/00	04-06ft	4,400 U	5,200 U	190,000 E	4,400 U	11,000 U	3,300 J	4,400 U	4,400 U	4,400 U	420,000 E	10,000 U	4,400 U
F37C1C01	01/12/00	04-06ft	3,800 U	3,800 U	160,000 E	3,800 U	800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
F38C1C01	01/12/00	04-06ft	4,100 U	180,000 E	160,000 E	4,100 U	21,000 U	110,000 E	4,100 U	4,100 U	4,100 U	400,000 E	210,000 E	4,100 U
F39C1C01	01/12/00	04-06ft	3,600 U	3,600 U	360 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
F40D1C01	01/12/00	02-04ft	3,700 U	3,700 U	500 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
F41C1C01 (1)	01/12/00	04-06ft	4,200 U	460,000 E	180,000 D	4,200 U	56,000 U	230,000 D	4,200 U	4,200 U	4,200 U	1,300,000 D	290,000 D	4,200 U
F42C1C01 (1)	01/12/00	04-06ft	4,100 U	15,000 U	56,000 D	4,100 U	9,000 U	1,900 J	4,100 U	4,100 U	4,100 U	150,000 D	12,000 U	4,100 U
F43C1C01	01/12/00	04-06ft	4,100 U	3,100 U	4,800 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	12,000 U	3,100 U	4,100 U
F44C1C01 (1)	01/12/00	04-06ft	3,500 U	6,600 U	45,000 D	3,500 U	3,500 U	7,700 U	3,500 U	3,500 U	3,500 U	110,000 D	24,000 U	3,500 U
F45C1C01	01/12/00	04-06ft	3,600 U	32,000 U	130,000 E	3,600 U	21,000 U	120,000 E	3,600 U	3,600 U	3,600 U	380,000 E	240,000 E	3,600 U
F46C1C01	01/12/00	04-06ft	4,100 U	11,000 U	70,000 E	4,100 U	800 U	9,800 U	4,100 U	4,100 U	4,100 U	140,000 E	28,000 U	4,100 U
F46C1C01 dup	01/12/00	04-06ft	4,200 U	8,600 U	59,000 U	4,200 U	800 U	9,800 U	4,200 U	4,200 U	4,200 U	140,000 E	28,000 U	4,200 U
F47C1C01	01/13/00	04-06ft	3,400 U	3,400 U	53,000 E	3,400 U	10,000 U	3,400 U	3,400 U	3,400 U	3,400 U	150,000 E	8,000 U	3,400 U
F48C1C01	01/13/00	04-06ft	4,600 U	510 U	14,000 U	4,600 U	4,600 U	1,500 U	4,600 U	4,600 U	4,600 U	23,000 U	3,100 U	4,600 U

APPENDIX E  
TABLE E-6  
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area F  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	D, e	Butylbenzyl-phthalate	Carbazole	Chrysene	Di-n-butyl-phthalate	Di-n-octyl-phthalate	Dibenz(a,h)-Anthracene	Dibenzofuran	Diethyl-phthalate	Dimethyl-phthalate	Fluoranthene	Fluorene	Heptachloro-benzene
F49CIC01	01/13/00	04-06ft	R	5,100 U	2,200 J	900 J	5,100 U	5,100 U	800 U	1,800 J	5,100 U	5,100 U	1,400 J	2,400 J	R
F50D1C01	01/12/00	06-08ft	U	4,100 U	180,000 E	4,700 J	4,100 U	4,100 U	800 U	170,000 E	4,100 U	4,100 U	11,000 U	2,400 J	U
F51D1C01	01/17/00	06-08ft	U	4,100 U	5,600 U	260,000 E	4,100 U	4,100 U	55,000 U	23,000 E	4,100 U	4,100 U	640,000 E	350,000 E	U
F52B1C01 [1]	01/19/00	02-04ft	U	4,300 U	5,600 U	91,000 D	4,300 U	4,300 U	12,000 U	23,000 E	4,300 U	4,300 U	210,000 D	8,700 U	U
F53B1C01	01/19/00	02-04ft	U	3,700 U	1,500 J	15,000 J	3,700 U	3,700 U	800 U	630 J	3,700 U	3,700 U	30,000 U	3,800 U	U
F54C1C01	01/21/00	04-06ft	U	5,100 U	5,100 U	1,000 J	5,100 U	5,100 U	800 U	5,100 U	5,100 U	5,100 U	2,000 J	5,100 U	U
F55B1C01	01/19/00	02-04ft	U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	U
F56C1C01	01/19/00	04-06ft	U	3,600 U	3,600 U	3,600 J	3,600 U	3,600 U	800 U	830 J	3,600 U	3,600 U	8,500 U	460 J	U
F56C1C01 dup	01/19/00	04-06ft	U	3,700 U	3,700 U	2,800 J	3,700 U	3,700 U	800 U	780 J	3,700 U	3,700 U	5,800 U	3,700 U	U
F57B1C01	01/19/00	02-04ft	U	3,600 U	3,600 U	2,500 J	3,600 U	3,600 U	800 U	3,600 U	3,600 U	3,600 U	6,200 U	3,600 U	U
F58C1C01	03/07/00	04-06ft	U	3,700 U	3,700 U	430 J	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	880 J	3,700 U	U
F59C1C01	03/07/00	04-06ft	U	3,700 U	3,700 U	1,800 J	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,100 J	3,700 U	U
F60C1C01	03/07/00	04-06ft	U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	800 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	U

Notes:  
All results in micrograms per kilogram (µg/kg)  
U - Compound not detected above method reporting limit presented  
J - Estimated concentration  
E - Estimated concentration; calibration range exceeded  
R - Data rejected due to QC violation  
D - Analyte concentration obtained from dilution  
- - - Sample not tested  
[1] - Multiple analysis of sample conducted; result presented is the highest detected or



SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)  
Subsurface Soil Analytical Summary - Area F  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	Hexachlorobutadiene	Hexachloro-cyclopentadiene	Hexachlorocyclohexane	Indeno(1,2,3-cd)pyrene	Isothionc	N-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyren
F01C1C01	01/04/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
F02C1C01	01/04/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
F03C1C01	01/04/00	04-06ft	3,800 U	3,800 U	3,800 U	2,100 J	3,800 U	3,800 U	460 J	3,800 U	7,700 U	1,100 J	3,800 U	1,600 U
F04E1C01	01/04/00	08-10ft	3,600 U	3,600 U	3,600 U	530 J	3,600 U	3,600 U	4,500 U	3,600 U	7,400 U	2,200 J	3,600 U	1,100 U
F05D1C01	01/04/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
F06E1C01	01/04/00	08-10ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
F07E1C01 [1]	01/05/00	08-10ft	R	R	R	330,000 J	R	R	630,000 J	44,000 J	R	1,600,000 J	81,000 J	1,000,000 U
F08E1C01	01/05/00	08-10ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	420 U
F09D1C01 [1]	01/05/00	06-08ft	3,800 U	3,800 U	3,800 U	28,000 U	3,800 U	3,800 U	2,800 J	3,800 U	7,700 U	67,000 E	3,800 U	110,000 U
F10E1C01	01/05/00	08-10ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
F11D1C01	01/06/00	06-08ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	3,600 U	3,600 U	3,600 U
F12E1C01	01/06/00	08-10ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,800 U	3,800 U	3,800 U	3,800 U
F13E1C01	01/06/00	08-10ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,200 U	4,000 U	4,000 U	4,000 U
F14D1C01	01/06/00	06-08ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
F15D1C01	01/06/00	06-08ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	660 U
F16D1C01	01/06/00	06-08ft	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U	8,300 U	4,100 U	4,100 U	4,100 U
F17C1C01	01/06/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,400 U	2,700 J	3,600 U	4,100 U
F18C1C01	01/06/00	04-06ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
F19C1C01	01/07/00	04-06ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
F20C1C01	01/07/00	04-06ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
F21C1C01	01/07/00	04-06ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
F22E1C01	01/07/00	08-10ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	4,000 U
F23C1C01 [1]	01/07/00	04-06ft	3,700 U	3,700 U	3,700 U	41,000 U	3,700 U	3,700 U	160,000 E	3,700 U	7,500 U	280,000 E	4,000 U	160,000 U
F24E1C01	01/07/00	08-10ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,100 U	4,000 U	4,000 U	4,000 U
F25E1C01 dup	01/07/00	08-10ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,000 U	4,000 U	4,000 U	4,000 U
F26E1C01	02/02/00	08-10ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
F27E1C01	02/02/00	08-10ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
F28E1C01	02/02/00	08-10ft	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	7,900 U	3,900 U	3,900 U	3,900 U
F29E1C01	01/10/00	08-10ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	3,400 U	3,400 U	3,400 U
F31C1C01	01/10/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700 U
F32E1C01	02/03/00	08-10ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,600 U	3,800 U	3,800 U	3,800 U
F33C1C01	02/03/00	04-06ft	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	8,200 U	4,000 U	4,000 U	4,000 U
F34C1C01	01/11/00	04-06ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	3,800 U	3,800 U	3,800 U
F34C1C01 dup	01/11/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	3,700 U
F35C1C01	01/11/00	04-06ft	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	7,100 U	3,500 U	3,500 U	3,500 U
F36C1C01	01/11/00	04-06ft	4,400 U	4,400 U	4,400 U	85,000 E	4,400 U	4,400 U	210 J	4,400 U	8,900 U	150,000 E	4,400 U	2,500 U
F37C1C01	01/12/00	04-06ft	3,800 U	3,800 U	3,800 U	1,000 J	3,800 U	3,800 U	3,800 U	3,800 U	7,700 U	2,700 J	3,800 U	3,800 U
F38C1C01	01/12/00	04-06ft	4,100 U	4,100 U	4,100 U	77,000 E	4,100 U	4,100 U	240,000 E	4,100 U	8,300 U	570,000 E	4,400 U	160,000 U
F39C1C01	01/12/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,600 U	3,600 U	3,600 U
F40B1C01	01/12/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,400 U	600 J	3,600 U	540 U
F41C1C01 [1]	01/12/00	04-06ft	4,200 U	4,200 U	4,200 U	170,000 E	4,200 U	4,200 U	300,000 D	4,200 U	8,600 U	1,400,000 D	4,300 U	610 U
F42C1C01 [1]	01/12/00	04-06ft	4,100 U	4,100 U	4,100 U	28,000 D	4,100 U	4,100 U	3,800 J	4,100 U	8,400 U	100,000 E	4,100 U	88,000 U
F43C1C01	01/12/00	04-06ft	4,100 U	4,100 U	4,100 U	2,200 J	4,100 U	4,100 U	4,600 U	4,100 U	8,200 U	13,000 U	4,100 U	8,000 U
F44C1C01 [1]	01/12/00	04-06ft	3,500 U	3,500 U	3,500 U	15,000 U	3,500 U	3,500 U	2,300 J	3,500 U	7,200 U	120,000 E	3,500 U	100,000 U
F45C1C01	01/12/00	04-06ft	3,600 U	3,600 U	3,600 U	54,000 U	3,600 U	3,600 U	48,000 U	3,600 U	7,400 U	490,000 E	2,500 J	270,000 U
F46C1C01	01/12/00	04-06ft	4,100 U	4,100 U	4,100 U	19,000 U	4,100 U	4,100 U	9,600 U	4,100 U	8,300 U	120,000 E	500 J	150,000 U
F46C1C01 dup	01/12/00	04-06ft	4,200 U	4,200 U	4,200 U	34,000 U	4,200 U	4,200 U	9,200 U	4,200 U	8,500 U	99,000 E	650 J	130,000 U
F47C1C01	01/13/00	04-06ft	3,400 U	3,400 U	3,400 U	26,000 U	3,400 U	3,400 U	3,400 U	3,400 U	6,900 U	76,000 E	530 J	82,000 U
F48C1C01	01/13/00	04-06ft	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	1,900 J	4,600 U	9,300 U	8,000 U	4,600 U	21,000 U

Locations greater than 100 ft of Shore

APPENDIX E  
 TABLE E-6  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SYOCs)  
 Subsurface Soil Analytical Summary - Area F  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	N-Nitrosodipropylamine	N-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
F49CIC01	01/11/00	04-06ft	R	R	R	R	R	R	R	R	R	R	R	R	R
E50QIC01	01/11/00	06-08ft	5,100 U	5,100 U	5,100 U	2,200 J	5,100 U	5,100 U	5,100 U	1,300 J	5,100 U	10,000 U	1,700 J	5,100 U	1,400
F51DIC01	01/11/00	06-08ft	4,100 U	4,100 U	4,100 U	150,000 E	4,100 U	4,100 U	4,100 U	440,000 E	4,100 U	8,300 U	870,000 E	74,000 E	6,400
F52BIC01	01/19/00	02-04ft	4,100 U	4,100 U	4,100 U	35,000 U	4,300 U	4,300 U	4,300 U	40,000 DJ	4,300 U	8,800 U	190,000 D	4,300 U	700,000
F53BIC01	01/19/00	02-04ft	3,700 U	3,700 U	3,700 U	5,000 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	24,000 U	3,700 U	140,000
F54CIC01	01/21/00	04-06ft	5,100 U	5,100 U	5,100 U	5,100 U	5,100 U	5,100 U	5,100 U	60,000 U	5,100 U	10,000 U	1,600 J	5,100 U	34,000
F55BIC01	01/19/00	02-04ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	3,700 U	3,700 U	1,200
F56CIC01	01/19/00	04-06ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	2,900 J	3,600 U	7,400 U	6,200 U	3,600 U	3,700
F56CIC01dup	01/19/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,100 J	3,700 U	7,500 U	4,300 U	3,700 U	4,700
F57BIC01	01/19/00	02-04ft	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	7,300 U	3,500 J	3,600 U	3,700
F58CIC01	03/07/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	570 J	3,700 U	3,200
F59CIC01	03/07/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,500 U	2,800 J	3,700 U	2,900
F60CIC01	03/07/00	04-06ft	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U	7,600 U	3,700 U	3,700 U	3,700

Notes:  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from dilution  
 \* - Sample not tested  
 (I) - Multiple analysis of sample conducted; result presented is the highest detected or

**SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)**  
 Subsurface Soil Analytical Summary - Area F  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth
<b>Locations greater than 100 ft of Shore</b>		
F01C1C01	01/04/00	04-06ft
F02C1C01	01/04/00	04-06ft
F03C1C01	01/04/00	04-06ft
F04E1C01	01/04/00	08-10ft
F03D1C01	01/04/00	06-08ft
F06E1C01	01/04/00	08-10ft
F07E1C01 [1]	01/05/00	08-10ft
F08E1C01	01/05/00	08-10ft
F09D1C01 [1]	01/05/00	06-08ft
F10E1C01	01/05/00	08-10ft
F11D1C01	01/06/00	06-08ft
F13E1C01	01/06/00	08-10ft
F13E1C01	01/06/00	08-10ft
F14D1C01	01/06/00	06-08ft
F15D1C01	01/06/00	05-08ft
F16D1C01	01/06/00	06-08ft
F17C1C01	01/06/00	04-06ft
F18C1C01	01/06/00	04-06ft
F19C1C01	01/07/00	04-06ft
F20C1C01	01/07/00	04-06ft
F21C1C01	01/07/00	04-06ft
F23E1C01	01/07/00	08-10ft
F23C1C01 [1]	01/07/00	04-06ft
F24E1C01	01/07/00	08-10ft
F24E1C01dup	01/07/00	08-10ft
F25E1C01	01/07/00	08-10ft
F26E1C01	02/02/00	08-10ft
F27E1C01	02/02/00	08-10ft
F28E1C01	02/02/00	08-10ft
F29E1C01	01/10/00	08-10ft
F31C1C01	01/10/00	04-06ft
F32E1C01	02/02/00	08-10ft
F31C1C01	01/07/00	04-06ft
F34C1C01	01/11/00	04-06ft
F34C1C01dup	01/11/00	04-06ft
F35C1C01	01/11/00	04-06ft
F36C1C01	01/11/00	04-06ft
F37C1C01	01/12/00	04-06ft
F38C1C01	01/12/00	04-06ft
F39C1C01	01/12/00	04-06ft
F40B1C01	01/12/00	02-04ft
F41C1C01 [1]	01/12/00	04-06ft
F42C1C01 [1]	01/12/00	04-06ft
F43C1C01	01/12/00	04-06ft
F44C1C01 [1]	01/12/00	04-06ft
F45C1C01	01/13/00	04-06ft
F46C1C01	01/12/00	04-06ft
F46C1C01dup	01/12/00	04-06ft
F47C1C01	01/13/00	04-06ft
F48C1C01	01/13/00	04-06ft

APPENDIX E  
 TABLE E-6  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Subsurface Soil Analytical Summary - Area F  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth
F49C1C01	01/13/00	04-06ft
F50D1C01	01/13/00	06-08ft
F51D1C01	01/17/00	06-08ft
F52B1C01 (1)	01/19/00	02-04ft
F53B1C01	01/19/00	02-04ft
F54C1C01	01/21/00	04-06ft
F55B1C01	01/19/00	02-04ft
F56C1C01	01/19/00	04-06ft
F56C1C01dup	01/19/00	04-06ft
F57B1C01	01/19/00	02-04ft
F58C1C01	03/07/00	04-06ft
F59C1C01	03/07/00	04-06ft
F60C1C01	03/07/00	04-06ft

Notes:  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above  
 method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration, calibration range  
 exceeded  
 R - Data rejected due to QC violation  
 D - Analyte concentration obtained from dilution  
 -- Sample not tested  
 (1) - Multiple analysis of sample conducted,  
 result presented is the highest detected or

TABLE E-7

TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
 Subsurface Soil Analytical Summary - Area A  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	TPH	Ammonia	Cyanide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Lead
Locations Within 100 ft. of Shore														
A01C1C01	02/03/00	04-06ft	1,100 U		0.27 B								5,120	
A02C1C01	02/03/00	04-06ft	1,100 U		1.2								13,400	
A03E1C01	05/03/00	08-10ft	1,100 U		0.36 B								4,210	
A04C1C01	03/02/00	04-06ft	990 U		0.36 B								6,150	
A05D1C01	03/02/00	06-08ft	1,200 U		0.35 B								10,900	
A06D1C01	03/03/00	06-08ft	1,100 U		0.27 B								11,300	
A07D1C01	03/03/00	06-08ft	1,100 U		1								11,500	
A08D1C01	03/03/00	06-08ft	1,100 U		1.6								14,800	
A09E1C01	02/04/00	08-10ft	19,000 U		0.23 B								7,910	
A10D1C01	02/04/00	06-08ft	1,100 U		2.9								14,000	
A11D1C01	02/04/00	06-08ft	1,200 U		0.11 U								16,600	
A12E1C01	03/03/00	08-10ft	12,000 U		0.039 U								17,300	
A13E1C01	03/03/00	08-10ft	3,100 U		0.033 U								14,500	
A14C1C01	07/03/00	04-06ft	1,200 U		0.28 B								18,900	
A15B1C01	02/03/00	02-04ft	4,200 U		0.13 B								11,700	
A13B1C01dup	02/03/00	02-04ft	2,900 U		0.088 B								17,800	
A16D1C01	02/03/00	06-08ft	1,000 U		0.058 U								34,900	
A17B1C01	02/03/00	02-04ft	1,000 U		0.37 B								18,400	
A18C1C01	02/03/00	04-06ft	1,100 U		0.069 U								18,800	
A19D1C01	02/04/00	06-08ft	1,100 U		0.1 U								14,900	
A22C1C01	02/08/00	04-06ft	1,100 U		3.5								17,800	
A23C1C01	02/08/00	04-06ft	1,000 U		0.91								13,900	
A24D1C01	02/09/00	06-08ft	1,000 U		0.19 B								16,800	
A25D1C01	02/08/00	06-08ft	1,000 U		0.055 U								19,300	
A26D1C01	02/08/00	06-08ft	1,100 U		0.77								12,100	
A27C1C01	02/08/00	04-06ft	1,000 U		0.59 B								4,160	
A27C1C01dup	02/08/00	04-06ft	1,000 U		0.19 B								5,710	
A71C1C01	02/25/00	04-06ft	1,000 U		0.43 B								8,850	
A72E1C01	02/25/00	08-10ft	5,500 U		3.3								12,000	
A73D1C01	02/25/00	06-08ft	970 U		1								6,590	
A74E1C01	02/25/00	08-10ft	1,000 U		13.4								9,150	
Locations Greater Than 100 ft. of Shore														
A28C1C01	02/08/00	04-06ft			1.4								21,200	
A29D1C01	02/09/00	06-08ft	1,000 U		0.26 B								14,300	
A30E1C01	02/09/00	08-10ft	980 U		0.21 B								17,700	
A31D1C01	02/08/00	06-08ft			0.23 B								19,000	
A32E1C01	02/09/00	08-10ft	1,600 U		0.61 B								11,000	
A33C1C01	02/08/00	04-06ft			0.11 B								17,200	
A34C1C01	02/08/00	04-06ft			0.21 B								15,500	
A35C1C01	02/08/00	04-06ft			0.031 B								16,700	
A36E1C01	02/08/00	08-10ft			0.19 B								44,900	
A37C1C01	02/17/00	04-06ft	970 U		0.13 B								16,800	
A38E1C01	02/09/00	08-10ft	950 U		0.071 U								9,690	
A40F1C01	02/09/00	10-12ft			0.06 B								15,000	
A42E1C01	02/09/00	08-10ft	1,000 U		0.33 B								13,300	
A43C1C01	02/17/00	04-06ft	1,000 U		0.85								13,800	
A44C1C01	02/17/00	04-06ft	1,000 U		0.27 B								18,500	
A44C1C01dup	02/17/00	04-06ft	950 U		0.047 U								17,500	

**APPENDIX E**  
**TABLE E-7**  
**TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS**  
 Subsurface Soil Analytical Summary - Area A  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	TPH	Ammonia	Cyanide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Lead
A45E1C01	02/09/00	08-10ft	950	U	0.12	B							18,100	
A46E1C01	02/10/00	08-10ft	940	U	0.39	U							19,100	
A47G1C01	02/09/00	12-14ft	1,000	U	0.064	U							15,000	
A48C1C01	02/09/00	04-06ft	1,000	U	0.14	B							7,760	
A49G1C01	03/17/00	12-14ft	940	U	0.039	B							134,100	
A50E1C01	02/23/00	08-10ft	1,100	U	0.088	B							20,800	
A31D1C01	02/23/00	06-08ft	1,100	U	0.23	B							14,200	
A32D1C01	02/09/00	06-08ft	940	U	0.086	B							22,100	
A33D1C01	02/09/00	06-08ft	1,100	U	0.1	B							8,760	
A34E1C01	02/10/00	08-10ft	1,000	U	0.092	B							14,000	
A35D1C01	02/09/00	06-08ft	1,100	U	0.14	B							13,800	
A35D1C01dup	02/09/00	06-08ft	990	U	0.22	B							15,000	
A36C1C01	02/09/00	04-06ft	1,100	U	0.37	B							16,500	
A37E1C01	02/23/00	08-10ft	1,100	U	0.073	U							14,000	
A38C1C01	03/29/00	04-06ft	940	U	0.13	B							13,800	
A39C1C01	03/29/00	04-06ft	1,000	U	0.034	B							14,000	
A60C1C01	02/29/00	04-06ft	1,100	U	0.071	B							8,470	
A61C1C01	03/29/00	04-06ft	970	U	1	U							10,900	
A62D1C01	03/25/00	06-08ft	8,900	U	1.5	U							8,390	
A63B1C01	02/29/00	02-04ft	1,100	U	0.4	B							20,000	
A64C1C01	03/29/00	04-06ft	1,000	U	0.86	B							17,000	
A64C1C01dup	03/29/00	04-06ft	1,000	U	1.3	B							22,200	
A65C1C01	03/29/00	04-06ft	1,000	U	10.9	U							10,700	
A66D1C01	02/29/00	06-08ft	3,300	U	1	U							17,900	
A67C1C01	03/25/00	04-06ft	2,400	U	6	U							26,100	
A68E1C01	02/25/00	08-10ft	1,000	U	4.3	U							10,100	
A69D1C01	03/25/00	06-08ft	1,600	U	0.98	U							11,600	
A70D1C01	03/25/00	06-08ft	1,000	U	40.9	U							12,800	
													9,150	

**Notes:**  
 All results in milligrams per kilogram (mg/kg)  
 U - Compound not detected above method reporting limit presented.  
 B - Estimated concentration above instrument detection limit but below contract-required detection limit.  
 E - Estimated concentration due to interference.  
 M - Duplicate injection precision not met.  
 N - Spiked sample recovery not within control limits.  
 S - Reported value determined by Method of Standard Additions (MSA).  
 W - Post-digestion spike for Furnace AA analysis is out of control limits while sample absorbency is <50% of spike absorbency.  
 \* - Duplicate analysis not within control limits.  
 † - Correlation coefficient for the MSA is less than 0.995.  
 sample not analyzed.

**TOTAL PETROLEUM HYDROCARBONS(TPH), AMMONIA, CYANIDE, AND METALS**  
**Subsurface Soil Analytical Summary - Area A**  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
<b>Locations Within 100 ft. of Shore</b>								
A01CIC01	02/03/00	04-06ft						
A02CIC01	02/03/00	04-06ft						
A03EIC01	03/03/00	08-10ft						
A04CIC01	03/02/00	04-06ft						
A05DIC01	03/03/00	06-08ft						
A06DIC01	03/03/00	06-08ft						
A07DIC01	03/03/00	06-08ft						
A08DIC01	03/03/00	06-08ft						
A09EIC01	02/04/00	08-10ft						
A10DIC01	02/04/00	06-08ft						
A11DIC01	02/04/00	06-08ft						
A12EIC01	03/03/00	08-10ft						
A13EIC01	03/03/00	08-10ft						
A14CIC01	02/03/00	04-06ft						
A15BIC01	02/03/00	02-04ft						
A150IC01dup	02/03/00	02-04ft						
A16DIC01	02/03/00	06-08ft						
A17BIC01	02/03/00	02-04ft						
A18CIC01	02/03/00	04-06ft						
A19DIC01	02/04/00	06-08ft						
A22CIC01	02/08/00	04-06ft						
A23CIC01	02/08/00	04-06ft						
A24DIC01	02/09/00	06-08ft						
A25DIC01	02/08/00	06-08ft						
A26DIC01	02/08/00	06-08ft						
A27CIC01dup	02/08/00	04-06ft						
A71CIC01	02/25/00	04-06ft						
A72EIC01	02/25/00	08-10ft						
A73DIC01	02/25/00	06-08ft						
A74EIC01	02/25/00	08-10ft						
<b>Locations Greater Than 100 ft. of Shore</b>								
A28CIC01	02/08/00	04-06ft						
A29DIC01	02/09/00	06-08ft						
A30EIC01	02/09/00	08-10ft						
A31DIC01	02/08/00	06-08ft						
A32EIC01	02/09/00	08-10ft						
A33CIC01	02/08/00	04-06ft						
A34CIC01	02/08/00	04-06ft						
A35CIC01	02/08/00	04-06ft						
A36EIC01	02/08/00	08-10ft						
A37CIC01	02/17/00	04-06ft						
A38EIC01	02/09/00	08-10ft						
A40FIC01	02/08/00	10-12ft						
A42EIC01	02/09/00	08-10ft						
A43CIC01	02/17/00	04-06ft						
A44CIC01	02/17/00	04-06ft						
A44CIC01dup	02/17/00	04-06ft						

APPENDIX E  
 TABLE E-7  
 TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
 Subsurface Soil Analytical Summary - Area A  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
A45E1C01	02/09/00	08-10ft						
A47E1C01	02/11/00	08-10ft						
A47G1C01	02/09/00	12-14ft						
A48C1C01	02/09/00	04-06ft						
A49G1C01	02/17/00	12-14ft						
A50E1C01	02/23/00	08-10ft						
A51D1C01	02/23/00	06-08ft						
A52D1C01	02/09/00	06-08ft						
A53D1C01	02/09/00	06-08ft						
A54E1C01	02/10/00	08-10ft						
A55D1C01	02/09/00	06-08ft						
A55D1C01dup	02/09/00	06-08ft						
A56C1C01	02/09/00	04-06ft						
A57E1C01	02/23/00	08-10ft						
A58C1C01	02/29/00	04-06ft						
A59C1C01	02/29/00	04-06ft						
A60C1C01	02/29/00	04-06ft						
A61C1C01	02/29/00	04-06ft						
A62D1C01	02/25/00	06-08ft						
A63B1C01	02/29/00	02-04ft						
A64C1C01	02/29/00	04-06ft						
A64C1C01dup	02/29/00	04-06ft						
A65C1C01	02/29/00	04-06ft						
A66D1C01	02/29/00	06-08ft						
A67C1C01	02/25/00	04-06ft						
A68E1C01	02/25/00	08-10ft						
A69D1C01	02/25/00	06-08ft						
A70D1C01	02/25/00	06-08ft						

- NOTES:**  
 All results in milligrams per kilogram (mg/kg)  
 U - Compound not detected above method reporting limit presented.  
 B - Estimated concentration above instrument detection limit but below contract-required detection limit  
 E - Estimated concentration due to interference.  
 M - Duplicate injection precision not met.  
 N - Spiked sample recovery not within control limits  
 S - Reported value determined by Method of Standard Additions (MSA)  
 W - Post-digestion spike for Furnace AA analysis is out of control limits while sample absorbency is <50% of spike absorbency.  
 \* - Duplicate analysis not within control limits  
 + - Correlation coefficient for the MSA is less than 0.995.  
 - Sample not analyzed



APPENDIX E  
TABLE E-8  
TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
Subsurface Soil Analytical Summary - Area D  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	TPH	Ammonia	Cyanide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Lead
Locations Within 100 ft. of Shore														
B07C1C01	01/27/00	04-06ft	2,200		0.31	B							12,700	
B08C1C01	01/27/00	04-06ft	1,000	U	0.29	B							13,600	
B09B1C01	02-04ft	02-04ft	1,800		0.71	B							16,400	
B17C1C01	01/31/00	04-06ft	1,000	U	0.059	B							7,910	
B18C1C01	01/27/00	04-06ft	1,000	U	2.2	B							15,200	
B20C1C01	01/31/00	04-06ft	1,000	U	0.24	B							11,800	
B21C1C01	01/31/00	04-06ft	2,500		0.095	B							5,370	
B22C1C01	01/31/00	04-06ft	970	U	0.15	B							6,760	
B23C1C01	01/21/00	04-06ft	970	U	0.099	B							6,840	
B24D1C01	03/01/00	06-08ft	970	U	2.1	B							5,660	
B25C1C01	02/01/00	04-06ft	1,000	U	2.5	B							12,900	
B26C1C01	02/05/00	04-06ft	1,000	U	4.8	B							11,900	
Locations Greater Than 100 ft. of Shore														
B01C1C01	01/27/00	04-06ft	2,600	20	0.46	B							14,500	
B02B1C01	01/27/00	03-04ft	990	U	0.56	B							14,700	
B03B1C01	01/27/00	02-04ft	10,000		0.41	D							12,600	
B04B1C01	01/27/00	02-04ft	12,000		0.32	B							9,680	
B05B1C01	01/27/00	02-04ft	1,100	U	1.5	B							11,400	
B06B1C01	01/27/00	02-04ft	1,000	U	2.8	B							14,500	
B10B1C01	01/27/00	03-04ft	1,100	U	2.6	B							26,400	
B11B1C01	01/27/00	03-04ft	5,900	U	6.3	B							18,900	
B12C1C01	01/27/00	04-06ft	6,800		0.33	B							10,700	
B13B1C01	01/27/00	02-04ft	7,400		0.33	B							14,300	
B14B1C01	01/27/00	02-04ft	1,100	20	0.053	B							16,500	
B19B1C01	01/27/00	02-04ft	1,100	U	0.37	B							17,800	
B27C1C01	02/22/00	04-06ft	1,000	U	0.25	B							6,870	
B28E1C01	02/23/00	08-10ft	1,000	U	3.5	U							9,790	
B29G1C01	03/02/00	12-14ft	1,100	U	0.2	U							16,400	
B30E1C01	03/01/00	08-10ft	1,000	U	0.19	B							17,800	
B31C1C01	03/01/00	04-06ft	1,100	U	4.8	B							14,900	
B32D1C01	03/01/00	06-08ft	1,200		0.21	B							17,800	
B33E1C01	03/01/00	08-10ft	1,000	U	0.12	B							16,100	
B34E1C01	02/23/00	08-10ft	1,100	U	2	B							12,600	
B35E1C01	03/23/00	08-10ft	1,000	U	0.47	B							13,300	
B36C1C01	03/22/00	04-06ft	1,100	U	0.062	U							14,700	
B37E1C01	03/02/00	08-10ft	1,600	U	1.9	B							8,140	
B38C1C01	02/22/00	04-06ft	990	U	0.19	B							18,500	
B38C1C01dup	02/22/00	04-06ft	1,100	U	0.25	B							14,700	
B39D1C01	03/01/00	06-08ft	1,000	U	0.12	B							15,100	
B40C1C01	03/01/00	04-06ft	1,000	U	0.97	B							11,100	
B41C1C01	03/01/00	04-06ft	1,300	U	1.5	B							10,000	
B42C1C01	02/22/00	04-06ft	1,000	U	0.62	B							8,710	
B43C1C01	02/22/00	04-06ft	1,000	U	0.059	U							16,800	
B44E1C01	02/22/00	08-10ft	1,400	U	0.22	B							8,530	

**APPENDIX E**  
**TABLE E-8**  
**TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS**  
**Subsurface Soil Analytical Summary - Area B**  
**Providence Gas Company**  
**642 Allens Avenue, Providence, Rhode Island**

Sample No.	Collection Date	Sample Depth	TPH	Ammonia	Cyanide	Antimony	Arsenic	Bismuth	Beryllium	Cadmium	Chromium	Copper	Iron	Lead
B45C1C01	02/22/00	04-06ft	1,100 U		0.67 B								13,100	
B46C1C01	02/18/00	04-06ft	1,100 U		1.6								13,300	
B47C1C01	02/18/00	04-06ft	1,100 U		0.31 B								11,700	
B48B1C01	02/22/00	03-04ft	1,000 U		0.08B U								16,900	
B49E1C01	02/18/00	08-10ft	1,100 U		0.21 B								18,900	
B50C1C01	03/07/00	04-06ft	1,000 U		0.57 B								20,600	
B51E1C01	02/18/00	08-10ft	1,000 U										11,800	
B52D1C01	03/18/00	06-08ft	1,000 U										15,300	
B53C1C01	02/18/00	04-06ft	1,000 U		0.14 B								12,200	
B54B1C01	02/18/00	02-04ft	1,100 U		1.6								12,800	
B55C1C01	03/02/00	04-06ft	970 U		3.6								31,800	
B56C1C01	03/02/00	04-06ft	3,100										15,000	
B57C1C01	03/02/00	04-06ft	1,100 U		0.91 B								139	
B58B1C01	03/02/00	02-04ft	1,100 U		0.4 B								15,600	
B59C1C01	02/18/00	04-06ft	1,000 U		0.22 B								18,600	
B60C1C01	02/18/00	04-06ft	970 U										15,100	
B61C1C01	02/16/00	04-06ft	1,000 U										28,600	
B62B1C01	02/16/00	02-04ft	1,100 U		0.047 U								30,200	
B64B1C01	02/18/00	02-04ft	1,000 U		0.13 B								15,100	
B65B1C01	02/18/00	02-04ft	1,100 U										15,000	
B66C1C01	02/18/00	04-06ft	1,100 U										13,300	

**Notes:**  
 All results in milligrams per kilogram (mg/kg)  
 U - Compound not detected above method reporting limit presented.  
 B - Estimated concentration above instrument detection limit but below contract-required detection limit.  
 E - Estimated concentration due to interference.  
 M - Duplicate injection precision not met.  
 N - Spiked sample recovery not within control limits.  
 S - Reported value determined by Method of Standard Additions (MSA).  
 W - Post-digestion spike for Furnace AA analysis is out of control limits while sample absorbency is <50% of spike absorbency.  
 \* - Duplicate analysis not within control limits.  
 + - Correlation coefficient for the MSA is less than 0.995.  
 - Sample not analyzed.

**APPENDIX E**  
**TABLE E-8**  
**TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS**  
**Subsurface Soil Analytical Summary - Area B**  
**Providence Gas Company**  
**642 Allens Avenue, Providence, Rhode Island**

Sample No.	Collection Date	Sample Depth	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
<b>Locations Within 100 ft. of Shore</b>								
B07C1C01	01/27/00	01-06ft						
B08C1C01	01/27/00	01-06ft						
B09B1C01	01/27/00	02-04ft						
B17C1C01	01/31/00	04-06ft						
B18C1C01	01/27/00	01-06ft						
B20C1C01	01/31/00	01-06ft						
B21C1C01	01/31/00	04-06ft						
B22C1C01	01/31/00	01-06ft						
B23C1C01	01/31/00	01-06ft						
B24D1C01	02/01/00	06-08ft						
B25C1C01	02/01/00	01-06ft						
B26C1C01	02/03/00	01-06ft						
<b>Locations Greater Than 100 ft. of Shore</b>								
B01C1C01	01/27/00	01-06ft						
B02B1C01	01/27/00	02-04ft						
B03B1C01	01/27/00	02-04ft						
B04B1C01	01/27/00	02-04ft						
B05B1C01	01/27/00	02-04ft						
B06B1C01	01/27/00	02-04ft						
B10B1C01	01/27/00	02-04ft						
B11B1C01	01/27/00	02-04ft						
B12C1C01	01/27/00	04-06ft						
B13B1C01	01/27/00	02-04ft						
B14B1C01	01/27/00	02-04ft						
B19B1C01	01/27/00	02-04ft						
B27C1C01	02/22/00	01-06ft						
B28E1C01	02/23/00	08-10ft						
B29G1C01	03/02/00	12-14ft						
B30E1C01	03/01/00	08-10ft						
B31C1C01	03/01/00	04-06ft						
B32D1C01	03/01/00	06-08ft						
B33E1C01	03/01/00	08-10ft						
B34E1C01	02/23/00	08-10ft						
B35E1C01	02/22/00	08-10ft						
B36C1C01	02/22/00	04-06ft						
B37E1C01	03/02/00	08-10ft						
B38C1C01	02/22/00	04-06ft						
B38C1C01dup	02/22/00	01-06ft						
B39D1C01	03/01/00	06-08ft						
B40C1C01	03/01/00	04-06ft						
B41C1C01	03/01/00	01-06ft						
B42C1C01	02/22/00	04-06ft						
B43C1C01	02/22/00	04-06ft						
B44E1C01	02/22/00	08-10ft						

APPENDIX E  
TABLE E-8  
TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
Subsurface Soil Analytical Summary - Area B  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
B15C1C01	02/22/00	04-06ft						
B16C1C01	02/18/00	04-06ft						
B47C1C01	02/18/00	04-06ft						
B48B1C01	02/22/00	02-04ft						
B49E1C01	02/18/00	08-10ft						
B50C1C01	03/07/00	04-06ft						
B51E1C01	02/18/00	08-10ft						
B52D1C01	02/18/00	06-08ft						
B53C1C01	02/18/00	04-06ft						
B54B1C01	02/18/00	02-04ft						
B55C1C01	03/02/00	04-06ft						
B56C1C01	03/02/00	04-06ft						
B57C1C01	03/02/00	04-06ft						
B58B1C01	03/02/00	02-04ft						
B59C1C01	02/18/00	04-06ft						
B60C1C01	02/18/00	04-06ft						
B60C1C01 dup	02/18/00	04-06ft						
B61C1C01	02/16/00	04-06ft						
B62B1C01	02/16/00	02-04ft						
B64B1C01	02/18/00	02-04ft						
B65B1C01	02/18/00	02-04ft						
B66C1C01	02/18/00	04-06ft						

- Notes:**  
 All results in milligrams per kilogram (mg/kg)  
 U - Compound not detected above method reporting limit presented.  
 D - Estimated concentration above instrument detection limit but below contract-required detection limit  
 E - Estimated concentration due to interference.  
 M - Duplicate injection precision not met.  
 N - Spiked sample recovery not within control limits  
 S - Reported value determined by Method of Standard Additions (MSA)  
 W - Post-digestion spike for Furnace AA analysis is out of control limits while sample absorbency is <50% of spike absorbency.  
 \* - Duplicate analysis not within control limits  
 + - Correlation coefficient for the MSA is less than 0.995.  
 - Sample not analyzed

TABLE E-9

TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
Subsurface Soil Analytical Summary - Area C

Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	TPH	Ammonia	Cyanide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Lead
Locations Greater Than 100 ft. of Shore														
C03C1C01	01/11/00	04-06ft	430		28								21,400	
C06B1C01	01/11/00	02-04ft	560		8.7								24,200	
C07B1C01	01/11/00	02-04ft	150	U	0.6	B							10,400	
C09C1C01	01/11/00	04-06ft	3,900		4.1								21,500	
C10C1C01	01/11/00	04-06ft	160	U	2.2								13,200	
C18B1C01	12/13/99	06-08ft	150	U	3.9								18,000	
C19C1C01	12/13/99	04-06ft	220		133								29,700	
C20C1C01	12/14/99	04-06ft	140		2.8								60,700	
C21D1C01	12/14/99	06-08ft		U	30								14,900	
C23C1C01	02/15/00	04-06ft	1,100	U	6								29,000	
C23B1C01	02/15/00	02-04ft	1,100	U	33								15,200	
C24C1C01	02/15/00	04-06ft	1,000	U	260								6,490	
C23E1C01	02/24/00	08-10ft	980	U	76.5								27,600	
C26C1C01	02/15/00	04-06ft	1,100	U	48.9	B							31,400	
C27B1C01	02/15/00	02-04ft	930	U	6.3								15,400	
C28B1C01	02/15/00	02-04ft	1,100	U	1								14,900	
C29C1C01	02/24/00	04-06ft	1,100	U	5.1								17,100	
C30C1C01	02/24/00	04-06ft	1,000	U	3.9								17,300	
C31B1C01	02/15/00	02-04ft	1,100	U	66.9								13,900	
C32E1C01	02/24/00	08-10ft	1,400	U	0.84								17,400	
C33F1C01	02/24/00	10-12ft	970	U	1.2								19,000	
C34G1C01	02/24/00	12-14ft	1,000	U	0.82	B							16,000	
C35C1C01	02/15/00	04-06ft	1,000	U	0.34	B							24,300	
C36B1C01	02/16/00	02-04ft	1,200	U	0.66	B							16,000	
C37E1C01	02/15/00	08-10ft	1,000	U	0.96								18,200	
C38E1C01	02/24/00	08-10ft	950	U	0.2	B							20,000	
C38E1C01dup	02/24/00	08-10ft	990	U	0.13	B							18,500	
C39F1C01	02/15/00	10-12ft	980	U	0.099	B							14,600	
C40E1C01	02/16/00	04-06ft	980	U	0.16	B							16,300	
C41C1C01	02/15/00	04-06ft	1,100	U	0.88	U							16,800	
C42C1C01	02/15/00	04-06ft	1,100	U	0.089	U							16,200	
C43C1C01	02/15/00	04-06ft	920	U	0.048	U							16,800	
C44E1C01	02/24/00	08-10ft	940	U	0.051	U							16,100	
C45C1C01	02/24/00	04-06ft	970	U	0.047	U							16,600	
C46C1C01	02/24/00	04-06ft	960	U	0.032	U							11,900	
C47C1C01	02/17/00	02-04ft	990	U	0.043	U							11,200	
C48B1C01	02/16/00	02-04ft	1,000	U	1.7								16,100	
C49B1C01	02/16/00	02-04ft	1,100	U	0.21	B							14,400	
C50C1C01	02/16/00	04-06ft	980	U	0.39	B							12,600	
C51B1C01	02/16/00	02-04ft	1,000	U	0.7	B							12,300	
C52B1C01	02/16/00	02-04ft	1,100	U	7.4								9,200	
C53D1C01	02/16/00	04-06ft	1,000	U	1.1	B							11,000	
C55C1C01	02/16/00	04-06ft	1,000	U	0.3	B							15,200	
C56C1C01	02/16/00	02-04ft	1,000	U	0.17	B							13,400	

APPENDIX E  
TABLE E-9  
TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
Subsurface Soil Analytical Summary - Area C  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	TPH	Ammonia	Cyanide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Lead
C5801C01	02/16/00	02-04ft	1,100	U	0.24	B							15,300	
C5831C01dup	02/16/00	02-04ft	1,200	U	0.21	B							18,200	
C5891C01	02/16/00	02-04ft	1,200	U	1.9	B							11,700	
C6481C01	02/11/00	02-04ft	1,000	U	3.9	U							18,800	
C6351C01	02/11/00	06-10ft	1,000	U	25.1	U							16,200	
C6661C01	02/11/00	04-06ft	1,000	U	0.054	U							13,300	
C6701C01	02/11/00	04-06ft	1,000	U	0.046	U							8,690	
C681C01	02/17/00	04-06ft	1,000	U	0.034	U							12,900	
C6981C01	02/11/00	02-04ft	1,000	U	0.11	B							11,000	
C7001C01	02/11/00	04-06ft	1,300	U	6.7	U							12,300	
C7181C01	02/11/00	02-04ft	970	U	0.056	B							8,780	
C7381C01	02/11/00	02-04ft	1,000	U	0.83	B							5,720	
C7391C01	02/11/00	02-04ft	930	U	1.4	U							11,200	
C7491C01	02/11/00	02-04ft	970	U	0.033	U							7,780	
C7591C01	02/10/00	08-10ft	1,000	U	0.14	B							11,800	
C7691C01	02/10/00	10-12ft	1,100	U	0.93	B							8,510	
C76F1C01dup	02/10/00	10-12ft	1,100	U	0.065	B							6,910	
C7791C01	02/10/00	08-10ft	1,100	U	2.8	U							10,500	
C7801C01	02/09/00	06-08ft	1,100	U	0.7	B							13,500	
C7991C01	02/10/00	08-10ft	1,000	U	2.7	U							11,200	
C80F1C01	02/10/00	10-12ft	930	U	0.09	B							11,800	
C8191C01	02/10/00	08-10ft	1,000	U	0.091	B							11,800	
C8391C01	02/10/00	08-10ft	1,000	U	0.066	B							15,100	

**Notes:**  
 All results in milligrams per kilogram (mg/kg)  
 U - Compound not detected above method reporting limit presented.  
 B - Estimated concentration above instrument detection limit but below contract-required detection limit  
 E - Estimated concentration due to interference.  
 M - Duplicate injection precision not met.  
 N - Spiked sample recovery not within control limits  
 S - Reported value determined by Method of Standard Additions (MSA)  
 W - Post-digestion spike for Furnace AA analysis is out of control limits while sample absorbency is <50% of spike absorbency.  
 \* - Duplicate analysis not within control limits  
 † - Correlation coefficient for file MSA is less than 0.995.  
 - Sample not analyzed

X E  
E-9

TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
 Subsurface Soil Analytical Summary - Area C  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
<b>Locations Greater Than 100 ft of Shore</b>								
C05C1C01	01/11/00	04-06ft						
C06B1C01	01/11/00	02-04ft						
C07B1C01	01/11/00	02-04ft						
C09C1C01	01/11/00	04-06ft						
C10C1C01	01/11/00	04-06ft						
C18D1C01	12/13/99	06-08ft						
C19C1C01	12/13/99	04-06ft						
C20C1C01	12/14/99	04-06ft						
C21D1C01	12/14/99	06-08ft						
C22C1C01	02/15/00	04-06ft						
C23B1C01	02/15/00	02-04ft						
C24C1C01	02/15/00	04-06ft						
C25E1C01	02/24/00	08-10ft						
C26C1C01	02/15/00	04-06ft						
C27B1C01	02/15/00	02-04ft						
C28B1C01	02/15/00	02-04ft						
C29C1C01	02/15/00	04-06ft						
C30C1C01	02/24/00	04-06ft						
C31B1C01	02/16/00	02-04ft						
C32E1C01	02/15/00	08-10ft						
C33F1C01	02/24/00	10-12ft						
C34G1C01	02/24/00	12-14ft						
C35C1C01	02/15/00	04-06ft						
C36B1C01	02/16/00	02-04ft						
C37E1C01	02/15/00	08-10ft						
C38E1C01	02/24/00	08-10ft						
C38E1C01dup	02/24/00	08-10ft						
C39F1C01	02/24/00	10-12ft						
C40E1C01	02/15/00	08-10ft						
C41C1C01	02/16/00	04-06ft						
C42C1C01	02/15/00	04-06ft						
C43C1C01	02/15/00	04-06ft						
C44E1C01	02/24/00	08-10ft						
C45C1C01	02/24/00	04-06ft						
C46C1C01	02/24/00	04-06ft						
C47C1C01	02/17/00	04-06ft						
C48B1C01	02/16/00	02-04ft						
C49B1C01	02/16/00	02-04ft						
C50C1C01	02/16/00	04-06ft						
C51B1C01	02/16/00	02-04ft						
C52B1C01	02/16/00	02-04ft						
C53B1C01	02/16/00	02-04ft						
C55C1C01	02/16/00	04-06ft						
C56C1C01	02/16/00	04-06ft						
C57B1C01	02/16/00	02-04ft						

APPENDIX E  
 TABLE E-9  
 TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
 Subsurface Soil Analytical Summary - Area C  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
C58B1C01	02/16/00	02-04ft						
C58B1C01dup	02/16/00	02-04ft						
C59B1C01	02/16/00	02-04ft						
C64B1C01	02/11/00	02-04ft						
C65E1C01	02/11/00	06-10ft						
C66C1C01	02/11/00	04-06ft						
C67C1C01	02/11/00	04-06ft						
C68C1C01	02/11/00	04-06ft						
C69B1C01	02/11/00	02-04ft						
C70C1C01	02/11/00	04-06ft						
C71B1C01	02/11/00	02-04ft						
C72B1C01	02/11/00	02-04ft						
C73B1C01	02/11/00	02-04ft						
C74B1C01	02/11/00	02-04ft						
C75E1C01	02/10/00	08-10ft						
C76F1C01	02/10/00	10-12ft						
C76F1C01dup	02/10/00	10-12ft						
C77E1C01	02/10/00	10-12ft						
C78D1C01	02/09/00	08-10ft						
C79E1C01	02/10/00	06-08ft						
C80F1C01	02/10/00	08-10ft						
C81E1C01	02/10/00	10-12ft						
C82E1C01	02/10/00	08-10ft						

- Notes:**  
 All results in milligrams per kilogram (mg/kg)  
 U - Compound not detected above method reporting limit presented  
 D - Estimated concentration above instrument detection limit but below contract-required detection limit  
 E - Estimated concentration due to interference  
 M - Duplicate injection precision not met.  
 N - Spiked sample recovery not within control limits  
 S - Reported value determined by Method of Standard Additions (MSA)  
 W - Post-digestion spike for Furnace AA analysis is out of control limits while sample absorbency is <50% of spike absorbency.  
 \* - Duplicate analysis not within control limits  
 + - Correlation coefficient for the MSA is less than 0.995  
 - Sample not analyzed



APPENDIX E  
TABLE E-10  
TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
Subsurface Soil Analytical Summary - Area D  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	TPH	Ammonia	Cyanide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Lead
Locations Within 100 ft. of Shore														
D92B(CO1)	01/28/00	02-04ft	1,100 U	11.1	0.51 U								9,830	
D93C(CO1)	01/28/00	04-06ft	1,100 U	8.8	0.37 B								10,900	
D94C(CO1)	01/28/00	04-06ft	1,900 U	6	0.24 B								1,600	
Locations Greater Than 100 ft. of Shore														
D01C(CO1)	11/17/99	04-06ft	470 J	11.1	0.19 B*								12,800	
D02C(CO1)	11/17/99	04-06ft	2,600 J	8.8	7.1 *								15,000	
D03C(CO1)	11/17/99	04-06ft	20,000 J	6	0.035 U*								13,700	
D04C(CO1)	11/17/99	04-06ft	92 J	10.5	0.073 B*								10,400	
D05C(CO1)	11/17/99	04-06ft	6,900 J	7.3	0.042 B*								11,900	
D06C(CO1)	11/17/99	04-06ft	340 J	17.4	10.7 *								12,200	
D07C(CO1)	11/17/99	04-06ft	6,900 J	16.2	0.11 B*								14,900	
D08C(CO1)	11/17/99	04-06ft	1,800 J	18.2	1.3 *								15,900	
D08E(CO1)	11/17/99	08-10ft	1,000 J	10.4	0.31 *								15,600	
D09C(CO1)	11/17/99	04-06ft	10,000 J	27.8	0.094 B*								15,600	
D09E(CO1)	11/17/99	08-10ft	3,300 J	20.6	0.21 B*								15,000	
D10E(CO1)	11/17/99	08-10ft	2,600 J	83.9	0.053 B*								14,500	
D11C(CO1)	11/18/99	04-06ft	140 U	6.7	0.33 B								16,200	
D12C(CO1)	11/18/99	04-06ft	1,600 J	24.8	0.49								16,200	
D13E(CO1)	11/18/99	08-10ft	1,200 J	17	0.12 B								15,000	
D14C(CO1)	11/18/99	04-06ft	690 J	19.1	1.2								12,300	
D15C(CO1)	11/18/99	04-06ft	4,300 J	1.3	0.059 B								19,200	
D16C(CO1)	11/29/99	04-06ft	170 J	20	U								17,800	
D17C(CO1)	11/29/99	04-06ft	660	20	U								12,400	
D18C(CO1)	11/29/99	04-06ft	6,900	49	0.052 B								14,100	
D19C(CO1)	11/30/99	04-06ft	3,700	340	1.2								6,060	
D20C(CO1)	11/30/99	02-04ft	15,000	20	U								21,400	
D21B(CO1)	11/30/99	02-04ft	4,000	37	0.032 U								14,300	
D22C(CO1)	11/30/99	04-06ft	150 U	20	U								14,200	
D23C(CO1)	11/30/99	04-06ft	140 U	20	0.13 B								14,000	
D24C(CO1)	11/30/99	04-06ft	2,600	30	0.03 U								7,630	
D25C(CO1)	12/01/99	04-06ft	1,300	20	0.22 B								9,850	
D26C(CO1)	12/01/99	04-06ft	5,600 J	20	0.037 B								4,320	
D27C(CO1)	11/30/99	04-06ft	15,000	20	U								20,500	
D28C(CO1)	12/01/99	04-06ft	460	20	0.051 U								15,900	
D29C(CO1)	12/01/99	04-06ft	140 U	20	U								11,000	
D30C(CO1)	12/01/99	04-06ft	150 U	25	0.082 B								14,100	
D31C(CO1)	12/01/99	04-06ft	140 U	20	0.15 B								14,000	
D32C(CO1)	12/01/99	04-06ft	140 U	20	0.07 B								13,700	
D33C(CO1)	12/02/99	04-06ft	150 U	20	0.082 B								21,400	
D34C(CO1)	12/02/99	04-06ft	140 U	25	0.072 B								16,600	
D35C(CO1)	12/02/99	04-06ft	140 U	20	U								16,400	
D36C(CO1)	12/02/99	04-06ft	230	20	U								15,600	
D37E(CO1)	12/02/99	08-10ft	140 U	20	0.091 B								15,600	
D38D(CO1)	12/03/99	06-08ft	150 U	20	0.092 B								13,800	

APPENDIX E  
 TABLE E-10  
 TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
 Subsurface Soil Analytical Summary - Area D  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	TPH	Ammonia	Cyanide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Lead
D39E1C01	12/03/99	08-10ft	150	U	0.18 B								18,900	
D40E1C01	12/03/99	04-06ft	150	U	0.038 B								15,600	
D41C1C01	12/03/99	08-10ft	1,200	U	0.15 B								17,200	
D42C1C01	12/03/99	04-06ft	3,600	U	0.037 U								17,100	
D43C1C01	12/03/99	04-06ft	1,900	U	0.13 B								16,100	
D44C1C01	12/03/99	04-06ft	25,000	U	0.2 B								16,200	
D45C1C01	12/06/99	04-06ft	5,900	U	0.3 B								16,600	
D46D1C01	12/06/99	04-06ft	410	U	0.13 B								14,400	
D47C1C01	12/06/99	06-08ft	160	U	0.034 U								18,900	
D48D1C01	12/06/99	04-06ft	140	U	0.11 B								19,200	
D49C1C01	12/06/99	06-08ft	3,300	U	0.76								9,880	
D50E1C01	12/06/99	04-06ft	140	U	1.6								24,200	
D51C1C01	12/07/99	08-10ft	160	U	0.39 B								6,860	
D52C1C01	12/07/99	04-06ft	140	U	1.2								15,100	
D53C1C01	12/07/99	04-06ft	1,500	U	9.2								13,300	
D54C1C01	12/07/99	04-06ft	20,000	U	7.7								14,000	
D55E1C01	12/07/99	04-06ft	150	U	1.2								10,100	
D56D1C01	12/08/99	08-10ft	150	U	0.23 B								23,200	
D56C1C01-A	12/08/99	06-08ft	89,000	U	0.33 B								14,900	
D56B1C01-B	6/20/00	04-06ft	140	U										
D56A1C01-C	6/20/00	02-04ft	150	U										
D56C1C01-D	6/20/00	02-04ft	300	U										
D57H1C01	6/20/00	04-06ft	1,900	U										
D58D1C01	12/08/99	02-04ft	150	U	0.6								13,400	
D58C1C01	12/08/99	06-08ft	150	U	0.05 U								15,000	
D59C1C01	12/08/99	04-06ft	150	U	0.04 U								17,400	
D60B1C01	12/08/99	02-04ft	160	U	0.63								16,900	
D61D1C01	12/09/99	06-08ft	2,100	U	4.8								13,900	
D62E1C01	12/09/99	08-10ft	35,000	U	9.7								2,990	
D62C1C01-A	6/20/00	04-06ft	840	U										
D62C1C01-B	6/20/00	04-06ft	3,700	U										
D62C1C01-C	6/20/00	04-06ft	2,600	U										
D63D1C01	12/09/99	06-08ft	21,000	U	1.8								16,600	
D64C1C01	12/11/99	04-06ft	150	U	1.0								13,000	
D63C1C01	12/11/99	04-06ft	150	U	0.38 B								12,800	
D66B1C01	12/22/99	02-04ft	150	U	0.51								12,100	
D67C1C01	12/22/99	04-06ft	150	U	0.34 B								12,500	
D68C1C01	12/22/99	04-06ft	150	U	0.14 B								6,170	
D69C1C01	12/23/99	04-06ft	140	U	1.9 B								11,500	
D70B1C01	12/23/99	02-04ft	170	U	0.17 B								8,370	
D71D1C01	12/23/99	06-08ft	160	U	0.13 B								9,350	
D71D1C01dup	12/23/99	06-08ft	150	U	0.2 B								9,710	
D72B1C01	01/26/00	02-04ft	970	U	0.61 B								14,500	
D73B1C01	02/01/00	02-04ft	1,000	U	1.2								12,700	
D74C1C01	01/26/00	04-06ft	990	U	0.39 B								17,000	
D74C1C01dup	01/26/00	04-06ft	1,000	U	0.35 B								17,000	

APPENDIX E  
 TABLE E-10  
 TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
 Subsurface Soil Analytical Summary - Area D  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	TPH	Ammonia	Cyanide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Lead
D75C1C01	01/28/00	04-06ft	990	U	0.43	B							10,900	
D76B1C01	01/26/00	02-04ft	2,200	U	1.4								20,800	
D77B1C01	01/26/00	02-04ft	1,500	U	34.4								14,100	
D78B1C01	01/26/00	02-04ft	1,200	U	25.4								13,700	
D79B1C01	01/26/00	02-04ft	1,100	U	0.94								10,600	
D80B1C01	01/26/00	02-04ft	1,100	U	0.33	B							13,300	
D81B1C01	01/19/00	02-04ft	230	U	0.59	B							13,000	
D82C1C01	01/28/00	04-06ft	90	U	0.087	B							17,300	
D84C1C01	01/25/00	04-06ft	1,000	U	1.4								11,300	
D85C1C01	01/25/00	04-06ft	1,000	U	1.3								15,300	
D86B1C01	02/02/00	02-04ft	1,700	U	261								6,470	
D87C1C01	01/25/00	04-06ft	9,300	U	79.2								16,200	
D88B1C01	01/25/00	02-04ft	1,200	U	7.0								14,700	
D89B1C01	01/28/00	02-04ft	1,000	U	0.18	B							16,700	
D90B1C01	01/28/00	02-04ft	1,100	U	2.7								13,300	
D91B1C01	01/28/00	02-04ft	1,100	U	0.92	B							10,800	
D95C1C01	03/07/00	04-06ft	4,700	U	1.7								18,800	

- Notes:
- All results in milligrams per kilogram (mg/kg)
  - U - Compound not detected above method reporting limit presented
  - B - Estimated concentration above instrument detection limit but below contract-required detection limit
  - E - Estimated concentration due to interference.
  - M - Duplicate injection precision not met.
  - N - Spiked sample recovery not within control limits
  - S - Reported value determined by Method of Standard Additions (MSA).
  - W - Post-digestion spike for Furnace AA analysis is out of control limits while sample absorbency is <50% of spike absorbency.
  - \* - Duplicate analysis not within control limits
  - + - Correlation coefficient for the MSA is less than 0.995.
  - Sample not analyzed

APPENDIX E  
 TABLE E-10  
 TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
 Subsurface Soil Analytical Summary - Area D  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
<b>Locations Within 100 ft. of Shore</b>								
D92B1C01	01/28/00	02-04ft						
D93C1C01	01/28/00	04-06ft						
D94C1C01	01/28/00	04-06ft						
<b>Locations Greater Than 100 ft. of Shore</b>								
D01C1C01	11/17/99	04-06ft						
D02C1C01	11/17/99	04-06ft						
D03C1C01	11/17/99	04-06ft						
D04C1C01	11/17/99	04-06ft						
D05C1C01	11/17/99	04-06ft						
D06C1C01	11/17/99	04-06ft						
D07C1C01	11/17/99	04-06ft						
D08C1C01	11/17/99	04-06ft						
D08E1C01	11/17/99	03-10ft						
D09C1C01	11/17/99	04-06ft						
D09E1C01	11/17/99	08-10ft						
D10E1C01	11/17/99	08-10ft						
D11C1C01	11/18/99	04-06ft						
D12C1C01	11/18/99	04-06ft						
D13E1C01	11/18/99	08-10ft						
D14C1C01	11/18/99	04-06ft						
D15C1C01	11/18/99	04-06ft						
D16C1C01	11/29/99	04-06ft						
D17C1C01	11/29/99	04-06ft						
D18C1C01	11/29/99	04-06ft						
D19C1C01	11/30/99	04-06ft						
D20C1C01	11/30/99	04-06ft						
D21B1C01	11/30/99	02-04ft						
D22C1C01	11/30/99	04-06ft						
D23C1C01	11/30/99	04-06ft						
D24C1C01	11/30/99	04-06ft						
D25C1C01	12/01/99	04-06ft						
D26C1C01	12/01/99	04-06ft						
D27C1C01	11/30/99	04-06ft						
D28C1C01	12/01/99	04-06ft						
D29C1C01	12/01/99	04-06ft						
D30C1C01	12/01/99	04-06ft						
D31C1C01	12/01/99	04-06ft						
D32C1C01	12/01/99	04-06ft						
D33C1C01	12/02/99	04-06ft						
D34C1C01	12/02/99	04-06ft						
D35C1C01	12/02/99	04-06ft						
D36C1C01	12/02/99	04-06ft						
D37E1C01	12/02/99	08-10ft						
D38D1C01	12/03/99	06-08ft						

TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
Subsurface Soil Analytical Summary - Area D  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
D39E1C01	12/03/99	08-10ft						
D40E1C01	12/03/99	04-08ft						
D40E1C01	12/03/99	08-10ft						
D41C1C01	12/03/99	04-06ft						
D42C1C01	12/03/99	04-06ft						
D43C1C01	12/03/99	04-06ft						
D44C1C01	12/06/99	04-06ft						
D45C1C01	12/06/99	04-06ft						
D46D1C01	12/06/99	06-08ft						
D47C1C01	12/06/99	04-06ft						
D48D1C01	12/06/99	06-08ft						
D49C1C01	12/06/99	04-06ft						
D50E1C01	12/07/99	08-10ft						
D51C1C01	12/07/99	04-06ft						
D52C1C01	12/07/99	04-06ft						
D53C1C01	12/07/99	04-06ft						
D54C1C01	12/07/99	04-06ft						
D55E1C01	12/08/99	08-10ft						
D56D1C01	12/08/99	06-08ft						
D56E1C01-A	6/20/00	04-06ft						
D56E1C01-B	6/20/00	02-04ft						
D56E1C01-C	6/20/00	02-04ft						
D56E1C01-D	6/20/00	04-06ft						
D57B1C01	12/08/99	02-04ft						
D58D1C01	12/08/99	06-08ft						
D59C1C01	12/08/99	04-06ft						
D60B1C01	12/08/99	02-04ft						
D61D1C01	12/08/99	06-08ft						
D62E1C01	12/09/99	08-10ft						
D62C1C01-A	6/20/00	04-06ft						
D62C1C01-B	6/20/00	04-06ft						
D62C1C01-C	6/20/00	04-06ft						
D63D1C01	12/09/99	06-08ft						
D64C1C01	12/11/99	04-06ft						
D65C1C01	12/11/99	04-06ft						
D66B1C01	12/22/99	02-04ft						
D67C1C01	12/22/99	04-06ft						
D68C1C01	12/23/99	04-06ft						
D69C1C01	12/23/99	04-06ft						
D70B1C01	12/23/99	02-04ft						
D71D1C01	12/23/99	06-08ft						
D71D1C01dup	12/23/99	06-08ft						
D72B1C01	01/26/00	02-04ft						
D73B1C01	02/01/00	02-04ft						
D74C1C01	01/26/00	04-06ft						
D74C1C01dup	01/26/00	04-06ft						

APPENDIX E  
TABLE E-10  
TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
Subsurface Soil Analytical Summary - Area D  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
D75C1C01	01/28/00	04-06ft						
D76B1C01	07/26/00	02-04ft						
D77B1C01	01/26/00	02-04ft						
D78B1C01	01/26/00	02-04ft						
D79B1C01	01/26/00	02-04ft						
D80B1C01	01/26/00	02-04ft						
D81B1C01	01/19/00	02-04ft						
D82C1C01	01/28/00	04-06ft						
D84C1C01	01/25/00	04-06ft						
D85C1C01	01/25/00	04-06ft						
D86B1C01	02/02/00	02-04ft						
D87C1C01	01/25/00	04-06ft						
D88B1C01	01/25/00	02-04ft						
D89B1C01	01/28/00	02-04ft						
D90B1C01	01/28/00	02-04ft						
D91B1C01	01/28/00	02-04ft						
D95C1C01	03/07/00	04-06ft						

**Notes:**

All results in milligrams per kilogram (mg/kg)

- U - Compound not detected above method reporting limit presented.
- B - Estimated concentration above instrument detection limit but below contract-required detection limit
- E - Estimated concentration due to interference.
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits
- S - Reported value determined by Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA analysis is out of control limits while sample absorbency is <50% of spike absorbency.
- \* - Duplicate analysis not within control limits
- + - Correlation coefficient for the MSA is less than 0.995.
- Sample not analyzed

APPENDIX E  
 TABLE E-11  
 TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
 Subsurface Soil Analytical Summary - Area E  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	TPH	Ammonia	Cyanide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Lead
Locations Greater Than 100 ft of Shore														
E01C1C01	12/11/99	04-06ft	130	U	0.72								13,600	
E02C1C01	12/13/99	04-06ft	150	U	1.3								15,000	
E03B1C01	12/13/99	02-04ft	160	U	3.3								19,800	
E04D1C01	12/13/99	06-08ft	140	U	10								17,000	
E08B1C01	12/14/99	02-04ft	160	U	2.5								30,900	
E09B1C01	12/14/99	02-04ft	150	U	4.5								6,890	
E10H1C01	12/14/99	03-04ft	170	U	1.0								14,600	
E11B1C01	12/14/99	02-04ft	170	U	0.31	B							17,200	
E12B1C01	12/14/99	02-04ft	180	U	0.31	B							23,600	
E13D1C01	12/14/99	02-04ft	140	U	0.14	B							21,700	
E14B1C01	12/15/99	02-04ft	140	U	1.1								23,700	
E15C1C01	12/15/99	04-06ft	9,700	8.50	197								90,900	
E16B1C01	12/15/99	02-04ft	170	U	5.1								18,800	
E17H1C01	12/15/99	02-04ft	170	U	0.2	B							16,400	
E18B1C01	12/15/99	02-04ft	160	U	0.37								14,000	
E19D1C01	12/15/99	02-04ft	170	U	0.066	B							16,800	
E20H1C01	12/15/99	02-04ft	170	U	1.8								14,300	
E21B1C01	12/16/99	02-04ft	170	U	3.4								13,900	
E22D1C01	12/16/99	02-04ft	140	U	0.95								18,900	
E23C1C01	12/16/99	04-06ft	150	U	0.037	U							9,410	
E23C1C01(dup)	12/16/99	04-06ft	140	U	0.035	U							5,340	
E24B1C01	12/16/99	02-04ft	150	U	1.3								12,000	
E25B1C01	12/17/99	02-04ft	150	U	0.06	B							12,800	
E26B1C01	12/17/99	02-04ft	150	U	0.66								16,800	
E27H1C01	12/20/99	02-04ft	150	U	0.34	U							12,800	
E28C1C01	12/20/99	04-06ft	150	U	0.23	B							15,100	
E29C1C01	12/17/99	04-06ft	960	U	0.29	B							10,700	
E30C1C01	12/17/99	04-06ft	150	U	4.7								10,900	
E30C1C01(dup)	12/17/99	04-06ft	150	U	5.6								8,320	
E31B1C01	12/16/99	02-04ft	150	U	1.3								13,300	
E32C1C01	12/16/99	04-06ft	150	U	4.2								14,600	
E32C1C01(dup)	12/16/99	04-06ft	150	U	0.4								15,700	
E33B1C01	12/20/99	02-04ft	270	U	27.3								15,300	
E34C1C01	12/20/99	04-06ft	3,600	0.13	B								13,000	
E35C1C01	12/20/99	04-06ft	1,600	0.55									11,400	
E36C1C01	12/21/99	04-06ft	2,800	0.85									14,300	
E37B1C01	01/26/00	02-04ft	1,100	U	4.9								17,400	
E38C1C01	12/21/99	04-06ft	4,600	1.5									7,310	
E39C1C01	01/26/00	04-06ft	6,100	3.3									17,300	
E40B1C01	12/21/99	02-04ft	160	J	29.7								5,530	
E41B1C01	12/21/99	02-04ft	7,500	J	0.37	B							11,900	
E42B1C01	12/21/99	02-04ft	1,100	J	3.2								9,080	
E43C1C01	12/21/99	04-06ft	2,500	J	1.9								15,300	
E43C1C01(dup)	12/21/99	04-06ft	2,800	J	1.3								8,070	
E44B1C01	12/22/99	02-04ft	180	U	8.9								12,900	

APPENDIX E  
TABLE E-11  
TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
Subsurface Soil Analytical Summary - Area E  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	TPH	Ammonia	Cyanide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Lead
E45B1C01	12/22/99	02-04ft	150	U	0.041								21,000	
E46B1C01	12/22/99	02-04ft	140	U	0.044								11,300	
E48B1C01	02/01/00	02-04ft	1,100	U	0.059								15,700	
E52C1C01	12/22/99	04-06ft	160	U	0.053								6,120	
E53C1C01	12/22/99	04-06ft	150	U	0.38								10,700	
E55C1C01dup	12/22/99	04-06ft	150	U	0.21								9,770	
E57B1C01	02/01/00	02-04ft	1,000	U	0.42								14,600	
E57B1C01	02/02/00	02-04ft	1,000	U	0.91								14,500	
E58C1C01	01/04/00	04-06ft	390	U	0.66								7,680	
E59C1C01	01/04/00	04-06ft	170	U	0.42								3,440	
E61B1C01	01/20/00	02-04ft	1,000	U	0.41								10,100	
E62B1C01	01/20/00	02-04ft	1,000	U	6.2								14,600	
E64B1C01	02/02/00	02-04ft	1,000	U	1.7								17,200	
E65B1C01	01/21/00	02-04ft	1,100	U	7.3								19,100	
E66B1C01	01/21/00	02-04ft	1,300	U	1								8,850	
E67B1C01	01/21/00	02-04ft	1,100	U	1								13,600	
E68B1C01	01/20/00	02-04ft	990	U	1.1								11,900	
E69B1C01	01/20/00	02-04ft	1,000	U	0.17								13,700	
E70B1C01	01/20/00	02-04ft	1,000	U	0.23								13,100	
E71B1C01	01/20/00	02-04ft	1,000	U	0.18								5,880	
E72B1C01	01/20/00	02-04ft	970	U	0.32								15,800	
E73B1C01	01/20/00	02-04ft	990	U	0.1								12,000	
E74B1C01	01/21/00	02-04ft	1,200	U	41.9								61,100	
E75B1C01	01/19/00	02-04ft	190	U	0.58								13,200	
E76B1C01	01/19/00	02-04ft	210	U	5.1								5,870	
E77B1C01	01/25/00	02-04ft	990	U	3.8								15,600	
E78B1C01	01/28/00	02-04ft	1,100	U	0.1								14,300	
E79B1C01	01/25/00	02-04ft	1,700	U	6.9								13,100	
E80B1C01	01/19/00	02-04ft	160	U	7.8								7,380	
E81B1C01	01/21/00	02-04ft	1,100	U	21.3								19,900	
E82C1C01	01/24/00	04-06ft	1,100	U	0.98								13,400	
E83B1C01	01/21/00	02-04ft	1,100	U	0.2								12,100	
E84B1C01	01/19/00	02-04ft	1,600	U	2.3								14,200	
E85B1C01	01/19/00	02-04ft	3,100	U	9.2								17,600	
E86B1C01	01/19/00	02-04ft	7,200	U	7.6								50,300	
E87B1C01	01/19/00	02-04ft	390	U	1.1								63,400	
E88B1C01	01/19/00	02-04ft	22,000	U	8.5								12,100	
E89B1C01	01/24/00	02-04ft	1,100	U	0.43								6,600	
E90B1C01	01/25/00	02-04ft	1,300	U	18.1								12,000	
E91B1C01	01/25/00	02-04ft	28,000	U	7.8								21,000	
E92C1C01	03/07/00	04-06ft	1,100	U	0.067								14,300	
E93C1C01	03/07/00	04-06ft	1,000	U	0.23								13,800	
E93C1C01dup	03/07/00	04-06ft	1,000	U	0.24								15,500	



**TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS**  
**Subsurface Soil Analytical Summary - Area E**  
**Providence Gas Company**  
**642 Allen Avenue, Providence, Rhode Island**

Sample No.	Collection Date	Sample Depth	TPH	Ammonia	Cyanide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Lead

- NOTES:**
- All results in milligrams per kilogram (mg/kg)
  - U - Compound not detected above method reporting limit presented
  - B - Estimated concentration above instrument detection limit but below contract-required detection limit
  - E - Estimated concentration due to interference.
  - M - Duplicate injection precision not met
  - N - Spiked sample recovery not within control limits
  - S - Reported value determined by Method of Standard Additions (MSA)
  - W - Post-digestion spike for Furnace AA analysis is out of control limits while sample absorbency is <50% of spike absorbency
  - \* - Duplicate analysis not within control limits
  - + - Correlation coefficient for the MSA is less than 0.995
  - Sample not analyzed

APPENDIX E  
 TABLE E-11  
 TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
 Subsurface Soil Analytical Summary - Area E  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
Locations Greater Than 100 ft of Shore								
E01C1C01	12/11/99	04-06ft						
E02C1C01	12/13/99	04-06ft						
E03B1C01	12/13/99	02-04ft						
E04D1C01	12/13/99	06-08ft						
E08B1C01	12/14/99	02-04ft						
E09B1C01	12/14/99	02-04ft						
E10B1C01	12/14/99	02-04ft						
E11B1C01	12/14/99	02-04ft						
E12B1C01	12/14/99	02-04ft						
E13B1C01	12/14/99	02-04ft						
E14B1C01	12/15/99	02-04ft						
E15C1C01	12/15/99	04-06ft						
E16B1C01	12/15/99	02-04ft						
E17B1C01	12/15/99	02-04ft						
E18B1C01	12/15/99	02-04ft						
E19B1C01	12/15/99	02-04ft						
E20B1C01	12/15/99	02-04ft						
E21B1C01	12/16/99	02-04ft						
E22B1C01	12/16/99	02-04ft						
E23C1C01	12/16/99	04-06ft						
E23C1C01dep	12/16/99	04-06ft						
E24B1C01	12/16/99	02-04ft						
E25B1C01	12/17/99	02-04ft						
E26B1C01	12/17/99	02-04ft						
E27B1C01	12/20/99	02-04ft						
E28C1C01	12/20/99	04-06ft						
E29C1C01	12/17/99	04-06ft						
E30C1C01	12/17/99	04-06ft						
E30C1C01dep	12/17/99	04-06ft						
E31B1C01	12/16/99	02-04ft						
E32C1C01	12/16/99	04-06ft						
E32C1C01dep	12/16/99	04-06ft						
E33B1C01	12/20/99	02-04ft						
E34C1C01	12/20/99	04-06ft						
E35C1C01	12/20/99	04-06ft						
E36C1C01	12/21/99	04-06ft						
E37B1C01	01/26/00	02-04ft						
E38C1C01	12/21/99	04-06ft						
E39C1C01	01/26/00	04-06ft						
E40B1C01	12/21/99	02-04ft						
E41B1C01	12/21/99	02-04ft						
E42B1C01	12/21/99	02-04ft						
E43C1C01	12/21/99	04-06ft						
E43C1C01dep	12/21/99	04-06ft						
E44B1C01	12/22/99	02-04ft						

**TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS**  
**Subsurface Soil Analytical Summary - Area E**  
**Providence Gas Company**  
**642 Allens Avenue, Providence, Rhode Island**

Sample No.	Collection Date	Sample Depth	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
E45B1C01	12/22/99	02-04ft						
E46B1C01	12/22/99	02-04ft						
E48B1C01	02/01/00	02-04ft						
E52C1C01	12/22/99	04-06ft						
E53C1C01	12/22/99	04-06ft						
E57C1C01dup	12/22/99	04-06ft						
E54B1C01	02/01/00	02-04ft						
E55B1C01	02/01/00	02-04ft						
E57B1C01	02/02/00	02-04ft						
E58C1C01	01/04/00	04-06ft						
E59C1C01	01/04/00	04-06ft						
E61B1C01	01/20/00	02-04ft						
E62B1C01	01/20/00	02-04ft						
E64B1C01	02/02/00	02-04ft						
E65B1C01	01/21/00	02-04ft						
E66B1C01	01/21/00	02-04ft						
E67B1C01	01/21/00	02-04ft						
E68B1C01	01/20/00	02-04ft						
E69B1C01	01/20/00	02-04ft						
E70B1C01	01/20/00	02-04ft						
E71B1C01	01/20/00	02-04ft						
E72B1C01	01/20/00	02-04ft						
E73B1C01	01/20/00	02-04ft						
E74B1C01	01/21/00	02-04ft						
E75B1C01	01/19/00	02-04ft						
E76B1C01	01/19/00	02-04ft						
E77B1C01	01/25/00	02-04ft						
E78B1C01	01/28/00	02-04ft						
E79B1C01	01/25/00	02-04ft						
E80B1C01	01/19/00	02-04ft						
E81B1C01	01/21/00	02-04ft						
E82C1C01	01/24/00	04-06ft						
E83B1C01	01/21/00	02-04ft						
E84B1C01	01/19/00	02-04ft						
E85B1C01	01/19/00	02-04ft						
E86B1C01	01/19/00	02-04ft						
E87B1C01	01/19/00	02-04ft						
E88B1C01	01/19/00	02-04ft						
E89B1C01	01/24/00	02-04ft						
E90B1C01	01/25/00	02-04ft						
E91B1C01	01/25/00	02-04ft						
E92C1C01	03/07/00	04-06ft						
E93C1C01	03/07/00	04-06ft						
E93C1C01dup	03/07/00	04-06ft						

APPENDIX E  
 TABLE E-11  
 TOTAL, PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
 Subsurface Soil Analytical Summary - Area E  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Mercury	Nickel	Selenium	Silver	Thallium	Zinc

**Notes:**

- All results in milligrams per kilogram (mg/kg)
- U - Compound not detected above method reporting limit presented.
- B - Estimated concentration above instrument detection limit but below contract-required detection limit
- E - Estimated concentration due to interference.
- MI - Duplicate injection precision not met
- N - Spiked sample recovery not within control limits
- S - Reported value determined by Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA analysis is out of control limits while sample absorbency is <30% of spike absorbency.
- \* - Duplicate analysis not within control limits
- + - Correlation coefficient for the MSA is less than 0.995.
- Sample not analyzed

APPENDIX E  
TABLE E-12  
TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
Subsurface Soil Analytical Summary - Area F  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	TPH	Ammonia	Cyanide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Lead
Locations Greater Than 100 Ft. of Shore														
F01C(C01)	01/04/00	04-06ft	150	U	0.95								8,000	
F02C(C01)	01/04/00	04-06ft	150	U	0.53	B							12,900	
F03C(C01)	01/04/00	04-06ft	210		6								11,600	
F04E(C01)	01/04/00	08-10ft	10,000		0.079	B							12,300	
F05D(C01)	01/04/00	06-08ft	150	U	0.16	B							15,100	
F06E(C01)	01/04/00	08-10ft	160		0.57	B							13,100	
F07E(C01)	01/05/00	08-10ft	3,600		2.6								11,200	
F08E(C01)	01/05/00	08-10ft	150	U	1.9								9,440	
F09D(C01)	01/05/00	06-08ft	200		0.24	B							8,210	
F10E(C01)	01/05/00	08-10ft	160	U	0.042	U							9,900	
F11D(C01)	01/06/00	06-08ft	150	U	0.028	U							11,400	
F12E(C01)	01/06/00	08-10ft	160	U	0.32	B							6,360	
F13E(C01)	01/06/00	08-10ft	160	U	0.098	B							3,810	
F14D(C01)	01/06/00	06-08ft	1,000		0.4	B							10,400	
F15D(C01)	01/06/00	06-08ft	150	U	0.47	B							6,350	
F16D(C01)	01/06/00	06-08ft	170	U	0.15	B							4,410	
F17C(C01)	01/06/00	04-06ft	150	U	0.84	B							18,700	
F18C(C01)	01/06/00	04-06ft	160	U	0.23	B							5,620	
F19C(C01)	01/07/00	04-06ft	160	U	0.18	B							4,280	
F20C(C01)	01/07/00	04-06ft	160	U	0.14	B							1,960	
F21C(C01)	01/07/00	04-06ft	150	U	0.15	B							3,990	
F22E(C01)	01/07/00	08-10ft	160	U	0.088	B							5,130	
F23C(C01)	01/07/00	04-06ft	750	U	1.1	B							12,700	
F24E(C01)dup	01/07/00	08-10ft	180	U	0.1	B							6,110	
F25E(C01)	01/07/00	08-10ft	140	U	0.16	B							4,830	
F26E(C01)	02/02/00	08-10ft	1,100	U	0.56	B							11,400	
F27E(C01)	02/02/00	08-10ft	1,100	U	0.061	B							11,600	
F28E(C01)	02/02/00	08-10ft	1,100	U	0.15	B							14,300	
F29E(C01)	01/10/00	08-10ft	140	U	0.033	U							19,500	
F30D(C01)	01/07/00	06-08ft	160	U	0.053	U							4,390	
F31C(C01)	01/10/00	04-06ft	150	U	2.4								14,300	
F32E(C01)	02/02/00	08-10ft	1,000	U	0.11	B							16,400	
F33C(C01)	01/07/00	04-06ft	160	U	0.17	B							13,100	
F34C(C01)	01/11/00	04-06ft	150	U	0.055	U							4,850	
F34C(C01)dup	01/11/00	04-06ft	150	U	0.046	U							11,400	
F35C(C01)	01/11/00	04-06ft	230	U	0.38	B							8,460	
F36C(C01)	01/11/00	04-06ft	1,500	U	1.4								5,230	
F37C(C01)	01/12/00	04-06ft	150	U	1.6								38,900	
F38C(C01)	01/12/00	04-06ft	3,700		4.6								12,000	
F39C(C01)	01/12/00	04-06ft	150	U	0.041	U							18,600	
F40B(C01)	01/12/00	02-04ft	150	U	0.034	U							10,800	
F41C(C01)	01/12/00	04-06ft	17,000		4.1								9,450	
F42C(C01)	01/12/00	04-06ft	1,800		1.7								8,620	
F42C(C01)	01/12/00	04-06ft	1,800		1.7								12,200	

APPENDIX E  
 TABLE E-12  
 TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
 Subsurface Soil Analytical Summary - Area F  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	TPH	Ammonia	Cyanide	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Lead
F43C1C01	01/12/00	04-06ft	550		0.053 U								11,500	
F44C1C01	01/12/00	04-06ft	2,800		0.11 B								11,500	
F45C1C01	01/13/00	04-06ft	20,000 J		4								8,810	
F46C1C01	01/12/00	04-06ft	2,800		3.4								19,900	
F46C1C01dup	01/13/00	04-06ft	2,800		2								15,200	
F47C1C01	01/13/00	04-06ft	230		0.82 B								10,800	
F48C1C01	01/13/00	04-06ft	1,100 J		1.3								107,000	
F49C1C01	01/13/00	04-06ft	370 J		3.3								4,420	
F50D1C01	01/13/00	06-08ft	370 J		2.9								8,160	
F51D1C01	01/11/00	06-08ft	25,000		6.6								8,120	
F52B1C01	01/19/00	02-04ft	19,000 J		1.3								6,090	
F53B1C01	01/19/00	02-04ft	1,200		0.12 B								6,700	
F54C1C01	01/21/00	04-06ft	1,600 U		15.9								22,500	
F55B1C01	01/19/00	02-04ft	1,100		3.6								25,000	
F56C1C01	01/19/00	04-06ft	680		3.9								177,000	
F56C1C01dup	01/19/00	04-06ft	540		3.8								57,200	
F57B1C01	01/19/00	02-04ft	240		0.3 B								19,000	
F58C1C01	03/07/00	04-06ft	1,000 U		0.55 B								15,800	
F59C1C01	03/07/00	04-06ft	1,100 U		1.2								7,230	
F60C1C01	03/07/00	04-06ft	1,100 U		0.099 B								10,900	

- Notes:**  
 All results in milligrams per kilogram (mg/kg)  
 U - Compound not detected above method reporting limit presented.  
 B - Estimated concentration above instrument detection limit but below contract-required detection limit  
 E - Estimated concentration due to interference  
 M - Duplicate injection precision not met.  
 N - Spiked sample recovery not within control limits  
 S - Reported value determined by Method of Standard Additions (MSA).  
 W - Post-digestion spike for Furnace-AA analysis is out of control limits while sample absorbency is <50% of spike absorbency.  
 \* - Duplicate analysis not within control limits  
 + - Correlation coefficient for the MSA is less than 0.995.  
 - Sample not analyzed

TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
Subsurface Soil Analytical Summary - Area F  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
Locations Greater Than 100 ft of Shore								
F01C1C01	01/04/00	04-06ft						
F02C1C01	01/04/00	04-06ft						
F03C1C01	01/04/00	04-06ft						
F04E1C01	01/04/00	08-10ft						
F05D1C01	01/04/00	06-08ft						
F06E1C01	01/04/00	08-10ft						
F07E1C01	01/05/00	08-10ft						
F08E1C01	01/05/00	08-10ft						
F09D1C01	01/05/00	06-08ft						
F10E1C01	01/05/00	08-10ft						
F11D1C01	01/06/00	06-08ft						
F12E1C01	01/06/00	08-10ft						
F13E1C01	01/06/00	08-10ft						
F14D1C01	01/06/00	06-08ft						
F15D1C01	01/06/00	06-08ft						
F16D1C01	01/06/00	06-08ft						
F17C1C01	01/06/00	04-06ft						
F18C1C01	01/06/00	04-06ft						
F19C1C01	01/07/00	04-06ft						
F20C1C01	01/07/00	04-06ft						
F21C1C01	01/07/00	04-06ft						
F22E1C01	01/07/00	08-10ft						
F23C1C01	01/07/00	04-06ft						
F24E1C01	01/07/00	08-10ft						
F24E1C01dup	01/07/00	08-10ft						
F25E1C01	01/07/00	08-10ft						
F26E1C01	02/02/00	08-10ft						
F27E1C01	02/02/00	08-10ft						
F28E1C01	02/02/00	08-10ft						
F29E1C01	01/10/00	08-10ft						
F30D1C01	01/07/00	06-08ft						
F31C1C01	01/10/00	04-06ft						
F32E1C01	02/02/00	08-10ft						
F33C1C01	01/07/00	04-06ft						
F34C1C01	01/11/00	04-06ft						
F34C1C01dup	01/11/00	04-06ft						
F35C1C01	01/11/00	04-06ft						
F36C1C01	01/11/00	04-06ft						
F37C1C01	01/12/00	04-06ft						
F38C1C01	01/12/00	04-06ft						
F39C1C01	01/12/00	04-06ft						
F40B1C01	01/12/00	02-04ft						
F41C1C01	01/12/00	04-06ft						
F42C1C01	01/12/00	04-06ft						

APPENDIX E  
TABLE E-12  
TOTAL PETROLEUM HYDROCARBONS (TPH), AMMONIA, CYANIDE, AND METALS  
Subsurface Soil Analytical Summary - Area F  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
F43CIC01	01/12/00	04-06ft						
F44CIC01	01/12/00	04-06ft						
F45CIC01	01/13/00	04-06ft						
F46CIC01	01/12/00	04-06ft						
F46CIC01dup	01/12/00	04-06ft						
F47CIC01	01/13/00	04-06ft						
F48CIC01	01/13/00	04-06ft						
F49CIC01	01/13/00	04-06ft						
F30DIC01	01/13/00	06-08ft						
F31DIC01	01/11/00	06-08ft						
F32BIC01	04/19/00	02-04ft						
F33BIC01	01/19/00	02-04ft						
F34CIC01	01/21/00	04-06ft						
F35BIC01	01/19/00	02-04ft						
F36CIC01	01/19/00	04-06ft						
F36CIC01dup	01/19/00	04-06ft						
F37BIC01	01/19/00	02-04ft						
F38CIC01	03/07/00	04-06ft						
F39CIC01	03/07/00	04-06ft						
F60CIC01	03/07/00	04-06ft						

- Notes:**  
 All results in milligrams per kilogram (mg/kg)  
 U - Compound not detected above method reporting limit presented  
 B - Estimated concentrations above instrument detection limit but below contract-required detection limit  
 E - Estimated concentration due to interference.  
 M - Duplicate injection precision not met.  
 N - Spiked sample recovery not within control limits  
 S - Reported value determined by Method of Standard Additions (MSA)  
 W - Post-digestion spike for Furnace AA analysis is out of control limits, while sample absorbency is <50% of spike absorbency.  
 \* - Duplicate analysis not within control limits  
 + - Correlation coefficient for the MSA is less than 0.995.  
 - Sample not analyzed



VOLATILE ORGANIC COMPOUNDS (VOCs)  
Subsurface Soil Analytical Summary - Area A  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	1,1,1,2-Tetrachloro-ethane	1,1,1,2-Trichloro-ethane	1,1,1,2-Trichloro-ethane	1,1,1,2-Trichloro-ethane	1,1-Dichloro-ethene	1,1-Dichloro-Propane	1,2,3-Trichloro-benzene	1,2,3-Trichloro-propane	1,2,4-Trichloro-benzene	1,2,4-Trimethyl-benzene
Locations Within 100 Ft. of Shore														
A01C1C01	02/03/00	04-06ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A02C1C01	02/03/00	04-06ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A03E1C01	03/02/00	08-10ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A04C1C01	03/02/00	04-06ft	Yes	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
A05D1C01	03/02/00	06-08ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A06D1C01	03/03/00	06-08ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A07D1C01	03/03/00	06-08ft	Yes	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A08D1C01	03/03/00	06-08ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A09E1C01	02/04/00	08-10ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A10D1C01	02/04/00	06-08ft	Yes	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A11D1C01	02/04/00	06-08ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A12E1C01	03/03/00	08-10ft	Yes	No	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
A13E1C01	02/03/00	04-06ft	Yes	No	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U
A14C1C01	02/03/00	04-06ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A15B1C01	02/03/00	02-04ft	Yes	No	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U
A15B1C01dup	02/03/00	02-04ft	Yes	No	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
A16D1C01	02/03/00	06-08ft	Yes	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A17B1C01	02/03/00	02-04ft	Yes	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A18C1C01	02/03/00	04-06ft	Yes	No	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U
A19D1C01	02/04/00	06-08ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A22C1C01	02/03/00	04-06ft	Yes	No	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
A23C1C01	02/08/00	04-06ft	Yes	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A24D1C01	02/09/00	06-08ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A25D1C01	02/08/00	06-08ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A26D1C01	02/09/00	06-08ft	Yes	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
A27C1C01	02/08/00	04-06ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A27C1C01dup	02/08/00	04-06ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A71C1C01	02/23/00	04-06ft	Yes	No	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
A72E1C01	02/23/00	08-10ft	Yes	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
A73D1C01	02/23/00	06-08ft	Yes	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A74E1C01	02/23/00	08-10ft	Yes	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
Locations Greater Than 100 Ft. from Shore														
A28C1C01	02/08/00	04-06ft	No	No	950 U	950 U	950 U	950 U	950 U	950 U	950 U	950 U	950 U	950 U
A29D1C01	02/09/00	06-08ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
A30E1C01	02/09/00	08-10ft	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A31D1C01	02/08/00	06-08ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A32E1C01	02/09/00	08-10ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
A33C1C01	02/08/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A34C1C01	02/08/00	04-06ft	No	No	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
A35C1C01	02/08/00	04-06ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A36E1C01	02/08/00	08-10ft	No	No	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U
A37C1C01	02/17/00	04-06ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
A38E1C01	02/09/00	08-10ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A40F1C01	02/08/00	10-12ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A42E1C01	02/09/00	08-10ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A43C1C01	02/17/00	04-06ft	No	No	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
A44C1C01	02/17/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A44C1C01dup	02/17/00	04-06ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A45E1C01	02/09/00	08-10ft	No	No	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
A46E1C01	02/10/00	08-10ft	No	No	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U
A47G1C01	02/09/00	12-14ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
A48C1C01	02/09/00	04-06ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A49G1C01	02/17/00	12-14ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U

APPENDIX E  
TABLE E-13

VOLATILE ORGANIC COMPOUNDS (VOCs)  
Subsurface Soil Analytical Summary - Area A  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	1,1,1,2-Tetrachloro-ethane	1,1,1,2-Trichloro-ethane	1,1,2-Trichloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-propene	1,2,3-Trichloro-benzene	1,2,3-Trichloro-propane	1,2,4-Trichloro-benzene	1,2,4-Trichloro-benzene
A50E1C01	02/23/00	08-10ft	No	No	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U
A51D1C01	02/23/00	06-08ft	No	No	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U
A52D1C01	02/29/00	06-08ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A53D1C01	02/09/00	06-08ft	No	No	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U
A54E1C01	02/10/00	08-10ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A55D1C01	02/09/00	06-08ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A55D1C01dup	02/09/00	06-08ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A56E1C01	02/09/00	04-06ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A57E1C01	02/23/00	08-10ft	No	No	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U
A58E1C01	02/29/00	04-06ft	No	No	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
A59C1C01	02/29/00	04-06ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A60C1C01	02/29/00	04-06ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
A61C1C01	02/29/00	04-06ft	No	No	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U
A62D1C01	02/25/00	06-08ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A63B1C01	02/29/00	02-04ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A64C1C01	02/29/00	04-06ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
A64C1C01dup	02/29/00	04-06ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A65C1C01	02/29/00	04-06ft	No	No	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
A66D1C01	02/29/00	04-06ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A67C1C01	02/25/00	04-06ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A68E1C01 [1]	02/25/00	08-10ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A69D1C01	02/25/00	06-08ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A70D1C01	02/25/00	06-08ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U

Notes:  
All results in micrograms per kilogram (µg/kg)  
U - Compound not detected above method reporting limit presented  
J - Estimated concentration  
E - Estimated concentration; calibration range exceeded  
D - Analyte concentration obtained from dilution  
R - Data rejected due to QC violation  
- - - Sample not tested.  
[1] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.



APPENDIX E  
 TABLE E-13  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area A  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	1,2-Dibromo- chloro- propane	1,2-Dibromo- ethane	1,2-Dichloro- benzene	1,2-Dichloro- ethane	1,2-Dichloro- propane	1,3,5- Trimethyl- benzene	1,3-Dichloro- benzene	1,3-Dichloro- propane	1,4-Dichloro- benzene	1,1-Dichloro- propane	2-Butanone
A50E1C01	02/23/00	08-10ft	No	No	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U
A37D1C01	02/23/00	06-08ft	No	No	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U
A52D1C01	02/09/00	06-08ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A53D1C01	02/09/00	06-08ft	No	No	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U
A54B1C01	02/10/00	08-10ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A55D1C01	02/09/00	06-08ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A55D1C01dup	02/09/00	06-08ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A56C1C01	02/09/00	04-06ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A57E1C01	02/23/00	08-10ft	No	No	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U
A58C1C01	02/29/00	04-06ft	No	No	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
A59C1C01	02/29/00	04-06ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A60C1C01	02/29/00	04-06ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
A61C1C01	02/29/00	04-06ft	No	No	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U
A62D1C01	02/25/00	06-08ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A63B1C01	02/29/00	02-04ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A64C1C01	02/29/00	04-06ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
A64C1C01dup	02/29/00	04-06ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A65C1C01	02/29/00	04-06ft	No	No	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
A66D1C01	02/29/00	06-08ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A67C1C01	02/25/00	04-06ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A68E1C01 [1]	02/25/00	08-10ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A69D1C01	02/25/00	06-08ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A70D1C01	02/25/00	06-08ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U

Notes:  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded  
 D - Analyte concentration obtained from dilution  
 R - Data rejected due to QC violation  
 \*\* - Sample not tested.  
 [1] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent

VOLATILE ORGANIC COMPOUNDS (VOCs)  
Subsurface Soil Analytical Summary - Area A  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	2-Chloroethyl vinyl ether	2-Chloro-toluene	2-Hexanone	4-Chloro-toluene	4-Isopropyl-toluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-benzene	Bromo-chloro-methane	Bromo-dichloro-methane
Locations Within 100 Ft of Shore															
A01C1C01	02/03/00	04-06ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A02C1C01	02/03/00	04-06ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A03E1C01	03/02/00	08-10ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A04C1C01	03/02/00	04-06ft	Yes	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
A05D1C01	03/02/00	06-08ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A06D1C01	03/03/00	06-08ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A07D1C01	03/03/00	06-08ft	Yes	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A08D1C01	03/03/00	06-08ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A09E1C01	02/04/00	08-10ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A10D1C01	02/04/00	06-08ft	Yes	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A11D1C01	02/04/00	06-08ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A12E1C01	03/03/00	08-10ft	Yes	No	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U
A13E1C01	03/03/00	08-10ft	Yes	No	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U
A14C1C01	02/03/00	04-06ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A15B1C01	02/03/00	02-04ft	Yes	No	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U
A15B1C01dup	02/03/00	02-04ft	Yes	No	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
A16D1C01	02/03/00	06-08ft	Yes	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A17B1C01	02/03/00	02-04ft	Yes	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A18C1C01	02/03/00	02-04ft	Yes	No	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U
A19D1C01	02/04/00	06-08ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A20C1C01	02/08/00	04-06ft	Yes	No	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
A21C1C01	02/08/00	04-06ft	Yes	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A24D1C01	02/09/00	06-08ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A25D1C01	02/08/00	06-08ft	Yes	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A26D1C01	02/08/00	06-08ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A27C1C01	02/08/00	04-06ft	Yes	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
A27C1C01dup	02/08/00	04-06ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A71C1C01	02/25/00	04-06ft	Yes	No	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
A72E1C01	02/25/00	08-10ft	Yes	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
A73D1C01	02/25/00	06-08ft	Yes	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A74E1C01	02/25/00	08-10ft	Yes	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
Locations Greater Than 100 Ft from Shore															
A28C1C01	02/08/00	04-06ft	No	No	950 U	950 U	950 U	950 U	950 U	950 U	950 U	950 U	950 U	950 U	950 U
A29D1C01	02/09/00	06-08ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
A30E1C01	02/09/00	08-10ft	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A31D1C01	02/08/00	06-08ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A32E1C01	02/09/00	08-10ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
A33C1C01	02/08/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A34C1C01	02/08/00	04-06ft	No	No	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
A35C1C01	02/08/00	04-06ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A36E1C01	02/08/00	08-10ft	No	No	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U
A37C1C01	02/17/00	04-06ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
A38E1C01	02/09/00	08-10ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A40F1C01	02/08/00	10-12ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A42E1C01	02/09/00	08-10ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A43C1C01	02/17/00	04-06ft	No	No	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
A44C1C01	02/17/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A44C1C01dup	02/17/00	04-06ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A45E1C01	02/09/00	08-10ft	No	No	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
A46E1C01	02/10/00	08-10ft	No	No	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U
A47G1C01	02/09/00	12-14ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
A48C1C01	02/09/00	04-06ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A49G1C01	02/17/00	12-14ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U

APPENDIX E  
TABLE E-13

VOLATILE ORGANIC COMPOUNDS (VOCs)  
Subsurface Soil Analytical Summary - Area A  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	2-Chloroethyl vinyl ether	1-Chloro-toluene	2-Trifluoro-toluene	4-Chloro-toluene	4-Isopropyl-toluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-benzene	Bromo-chloro-methane	Bromo-dichloro-methane
A50E1C01	02/23/00	08-10ft	No	No	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U
A31D1C01	02/23/00	06-08ft	No	No	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U
A52D1C01	02/09/00	06-08ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A53D1C01	02/09/00	06-08ft	No	No	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U
A54E1C01	02/10/00	08-10ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A55D1C01	02/09/00	06-08ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A55D1C01dup	02/09/00	06-08ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A56C1C01	02/09/00	04-06ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A57E1C01	02/23/00	08-10ft	No	No	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U
A58C1C01	02/29/00	04-06ft	No	No	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
A59C1C01	02/29/00	04-06ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A60C1C01	02/29/00	04-06ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
A61C1C01	02/29/00	04-06ft	No	No	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U
A62D1C01	02/29/00	06-08ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A63B1C01	02/29/00	02-04ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A64C1C01	02/29/00	04-06ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
A65C1C01	02/29/00	04-06ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A66D1C01	02/29/00	04-06ft	No	No	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
A67C1C01	02/29/00	04-06ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A68E1C01(1)	02/25/00	08-10ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A69D1C01	02/25/00	06-08ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A70D1C01	02/25/00	06-08ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U

Notes:

- All results in micrograms per kilogram (µg/kg)
- U - Compound not detected above method reporting limit presented
- J - Estimated concentration
- E - Estimated concentration; calibration range exceeded.
- D - Analyte concentration obtained from dilution.
- R - Data rejected due to QC violation
- \*\* - Sample not tested.
- (1) - Multiple analysis of sample conducted; result presented is the highest detected or or lowest quantitation limit for constituent



APPENDIX E  
TABLE E-13

VOLATILE ORGANIC COMPOUNDS (VOCs)  
Subsurface Soil Analytical Summary - Area A  
Providence Gas Company  
647 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	Bromoform	Bromo-methane	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethylene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane
A30E1C01	02/23/00	08-100	No	No	750 U	750 U	750 U	750 U	750 U	750 U	150 U	750 U	750 U	750 U	750 U
A31D1C01	02/23/00	06-080	No	No	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U
A32D1C01	02/09/00	06-080	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	240 U	1,000 U	1,000 U	1,000 U	1,000 U
A33D1C01	02/09/00	06-080	No	No	920 U	920 U	920 U	920 U	920 U	920 U	220 U	920 U	920 U	920 U	920 U
A34E1C01	02/10/00	08-100	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	250 U	1,200 U	1,200 U	1,200 U	1,200 U
A35D1C01	02/09/00	06-080	No	No	980 U	980 U	980 U	980 U	980 U	980 U	210 U	980 U	980 U	980 U	980 U
A35D1C01.dup	02/09/00	06-080	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	240 U	1,100 U	1,100 U	1,100 U	1,100 U
A36C1C01	02/09/00	04-060	No	No	980 U	980 U	980 U	980 U	980 U	980 U	250 U	980 U	980 U	980 U	980 U
A37E1C01	02/23/00	08-100	No	No	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U
A38C1C01	02/29/00	04-060	No	No	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
A39C1C01	02/29/00	04-060	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A60C1C01	02/29/00	04-060	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
A61C1C01	02/29/00	04-060	No	No	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U
A62D1C01	02/23/00	06-080	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A63B1C01	02/29/00	02-040	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A64C1C01	02/29/00	04-060	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
A64C1C01.dup	02/29/00	04-060	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A65C1C01	02/29/00	04-060	No	No	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
A66D1C01	02/29/00	06-080	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A67C1C01	02/23/00	04-060	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A68E1C01 [1]	02/23/00	08-100	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A69D1C01	02/23/00	06-080	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A70D1C01	02/23/00	06-080	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U

Notes:

- All results in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ )
- U - Compound not detected above method reporting limit presented
- J - Estimated concentration
- E - Estimated concentration; calibration range exceeded
- D - Analyte concentration obtained from dilution
- R - Data rejected due to QC violation
- \*- Sample not tested
- [1] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent



**VOLATILE ORGANIC COMPOUNDS (VOCs)**  
Subsurface Soil Analytical Summary - Area A  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	Dibromo- methane	Dichloro- difluoro- methane	Ethylbenzene	Hexa-chloro- butadiene	Iodomethane	Isopropyl- benzene	Methyl tert- butyl ether	Methylene Chloride	n- Butylbenzene	n-Propyl- benzene	Naphthalene
Locations Within 100 Ft of Shore															
A01C1C01	02/03/00	04-06ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A02C1C01	02/03/00	04-06ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A03B1C01	01/02/00	08-10ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A04C1C01	03/02/00	04-06ft	Yes	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A05D1C01	03/02/00	06-08ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A06D1C01	03/03/00	06-08ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A07D1C01	03/03/00	06-08ft	Yes	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A08D1C01	03/03/00	06-08ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A09E1C01	02/04/00	08-10ft	Yes	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A10D1C01	02/04/00	06-08ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A11D1C01	02/04/00	06-08ft	Yes	No	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
A12E1C01	03/03/00	08-10ft	Yes	No	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U
A13E1C01	03/03/00	08-10ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A14C1C01	02/03/00	04-06ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A15B1C01	02/03/00	02-04ft	Yes	No	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U
A15B1C01dup	02/03/00	02-04ft	Yes	No	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
A16D1C01	02/03/00	06-08ft	Yes	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A17B1C01	02/03/00	02-04ft	Yes	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A18C1C01	02/03/00	04-06ft	Yes	No	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U
A19D1C01	02/04/00	06-08ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A23C1C01	02/08/00	04-06ft	Yes	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A24D1C01	02/08/00	06-08ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A25D1C01	02/08/00	06-08ft	Yes	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A26D1C01	02/08/00	06-08ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A27C1C01	02/08/00	04-06ft	Yes	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
A27C1C01dup	02/08/00	04-06ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A71C1C01	02/25/00	04-06ft	Yes	No	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
A72B1C01	02/25/00	08-10ft	Yes	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
A73D1C01	02/25/00	06-08ft	Yes	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A74E1C01	02/25/00	08-10ft	Yes	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
Locations Greater Than 100 Ft from Shore															
A28C1C01	02/08/00	04-06ft	No	No	950 U	950 U	950 U	950 U	950 U	950 U	950 U	950 U	950 U	950 U	950 U
A29D1C01	02/09/00	06-08ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
A30E1C01	02/09/00	08-10ft	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A31D1C01	02/08/00	06-08ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A32E1C01	02/09/00	08-10ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
A33C1C01	02/08/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A34C1C01	02/08/00	04-06ft	No	No	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
A35C1C01	02/08/00	04-06ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A36E1C01	02/08/00	08-10ft	No	No	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U
A37C1C01	02/17/00	04-06ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
A38E1C01	02/09/00	08-10ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A40F1C01	02/09/00	10-12ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A42E1C01	02/09/00	08-10ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A43C1C01	02/17/00	04-06ft	No	No	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
A44C1C01	02/17/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A44C1C01dup	02/17/00	04-06ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A45E1C01	02/09/00	08-10ft	No	No	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
A46E1C01	02/10/00	08-10ft	No	No	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U
A47G1C01	02/09/00	12-14ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
A48C1C01	02/09/00	04-06ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A49G1C01	02/17/00	12-14ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U

**APPENDIX E**  
**TABLE E-13**  
**VOLATILE ORGANIC COMPOUNDS (VOCs)**  
**Subsurface Soil Analytical Summary - Area A**  
**Providence Gas Company**  
**642 Allens Avenue, Providence, Rhode Island**

Sample No.	Collection Date	Sample Depth	Shore	Surface	Dibromo- methane	Dichloro- difluoro- methane	Ethylbenzene	Hexa-chloro- butadiene	Iodomethane	Isopropyl- benzene	Methyl tert- butyl ether	Methylene Chloride	n- Butylbenzene	n-Propyl- benzene	Naphthalene
A30E1C01	02/23/00	08-10ft	No	No	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U	750 U
A31D1C01	02/23/00	08-08ft	No	No	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U
A32D1C01	02/09/00	06-08ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A33D1C01	02/09/00	06-08ft	No	No	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U
A34E1C01	02/10/00	08-10ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A35D1C01	02/09/00	06-08ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A35D1C01 dup	02/09/00	06-08ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A36E1C01	02/09/00	04-06ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A37E1C01	02/23/00	08-10ft	No	No	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U
A38C1C01	02/29/00	04-06ft	No	No	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
A39C1C01	02/29/00	04-06ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A60C1C01	02/29/00	04-06ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
A61C1C01	02/29/00	04-06ft	No	No	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U
A62D1C01	02/25/00	06-08ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A63D1C01	02/29/00	02-04ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A64C1C01	02/29/00	04-06ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
A64C1C01 dup	02/29/00	04-06ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A65C1C01	02/29/00	04-06ft	No	No	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
A66D1C01	02/29/00	06-08ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A67C1C01	02/25/00	04-06ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A68E1C01 [1]	02/25/00	08-10ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A69D1C01	02/25/00	06-08ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A70D1C01	02/25/00	06-08ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U

**Notes:**

- All results in micrograms per kilogram (µg/kg)
- U - Compound not detected above method reporting limit presented
- J - Estimated concentration
- E - Estimated concentration; calibration range exceeded.
- D - Analyte concentration obtained from dilution.
- R - Data rejected due to QC violation
- \*\* - Sample not tested.
- [1] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.

**VOLATILE ORGANIC COMPOUNDS (VOCs)**  
**Subsurface Soil Analytical Summary - Area A**  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	sec-Butyl- benzene	Styrene	tert-Butyl- benzene	Tetrachloro- ethene	Toluene	trans-1,2- Dichloro- ethene	trans-1,3- Dichloro- propane	Trichloro- ethene	Trichloro- fluorop- methane	Vinyl acetate	Vinyl Chloride	Xylene (Total)
Locations Within 100 Ft of Shore																
A01C1C01	02/03/00	04-06ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A02C1C01	02/03/00	04-06ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A03E1C01	03/02/00	08-10ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A04C1C01	03/02/00	04-06ft	Yes	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
A05D1C01	03/02/00	06-08ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A06D1C01	03/03/00	06-08ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A07D1C01	03/03/00	06-08ft	Yes	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A08D1C01	07/03/00	06-08ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A09E1C01	02/04/00	08-10ft	Yes	No	1,800 U	1,200 U	310	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A10D1C01	02/04/00	06-08ft	Yes	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A11D1C01	02/04/00	06-08ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A12E1C01	03/03/00	08-10ft	Yes	No	2,600 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
A13E1C01	03/03/00	08-10ft	Yes	No	820 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U
A14C1C01	02/03/00	04-06ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A15B1C01	02/03/00	02-04ft	Yes	No	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U
A15B1C01.dup	02/03/00	02-04ft	Yes	No	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
A16D1C01	02/03/00	06-08ft	Yes	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A17B1C01	02/03/00	02-04ft	Yes	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A18C1C01	02/03/00	04-06ft	Yes	No	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U
A19D1C01	02/04/00	06-08ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A22C1C01	02/08/00	04-06ft	Yes	No	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
A23C1C01	02/08/00	04-06ft	Yes	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A24D1C01	02/09/00	06-08ft	Yes	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A35D1C01	02/08/00	06-08ft	Yes	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A26D1C01	02/08/00	06-08ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A27C1C01	02/08/00	04-06ft	Yes	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
A27C1C01.dup	02/08/00	04-06ft	Yes	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A71C1C01	02/25/00	04-06ft	Yes	No	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
A72E1C01	02/25/00	08-10ft	Yes	No	940 U	1,500 U	1,500 U	1,500 U	370 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
A73D1C01	02/25/00	06-08ft	Yes	No	1,100 U	1,100 U	1,100 U	1,100 U	280 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A74E1C01	02/25/00	08-10ft	Yes	No	260 U	1,100 U	1,100 U	1,100 U	300 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
Locations Greater Than 100 Ft from Shore																
A28C1C01	02/08/00	04-06ft	No	No	950 U	950 U	950 U	950 U	950 U	950 U	950 U	950 U	950 U	950 U	950 U	950 U
A29D1C01	02/09/00	06-08ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
A30E1C01	02/09/00	08-10ft	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
A31D1C01	02/08/00	06-08ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A32E1C01	02/09/00	08-10ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
A33C1C01	02/08/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A34C1C01	02/08/00	04-06ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A35C1C01	02/08/00	04-06ft	No	No	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U
A36E1C01	02/08/00	08-10ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A37C1C01	02/17/00	04-06ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
A38E1C01	02/09/00	08-10ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A40F1C01	02/08/00	10-12ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
A42E1C01	02/09/00	08-10ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A43C1C01	02/17/00	04-06ft	No	No	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
A44C1C01	02/17/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
A44C1C01.dup	02/17/00	04-06ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
A45E1C01	02/09/00	08-10ft	No	No	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
A46E1C01	02/10/00	08-10ft	No	No	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U
A47G1C01	02/09/00	12-14ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
A48C1C01	02/09/00	04-06ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
A49G1C01	02/17/00	12-14ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U

APPENDIX E  
 TABLE E-13  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area A  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	sec-Butyl- benzene	Styrene	tert-Butyl- benzene	Tetrachloro- ethene	Toluene	trans-1,2- Dichloro- ethene	trans-1,3- Dichloro- propene	Trichloro- ethene	Trichloro- fluoro- methane	Vinyl acetate	Vinyl Chloride	Xylene (Total)
A50E1C01	02/23/00	08-10ft	No	No	750	750	750	750	750	750	750	750	750	750	750	750
A31D1C01	02/23/00	06-08ft	No	No	900	900	900	900	900	900	900	900	900	900	900	900
A32D1C01	02/09/00	06-08ft	No	No	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
A33D1C01	02/09/00	06-08ft	No	No	920	920	920	920	920	920	920	920	920	920	920	920
A34E1C00	02/10/00	08-10ft	No	No	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
A35D1C01	02/09/00	06-08ft	No	No	980	980	980	980	980	980	980	980	980	980	980	980
A35D1C01dup	02/09/00	06-08ft	No	No	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
A36C1C01	02/09/00	04-06ft	No	No	980	980	980	980	980	980	980	980	980	980	980	980
A37E1C01	02/23/00	08-10ft	No	No	920	920	920	920	920	920	920	920	920	920	920	920
A38C1C01	02/29/00	04-06ft	No	No	800	800	800	800	800	800	800	800	800	800	800	800
A39C1C01	02/29/00	04-06ft	No	No	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
A60C1C01	02/29/00	04-06ft	No	No	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300
A61C1C01	02/29/00	04-06ft	No	No	770	770	770	770	770	770	770	770	770	770	770	770
A62D1C01	02/25/00	06-08ft	No	No	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
A63B1C01	02/29/00	02-04ft	No	No	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
A64C1C01	02/29/00	04-06ft	No	No	960	960	960	960	960	960	960	960	960	960	960	960
A64C1C01dup	02/29/00	04-06ft	No	No	980	980	980	980	980	980	980	980	980	980	980	980
A65C1C01	02/29/00	04-06ft	No	No	800	800	800	800	800	800	800	800	800	800	800	800
A66D1C01	02/29/00	06-08ft	No	No	630	630	630	630	630	630	630	630	630	630	630	630
A67C1C01	02/25/00	04-06ft	No	No	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
A68E1C01 [1]	02/25/00	08-10ft	No	No	1,100	1,100	1,100	1,100	430	1,100	1,100	1,100	1,100	1,100	1,100	4,900
A69D1C01	02/25/00	06-08ft	No	No	980	980	980	980	980	980	980	980	980	980	980	980
A70D1C01	02/25/00	06-08ft	No	No	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above  
 method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range  
 exceeded  
 D - Analyte concentration obtained from dilution.  
 R - Data rejected due to QC violation  
 -- Sample not tested.  
 [1] - Multiple analysis of sample conducted;  
 result presented is the highest detected or  
 or lowest quantitation limit for constituent.

**VOLATILE ORGANIC COMPOUNDS (VOCs)**  
**Subsurface Soil Analytical Summary - Area B**  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethane	1,1-Dichloropropane	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromopropane	1,2-Dibromoethane
<b>Locations Within 100 Feet of Shore</b>													
B07C1C01	01/27/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B08C1C01	01/27/00	04-06ft	990 U	990 U	1,000 U	990 U	990 U	990 U	990 U	990 U	990 U	1,000 U	1,000 U
B09B1C01	01/27/00	02-04ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B17C1C01	01/31/00	04-06ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B18C1C01	01/27/00	04-06ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B26C1C01	01/31/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B21C1C01	01/31/00	04-06ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B22C1C01	01/31/00	04-06ft	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
B23C1C01	01/31/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B24D1C01	02/01/00	06-08ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B25C1C01	02/01/00	04-06ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B26C1C01	02/03/00	04-06ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
<b>Locations Greater Than 100 Feet from Shore</b>													
B01C1C01	01/27/00	04-06ft	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U
B02B1C01	01/27/00	02-04ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B03B1C01	01/27/00	02-04ft	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	1,300 U	940 U	940 U
B04B1C01	01/27/00	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B05B1C01	01/27/00	02-04ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B06B1C01	01/27/00	02-04ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B10B1C01	01/27/00	02-04ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B11B1C01	01/27/00	02-04ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
B12C1C01	01/27/00	04-06ft	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U
B13B1C01	01/27/00	02-04ft	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U
B14B1C01	01/27/00	02-04ft	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
B19B1C01	01/27/00	02-04ft	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
B27C1C01	02/23/00	04-06ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B28E1C01	02/23/00	08-10ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B29C1C01	03/02/00	12-14ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B30E1C01	03/01/00	08-10ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B31C1C01	03/01/00	04-06ft	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
B32D1C01	03/01/00	06-08ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B33E1C01	03/01/00	08-10ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B34E1C01	02/23/00	08-10ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B35E1C01	02/22/00	08-10ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
B36C1C01	02/22/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B37E1C01	03/02/00	08-10ft	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U
B38C1C01	02/22/00	04-06ft	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U
B38C1C01dup	02/22/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B39D1C01	03/01/00	06-08ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B40C1C01	03/01/00	04-06ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B41C1C01	03/01/00	04-06ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
B42C1C01	02/22/00	04-06ft	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U
B43C1C01	02/22/00	04-06ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
B44E1C01	02/22/00	08-10ft	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
B45C1C01	02/22/00	04-06ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B46C1C01	02/18/00	04-06ft	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
B47C1C01	02/18/00	04-06ft	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
B48B1C01	02/22/00	02-04ft	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U

APPENDIX E  
 TABLE E-14  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area B  
 Providence Gas Company  
 642 Alliens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	1,1,1,1-Tetrachloroethane	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloropropane	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane
B49B1C01	02/18/00	08-10ft	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
B56C1C01	03/07/00	04-06ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B51E1C01	02/18/00	08-10ft	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
B52D1C01	02/18/00	06-08ft	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
B53C1C01	02/18/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B54B1C01	02/18/00	02-04ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B55C1C01	03/02/00	04-06ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B56C1C01	03/02/00	04-06ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B57C1C01	03/02/00	04-06ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B58B1C01	03/02/00	02-04ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B59C1C01	02/18/00	04-06ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B60C1C01	02/18/00	04-06ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B60C1C01dup	02/18/00	04-06ft	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U
B61C1C01	02/16/00	04-06ft	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
B62B1C01	02/16/00	02-04ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B64B1C01	02/18/00	02-04ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B65B1C01	02/18/00	02-04ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B66C1C01	02/18/00	04-06ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded  
 D - Analyte concentration obtained from dilution  
 R - Data rejected due to QC violation  
 \*\* - Sample not tested  
 [1] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.

**VOLATILE ORGANIC COMPOUNDS (VOCs)**  
**Subsurface Soil Analytical Summary - Area B**  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	1,3-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3,5-Trimethyl-benzene	1,3-Dichloro-benzene	1,2-Dichloro-propane	1,4-Dichloro-benzene	1,2-Dichloro-propane	2-Butanone	1-Chloroethyl vinyl ether	2-Chloro-toluene	1-Methanone	4-Chloro-toluene
Locations Within 100 Feet of Shore															
B07C1C01	01/27/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B08C1C01	01/27/00	04-06ft	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U
B09B1C01	01/27/00	02-04ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B17C1C01	01/31/00	04-06ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B18C1C01	01/27/00	04-06ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B23C1C01	01/31/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B21C1C01	01/31/00	04-06ft	1,100 U	1,100 U	1,100 U	350 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B22C1C01	01/31/00	04-06ft	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
B23C1C01	01/31/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B34D1C01	02/01/00	06-08ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B35C1C01	02/01/00	04-06ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B26C1C01	02/03/00	04-06ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
Locations Greater Than 100 Feet from Shore															
B01C1C01	01/27/00	04-06ft	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U
B02B1C01	01/27/00	02-04ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B03B1C01	01/27/00	02-04ft	940 U	940 U	940 U	290 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
B04B1C01	01/27/00	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B05B1C01	01/27/00	02-04ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B06B1C01	01/27/00	02-04ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B10B1C01	01/27/00	02-04ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B11B1C01	01/27/00	02-04ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
B12C1C01	01/27/00	04-06ft	2,100 U	2,100 U	2,100 U	500 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U
B13B1C01 [1]	01/27/00	02-04ft	2,200 U	2,200 U	2,200 U	8,800 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U
B14B1C01	01/27/00	02-04ft	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
B19B1C01	01/27/00	02-04ft	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
B27C1C01	02/23/00	04-06ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B28E1C01	02/23/00	08-10ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B29G1C01	03/03/00	12-14ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B30E1C01	03/07/00	08-10ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B31C1C01	03/07/00	04-06ft	960 U	960 U	960 U	1,200 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
B32D1C01	03/07/00	06-08ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
D33E1C01	03/07/00	08-10ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
D34E1C01	02/23/00	08-10ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B35B1C01	02/23/00	08-10ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
B16C1C01	02/23/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B37E1C01	03/03/00	08-10ft	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U
B38C1C01	02/23/00	04-06ft	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U
B39D1C01	03/07/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B40C1C01	03/07/00	04-06ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B41C1C01	03/07/00	04-06ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
B42C1C01	02/23/00	04-06ft	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U
B43C1C01	02/23/00	04-06ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
B44E1C01	02/23/00	08-10ft	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
B45C1C01	02/23/00	04-06ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B46C1C01	02/18/00	04-06ft	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
B47C1C01	02/18/00	04-06ft	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
B48B1C01	02/23/00	02-04ft	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U

APPENDIX E  
TABLE E-14

VOLATILE ORGANIC COMPOUNDS (VOCs)  
Subsurface Soil Analytical Summary - Area B  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	1,2-Dichloro- benzene	1,1-Dichloro- ethane	1,2-Dichloro- propane	1,3,5- Trimethyl- benzene	1,3-Dichloro- propane	1,4-Dichloro- benzene	2,2-Dichloro- propane	2-Butanone	2-Chloroethyl- vinyl ether	2-Chloro- toluene	2-Hexanone	4-Chloro- toluene
B49E1C01	02/18/00	08-10N	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
B59C1C01	04-06N	04-06N	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B51E1C01	02/18/00	08-10N	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
B52D1C01	02/18/00	06-08N	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
B53C1C01	02/18/00	04-06N	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B54B1C01	02/18/00	02-04N	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B55C1C01	03/02/00	04-06N	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B56C1C01	03/02/00	04-06N	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B57C1C01	03/02/00	04-06N	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B58B1C01	03/02/00	02-04N	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B59C1C01	02/18/00	04-06N	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B60C1C01	02/18/00	04-06N	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B60C1C01.dup	02/18/00	04-06N	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B61C1C01	02/16/00	04-06N	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U
B62B1C01	02/16/00	02-04N	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
B64B1C01	02/18/00	02-04N	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B65B1C01	02/18/00	02-04N	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B66C1C01	02/18/00	04-06N	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U

Notes:

All results in micrograms per kilogram (µg/kg)

U - Compound not detected above  
method reporting limit presented

J - Estimated concentration

E - Estimated concentration; calibration range  
exceeded.

D - Analyte concentration obtained from dilution.

R - Data rejected due to QC violation.

\*\* - Sample not tested

[1] - Multiple analysis of sample conducted;  
result presented is the highest detected or  
or lowest quantitation limit for constituent.



APPENDIX E  
 TABLE E-14  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area B  
 Providence Gas Company  
 642, Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	4-Propyltoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-benzene	Bromo-chloro-methane	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloro-ethane
Locations Within 100 Feet of Shore															
B07C1C01	01/27/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B08C1C01	01/27/00	04-06ft	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U
B09B1C01	01/27/00	02-04ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B17C1C01	01/27/00	04-06ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B18C1C01	01/27/00	04-06ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B20C1C01	01/27/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B21C1C01	01/27/00	04-06ft	440 U	1,100 U	1,100 U	1,100 U	1,100 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B22C1C01	01/27/00	04-06ft	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
B23C1C01	01/27/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B34B1C01	02/01/00	06-08ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B25C1C01	02/01/00	04-06ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B26C1C01	02/01/00	04-06ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
Locations Greater Than 100 Feet from Shore															
B01C1C01	01/27/00	04-06ft	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U
B02B1C01	01/27/00	02-04ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B03B1C01	01/27/00	02-04ft	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
B04B1C01	01/27/00	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B05B1C01	01/27/00	02-04ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B06B1C01	01/27/00	02-04ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B10B1C01	01/27/00	02-04ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B11B1C01	01/27/00	02-04ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
B12B1C01	01/27/00	04-06ft	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U
B13B1C01	01/27/00	02-04ft	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
B14B1C01	01/27/00	02-04ft	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
B19B1C01	01/27/00	02-04ft	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
B27C1C01	02/23/00	04-06ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B28E1C01	04-10ft	08-10ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B29G1C01	03/02/00	12-14ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B30E1C01	03/01/00	08-10ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B31C1C01	03/01/00	04-06ft	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
B32D1C01	03/01/00	06-08ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B33E1C01	03/01/00	08-10ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B34E1C01	02/23/00	08-10ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B35E1C01	02/23/00	08-10ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
B36C1C01	02/22/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B37E1C01	03/02/00	08-10ft	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U
B38C1C01	03/02/00	04-06ft	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U
B38C1C01dup	02/22/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B39D1C01	03/01/00	06-08ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B40C1C01	03/01/00	04-06ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B41C1C01	03/01/00	04-06ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
B42C1C01	02/22/00	04-06ft	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U
B43C1C01	02/22/00	04-06ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
B44E1C01	02/22/00	08-10ft	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
B45C1C01	02/22/00	04-06ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B46C1C01	02/18/00	04-06ft	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
B47C1C01	02/18/00	04-06ft	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
B48B1C01	02/22/00	02-04ft	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U

APPENDIX E  
 TABLE E-14  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area B  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	4-Propyltoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-benzene	Bromo-chloro-methane	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloro-ethane
B49E1C01	02/18/00	08-10ft	970	970	970	970	970	970	970	970	970	970	970	970	970
B50E1C01	02/18/00	04-06ft	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300
B51E1C01	02/18/00	08-10ft	980	980	980	980	980	980	980	980	980	980	980	980	980
B52D1C01	02/18/00	04-04ft	980	980	980	980	980	980	980	980	980	980	980	980	980
B53C1C01	02/18/00	04-06ft	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
B54B1C01	02/18/00	02-04ft	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
B55C1C01	03/02/00	04-06ft	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
B56C1C01	03/02/00	04-06ft	460	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300
B57C1C01	03/02/00	04-06ft	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
B58B1C01	03/02/00	02-04ft	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
B59C1C01	02/18/00	04-06ft	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
B60C1C01	02/18/00	04-06ft	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
B61C1C01	02/18/00	04-06ft	990	990	990	990	990	990	990	990	990	990	990	990	990
B62B1C01	02/16/00	02-04ft	960	960	960	960	960	960	960	960	960	960	960	960	960
B64B1C01	02/18/00	02-04ft	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
B65B1C01	02/18/00	02-04ft	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
B66C1C01	02/18/00	04-06ft	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100

Note:  
 All results in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ )  
 U - Compound not detected above method reporting limit presumed  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded.  
 D - Analyte concentration obtained from dilution.  
 R - Data rejected due to QC violation  
 \* - Sample not tested.  
 [ ] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.

APPENDIX E  
TABLE E-14  
VOLATILE ORGANIC COMPOUNDS (VOCs)  
Subsurface Soil Analytical Summary - Area 11  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Chloroform	Chloro- methane	1,1,2- Dichloro- ethane	1,1,2- Dichloro- propane	Dibromo- chloro- methane	Dibromo- methane	Dichloro- difluoro- methane	Ethylbenzene	1,1,2,2- Tetrachloro- ethane	Iodomethane	Isopropyl- benzene	Methyl teri- butyl ether	Methylene Chloride
Locations Within 100 Feet of Shore															
B07C1C01	01/27/00	04-06ft	1,000 U	1,000 U	990 U	1,000 U	1,000 U	990 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B08C1C01	01/27/00	04-06ft	990 U	990 U	1,000 U	990 U	990 U	990 U	1,000 U	990 U	990 U	990 U	990 U	990 U	990 U
B09B1C01	01/27/00	02-04ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B17C1C01	01/13/00	04-06ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B18C1C01	01/17/00	04-06ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B20C1C01	01/17/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B21C1C01	01/17/00	04-06ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B22C1C01	01/17/00	04-06ft	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
B23C1C01	01/17/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B24D1C01	02/01/00	06-08ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B25C1C01	02/01/00	04-06ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B26C1C01	02/01/00	04-06ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
Locations Greater Than 100 Feet from Shore															
B01C1C01	01/27/00	04-06ft	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U
B02B1C01	01/27/00	02-04ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B03B1C01	01/27/00	02-04ft	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
B04B1C01	01/27/00	02-04ft	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
B05B1C01	01/27/00	02-04ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B06B1C01	01/27/00	02-04ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B10B1C01	01/27/00	02-04ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
B11B1C01	01/27/00	02-04ft	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U
B12C1C01	01/27/00	04-06ft	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U
B13B1C01 (1)	01/27/00	02-04ft	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
B14B1C01	01/27/00	02-04ft	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
B37C1C01	02/22/00	02-04ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B38E1C01	02/23/00	08-10ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B39G1C01	03/02/00	12-14ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B39E1C01	03/01/00	08-10ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B31C1C01	03/01/00	04-06ft	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
B32E1C01	03/01/00	06-08ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B33E1C01	03/01/00	08-10ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B34E1C01	02/23/00	08-10ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B35E1C01	02/22/00	08-10ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
B36C1C01	02/22/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B37E1C01	01/22/00	08-10ft	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U
B38C1C01	02/22/00	04-06ft	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U
B38C1C01dup	02/22/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B39D1C01	03/01/00	06-08ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B40C1C01	03/01/00	04-06ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
B41C1C01	03/01/00	04-06ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
B42C1C01	03/01/00	04-06ft	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U
B43C1C01	02/22/00	04-06ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
B44C1C01	02/22/00	04-06ft	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
B45C1C01	02/22/00	08-10ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B46C1C01	02/22/00	04-06ft	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
B47C1C01	02/18/00	04-06ft	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
B48B1C01	02/22/00	01-04ft	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U

APPENDIX E  
 TABLE E-14  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area B  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Chloroform	Chloro- methane	1,1-Di- chloro- ethane	1,1,2-Di- chloro- propane	Dibromo- chloro- methane	Dibromo- methane	Dichloro- difluoro- methane	Ethylbenzene	Hexa-chloro- butadiene	1,1-Dichloro- ethane	Isopropyl- benzene	Methyl-tert- butyl ether	Methylene Chloride
B49E1C01	02/18/00	08-10L	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
B50E1C01	02/18/00	04-06R	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B51E1C01	02/18/00	08-10L	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
B52E1C01	02/18/00	06-08R	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
B53E1C01	02/18/00	04-06R	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B54E1C01	02/18/00	02-04R	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B55E1C01	02/18/00	04-06R	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B56E1C01	03/02/00	04-06R	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B57E1C01	03/02/00	04-06R	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B58E1C01	03/02/00	02-04R	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B59E1C01	02/18/00	04-06R	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B60E1C01	02/18/00	04-06R	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B61E1C01	02/18/00	04-06R	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U
B62E1C01	02/16/00	04-06R	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
B63E1C01	02/16/00	02-04R	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B64E1C01	02/18/00	02-04R	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B65E1C01	02/18/00	02-04R	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B66E1C01	02/18/00	04-06R	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above  
 method reporting limit presented  
 L - Estimated concentration; calibration range  
 exceeded.  
 D - Analyte concentration obtained from dilution.  
 R - Data rejected due to QC violation  
 \*\* - Sample not tested.  
 (1) - Multiple analysis of sample conducted;  
 result presented is the highest detected or  
 or lowest quantifiable limit for constituent.

**VOLATILE ORGANIC COMPOUNDS (VOCs)**  
**Subsurface Soil Analytical Summary - Area B**  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	g-Butylbenzene	n-Propyl benzene	Naphthalene	sec-Butyl benzene	Styrene	Tetrahydro-silene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethylene	Trichloro-methane	Vinyl acetate	Vinyl Chloride	Xylenes (Total)
Locations Within 100 Feet of Shore																
B07C1C01	01/27/00	04-06ft	1,000	1,000	710	360	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
B08C1C01	01/27/00	04-06ft	990	990	990	990	990	1,000	990	990	990	990	990	990	990	990
B09B1C01	01/27/00	02-04ft	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
B17C1C01	01/27/00	04-06ft	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
B18C1C01	01/27/00	04-06ft	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
B26C1C01	01/31/00	04-06ft	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
B31C1C01	01/31/00	04-06ft	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
B32C1C01	01/31/00	04-06ft	800	800	800	800	800	800	800	800	800	800	800	800	800	800
B23C1C01	01/31/00	04-06ft	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
B24D1C01	02/01/00	06-08ft	1,000	1,000	450	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
B35C1C01	02/01/00	04-06ft	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300
B36C1C01	02/03/00	04-06ft	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
Locations Greater Than 100 Feet from Shore																
B01C1C01	01/27/00	04-06ft	780	780	780	780	780	780	780	780	780	780	780	780	780	780
B02B1C01	01/27/00	02-04ft	1,200	1,200	2,700	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
B03B1C01	01/27/00	02-04ft	940	940	25,000	940	940	940	940	940	940	940	940	940	940	940
B04B1C01	01/27/00	02-04ft	2,900	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,400
B05B1C01	01/27/00	02-04ft	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300
B06B1C01	01/27/00	02-04ft	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300
B10B1C01	01/27/00	02-04ft	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300
B11B1C01	01/27/00	02-04ft	1,400	1,400	3,800	410	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
B12C1C01	01/27/00	04-06ft	2,100	2,100	3,400	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100
B13B1C01 (1)	01/27/00	02-04ft	5,400	5,100	500,000	1,800	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
B14B1C01	01/27/00	02-04ft	980	980	980	980	980	980	980	980	980	980	980	980	980	980
B19B1C01	01/27/00	02-04ft	980	980	980	980	980	980	980	980	980	980	980	980	980	980
B27C1C01	02/23/00	04-06ft	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
B28E1C01	02/23/00	08-10ft	1,100	1,100	3,400	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
B29G1C01	03/02/00	12-14ft	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300
B30E1C01	03/01/00	08-10ft	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
B31C1C01	03/01/00	04-06ft	960	960	180,000	960	360	240	960	960	960	960	960	960	960	960
B33D1C01	03/01/00	06-08ft	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
B33H1C01	03/01/00	08-10ft	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
B34B1C01	03/23/00	08-10ft	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
B35E1C01	02/22/00	08-10ft	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
B36C1C01	02/22/00	04-06ft	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
B37B1C01	03/02/00	08-10ft	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
B38C1C01	02/22/00	04-06ft	930	930	930	930	930	930	930	930	930	930	930	930	930	930
B39D1C01	03/01/00	06-08ft	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
B40C1C01	03/01/00	04-06ft	1,200	1,200	81,000	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
B42C1C01	03/01/00	04-06ft	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
B43C1C01	02/22/00	04-06ft	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
B44B1C01	02/22/00	04-06ft	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
B45C1C01	02/22/00	08-10ft	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
B46C1C01	02/18/00	04-06ft	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
B47C1C01	02/18/00	04-06ft	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
B48B1C01	02/22/00	02-04ft	940	940	940	940	940	940	940	940	940	940	940	940	940	940

APPENDIX E  
 TABLE E-14  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area B  
 Providence Gas Company  
 647 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	n-Butylbenzene	n-Propylbenzene	Naphthalene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrahaloethane	Chlorobenzene	trans-1,2-Dichloroethene	trans-1,3-Dichloroethene	Trichloroethene	Vinyl acetate	Vinyl Chloride	Xylenes (Total)
B49B1C01	02/18/00	08-10R	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
B50C1C01	03/07/00	04-06R	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B51B1C01	02/18/00	08-10R	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
B52D1C01	02/18/00	06-08R	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
B53C1C01	02/18/00	04-06R	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B54B1C01	02/18/00	02-04R	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B55C1C01	03/02/00	04-06R	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B56C1C01	03/02/00	04-06R	1,300 U	1,300 U	2,800 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
B57C1C01	03/02/00	04-06R	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B58B1C01	03/07/00	02-04R	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B59C1C01	02/18/00	04-06R	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B60C1C01	02/18/00	04-06R	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
B60C1C01 dup	02/18/00	04-06R	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U
B61C1C01	02/16/00	04-06R	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
B62B1C01	02/16/00	02-04R	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B64B1C01	02/18/00	02-04R	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B65B1C01	02/18/00	02-04R	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
B66C1C01	02/18/00	04-06R	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U

**Notes:**  
 All results in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ )  
 U - Compound not detected above  
 method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range  
 exceeded.  
 D - Analyte concentration obtained from dilution.  
 R - Data rejected due to QC violation  
 \*\* - Sample not tested.  
 [1] - Multiple analysis of sample conducted;  
 result presented is the highest detected or  
 or lowest quantitation limit for constituent.



APPENDIX E  
 TABLE E-15  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area C  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Short	Surfactants	Tetrachloroethane	Trichloroethene	Trichloroethane	Tetrachloroethane	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,2-Dichloroethane	1,2,4-Trichloroethane	1,2,4-Trichloroethane	1,2,4-Trichloroethane	1,2-Dibromoethane	1,2-Dibromoethane
C65E1C01	02/11/00	06-10R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C66C1C01	02/11/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C67C1C01	02/11/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C68C1C01	02/17/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C69B1C01	02/11/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C70C1C01	02/11/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C71B1C01	02/11/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
C72B1C01	02/11/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C73B1C01	02/11/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C74B1C01	02/11/00	02-04R	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
C75E1C01	02/10/00	08-10R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C76F1C01	02/10/00	10-12R	No	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
C77E1C01	02/10/00	08-10R	No	No	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
C78D1C01	02/09/00	06-08R	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
C79E1C01	02/10/00	08-10R	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
C80F1C01	02/10/00	10-12R	No	No	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U
C81E1C01	02/10/00	08-10R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C82E1C01	02/10/00	08-10R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above method reporting limit presented  
 E - Estimated concentration; calibration range exceeded.  
 D - Analyte concentration obtained from dilution.  
 R - Data rejected due to QC violation  
 \*\* - Sample not tested.  
 [1] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.



VOLATILE ORGANIC COMPOUNDS (VOCs)  
Subsurface Soil Analytical Summary - Area C  
Providence Gas Company  
642 Alleus Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	1,3-Dichloro-benzene	1,2-Dichloro-ethane	1,1-Dichloro-propane	1,2,4-Trichloro-benzene	1,3-Dichloro-benzene	1,1-Dichloro-benzene	1,2-Dichloro-benzene	2,2-Dichloro-propane	2-Pentanone	2-Chloroethyl-ethyl-ether	2-Chloro-toluene	2-Methanone	4-Chloro-toluene
C05C1C01	01/11/00	04-06ft	No	No	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
C06B1C01	01/11/00	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
C07B1C01	01/11/00	02-04ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
C09C1C01	01/11/00	04-06ft	No	No	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
C10C1C01	01/11/00	04-06ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
C11D1C01	12/13/99	06-08ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
C12C1C01	12/13/99	04-06ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
C20C1C01	02/15/00	04-06ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
C23C1C01	02/15/00	02-04ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C24C1C01	02/15/00	02-04ft	No	No	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U
C25C1C01	02/15/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C26C1C01	02/15/00	04-06ft	No	No	840 U	840 U	840 U	840 U	840 U	840 U	840 U	840 U	840 U	840 U	840 U	840 U	840 U
C27B1C01	02/15/00	02-04ft	No	No	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U
C28C1C01	02/15/00	02-04ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
C29C1C01	02/15/00	04-06ft	No	No	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U
C30C1C01	02/15/00	02-04ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C31B1C01	02/15/00	02-04ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C32B1C01	02/15/00	02-04ft	No	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
C33B1C01	02/15/00	04-10ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C34C1C01	02/15/00	04-10ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
C35C1C01	02/15/00	12-14ft	No	No	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U
C36B1C01	02/15/00	02-04ft	No	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
C37B1C01	02/15/00	08-10ft	No	No	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U
C38B1C01	02/15/00	08-10ft	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
C39B1C01	02/15/00	08-10ft	No	No	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U
C40B1C01	02/15/00	08-10ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
C41C1C01	02/15/00	08-10ft	No	No	870 U	870 U	870 U	870 U	870 U	870 U	870 U	870 U	870 U	870 U	870 U	870 U	870 U
C42C1C01	02/15/00	08-10ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C43C1C01	02/15/00	04-06ft	No	No	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U
C44C1C01	02/15/00	04-06ft	No	No	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
C45C1C01	02/15/00	04-06ft	No	No	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
C46C1C01	02/15/00	04-06ft	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
C47C1C01	02/15/00	04-06ft	No	No	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U
C48B1C01	02/15/00	02-04ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C49B1C01	02/15/00	02-04ft	No	No	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
C49C1C01-A	6/20/00	04-06ft	No	No	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-B	6/20/00	04-06ft	No	No	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-C	6/20/00	04-06ft	No	No	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-D	6/20/00	04-06ft	No	No	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-E	6/20/00	04-06ft	No	No	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-F	6/20/00	04-06ft	No	No	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-G	6/20/00	04-06ft	No	No	-	-	-	-	-	-	-	-	-	-	-	-	-
C50C1C01	02/16/00	04-06ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C51B1C01	02/16/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C52B1C01	02/16/00	02-04ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C53B1C01	02/16/00	02-04ft	No	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
C54C1C01	02/16/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C55C1C01	02/16/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C56C1C01	02/16/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C57B1C01	02/16/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C58B1C01	02/16/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C59B1C01	02/16/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C64B1C01	02/11/00	02-04ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U



APPENDIX E  
TABLE E-15  
VOLATILE ORGANIC COMPOUNDS (VOCs)  
Subsurface Soil Analytical Summary - Area C  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	4-Terpropyl- benzene	4-Methyl- benzene	Acetone	Benzene	Bromo- benzene	Bromo-chloro- methane	Bromo- dichloro- methane	Bromomethane	Bromo- methane	Carbon Disulfide	Carbon Tetrachloride	Chloro- benzene	Chloro-ethane
Locations Greater Than 100 Feet from Shore																	
C06C1C01	01/11/00	02-05ft	No	No	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
C06B1C01	01/11/00	02-05ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
C07B1C01	07/11/00	02-01ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
C09C1C01 [1]	07/11/00	04-05ft	No	No	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
C10C1C01	07/11/00	04-05ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
C18D1C01	08-08R	06-08R	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
C19C1C01	12/13/99	01-06ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
C20C1C01	12/14/99	04-05ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
C23C1C01	02/15/00	04-05ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C23B1C01	02/15/00	02-04ft	No	No	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U
C24C1C01	02/15/00	04-05ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C25C1C01	02/24/00	08-10ft	No	No	840 U	840 U	840 U	840 U	840 U	840 U	840 U	840 U	840 U	840 U	840 U	840 U	840 U
C26C1C01	02/15/00	04-05ft	No	No	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U
C27C1C01	02/15/00	04-05ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
C28B1C01	02/15/00	02-05ft	No	No	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U
C29C1C01	02/15/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C30C1C01	02/24/00	04-06ft	No	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
C31B1C01	02/16/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C31F1C01	02/24/00	10-12ft	No	No	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U
C34G1C01	02/16/00	12-14ft	No	No	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U
C35C1C01	02/15/00	04-05ft	No	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
C37E1C01	02/15/00	08-10ft	No	No	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U
C38E1C01	02/24/00	08-10ft	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
C38E1C01dup	02/24/00	08-10ft	No	No	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U
C39F1C01	02/24/00	10-12ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
C40B1C01	02/15/00	08-10ft	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
C41C1C01	02/16/00	04-05ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C42C1C01	02/15/00	04-06ft	No	No	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U
C44E1C01	02/15/00	04-05ft	No	No	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
C44E1C01	03-10ft	03-10ft	No	No	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
C45C1C01	02/24/00	04-05ft	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
C46C1C01	02/24/00	04-05ft	No	No	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U
C47C1C01	02/17/00	04-05ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C48B1C01	02/16/00	02-01ft	No	No	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
C49B1C01	02/16/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C49C1C01-A	6/20/00	04-05ft	No	No	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-B	6/20/00	04-05ft	No	No	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-C	6/20/00	04-05ft	No	No	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-D	6/20/00	04-05ft	No	No	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-E	6/20/00	04-05ft	No	No	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-F	6/20/00	04-05ft	No	No	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-G	6/20/00	04-05ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C50C1C01	02/16/00	04-05ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C51B1C01	02-04ft	02-04ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C52B1C01	02/16/00	02-04ft	No	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
C53B1C01	02/16/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C55C1C01	02/16/00	04-05ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C56C1C01	02/16/00	04-06ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C57B1C01	02/16/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C58B1C01	02/16/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C58B1C01dup	02/16/00	02-05ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C59B1C01	02/16/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C64B1C01	02/11/00	02-04ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U

**APPENDIX E**  
**TABLE E-15**  
**VOLATILE ORGANIC COMPOUNDS (VOCs)**  
**Subsurface Soil Analytical Summary - Area C**  
 Providence Gas Company  
 642 Allean Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	4-Methyl- pentanone	Acetone	Benzene	Bromo- benzene	Bromo-chloro- methane	Bromo- chloro- methane	Bromo- form	Bromo- naphthalene	Carbon- Disulfide	Carbon- Tetrachloride	Chloro- benzene	Chloro- ethane
C65E1C01	02/11/00	06-10R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C67C1C01	02/11/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C68C1C01	02/17/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C69B1C01	02/11/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C70C1C01	02/11/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C71B1C01	02/11/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
C72B1C01	02/11/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C73B1C01	02/11/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C74B1C01	02/11/00	02-04R	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
C75B1C01	02/10/00	08-10R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C76B1C01	02/10/00	10-12R	No	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
C76F1C01dup	02/10/00	10-12R	No	No	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
C77B1C01	02/10/00	08-10R	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
C78D1C01	02/09/00	06-08R	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
C79E1C01	02/10/00	08-10R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
C80F1C01	02/10/00	10-12R	No	No	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U
C81B1C01	02/10/00	08-10R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C82E1C01	02/10/00	08-10R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U

**Notes:**

- All results in micrograms per kilogram (µg/kg)
- U - Compound not detected above method reporting limit presented
- E - Estimated concentration; calibration range exceeded.
- D - Analyte concentration obtained from dilution.
- R - Data rejected due to QC violation
- \*\* - Sample not tested.
- [1] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.

VOLATILE ORGANIC COMPOUNDS (VOCs)  
Subsurface Soil Analytical Summary - Area C  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	Chloroform	Chloro- methane	1,1-Dichloro- ethane	1,1,1-Trichloro- propane	Dibromo- chloro- methane	Dibromo- methane	Dichloro- difluoro- methane	Ethylbenzene	trans-chloro- butadiene	Isobutane	Isopropyl- benzene	Methyl ter- butyl ether	Methyl- chloride
C05C1C01	01/11/00	04-06ft	No	No	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
C06B1C01	01/11/00	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
C07B1C01	01/11/00	02-04ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
C09C1C01 [1]	01/11/00	04-06ft	No	No	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
C10C1C01	01/11/00	04-06ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
C18D1C01	12/13/99	06-08ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
C19C1C01	12/13/99	06-08ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
C20C1C01	12/14/99	04-06ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
C22C1C01	02/15/00	04-06ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C23B1C01	02/15/00	02-04ft	No	No	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U
C24C1C01	02/15/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C25B1C01	02/24/00	08-10ft	No	No	840 U	840 U	840 U	840 U	840 U	840 U	840 U	840 U	840 U	840 U	840 U	840 U	840 U
C26C1C01	02/15/00	02-04ft	No	No	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U
C27B1C01	02/15/00	02-04ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
C28B1C01	02/15/00	02-04ft	No	No	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U
C29C1C01	02/15/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C30C1C01	02/24/00	04-06ft	No	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
C31B1C01	02/16/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C32B1C01	02/15/00	08-10ft	No	No	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U	770 U
C33F1C01	02/24/00	12-14ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
C35C1C01	02/15/00	04-06ft	No	No	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U	810 U
C36B1C01	02/16/00	02-04ft	No	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
C37B1C01	02/15/00	08-10ft	No	No	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U	930 U
C38E1C01	02/24/00	08-10ft	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
C38E1C01dup	02/24/00	08-10ft	No	No	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U
C39F1C01	02/24/00	10-12ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
C40B1C01	02/15/00	08-10ft	No	No	870 U	870 U	870 U	870 U	870 U	870 U	870 U	870 U	870 U	870 U	870 U	870 U	870 U
C41C1C01	02/16/00	04-06ft	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
C42C1C01	02/15/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C43C1C01	02/15/00	04-06ft	No	No	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U
C44B1C01	02/24/00	08-10ft	No	No	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
C45C1C01	02/24/00	04-06ft	No	No	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U
C46C1C01	02/24/00	04-06ft	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
C47C1C01	02/17/00	04-06ft	No	No	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U
C48B1C01	02/16/00	02-04ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C49C1C01-A	6/20/00	04-06ft	No	No	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
C49C1C01-B	6/20/00	04-06ft	No	No	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-C	6/20/00	04-06ft	No	No	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-D	6/20/00	04-06ft	No	No	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-E	6/20/00	04-06ft	No	No	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-F	6/20/00	04-06ft	No	No	-	-	-	-	-	-	-	-	-	-	-	-	-
C49C1C01-G	6/20/00	04-06ft	No	No	-	-	-	-	-	-	-	-	-	-	-	-	-
C50C1C01	02/16/00	04-06ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C51B1C01	02/16/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C52B1C01	02/16/00	02-04ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C53B1C01	02/16/00	02-04ft	No	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
C55C1C01	02/16/00	04-06ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C56C1C01	02/16/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C57B1C01	02/16/00	02-04ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C58B1C01	02/16/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C59B1C01	02/16/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C64B1C01	02/11/00	02-04ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U

APPENDIX E  
 TABLE E-15  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area C  
 Providence Gas Company  
 642 Allen Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Share	Surface	Chloroform	Chloro-melbane	1,1,1-Trichloro-ethane	Bromo-chloro-propane	Dibromo-chloro-propane	Dibromo-methane	Dichloro-difluoro-methane	1,1,1-Trichloro-ethylene	1,1,2-Trichloro-ethylene	1,1,1-Trichloro-ethane	1,1,2-Trichloro-ethane	1,1,1-Trichloro-ethane	1,1,2-Trichloro-ethane	1,1,1-Trichloro-ethane	1,1,2-Trichloro-ethane
C63E1C01	02/11/00	06-10R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C63E1C01	02/11/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C67C1C01	02/11/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C68C1C01	02/17/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C69B1C01	02/11/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C70C1C01	02/11/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C71B1C01	02/11/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C72B1C01	02/11/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C73B1C01	02/11/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C74B1C01	02/11/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C75E1C01	02/10/00	08-10R	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
C76F1C01	02/10/00	10-12R	No	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
C76F1C01dup	02/10/00	10-12R	No	No	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
C77E1C01	02/10/00	08-10R	No	No	520 U	520 U	520 U	520 U	520 U	520 U	520 U	520 U	520 U	520 U	520 U	520 U	520 U	520 U	520 U
C78D1C01	02/09/00	06-08R	No	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U
C79B1C01	02/10/00	08-10R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C80F1C01	02/10/00	10-12R	No	No	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U
C81E1C01	02/10/00	08-10R	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
C82B1C01	02/10/00	08-10R	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration, calibration range exceeded  
 D - Analyte concentration obtained from dilution  
 R - Data rejected due to QC violation  
 \* - Sample not tested  
 [ ] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent

APPENDIX E  
 TABLE E-15  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area C  
 Providence Gas Company  
 642 Aliens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	Benzene	n-Propyl benzene	Methyl ethyl benzene	Styrene	sec-Butyl benzene	tert-Butyl benzene	Tetrahydro thiophene	Toluene
Locations Greater Than 100 Feet from Shore												
C03C1C01	01/11/00	04-06R	No	No	180	U	180	U	180	U	180	U
C06B1C01	01/11/00	02-04R	No	No	140	U	140	U	140	U	140	U
C07B1C01	01/11/00	02-04A	No	No	170	U	170	U	170	U	170	U
C09C1C01 [1]	01/11/00	04-06R	No	No	2,000	U	2,000,000	DE	2,000	U	2,000	U
C15C1C01	01/11/00	04-06R	No	No	160	U	160	U	160	U	160	U
C18D1C01	12/13/99	04-08R	No	No	120	U	37	U	120	U	120	U
C19C1C01	12/13/99	04-06R	No	No	160	U	64	U	160	U	160	U
C25C1C01	12/14/99	04-06R	No	No	120	U	260	U	37	U	120	U
C27C1C01	02/15/00	04-06R	No	No	1,100	U	1,100	U	1,100	U	1,100	U
C28C1C01	02/15/00	04-06R	No	No	8,000	U	240,000	U	8,000	U	8,000	U
C29C1C01	02/15/00	04-06R	No	No	1,000	U	550	U	1,000	U	1,000	U
C32E1C01	02/24/00	08-10R	No	No	840	U	840	U	840	U	840	U
C35C1C01	02/15/00	04-06R	No	No	880	U	7,500	U	880	U	880	U
C37B1C01	02/15/00	02-04R	No	No	960	U	960	U	960	U	960	U
C38B1C01	02/15/00	02-04R	No	No	860	U	1,600	U	860	U	860	U
C39C1C01	02/15/00	04-06R	No	No	1,000	U	240,000	E	1,000	U	1,000	U
C39C1C01	02/24/00	04-06R	No	No	1,000	U	1,000	U	1,000	U	1,000	U
C39C1C01	02/16/00	02-04R	No	No	1,500	U	1,500	U	1,500	U	1,500	U
C39C1C01	02/15/00	08-10R	No	No	1,100	U	630	U	1,100	U	1,100	U
C39C1C01	02/24/00	10-12R	No	No	770	U	770	U	770	U	770	U
C39C1C01	02/24/00	12-14R	No	No	980	U	980	U	980	U	980	U
C39C1C01	02/15/00	04-06R	No	No	810	U	810	U	810	U	810	U
C39C1C01	02/15/00	02-04R	No	No	1,500	U	1,500	U	1,500	U	1,500	U
C39C1C01	02/15/00	08-10R	No	No	930	U	930	U	930	U	930	U
C39C1C01	02/24/00	08-10R	No	No	940	U	940	U	940	U	940	U
C39C1C01	02/24/00	08-10R	No	No	820	U	820	U	820	U	820	U
C39C1C01	02/24/00	10-12R	No	No	960	U	960	U	960	U	960	U
C39C1C01	02/15/00	08-10R	No	No	870	U	870	U	870	U	870	U
C39C1C01	02/16/00	04-06R	No	No	940	U	940	U	940	U	940	U
C39C1C01	02/15/00	04-06R	No	No	1,000	U	1,000	U	1,000	U	1,000	U
C39C1C01	02/15/00	04-06R	No	No	860	U	860	U	860	U	860	U
C39C1C01	02/24/00	08-10R	No	No	800	U	800	U	800	U	800	U
C39C1C01	02/24/00	04-06R	No	No	800	U	800	U	800	U	800	U
C39C1C01	02/24/00	04-06R	No	No	940	U	940	U	940	U	940	U
C39C1C01	02/17/00	04-06R	No	No	730	U	730	U	730	U	730	U
C39C1C01	02/16/00	02-04R	No	No	1,200	U	1,200	U	1,200	U	1,200	U
C39C1C01	02/16/00	02-04R	No	No	1,600	U	390,000	E	1,600	U	1,600	U
C39C1C01-A	6/20/00	04-06R	No	No	-	U	950	U	-	U	-	U
C39C1C01-B	6/20/00	04-06R	No	No	-	U	940	U	-	U	-	U
C39C1C01-C	6/20/00	04-06R	No	No	-	U	870	U	-	U	-	U
C39C1C01-D	6/20/00	04-06R	No	No	-	U	840	U	-	U	-	U
C39C1C01-E	6/20/00	04-06R	No	No	-	U	800	U	-	U	-	U
C39C1C01-F	6/20/00	04-06R	No	No	-	U	940	U	-	U	-	U
C39C1C01-G	6/20/00	04-06R	No	No	-	U	810	U	-	U	-	U
C39C1C01	02/16/00	04-06R	No	No	1,200	U	1,200	U	1,200	U	1,200	U
C39C1C01	02/16/00	03-04R	No	No	1,100	U	1,100	U	1,100	U	1,100	U
C39C1C01	02/16/00	02-04R	No	No	1,000	U	1,000	U	1,000	U	1,000	U
C39C1C01	02/16/00	02-04R	No	No	1,100	U	1,100	U	1,100	U	1,100	U
C39C1C01	02/16/00	02-04R	No	No	1,100	U	1,100	U	1,100	U	1,100	U
C39C1C01	02/16/00	02-04R	No	No	1,100	U	1,100	U	1,100	U	1,100	U
C39C1C01	02/11/00	02-04R	No	No	960	U	960	U	960	U	960	U

APPENDIX E  
 TABLE E-15  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area C  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No	Collection Date	Sample Depth	Shore	Surface	Bulk/soil	Styrene	1,1-Dichloroethene	1,2-Dichloroethene	1,1,1-Trichloroethene	1,1,2-Trichloroethene	1,1,1,2-Tetrahydroethene	1,1,2,2-Tetrahydroethene
C65E1C01	02/11/00	06-10ft	No	No	1,500 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C66E1C01	02/11/00	06-10ft	No	No	1,500 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C67C1C01	02/11/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C68C1C01	02/17/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C69B1C01	02/17/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C70C1C01	02/17/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C71B1C01	02/17/00	02-04ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
C72B1C01	02/17/00	02-04ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C73B1C01	02/17/00	02-04ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C74B1C01	02/17/00	02-04ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
C75B1C01	02/10/00	08-10ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C76F1C01	02/10/00	10-12ft	No	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
C76F1C01dup	02/10/00	10-12ft	No	No	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
C77E1C01	02/10/00	08-10ft	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
C78D1C01	02/09/00	06-08ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
C79E1C01	02/10/00	08-10ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
C80F1C01	02/10/00	10-12ft	No	No	880 U	880 U	880 U	880 U	880 U	880 U	880 U	880 U
C81E1C01	02/10/00	08-10ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C82E1C01	02/10/00	08-10ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U

Notes:  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded.  
 D - Analyte concentration obtained from dilution.  
 R - Data rejected due to QC violation  
 :- Sample not tested.  
 [1] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.



**VOLATILE ORGANIC COMPOUNDS (VOCs)**  
**Subsurface Soil Analytical Summary - Area C**  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethylene	Trichloro-fluoro-methane	Vinyl acetate	Vinyl Chloride	Xylene (Total)
Locations Greater Than 100 Feet from Shore											
C05C1C01	01/11/00	04-06R	No	No	180 U	180 U	180 U	180 U	180 U	180 U	180 U
C06B1C01	02/04R	02-04R	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U
C07B1C01	01/11/00	02-04R	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U
C09C1C01	01/11/00	04-06R	No	No	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	650,000 U
C10C1C01	01/11/00	04-06R	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U
C18D1C01	12/13/99	06-06R	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U
C19C1C01	12/13/99	04-06R	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U
C20C1C01	12/14/99	04-06R	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U
C22C1C01	02/15/00	04-06R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C23B1C01	02/15/00	02-04R	No	No	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U	8,000 U
C24C1C01	02/15/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C25B1C01	02/24/00	08-10R	No	No	840 U	840 U	840 U	840 U	840 U	840 U	840 U
C26C1C01	02/15/00	04-06R	No	No	880 U	880 U	880 U	880 U	880 U	880 U	880 U
C27B1C01	02/15/00	02-04R	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U
C28B1C01	02/15/00	02-04R	No	No	860 U	860 U	860 U	860 U	860 U	860 U	860 U
C29C1C01	02/15/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C30C1C01	02/24/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C31B1C01	02/16/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C32B1C01	02/15/00	08-10R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C33F1C01	02/24/00	10-12R	No	No	770 U	770 U	770 U	770 U	770 U	770 U	770 U
C34G1C01	02/24/00	12-14R	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U
C35C1C01	02/15/00	04-06R	No	No	810 U	810 U	810 U	810 U	810 U	810 U	810 U
C36B1C01	02/16/00	02-04R	No	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
C37E1C01	02/15/00	08-10R	No	No	930 U	930 U	930 U	930 U	930 U	930 U	930 U
C38E1C01	02/24/00	08-10R	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U
C38E1C01dup	02/24/00	08-10R	No	No	820 U	820 U	820 U	820 U	820 U	820 U	820 U
C39F1C01	02/24/00	10-12R	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U
C40E1C01	02/15/00	08-10R	No	No	870 U	870 U	870 U	870 U	870 U	870 U	870 U
C41C1C01	02/16/00	04-06R	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U
C42C1C01	02/15/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C43C1C01	02/15/00	04-06R	No	No	860 U	860 U	860 U	860 U	860 U	860 U	860 U
C44B1C01	02/24/00	08-10R	No	No	800 U	800 U	800 U	800 U	800 U	800 U	800 U
C45C1C01	02/24/00	04-06R	No	No	800 U	800 U	800 U	800 U	800 U	800 U	800 U
C46C1C01	02/24/00	04-06R	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U
C47C1C01	02/17/00	04-06R	No	No	730 U	730 U	730 U	730 U	730 U	730 U	730 U
C48B1C01	02/16/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C49B1C01	02/16/00	02-04R	No	No	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
C49C1C01-A	6/20/00	04-06R	No	No	-	-	-	-	-	-	-
C49C1C01-B	6/20/00	04-06R	No	No	-	-	-	-	-	-	-
C49C1C01-C	6/20/00	04-06R	No	No	-	-	-	-	-	-	-
C49C1C01-D	6/20/00	04-06R	No	No	-	-	-	-	-	-	-
C49C1C01-E	6/20/00	04-06R	No	No	-	-	-	-	-	-	-
C49C1C01-F	6/20/00	04-06R	No	No	-	-	-	-	-	-	-
C49C1C01-G	6/20/00	04-06R	No	No	-	-	-	-	-	-	-
C50C1C01	02/16/00	04-06R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C51B1C01	02/16/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C52B1C01	02/16/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C53B1C01	02/16/00	02-04R	No	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
C55C1C01	02/16/00	04-06R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C56C1C01	02/16/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C57B1C01	02/16/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C58B1C01	02/16/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C58B1C01dup	02/16/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C59B1C01	02/16/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C64B1C01	02/11/00	02-04R	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U

APPENDIX E  
 TABLE E-15  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area C  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	1,1-Dichloroethene	1,1-Dichloroethane	Trichloroethene	1,1,1-Trichloroethane	Vinyl acetate	Vinyl Chloride	Xylene (Total)
C65E1C01	02/11/00	06-10R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C66E1C01	02/11/00	04-05R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C67C1C01	02/11/00	04-05R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C68C1C01	02/17/00	04-05R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C69B1C01	02/11/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C70C1C01	02/11/00	04-05R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C71B1C01	02/11/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
C72B1C01	02/11/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C73B1C01	02/11/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
C74B1C01	02/11/00	02-04R	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U
C75E1C01	02/10/00	08-10R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
C76F1C01	02/10/00	10-12R	No	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
C76F1C01dup	02/10/00	10-12R	No	No	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
C77E1C01	02/10/00	08-10R	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
C78D1C01	02/09/00	06-08R	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U
C79E1C01	02/10/00	08-10R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
C80F1C01	02/10/00	10-12R	No	No	880 U	880 U	880 U	880 U	880 U	880 U	880 U
C81E1C01	02/10/00	08-10R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
C82E1C01	02/10/00	08-10R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U

Notes:  
 All results in micrograms per kilogram (ug/kg)  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded.  
 D - Analyte concentration obtained from dilution.  
 R - Data rejected due to QC violation  
 \*\* - Sample not tested.  
 [1] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.

**VOLATILE ORGANIC COMPOUNDS (VOCs)**  
**Subsurface Soil Analytical Summary - Area D**  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	1,1,1,1-Tetrachloro-ethane	1,1,1,2-Tetrachloro-ethane	1,1,1-Trichloro-ethane	1,1,2-Dichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-propane	1,1,1-Trichloro-benzene	1,2,4-Trichloro-benzene	1,2,4-Trinitro-benzene	1,2-Dibromo-chloro-benzene	
<b>Locations Within 100 Feet of Shore</b>															
D92B1C01	01/28/00	02-04ft	Yes	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	
D93C1C01	01/28/00	04-06ft	Yes	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	
D94C1C01	01/28/00	04-06ft	Yes	No	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	
<b>Locations Greater Than 100 Feet from Shore</b>															
D01C1C01	11/17/99	04-06ft	No	No	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	
D02C1C01	11/17/99	04-06ft	No	No	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U	
D03C1C01	11/17/99	04-06ft	No	No	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	
D04C1C01	11/17/99	04-06ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	
D05C1C01	11/17/99	04-06ft	No	No	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	
D06C1C01	11/17/99	04-06ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	
D07C1C01	11/17/99	04-06ft	No	No	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	
D08C1C01	11/17/99	04-06ft	No	No	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	
D08E1C01	11/17/99	08-10ft	No	No	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	
D09C1C01	11/17/99	04-06ft	No	No	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	
D10E1C01	11/17/99	08-10ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	
D11C1C01	11/18/99	04-06ft	No	No	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U	
D12C1C01	11/18/99	04-06ft	No	No	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	
D13E1C01	11/18/99	08-10ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	
D14C1C01	11/18/99	04-06ft	No	No	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	
D15C1C01	11/18/99	04-06ft	No	No	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	
D16C1C01	11/29/99	04-06ft	No	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	
D17C1C01	11/29/99	04-06ft	No	No	280 U	280 U	280 U	280 U	280 U	280 U	280 U	280 U	280 U	280 U	
D18C1C01	11/29/99	04-06ft	No	No	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	
D19C1C01	11/30/99	04-06ft	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	
D20C1C01	11/30/99	04-06ft	No	No	32,000 U	32,000 U	32,000 U	32,000 U	32,000 U	32,000 U	32,000 U	32,000 U	32,000 U	32,000 U	
D21B1C01	11/30/99	02-04ft	No	No	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	
D22C1C01	11/30/99	04-06ft	No	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	
D23C1C01	11/30/99	04-06ft	No	No	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	
D24C1C01	11/30/99	04-06ft	No	No	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	
D25C1C01	12/01/99	04-06ft	No	No	2,900 U	2,900 U	2,900 U	2,900 U	2,900 U	2,900 U	2,900 U	2,900 U	2,900 U	2,900 U	
D26C1C01	12/01/99	04-06ft	No	No	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	
D27C1C01	11/30/99	04-06ft	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	
D28C1C01	12/01/99	04-06ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	
D29C1C01	12/01/99	04-06ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	
D30C1C01	12/01/99	04-06ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	
D31C1C01	12/01/99	04-06ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	
D32C1C01	12/02/99	04-06ft	No	No	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	
D33C1C01	12/02/99	04-06ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	
D34C1C01	12/02/99	04-06ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	
D35C1C01	12/02/99	04-06ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	
D36C1C01	12/02/99	04-06ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	
D37E1C01	12/02/99	08-10ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	
D38C1C01	12/03/99	06-08ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	
D39E1C01	12/03/99	08-10ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	
D40C1C01	12/03/99	04-06ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	
D40E1C01	12/03/99	08-10ft	No	No	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U	
D41C1C01	12/03/99	04-06ft	No	No	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	
D42C1C01	12/03/99	04-06ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	
D43C1C01	12/03/99	04-06ft	No	No	14,000 U	14,000 U	14,000 U	14,000 U	14,000 U	14,000 U	14,000 U	14,000 U	14,000 U	14,000 U	
D44C1C01	12/06/99	04-06ft	No	No	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	
D45C1C01	12/06/99	06-08ft	No	No	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	
D46D1C01	12/06/99	06-08ft	No	No	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	
D47C1C01	12/06/99	04-06ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	
D48D1C01	12/06/99	06-08ft	No	No	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	
D49C1C01	12/06/99	08-10ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	
D50E1C01	12/07/99	08-10ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	
D51C1C01	12/07/99	04-06ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	
D52C1C01	12/07/99	04-06ft	No	No	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	
D53C1C01	12/07/99	04-06ft	No	No	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	
D53C1C01-A	6/20/00	04-06ft	No	No	-	-	-	-	-	-	-	-	-	-	
D53C1C01-B	6/20/00	04-06ft	No	No	-	-	-	-	-	-	-	-	-	-	
D53B1C01-C	6/20/00	02-04ft	No	No	-	-	-	-	-	-	-	-	-	-	
D54C1C01	12/07/99	04-06ft	No	No	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	
D55E1C01	12/08/99	08-10ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	
D56D1C01	12/08/99	06-08ft	No	No	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U	

APPENDIX E  
 TABLE E-16  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area D  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Simple Depth	Shore	Surface	Tetrahydro- ethane	1,1,1- trichloro- ethane	1,1,2- trichloro- ethane	1,1,2,2- tetrachloro- ethane	1,1,2,2- trichloro- ethane	1,1,1,1- tetrachloro- ethane	1,1,2,2- trichloro- propane	1,1,2,2- trichloro- propane	1,1,2,2- trichloro- benzene	1,2,4- trichloro- benzene	1,2,4- trichloro- benzene	1,2-Dibromo- chloro- propane	1,2-Dibromo- ethane
D56C1C01-A	6/20/00	04-06R															
D56B1C01-B	6/20/00	01-04R															
D56B1C01-C	6/20/00	01-04R															
D56C1C01-D	6/20/00	04-06R															
D57B1C01	12/08/99	02-04R	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
D58D1C01	12/08/99	06-08R	No	No	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U
D59C1C01	12/08/99	04-06R	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
D60B1C01	12/08/99	02-04R	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
D61D1C01	12/09/99	06-08R	No	No	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
D62E1C01	12/09/99	08-10R	No	No	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U
D62C1C01-A	6/20/00	04-06R															
D62C1C01-B	6/20/00	04-06R															
D62C1C01-C	6/20/00	04-06R															
D64D1C01	12/09/99	06-08R	No	No	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U
D64C1C01	12/11/99	04-06R	No	No	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
D65C1C01	12/11/99	04-06R	No	No	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
D66B1C01	12/22/99	02-04R	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
D67C1C01	12/22/99	04-06R	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
D68C1C01	12/23/99	04-06R	No	No	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
D69C1C01	12/23/99	04-06R	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
D70B1C01	12/23/99	02-04R	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
D71D1C01	12/23/99	06-08R	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
D71D1C01dup	12/23/99	06-08R	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
D72B1C01	01/26/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
D73B1C01	02/01/00	02-04R	No	No	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
D74C1C01	01/26/00	04-06R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
D74C1C01dup	01/26/00	04-06R	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
D75C1C01	01/28/00	04-06R	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
D76B1C01	01/26/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
D77B1C01	01/26/00	02-04R	No	No	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U
D78B1C01	01/26/00	02-04R	No	No	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U
D79B1C01	01/26/00	02-04R	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
D80B1C01	01/26/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
D81B1C01	01/19/00	02-04R	No	No	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
D82C1C01	01/28/00	04-06R	No	No	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U
D84C1C01	01/23/00	04-06R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
D85C1C01	01/23/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
D86B1C01	02/02/00	02-04R	No	No	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U
D87C1C01	01/25/00	04-06R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
D88B1C01	01/25/00	02-04R	No	No	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
D89B1C01	01/28/00	02-04R	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
D90B1C01	01/28/00	02-04R	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
D91B1C01	01/28/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
D95C1C01	03/07/00	04-06R	No	No	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above reporting limit  
 J - Estimated concentration  
 E - Estimated conc; calibration range exceeded  
 D - Analyte concentration obtained from dilution  
 R - Data injected due to QC violation  
 \* - Sample not tested  
 (1) - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.



APPENDIX E  
 TABLE E-16  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area D  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	1,3-Dichloro-benzene	1,2-Dichloro-ethane	1,1-Dichloro-propane	1,4-Dichloro-benzene	2,2-Dichloro-propane	2-Butanone	2-Chloroethyl-vinyl-ether	1-Chloro-benzene	2-Hexanone	4-Chloro-toluene
D5681C01-B	6/20/00	02-04R	-	-	-	-	-	-	-	-	-	-
D5681C01-C	6/20/00	02-04R	-	-	-	-	-	-	-	-	-	-
D5681C01-D	6/20/00	04-06R	-	-	-	-	-	-	-	-	-	-
D5781C01	12/08/99	02-04R	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
D5801C01	12/08/99	06-08R	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U
D5901C01	12/08/99	04-06R	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
D6081C01	12/08/99	02-04R	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
D6101C01	12/09/99	06-08R	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
D6201C01	12/09/99	08-10R	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U
D621C01-A	6/20/00	04-06R	-	-	-	-	-	-	-	-	-	-
D621C01-B	6/20/00	04-06R	-	-	-	-	-	-	-	-	-	-
D621C01-C	6/20/00	04-06R	-	-	-	-	-	-	-	-	-	-
D6101C01	12/09/99	06-08R	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U
D64C1C01	12/11/99	04-06R	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
D65C1C01	12/11/99	04-06R	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
D66B1C01	12/22/99	02-04R	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
D67C1C01	12/22/99	04-06R	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
D68C1C01	12/23/99	04-06R	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
D69C1C01	12/23/99	02-04R	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
D70B1C01	12/23/99	02-04R	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
D71D1C01	12/23/99	06-08R	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
D71D1C01dup	12/23/99	06-08R	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
D72B1C01	01/26/00	02-04R	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
D73B1C01	02/01/00	02-04R	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
D74C1C01	01/26/00	04-06R	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
D75C1C01	01/26/00	04-06R	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
D76B1C01	01/26/00	02-04R	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
D77B1C01	01/26/00	02-04R	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U
D78B1C01	01/26/00	02-04R	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U
D79B1C01	01/26/00	02-04R	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
D80B1C01	01/26/00	02-04R	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
D81B1C01	01/19/00	02-04R	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
D82C1C01	01/28/00	04-06R	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U
D84C1C01	01/25/00	04-06R	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
D85C1C01	01/25/00	04-06R	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
D86B1C01	02/02/00	02-04R	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U
D87C1C01	01/25/00	04-06R	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
D88B1C01	01/25/00	02-04R	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
D89B1C01	01/28/00	02-04R	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
D90B1C01	01/28/00	02-04R	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
D91B1C01	01/28/00	02-04R	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
D95C1C01	03/07/00	04-06R	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U

**Notes**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above reporting limit  
 J - Estimated concentration  
 E - Estimated conc; calibration range exceeded  
 R - Data rejected due to QC violation  
 \*\* - Sample not tested  
 (1) - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.

A. TABLE E-16  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area D  
 Providence Gas Company  
 642 Allicon Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Acetone	Benzene	Bromo- benzene	Bromo-chloro methane	Bromo- chloro ethane	Bromo- form	Carbon Disulfide	Carbon Tetrachloride	Chloro- benzene	Chloro- ethane
D92B1C01	01/23/00	02-04H	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
D93C1C01	01/28/00	04-06R	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
D94C1C01	01/28/00	04-06R	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U
Locations Greater Than 100 Feet from Shore												
D01C1C01	11/17/99	04-06H	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
D02C1C01	11/17/99	04-06R	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U	910 U
D03C1C01	11/17/99	04-06R	4,400 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U	3,900 U
D04C1C01	11/17/99	04-06R	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
D05C1C01	11/17/99	04-06R	1,000 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U	990 U
D06C1C01	11/17/99	04-06R	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
D07C1C01	11/17/99	04-06H	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
D08C1C01	11/17/99	04-06R	380 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U
D09C1C01	11/17/99	04-06R	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U
D10C1C01	11/17/99	04-06R	3,100 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
D11C1C01	11/17/99	04-06R	1,200 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
D12C1C01	11/17/99	04-06R	490 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U
D13C1C01	11/18/99	04-06R	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
D14C1C01	11/18/99	04-06R	46 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
D15C1C01	11/18/99	04-06R	1,000 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
D16C1C01	11/18/99	04-06R	620 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U	820 U
D17C1C01	11/29/99	04-06R	1,100 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U	850 U
D18C1C01	11/29/99	04-06R	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U
D19C1C01	11/29/99	04-06R	380 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U
D20C1C01	11/29/99	04-06R	1,500 U	3,300 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U
D21C1C01	11/20/99	04-06R	520 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
D22C1C01	11/20/99	04-06R	12,000 U	27,000 U	32,000 U	32,000 U	32,000 U	32,000 U	32,000 U	32,000 U	32,000 U	32,000 U
D23C1C01	11/20/99	04-06R	40 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
D24C1C01	11/20/99	04-06R	1,500 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
D25C1C01	11/20/99	04-06R	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
D26C1C01	11/20/99	04-06R	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
D27C1C01	12/01/99	04-06R	2,600 U	2,900 U	2,900 U	2,900 U	2,900 U	2,900 U	2,900 U	2,900 U	2,900 U	2,900 U
D28C1C01	12/01/99	04-06R	720 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U
D29C1C01	11/20/99	04-06R	1,200 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
D30C1C01	12/01/99	04-06R	200 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
D31C1C01	12/01/99	04-06R	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
D32C1C01	12/01/99	04-06R	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
D33C1C01	12/01/99	04-06R	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
D34C1C01	12/02/99	04-06R	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
D35C1C01	12/02/99	04-06R	1,500 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U
D36C1C01	12/02/99	04-06R	110 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
D37C1C01	12/02/99	04-06R	40 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
D38C1C01	12/02/99	04-06R	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
D39C1C01	12/03/99	04-06R	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
D40C1C01	12/03/99	04-06R	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
D41C1C01	12/03/99	04-06R	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U
D42C1C01	12/03/99	04-06R	99 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
D43C1C01	12/03/99	04-06R	11,000 U	14,000 U	14,000 U	14,000 U	14,000 U	14,000 U	14,000 U	14,000 U	14,000 U	14,000 U
D44C1C01	12/05/99	04-06R	2,900 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
D45C1C01	12/05/99	04-06R	300 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U
D46C1C01	12/06/99	06-08R	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
D47C1C01	12/06/99	04-06R	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
D48C1C01	12/06/99	06-08R	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
D49C1C01	12/07/99	04-06R	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
D50C1C01	12/07/99	04-06R	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
D51C1C01	12/07/99	04-06R	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
D52C1C01	12/07/99	04-06R	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
D53C1C01	12/07/99	04-06R	1,300 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
D53C1C01-A	02/08/00	04-06R	-	-	-	-	-	-	-	-	-	-
D53C1C01-B	02/08/00	04-06R	-	-	-	-	-	-	-	-	-	-
D53C1C01-C	02/08/00	04-06R	-	-	-	-	-	-	-	-	-	-
D54C1C01	12/07/99	04-06R	130 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
D55C1C01	12/08/99	08-10R	42 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
D56D1C01	12/03/99	06-08R	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U	18,000 U

APPENDIX E  
 TABLE E-16  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area D  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	1,1-Diploxy fluorene	Methyl pentane	Acetone	Benzene	Bromo- chloro- methane	Bromo- chloro- dichloro- methane	Bromoform	1,1-Dichloro- ethane	Carbon Tetrachloride	Chloro- benzene	Chloro- ethane
Legation, 1500	04-06R					950 U							
D56B1C01-B	6/20/00	02-04R				1,000 U							
D56B1C01-C	6/20/00	02-04R				790 U							
D56C1C01-D	6/20/00	04-06R				1,100 U							
D57B1C01	12/08/99	02-04R	160 U	160 U	46 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
D58D1C01	12/08/99	06-08R	3,100 U	3,100 U	1,000 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U
D59C1C01	12/08/99	04-06R	140 U	140 U	30 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
D60D1C01	12/08/99	03-04R	160 U	160 U	52 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
D61D1C01	12/09/99	06-08R	600 U	1,500 U	600 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U
D62B1C01	12/09/99	04-06R	8,600 U	21,000 U	6,300 U	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U
D62C1C01-A	6/20/00	04-06R				970 U							
D62C1C01-B	6/20/00	04-06R				770 U							
D62C1C01-C	6/20/00	04-06R				850 U							
D63D1C01	12/09/99	06-08R	9,900 U	4,400 U	1,500 U	21,000 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U
D64C1C01	12/11/99	04-06R	180 U	180 U	81 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
D65C1C01	12/11/99	02-04R	190 U	190 U	65 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
D66B1C01	12/23/99	02-04R	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
D67C1C01	12/23/99	04-06R	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
D68C1C01	12/23/99	04-06R	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
D69C1C01	12/23/99	04-06R	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
D70B1C01	12/23/99	02-04R	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
D71D1C01	12/23/99	06-08R	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
D71D1C01dup	12/23/99	06-08R	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
D72B1C01	01/26/00	02-04R	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
D73B1C01	02/01/00	02-04R	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
D74C1C01	01/26/00	04-06R	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
D74C1C01dup	01/26/00	04-06R	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
D75C1C01	01/26/00	04-06R	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
D76D1C01	01/26/00	02-04R	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U
D77B1C01	01/26/00	02-04R	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U
D79B1C01	01/26/00	02-04R	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
D80B1C01	01/19/00	02-04R	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
D81B1C01	01/19/00	02-04R	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
D82C1C01	01/28/00	04-06R	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U
D83C1C01	01/25/00	04-06R	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
D83C1C01	01/25/00	04-06R	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
D86B1C01	02/02/00	02-04R	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U
D87C1C01	01/25/00	04-06R	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
D88B1C01	01/25/00	02-04R	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
D90B1C01	01/28/00	02-04R	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
D91B1C01	01/28/00	02-04R	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
D95C1C01	03/07/00	04-06R	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U

Notes:  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above reporting limit  
 J - Estimated concentration  
 E - Estimated value; calibration range exceeded  
 D - Analyte concentration obtained from dilution  
 R - Data rejected due to QC violation  
 \*\* - Sample not tested  
 [ ] - Multiple analysis of sample conducted;  
 result presented is the highest detected or  
 or lowest quantitation limit for constituent.









**APPENDIX E**  
**TABLE E-16**  
**VOLATILE ORGANIC COMPOUNDS (VOCs)**  
**Subsurface Soil Analytical Summary - Area D**  
**Providence Gas Company**  
**642 Allens Avenue, Providence, Rhode Island**

Sample No.	Collection Date	Sample Depth	n-Butylbenzene	o-Propylbenzene	Naphthalene	Acetylbenzene	Styrene	Isobutylbenzene	Toluene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Perfluorobenzene	Vinylacetate	Methylchloride	Systeme (Total)
D56B1C01-B	6/20/00	04-06ft	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D56B1C01-C	6/20/00	02-04ft	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D56C1C01-D	6/20/00	04-06ft	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D57B1C01	12/08/99	02-04ft	160 U	160 U	72 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
D58C1C01	12/08/99	06-08ft	3,100 U	3,100 U	83,000 B	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	6,800 U
D59C1C01	12/08/99	04-06ft	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
D60B1C01	12/08/99	02-04ft	160 U	160 U	62 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
D61D1C01	12/09/99	06-08ft	1,500 U	400 U	410,000 EB	1,500 U	1,500 U	1,500 U	1,100 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	1,500 U	24,000 U
D62E1C01	12/09/99	08-10ft	3,800 U	7,100 U	7,200,000 EB	21,000 U	17,000 U	21,000 U	830,000 U	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U	21,000 U	610,000 U
D62C1C01-A	6/20/00	04-06ft	-	-	380 U	-	-	-	970 U	-	-	-	-	-	-	-
D62C1C01-B	6/20/00	04-06ft	-	-	59,000 D	-	-	-	190 U	-	-	-	-	-	-	-
D62C1C01-C	6/20/00	04-06ft	100,000 U	1,400 U	2,300,000 EB	4,400 U	2,200 U	4,400 U	47,000 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	4,400 U	260,000 U
D64C1C01	12/11/99	04-06ft	180 U	180 U	220 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
D65E1C01	12/11/99	02-04ft	190 U	190 U	110 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
D66B1C01	12/12/99	02-04ft	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
D67C1C01	12/22/99	04-06ft	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
D68C1C01	12/23/99	04-06ft	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
D69C1C01	12/23/99	04-06ft	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
D70B1C01	12/23/99	02-04ft	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
D71D1C01	12/23/99	06-08ft	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
D71D1C01dup	12/23/99	02-04ft	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
D72B1C01	01/26/00	02-04ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
D73B1C01	02/01/00	02-04ft	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
D74C1C01	02/01/00	04-06ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
D74C1C01dup	02/01/00	04-06ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
D75C1C01	01/23/00	04-06ft	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
D76B1C01	01/26/00	02-04ft	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
D77B1C01	01/26/00	02-04ft	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U
D78B1C01	01/26/00	02-04ft	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U
D79B1C01	01/26/00	02-04ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
D80B1C01	01/26/00	02-04ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
D81B1C01	01/19/00	02-04ft	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
D82C1C01	01/26/00	04-06ft	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U
D84C1C01	01/25/00	04-06ft	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
D85C1C01	01/25/00	04-06ft	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
D86B1C01	02/02/00	04-06ft	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U
D87C1C01	01/23/00	04-06ft	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
D88B1C01	01/23/00	02-04ft	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
D89B1C01	01/26/00	02-04ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
D90B1C01	01/26/00	02-04ft	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
D91B1C01	01/28/00	02-04ft	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
D95C1C01	03/07/00	04-06ft	2,600 U	2,600 U	810,000 E	2,600 U	2,600 U	2,600 U	3,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U	100,000 U

Note:  
 All results in micrograms per kilogram (ug/kg)  
 U - Compound not detected above reporting limit  
 F - Estimated concentration  
 B - Estimated concentration exceeded  
 R - Analyte concentration identified from duplicate  
 D - Data rejected due to QC violation  
 \* - Sample not tested.  
 [1] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit, for consistent.

**VOLATILE ORGANIC COMPOUNDS (VOCs)**  
 Subsurface Soil Analytical Summary - Area E  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	1,1,1,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,2-Dichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-chloropropane
Locations Greater Than 100 Feet from Shore													
E01C1C01	12/11/99	04-06ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
E02C1C01	12/13/99	04-06ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
E03B1C01	12/13/99	02-04ft	No	No	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
E04D1C01	12/13/99	06-08ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
E08B1C01	12/14/99	02-04ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E09B1C01	12/14/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E10B1C01	12/14/99	02-04ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
E11B1C01	12/14/99	02-04ft	No	No	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
E12B1C01	12/14/99	02-04ft	No	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U
E14B1C01	12/15/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E15C1C01	12/15/99	04-06ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E16B1C01	12/15/99	02-04ft	No	No	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	21,000 U	16,000 U
E17B1C01	12/15/99	02-04ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E18B1C01	12/15/99	02-04ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
E18B1C01	12/15/99	02-04ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E19B1C01	12/15/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E20B1C01	12/15/99	02-04ft	No	No	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
E21B1C01	12/15/99	02-04ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E22B1C01	12/15/99	02-04ft	No	No	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
E23C1C01	12/16/99	04-06ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E23C1C01dup	12/16/99	04-06ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E24B1C01	12/16/99	02-04ft	No	No	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U
E25B1C01	12/17/99	02-04ft	No	No	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
E26B1C01	12/17/99	02-04ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E27B1C01	12/20/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E28C1C01	12/20/99	04-06ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E29C1C01	12/17/99	04-06ft	No	No	560 U	560 U	560 U	560 U	560 U	560 U	560 U	560 U	560 U
E30C1C01	12/17/99	04-06ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E30C1C01dup	12/17/99	04-06ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E31B1C01	12/16/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E32C1C01	12/16/99	04-06ft	No	No	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
E32C1C01dup	12/16/99	04-06ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E33B1C01	12/20/99	04-06ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
E34C1C01	12/20/99	04-06ft	No	No	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U
E35C1C01	12/20/99	04-06ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E36C1C01	12/21/99	04-06ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E37B1C01	01/26/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E38C1C01	12/21/99	04-06ft	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
E39C1C01	01/26/00	04-06ft	No	No	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U
E40B1C01	12/21/99	02-04ft	No	No	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U
E41B1C01	12/21/99	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E42B1C01	12/21/99	04-06ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E43C1C01	12/21/99	04-06ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
E43C1C01dup	12/21/99	04-06ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
E44B1C01	12/22/99	02-04ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
E45B1C01	12/22/99	02-04ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
E46B1C01	12/22/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E48B1C01	02/01/00	02-04ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
E52C1C01	12/22/99	04-06ft	No	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U
E53C1C01	12/22/99	04-06ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E53C1C01dup	12/22/99	04-06ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U

APPENDIX E  
TABLE E-17  
VOLATILE ORGANIC COMPOUNDS (VOCs)  
Subsurface Soil Analytical Summary - Area E  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	1,1,1,1-Tetrachloroethane	1,1,1-Trichloroethane	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,1,2-Trichloroethane	1,1,2-Trichloroethane	1,1,2-Trichloroethane	1,1,2-Trichloroethane	1,1,2-Trichloroethane	1,2-Dichloroethane	1,2,4-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichloropropane
E54B1C01	02/01/00	02-04R	No	No	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
E55B1C01	02/01/00	02-04R	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
E57B1C01	02/02/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E58C1C01	01/04/00	04-06R	No	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U
E59C1C01	01/04/00	04-06R	No	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U
E61B1C01	01/20/00	02-04R	No	No	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U
E62B1C01	01/20/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E64B1C01	02/02/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E65B1C01	01/21/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E66B1C01	01/21/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E67B1C01	01/21/00	02-04R	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
E68B1C01	01/20/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E69B1C01	01/20/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E70B1C01	01/20/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E71B1C01	01/20/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E72B1C01	01/20/00	02-04R	No	No	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
E73B1C01	01/20/00	02-04R	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
E74B1C01	01/21/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E75B1C01	01/19/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E76B1C01	01/19/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E77B1C01	01/25/00	02-04R	No	No	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U
E78B1C01	01/28/00	02-04R	No	No	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U
E79B1C01	01/25/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E80B1C01	01/19/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E81B1C01	01/21/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E82C1C01	01/24/00	04-06R	No	No	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U
E83B1C01	01/21/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E84B1C01	01/19/00	02-04R	No	No	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
E85B1C01	01/19/00	02-04R	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
E86B1C01	01/19/00	02-04R	No	No	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
E87B1C01	01/19/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E88B1C01	01/19/00	02-04R	No	No	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U
E89B1C01	01/24/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E90B1C01	01/25/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E91B1C01	01/25/00	02-04R	No	No	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
E92C1C01	03/07/00	04-06R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E93C1C01	03/07/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E93C1C01dup	03/07/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U

Notes:  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above method reporting limit prescribed  
 J - Estimated concentration  
 E - Estimated concentrations; calibration range exceeded.  
 D - Analyte concentrations obtained from dilution.  
 R - Data rejected due to QC violation  
 \* - Sample not tested.  
 (†) - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.

**VOLATILE ORGANIC COMPOUNDS (VOCs)**  
Subsurface Soil Analytical Summary - Area E  
Providence Gas Company  
647 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	1,2-Dibromo-ethane	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3,5-Trimethyl-benzene	1,3-Dichloro-benzene	1,3-Dichloro-propane	1,4-Dichloro-benzene	1,4-Dichloro-propane	2-Butanone	2-Chloroethyl-vinyl ether	2-Chloro-toluene
Locations Greater Than 100 Feet from Shore																
E01C1C01	12/11/99	04-06ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
E02C1C01	12/13/99	04-06ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
E03B1C01	12/13/99	02-04ft	No	No	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
E04D1C01	12/13/99	06-08ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
E08B1C01	12/14/99	02-04ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E09B1C01	12/14/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E10B1C01	12/14/99	02-04ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
E11B1C01	12/14/99	02-04ft	No	No	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
E12B1C01	12/14/99	02-04ft	No	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U
E13B1C01	12/14/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E14B1C01	12/15/99	02-04ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E15C1C01	12/15/99	04-06ft	No	No	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U
E16B1C01	12/15/99	02-04ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E17B1C01	12/15/99	02-04ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
E18B1C01	12/15/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E19B1C01	12/15/99	02-04ft	No	No	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
E20B1C01	12/15/99	02-04ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E21B1C01	12/16/99	02-04ft	No	No	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
E22B1C01	12/16/99	02-04ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E23C1C01	12/16/99	04-06ft	No	No	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U
E24B1C01	12/16/99	02-04ft	No	No	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
E25B1C01	12/17/99	02-04ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E26B1C01	12/17/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E27B1C01	12/20/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E28C1C01	12/20/99	04-06ft	No	No	560 U	560 U	560 U	560 U	560 U	560 U	560 U	560 U	560 U	560 U	560 U	560 U
E29C1C01	12/17/99	04-06ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E30C1C01	12/17/99	04-06ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E30C1C01 dup	12/17/99	04-06ft	No	No	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U
E31B1C01	12/16/99	02-04ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E32C1C01	12/16/99	04-06ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E33C1C01 dup	12/16/99	04-06ft	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
E34C1C01	12/20/99	02-04ft	No	No	6,000 U	6,000 U	6,000 U	6,000 U	6,000 U	6,000 U	6,000 U	6,000 U	6,000 U	6,000 U	6,000 U	6,000 U
E35C1C01	12/20/99	04-06ft	No	No	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U
E36C1C01	12/20/99	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E37B1C01	12/21/99	04-06ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E38C1C01	12/21/99	02-04ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
E39C1C01	01/26/00	04-06ft	No	No	36 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U
E40B1C01	12/21/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E41B1C01	12/21/99	02-04ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
E42B1C01	12/21/99	04-06ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
E43C1C01	12/21/99	04-06ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E43C1C01 dup	12/21/99	04-06ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
E44B1C01	12/22/99	02-04ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
E45B1C01	12/22/99	02-04ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
E46B1C01	12/22/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E48B1C01	02/01/00	02-04ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
E49C1C01	04-06ft	02-04ft	No	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U
E53C1C01	12/22/99	04-06ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E53C1C01 dup	12/22/99	04-06ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U

APPENDIX E  
 TABLE E-17  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area E  
 Providence Gas Company  
 641 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	1,1-Dichloro-ethane	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,3-Dichloro-propene	1,3-Dichloro-benzene	1,3-Dichloro-propene	1,4-Dichloro-benzene	1,2-Dichloro-propene	2-Butanone	2-Chloroethyl vinyl ether	2-Chloro-toluene
E54B1C01	02/01/00	02-04R	No	No	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
E55B1C01	02/02/00	02-04R	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
E57B1C01	02/02/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E58C1C01	04/06/00	04-06R	No	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U
E59C1C01	01/04/00	04-06R	No	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U
E61B1C01	01/20/00	02-04R	No	No	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U
E62B1C01	01/20/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E64B1C01	02/02/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E65B1C01	01/21/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E66B1C01	01/21/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E67B1C01	01/21/00	02-04R	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
E68B1C01	01/20/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E69B1C01	01/20/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E70B1C01	01/20/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E71B1C01	01/20/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E72B1C01	01/20/00	02-04R	No	No	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
E73B1C01	01/20/00	02-04R	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
E74B1C01	01/21/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E75B1C01	01/19/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E76B1C01	01/19/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E77B1C01	01/25/00	02-04R	No	No	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U
E78B1C01	01/28/00	02-04R	No	No	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U
E79B1C01	01/25/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E80B1C01	01/19/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E81B1C01	01/21/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E82C1C01	01/24/00	04-06R	No	No	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U
E83B1C01	01/21/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E84B1C01	01/19/00	02-04R	No	No	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
E85B1C01	01/19/00	02-04R	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
E86B1C01	01/19/00	02-04R	No	No	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
E87B1C01	01/19/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E88B1C01	01/19/00	02-04R	No	No	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U
E89B1C01	01/24/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E90B1C01	01/25/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E91B1C01	01/25/00	02-04R	No	No	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
E92C1C01	03/07/00	04-06R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E93C1C01	03/07/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E94C1C01dup	03/07/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above  
 method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded  
 D - Analytic concentrations obtained from dilution  
 R - Data rejected due to QC violation  
 \*\* - Sample not tested  
 (1) - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent



APPENDIX E  
 TABLE E-17  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area E  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Surface	1-Hexane	4-Chloro- toluene	4-Propoxy- toluene	4-Methyl-2- pentanone	Acetone	Benzene	Bromo- benzene	Bromo-chloro- methane	Bromo- dichloro- methane	Bromoform	Bromo- methane	Carbon Disulfide
E01C1C01	12/11/99	01-06R	No	170 U	170 U	170 U	170 U	56 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
E02C1C01	12/13/99	01-06R	No	150 U	150 U	150 U	150 U	77 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
E03B1C01	12/13/99	02-04R	No	200 U	200 U	200 U	200 U	110 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
E04D1C01	12/13/99	06-08R	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
E08B1C01	12/14/99	02-04R	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E09B1C01	12/14/99	02-04R	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E10B1C01	12/14/99	02-04R	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
E11B1C01	12/14/99	02-04R	No	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
E12B1C01	12/14/99	02-04R	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U
E13B1C01	12/14/99	02-04R	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E14B1C01	12/15/99	02-04R	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E15C1C01	12/15/99	01-06R	No	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	41,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U
E16B1C01	12/15/99	02-04R	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E17B1C01	12/15/99	02-04R	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
E18B1C01	12/15/99	02-04R	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E19B1C01	12/15/99	02-04R	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E20B1C01	12/15/99	02-04R	No	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
E21B1C01	12/15/99	02-04R	No	130 U	130 U	130 U	130 U	48 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E22B1C01	12/16/99	02-04R	No	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
E23C1C01	12/16/99	01-06R	No	120 U	120 U	120 U	120 U	49 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E24C1C01dup	12/16/99	01-06R	No	120 U	120 U	120 U	120 U	28 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E25B1C01	12/16/99	02-04R	No	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U
E26B1C01	12/17/99	02-04R	No	100 U	100 U	100 U	100 U	46 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
E27B1C01	12/17/99	02-04R	No	120 U	120 U	120 U	120 U	120 U	240 U	120 U	120 U	120 U	120 U	120 U	120 U
E28C1C01	12/20/99	01-06R	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E29C1C01	12/17/99	01-06R	No	560 U	560 U	560 U	560 U	920 U	230 U	560 U	560 U	560 U	560 U	560 U	560 U
E30C1C01	12/17/99	01-06R	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E30C1C01dup	12/17/99	01-06R	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E31B1C01	12/16/99	02-04R	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E32C1C01	12/16/99	01-06R	No	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
E33C1C01dup	12/16/99	01-06R	No	120 U	120 U	120 U	120 U	56 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E33B1C01	12/20/99	02-04R	No	170 U	170 U	170 U	170 U	48 U	40 U	170 U	170 U	170 U	170 U	170 U	170 U
E34C1C01	12/20/99	01-06R	No	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	1,300 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U
E35C1C01	12/20/99	01-06R	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	490 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E36C1C01	12/21/99	01-06R	No	1,000 U	1,000 U	1,000 U	1,000 U	450 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E37B1C01	01/26/00	02-04R	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E38C1C01	12/21/99	01-06R	No	1,400 U	1,400 U	1,400 U	1,400 U	510 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
E39C1C01	01/26/00	01-06R	No	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U
E40B1C01	12/21/99	02-04R	No	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U
E41B1C01	12/21/99	02-04R	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	270 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E42B1C01	12/21/99	02-04R	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E43C1C01	12/21/99	01-06R	No	160 U	160 U	160 U	160 U	160 U	370 U	160 U	160 U	160 U	160 U	160 U	160 U
E43C1C01dup	12/21/99	01-06R	No	160 U	160 U	160 U	160 U	160 U	450 U	160 U	160 U	160 U	160 U	160 U	160 U
E44B1C01	12/22/99	02-04R	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
E45B1C01	12/22/99	02-04R	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
E46B1C01	12/22/99	02-04R	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E47B1C01	02/01/00	02-04R	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
E52C1C01	12/22/99	01-06R	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U
E53C1C01	12/22/99	01-06R	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E53C1C01dup	12/22/99	01-06R	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U

APPENDIX E  
TABLE E-17  
VOLATILE ORGANIC COMPOUNDS (VOCs)  
Subsurface Soil Analytical Summary - Area E  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Soil	Surface	2-Hexanone	4-Chloro- benzene	4-Isopropyl- toluene	4-Methyl-2- nitrobenzene	Acetone	Benzene	Bromo- benzene	Bromo-chloro- methane	Bromo- dichloro- methane	Bromoform	Dibrom- methane	Chlorob- Diquinid
E54B1C01	02/01/00	02-04R	No	No	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
E55B1C01	02/01/00	02-04R	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
E57B1C01	02/02/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E58C1C01	01/04/00	04-06R	No	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U
E59C1C01	01/04/00	04-06R	No	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U
E61B1C01	01/20/00	02-04R	No	No	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U
E62B1C01	01/20/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E64B1C01	02/02/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E65B1C01	01/21/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E66B1C01	01/21/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E67B1C01	01/21/00	02-04R	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
E68B1C01	01/20/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E69B1C01	01/20/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E70B1C01	01/20/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E71B1C01	01/20/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E72B1C01	01/20/00	02-04R	No	No	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
E73B1C01	01/20/00	02-04R	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
E74B1C01	01/21/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E75B1C01	01/19/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E76B1C01	01/19/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E77B1C01	01/25/00	02-04R	No	No	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U
E78B1C01	01/25/00	02-04R	No	No	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U
E79B1C01	01/25/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E80B1C01	01/19/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E81B1C01	01/21/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E82C1C01	01/24/00	04-06R	No	No	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U
E83B1C01	01/21/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E84B1C01	01/19/00	02-04R	No	No	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
E85B1C01	01/19/00	02-04R	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
E86B1C01	01/19/00	02-04R	No	No	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
E87B1C01	01/19/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E88B1C01	01/19/00	02-04R	No	No	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U
E89B1C01	01/24/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E90B1C01	01/25/00	02-04R	No	No	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
E91B1C01	01/25/00	02-04R	No	No	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
E92C1C01	03/07/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E93C1C01	03/07/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E93C1C01dup	03/07/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U

Notes:  
All results in micrograms per kilogram (µg/kg)  
U - Compound not detected above  
method reporting limit presented  
J - Estimated concentrations  
E - Estimated concentration; calibration range  
exceeded  
D - Analytic concentration obtained from dilution  
R - Data reflected due to QC violation  
\*\* - Sample not listed.  
[1] - Multiple analysis of sample conducted;  
result presented is the highest detected or  
lowest quantitation limit for constituent

**VOLATILE ORGANIC COMPOUNDS (VOCs)**  
 Subsurface Soil Analytical Summary - Area E  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Short	Surface	Carbon Tetrachloride	Chloro benzene	Chloro ethane	Chloroform	Chloro methane	Dichloro ethane	1,1,1,3,3,3-Hexachloro ethane	Dibromo chloro methane	Dibromo methane	Dichloro ethane	Ethylbenzene	Benz chloro butadiene
E01C1C01	12/11/99	04-06ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
E02C1C01	12/13/99	04-06ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
E03B1C01	12/13/99	02-04ft	No	No	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
E04D1C01	12/13/99	06-08ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
E08B1C01	12/14/99	02-04ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E09B1C01	12/14/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E10B1C01	12/14/99	02-04ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
E11B1C01	12/14/99	02-04ft	No	No	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
E12B1C01	12/14/99	02-04ft	No	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U
E13B1C01	12/14/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E14B1C01	12/15/99	02-04ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E15C1C01	12/15/99	04-06ft	No	No	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U
E16B1C01	12/15/99	02-04ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E17B1C01	12/15/99	02-04ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
E18B1C01	12/15/99	02-04ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E19B1C01	12/15/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E20B1C01	12/15/99	02-04ft	No	No	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
E21B1C01	12/16/99	02-04ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E22B1C01	12/16/99	02-04ft	No	No	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
E23C1C01	12/16/99	04-06ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E23C1C01dup	12/16/99	04-06ft	No	No	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U
E24B1C01	12/16/99	02-04ft	No	No	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
E25B1C01	12/17/99	02-04ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E26B1C01	12/17/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E27B1C01	12/20/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E28C1C01	12/20/99	04-06ft	No	No	560 U	560 U	560 U	560 U	560 U	560 U	560 U	560 U	560 U	560 U	560 U	560 U
E29C1C01	12/17/99	04-06ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E30C1C01	12/17/99	04-06ft	No	No	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
E30C1C01dup	12/17/99	04-06ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
E31B1C01	12/16/99	02-04ft	No	No	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U
E32C1C01	12/16/99	04-06ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E33B1C01	12/20/99	04-06ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E34C1C01	12/20/99	04-06ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E35C1C01	12/20/99	04-06ft	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
E36C1C01	12/21/99	02-04ft	No	No	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U
E37B1C01	01/25/00	02-04ft	No	No	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U
E38C1C01	12/21/99	04-06ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E39C1C01	01/25/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E40B1C01	12/21/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E41B1C01	12/21/99	02-04ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
E42B1C01	12/21/99	04-06ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
E43C1C01dup	12/21/99	04-06ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
E44B1C01	12/22/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E45B1C01	12/22/99	02-04ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
E46B1C01	12/22/99	02-04ft	No	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U
E48B1C01	02/01/00	02-04ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E52C1C01	12/22/99	04-06ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E53C1C01	12/22/99	04-06ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E53C1C01dup	12/22/99	04-06ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U

APPENDIX E  
 TABLE E-17  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area E  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	Carbon Tetrachloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	1,1-Dichloro-ethene	1,1,1-Trichloro-ethene	Dibromo-chloro-methane	Dibromo-methane	Dichloro-difluoro-methane	Ethylbenzene	Benz-chloro-benzidene
E54B1C01	02/01/00	02-04R	No	No	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
E57B1C01	02/02/00	02-04R	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
E58C1C01	01/04/00	04-06R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E59C1C01	01/04/00	04-06R	No	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U
E61B1C01	01/20/00	02-04R	No	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U
E62B1C01	01/20/00	02-04R	No	No	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U
E64B1C01	02/02/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E65B1C01	02/02/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E66B1C01	01/21/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E67B1C01	01/21/00	02-04R	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
E68B1C01	01/20/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E69B1C01	01/20/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E70B1C01	01/20/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E71B1C01	01/20/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E72B1C01	01/20/00	02-04R	No	No	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
E73B1C01	01/20/00	02-04R	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
E74B1C01	01/21/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E75B1C01	01/19/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E76B1C01	01/19/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E77B1C01	01/25/00	02-04R	No	No	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U
E78B1C01	01/28/00	02-04R	No	No	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U
E79B1C01	01/25/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E80B1C01	01/19/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E81B1C01	01/21/00	02-04R	No	No	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U
E82C1C01	01/24/00	04-06R	No	No	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U
E83B1C01	01/21/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E84B1C01	01/19/00	02-04R	No	No	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
E85B1C01	01/19/00	02-04R	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
E86B1C01	01/19/00	02-04R	No	No	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
E87B1C01	01/19/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E88B1C01	01/19/00	02-04R	No	No	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U
E89B1C01	01/24/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E90B1C01	01/25/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E91B1C01	01/25/00	02-04R	No	No	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
E92C1C01	03/07/00	04-06R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E93C1C01	03/07/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E93C1C01 dup	03/07/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U

Notes:  
 All results in micrograms per kilogram (µg/kg)  
 U - Compounded not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded.  
 D - Analytic concentration obtained from dilution.  
 R - Data rejected due to QC violation  
 \* - Sample not tested.  
 (1) - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantifiable limit for constituent.

**VOLATILE ORGANIC COMPOUNDS (VOCs)**  
 Subsurface Soil Analytical Summary - Area E  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	Iodomethane	Isopropyl benzene	Methyl tert-butyl ether	Methyl Ethyl Chloride	n-Butylbenzene	n-Propyl benzene	Naphthalene
Locations Greater Than 100 Feet from Shore											
E01C1C01	12/11/99	04-06ft	No	No	170 U	170 U	170 U	200 U	170 U	170 U	90 U
E02C1C01	12/13/99	04-06ft	No	No	150 U	150 U	150 U	230 U	150 U	150 U	720 U
E03B1C01	12/13/99	02-04ft	No	No	200 U	200 U	200 U	350 U	200 U	200 U	71 U
E04D1C01	12/13/99	06-08ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	75 U
E08B1C01	12/14/99	02-04ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	41 U
E09B1C01	12/14/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	41 U
E10B1C01	12/14/99	02-04ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	51 U
E11B1C01	12/14/99	02-04ft	No	No	190 U	190 U	190 U	190 U	190 U	190 U	110 U
E12B1C01	12/14/99	02-04ft	No	No	220 U	220 U	220 U	220 U	220 U	220 U	150 U
E14B1C01	12/15/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	410 U
E15C1C01	12/15/99	04-06ft	No	No	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	380 U
E16B1C01	12/15/99	02-04ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	37 U
E17B1C01	12/15/99	02-04ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U
E18B1C01	12/15/99	02-04ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E19B1C01	12/15/99	02-04ft	No	No	180 U	180 U	180 U	180 U	180 U	180 U	180 U
E20B1C01	12/15/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	240 U
E21B1C01	12/16/99	02-04ft	No	No	180 U	180 U	180 U	180 U	180 U	180 U	180 U
E22B1C01	12/16/99	02-04ft	No	No	100 U	100 U	100 U	100 U	100 U	100 U	100 U
E23C1C01	12/16/99	04-06ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E24C1C01dup	12/16/99	04-06ft	No	No	96 U	96 U	96 U	96 U	96 U	96 U	96 U
E24B1C01	12/16/99	02-04ft	No	No	100 U	100 U	100 U	50 U	100 U	100 U	100 U
E25B1C01	12/17/99	02-04ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	26 U
E26B1C01	12/17/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E28C1C01	12/17/99	04-06ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E29C1C01	12/17/99	04-06ft	No	No	560 U	400 U	560 U	320 U	290 U	230 U	12,000 U
E30C1C01	12/17/99	04-06ft	No	No	120 U	120 U	120 U	51 U	120 U	120 U	120 U
E30C1C01dup	12/17/99	04-06ft	No	No	120 U	120 U	120 U	47 U	120 U	120 U	120 U
E31B1C01	12/16/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E32C1C01	12/16/99	04-06ft	No	No	110 U	110 U	110 U	110 U	110 U	110 U	110 U
E32C1C01dup	12/16/99	04-06ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E33B1C01	12/20/99	02-04ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	52 U
E34C1C01	12/20/99	04-06ft	No	No	3,200 U	760 U	3,200 U	3,200 U	3,200 U	2,500 U	390,000 U
E35C1C01	12/20/99	04-06ft	No	No	1,300 U	3,200 U	1,300 U	1,300 U	1,300 U	1,300 U	180,000 U
E36C1C01	12/21/99	04-06ft	No	No	1,100 U	1,000 U	1,100 U	1,200 U	1,100 U	440 U	24,000 U
E37B1C01	01/26/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E38C1C01	12/21/99	04-06ft	No	No	1,400 U	3,700 U	1,400 U	1,200 U	1,400 U	1,400 U	250,000 U
E39C1C01	01/26/00	02-04ft	No	No	6,400 U	2,200 U	6,400 U	6,400 U	6,400 U	1,800 U	200,000 U
E40B1C01	12/21/99	02-04ft	No	No	670 U	670 U	670 U	670 U	670 U	670 U	260 U
E41B1C01	12/21/99	02-04ft	No	No	1,100 U	1,400 U	1,100 U	600 U	1,100 U	290 U	90,000 U
E42B1C01	12/21/99	02-04ft	No	No	140 U	61 U	140 U	35 U	140 U	140 U	300 U
E43C1C01	12/21/99	04-06ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	510 U
E43C1C01dup	12/21/99	04-06ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	2,300 U
E44B1C01	12/22/99	02-04ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	180 U
E45B1C01	12/22/99	02-04ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U
E46B1C01	12/22/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E48B1C01	02/01/03	02-04ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U
E53C1C01	12/22/99	04-06ft	No	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U
E53C1C01dup	12/22/99	04-06ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	170 U
E53C1C01dup	12/22/99	04-06ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	150 U

APPENDIX E  
TABLE E-17  
VOLATILE ORGANIC COMPOUNDS (VOCs)  
Subsurface Soil Analytical Summary - Area E  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Residual Solids	Surf Gas	Iodine	Propyl Benzene	Diethyl Benzene	Methyl Chloride	n-Butane	n-Propyl Benzene	Naphthalene
E5481C01	02/01/00	02-04R	No	No	970 U	980 U	970 U	970 U	970 U	970 U	970 U
E5781C01	02/02/00	02-04R	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U
E581C01	02/02/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E591C01	01/04/00	04-06R	No	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U
E601C01	01/04/00	04-06R	No	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U
E611C01	01/20/00	02-04R	No	No	920 U	920 U	920 U	920 U	920 U	920 U	920 U
E621C01	01/20/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E631C01	02/02/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E641C01	01/21/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E651C01	01/21/00	02-04R	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U
E661C01	01/21/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E671C01	01/21/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E681C01	01/20/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E691C01	01/20/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E701C01	01/20/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E711C01	01/20/00	02-04R	No	No	890 U	890 U	890 U	890 U	890 U	890 U	890 U
E721C01	01/20/00	02-04R	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U
E731C01	01/20/00	02-04R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E741C01	01/21/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E751C01	01/19/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E761C01	01/19/00	02-04R	No	No	900 U	900 U	900 U	900 U	900 U	900 U	900 U
E771C01	01/25/00	02-04R	No	No	860 U	860 U	860 U	860 U	860 U	860 U	860 U
E781C01	01/28/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E791C01	01/25/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E801C01	01/19/00	02-04R	No	No	900 U	900 U	900 U	900 U	900 U	900 U	900 U
E811C01	01/21/00	02-04R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E821C01	01/24/00	04-06R	No	No	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
E831C01	01/21/00	02-04R	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
E841C01	01/19/00	02-04R	No	No	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
E851C01	01/19/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E861C01	01/19/00	02-04R	No	No	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U
E871C01	01/19/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E881C01	01/19/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E891C01	01/24/00	02-04R	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E901C01	01/25/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E911C01	01/25/00	02-04R	No	No	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
E921C01	03/07/00	04-06R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E931C01	03/07/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E931C01 dup	03/07/00	04-06R	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U

Notes:  
All results in micrograms per kilogram (µg/kg)  
U - Compound not detected above method reporting limit presented  
J - Estimated concentration  
E - Estimated concentration; calibration range exceeded.  
D - Analyte concentration obtained from dilution.  
R - Data rejected due to QC violation  
\*- Sample not tested.  
[1] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.

APPENDIX E  
TABLE E-17  
VOLATILE ORGANIC COMPOUNDS (VOCs)  
Subsurface Soil Analytical Summary - Area E  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	sec-Butyl- benzene	Styrene	tert-Butyl- benzene	Tetrahydro- ethene	Toluene	1,2- Dichloro- ethane	trans-1,2- Dichloro- propane	Trichloro- ethane	Trichloro- ethylene	Vinyl acetate	Vinyl Chloride	Xylene (Total)
E01C1C01	12/11/99	04-06ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
E02C1C01	12/13/99	04-06ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
E03B1C01	12/13/99	02-04ft	No	No	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
E04D1C01	12/13/99	06-08ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
E08B1C01	12/14/99	02-04ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E09B1C01	12/14/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E10B1C01	12/14/99	02-04ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
E11B1C01	12/14/99	02-04ft	No	No	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
E12B1C01	12/14/99	02-04ft	No	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U
E13B1C01	12/14/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E14B1C01	12/15/99	02-04ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E15C1C01	12/15/99	04-06ft	No	No	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	16,000 U	21,000 U
E16B1C01	12/15/99	02-04ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E17B1C01	12/15/99	02-04ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
E18B1C01	12/15/99	02-04ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E19B1C01	12/15/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E20B1C01	12/15/99	02-04ft	No	No	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
E21B1C01	12/15/99	02-04ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E22B1C01	12/16/99	02-04ft	No	No	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
E23C1C01dup	12/16/99	04-06ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E24B1C01	12/16/99	02-04ft	No	No	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U	96 U
E25B1C01	12/17/99	02-04ft	No	No	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
E26B1C01	12/17/99	02-04ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E27B1C01	12/20/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E28C1C01	12/20/99	04-06ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E29C1C01	12/17/99	04-06ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E30C1C01	12/17/99	04-06ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E30C1C01dup	12/17/99	04-06ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E31B1C01	12/16/99	02-04ft	No	No	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
E32C1C01	12/16/99	04-06ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E32C1C01dup	12/16/99	04-06ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
E33B1C01	12/20/99	02-04ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
E34C1C01	12/20/99	04-06ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	210,000 U
E35C1C01	12/20/99	04-06ft	No	No	650 U	650 U	650 U	650 U	650 U	650 U	650 U	650 U	650 U	650 U	650 U	14,000 U
E36C1C01	12/21/99	04-06ft	No	No	320 U	320 U	320 U	320 U	320 U	320 U	320 U	320 U	320 U	320 U	320 U	360 U
E37B1C01	01/26/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E38C1C01	12/21/99	04-06ft	No	No	650 U	650 U	650 U	650 U	650 U	650 U	650 U	650 U	650 U	650 U	650 U	2,000 U
E39C1C01	01/26/00	04-06ft	No	No	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	1,600 U	60,000 U
E40B1C01	12/21/99	02-04ft	No	No	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U	670 U
E41B1C01	12/21/99	02-04ft	No	No	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U	9,700 U
E42B1C01	12/21/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E43C1C01	12/21/99	04-06ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	310 U
E43C1C01dup	12/21/99	04-06ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	570 U
E44B1C01	12/22/99	02-04ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	48 U
E45B1C01	12/22/99	02-04ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
E46B1C01	12/22/99	02-04ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
E48B1C01	02/01/00	02-04ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
E52C1C01	12/22/99	04-06ft	No	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U
E53C1C01	12/22/99	04-06ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
E53C1C01dup	12/22/99	04-06ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U

APPENDIX E  
 TABLE E-17  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area E  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	sec-Butyl benzene	Styrene	tert-Butyl benzene	Tetrachloro ethene	Toluene	trans-1,2-Dichloro ethane	trans-1,3-Dichloro propane	Trichloro ethane	Trichloro fluoro-methane	Vinyl acetate	Vinyl Chloride	Xylenes (Total)
E54B1C01	02/01/00	02-04ft	No	No	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
E55B1C01	02/02/00	02-04ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
E57B1C01	02/02/00	02-04ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E58C1C01	01/04/00	04-06ft	No	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U
E59C1C01	01/04/00	04-06ft	No	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U
E61B1C01	01/20/00	02-04ft	No	No	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U	970 U
E62B1C01	01/20/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E64B1C01	02/02/00	02-04ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E65B1C01	01/21/00	02-04ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E66B1C01	01/21/00	02-04ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E67B1C01	01/21/00	02-04ft	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
E68B1C01	01/20/00	02-04ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E69B1C01	01/20/00	02-04ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E70B1C01	01/20/00	02-04ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E71B1C01	01/20/00	02-04ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E72B1C01	01/20/00	02-04ft	No	No	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U	890 U
E73B1C01	01/20/00	02-04ft	No	No	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U	940 U
E74B1C01	01/21/00	02-04ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E75B1C01	01/19/00	02-04ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E76B1C01	01/19/00	02-04ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E77B1C01	01/25/00	02-04ft	No	No	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U
E78B1C01	01/28/00	02-04ft	No	No	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U	860 U
E79B1C01	01/25/00	02-04ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E80B1C01	01/19/00	02-04ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E81B1C01	01/21/00	02-04ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E82C1C01	01/24/00	04-06ft	No	No	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U	900 U
E83B1C01	01/21/00	02-04ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E84B1C01	01/19/00	02-04ft	No	No	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
E85B1C01	01/19/00	02-04ft	No	No	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
E86B1C01	01/19/00	02-04ft	No	No	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
E87B1C01	01/19/00	02-04ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E88B1C01	01/19/00	02-04ft	No	No	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U
E89B1C01	01/24/00	02-04ft	No	No	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U	1,300 U
E90B1C01	01/25/00	02-04ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
E91B1C01	01/25/00	02-04ft	No	No	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
E92C1C01	03/07/00	04-06ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
E93C1C01	03/07/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
E93C1C01dup	03/07/00	04-06ft	No	No	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration page exceeded.  
 D - Analytic concentration obtained from dilution.  
 R - Data rejected due to QC violation  
 \* - Sample not tested.  
 [ ] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.





APPENDIX E  
 TABLE E-18  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area F  
 Providence Gas Company  
 641 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	1,1,1,2-Tetrachloro-ethane	1,1,1,2-Trichloroethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1,1,2-Trichloro-ethane	1,1,2,2-Dichloro-propene	1,1,2-Trichloro-benzene	1,2,3-Trichloro-propene	1,2,4-Trichloro-benzene	1,2,4-Trimethyl-benzene
F47C1(C01)	01/13/00	04-06R	No	No	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	610 U
F48C1(C01)	01/13/00	04-06R	No	No	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
F49C1(C01)	01/13/00	04-06R	No	No	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
F50D1(C01)	01/13/00	06-08R	No	No	3,200 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U
F51D1(C01)	01/13/00	06-08R	No	No	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	13,000 U
F52B1(C01)	01/19/00	02-04R	No	No	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U
F53B1(C01)	01/19/00	02-04R	No	No	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U
F54C1(C01)	01/19/00	04-06R	No	No	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U
F55B1(C01)	01/19/00	02-04R	No	No	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
F56C1(C01)	01/19/00	04-06R	No	No	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
F56C1(C01)dup	01/19/00	04-06R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
F57B1(C01)	01/19/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
F58C1(C01)	03/07/00	04-06R	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
F59C1(C01)	03/07/00	04-06R	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
F60C1(C01)	03/07/00	04-06R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U

Notes:  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above  
 method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range  
 exceeded.  
 D - Analyte concentration obtained from dilution.  
 R - Data rejected due to QC violation  
 \*\* - Sample not tested.  
 (1) - Multiple analysis of sample conducted;  
 result presented is the highest detected or  
 or lowest quantitation limit for constituent.



APPENDIX E  
 TABLE E-18  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area F  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	1,1-Dichloro-ethane	1,2-Dichloro-ethane	1,1-Dibromo-ethane	1,1-Dichloro-benzene	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	1,2-Dichloro-propane	1-Bromo-naphthalene
F47C1C01	01/13/00	04-06R	No	No	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U
F48C1C01	01/13/00	04-06R	No	No	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
F49C1C01	01/13/00	04-06R	No	No	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
F50D1C01	01/13/00	06-08R	No	No	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U
F51D1C01	01/11/00	06-08R	No	No	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U
F52B1C01	01/19/00	02-04R	No	No	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U
F53B1C01	01/19/00	02-04R	No	No	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U
F54C1C01	01/21/00	04-06R	No	No	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U
F55B1C01	01/19/00	02-04R	No	No	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
F56C1C01	01/19/00	04-06R	No	No	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
F56C1C01dup	01/19/00	04-06R	No	No	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
F57B1C01	01/19/00	02-04R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
F58C1C01	03/07/00	04-06R	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
F59C1C01	03/07/00	04-06R	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
F60C1C01	03/07/00	04-06R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded  
 D - Analyte concentration obtained from dilution  
 R - Data rejected due to QC violation  
 -- Sample not tested  
 [1] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.

APPENDIX E  
 TABLE E-18  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area F  
 Providence Gas Company  
 641 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	1-Chlorobenzene	1,1-Dichloroethene	1,1,1-Trichloroethene	1,2-Dichloroethene	1,1,2,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	1,1,2,2,3-Pentachloroethane	1,1,1,2,2-Pentachloroethane	Acetone	Benzene	Bromo-benzene	Bromo-chloro-methane	Bromo-dichloro-methane
F01C101	01/04/00	04-06ft	No	No	160	160	160	160	160	160	160	160	160	160	160	160	160
F02C101	01/04/00	04-06ft	No	No	170	170	170	170	170	170	170	170	170	170	170	170	170
F03C101	01/04/00	04-06ft	No	No	150	150	150	150	150	150	150	150	51	52	53	150	150
F04C101	01/04/00	08-10ft	No	No	140	140	140	140	140	140	140	140	140	140	140	140	140
F05C101	01/04/00	06-08ft	No	No	130	130	130	130	130	130	130	130	130	130	130	130	130
F06C101	01/04/00	08-10ft	No	No	130	130	130	130	130	130	130	130	130	130	130	130	130
F07C101	01/05/00	08-10ft	No	No	190	190	190	190	190	190	190	190	49	4,600	190	190	190
F08C101	01/05/00	08-10ft	No	No	160	160	160	160	160	160	160	160	35	160	160	160	160
F09C101	01/05/00	06-08ft	No	No	140	140	140	140	140	140	140	140	38	140	140	140	140
F10C101	01/06/00	06-08ft	No	No	120	120	120	120	120	120	120	120	55	120	120	120	120
F11C101	01/06/00	08-10ft	No	No	190	190	190	190	190	190	190	190	190	190	190	190	190
F12C101	01/06/00	08-10ft	No	No	210	210	210	210	210	210	210	210	110	210	210	210	210
F13C101	01/06/00	06-08ft	No	No	190	190	190	190	190	190	190	190	190	190	190	190	190
F14C101	01/06/00	06-08ft	No	No	230	230	230	230	230	230	230	230	230	230	230	230	230
F15C101	01/06/00	04-06ft	No	No	180	180	180	180	180	180	180	180	180	180	180	180	180
F16C101	01/06/00	04-06ft	No	No	200	200	200	200	200	200	200	200	200	200	200	200	200
F17C101	01/07/00	04-06ft	No	No	220	220	220	220	220	220	220	220	220	220	220	220	220
F18C101	01/07/00	04-06ft	No	No	210	210	210	210	210	210	210	210	210	210	210	210	210
F19C101	01/07/00	04-06ft	No	No	260	260	260	260	260	260	260	260	260	260	260	260	260
F20C101	01/07/00	08-10ft	No	No	240	240	240	240	240	240	240	240	240	240	240	240	240
F21C101	01/07/00	04-06ft	No	No	270	270	270	270	270	270	270	270	270	270	270	270	270
F22C101	01/07/00	08-10ft	No	No	240	240	240	240	240	240	240	240	240	240	240	240	240
F23C101	01/07/00	08-10ft	No	No	140	140	140	140	140	140	140	140	140	140	140	140	140
F24C101	01/07/00	08-10ft	No	No	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
F25C101	01/07/00	08-10ft	No	No	960	960	960	960	960	960	960	960	960	960	960	960	960
F26C101	02/02/00	08-10ft	No	No	120	120	120	120	120	120	120	120	120	120	120	120	120
F27C101	02/02/00	08-10ft	No	No	210	210	210	210	210	210	210	210	210	210	210	210	210
F28C101	01/10/00	04-06ft	No	No	160	160	160	160	160	160	160	160	160	160	160	160	160
F29C101	01/09/00	04-06ft	No	No	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300
F30C101	02/02/00	08-10ft	No	No	280	280	280	280	280	280	280	280	280	280	280	280	280
F31C101	01/11/00	04-06ft	No	No	170	170	170	170	170	170	170	170	170	170	170	170	170
F32C101	01/11/00	04-06ft	No	No	150	150	150	150	150	150	150	150	150	150	150	150	150
F33C101	01/11/00	04-06ft	No	No	220	220	220	220	220	220	220	220	220	220	220	220	220
F34C101	01/11/00	04-06ft	No	No	140	140	140	140	140	140	140	140	140	140	140	140	140
F35C101	01/12/00	04-06ft	No	No	300	300	300	300	300	300	300	300	300	300	300	300	300
F36C101	01/12/00	04-06ft	No	No	150	150	150	150	150	150	150	150	150	150	150	150	150
F37C101	01/12/00	04-06ft	No	No	140	140	140	140	140	140	140	140	140	140	140	140	140
F38C101	01/12/00	04-06ft	No	No	220	220	220	220	220	220	220	220	220	220	220	220	220
F39C101	01/12/00	02-04ft	No	No	200	200	200	200	200	200	200	200	200	200	200	200	200
F40C101	01/12/00	04-06ft	No	No	200	200	200	200	200	200	200	200	200	200	200	200	200
F41C101	01/12/00	04-06ft	No	No	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600
F42C101	01/12/00	04-06ft	No	No	330	330	330	330	330	330	330	330	330	330	330	330	330
F43C101	01/12/00	04-06ft	No	No	210	210	210	210	210	210	210	210	210	210	210	210	210
F44C101	01/12/00	04-06ft	No	No	210	210	210	210	210	210	210	210	210	210	210	210	210
F45C101	01/12/00	04-06ft	No	No	210	210	210	210	210	210	210	210	210	210	210	210	210
F46C101	01/12/00	04-06ft	No	No	210	210	210	210	210	210	210	210	210	210	210	210	210
F47C101	01/12/00	04-06ft	No	No	210	210	210	210	210	210	210	210	210	210	210	210	210
F48C101	01/12/00	04-06ft	No	No	210	210	210	210	210	210	210	210	210	210	210	210	210

APPENDIX E  
 TABLE E-18  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area F  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No	Collection Date	Sample Depth	Shut	Surfice	1-Chloroethyl vinyl ether	1,2-Dichloro ethane	1,1,1-Trichloro ethane	1,1,2,2-Tetrachloro ethane	1,1,1,2-Tetrachloro ethane	1,1,2,2,3-Pentachloro ethane	1,1,1,2,2-Pentachloro ethane	Bromo benzene	Bromo-chloro methane	Bromo-dichloro methane
F17C1C01	01/13/00	04-06ft	No	No	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U
F18C1C01	01/13/00	04-06ft	No	No	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
F19C1C01	01/13/00	04-06ft	No	No	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
F20C1C01	01/13/00	04-08ft	No	No	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U
F21C1C01	01/17/00	06-08ft	No	No	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U
F22C1C01	01/19/00	02-04ft	No	No	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U
F23C1C01	01/19/00	02-04ft	No	No	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U
F24C1C01	01/21/00	04-06ft	No	No	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U
F25C1C01	01/19/00	02-04ft	No	No	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
F26C1C01dup	01/19/00	04-06ft	No	No	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
F27C1C01	01/19/00	02-04ft	No	No	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
F28C1C01	01/19/00	04-06ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
F29C1C01	01/07/00	04-06ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
F30C1C01	01/07/00	04-06ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
F31C1C01	01/07/00	04-06ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U

Notes:  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded.  
 D - Analyte concentration obtained from dilution.  
 R - Data rejected due to QC violation  
 \*\* - Sample not tested.  
 [ ] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.

**VOLATILE ORGANIC COMPOUNDS (VOCs)**  
**Subsurface Soil Analytical Summary - Area F**  
 Providence Gas Company  
 647 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	Bromoform	Bromo-methane	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloro-toluene	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethane	cis-1,2-Dichloro-propene	Dibromo-chloro-methane	Dibromo-methane
<b>Locations Greater Than 100 Feet from Shore</b>																
F01C1C01	01/04/00	04-06ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
F02C1C01	01/04/00	04-06ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
F03C1C01	01/04/00	04-06ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
F04E1C01	01/05/00	08-10ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
F05D1C01	01/04/00	06-08ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
F06E1C01	01/04/00	08-10ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
F07E1C01	01/05/00	08-10ft	No	No	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
F08E1C01	01/05/00	08-10ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
F09D1C01	01/05/00	06-08ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
F10E1C01	01/05/00	08-10ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
F11D1C01	01/06/00	06-08ft	No	No	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
F12E1C01	01/06/00	08-10ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
F13E1C01	01/06/00	08-10ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
F14D1C01	01/06/00	06-08ft	No	No	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
F15D1C01	01/06/00	06-08ft	No	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U
F16D1C01	01/06/00	04-06ft	No	No	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
F17C1C01	01/06/00	04-06ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
F18C1C01	01/06/00	04-06ft	No	No	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
F19C1C01	01/07/00	04-06ft	No	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U
F20C1C01	01/07/00	04-06ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
F21C1C01	01/07/00	04-06ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
F22E1C01	01/07/00	08-10ft	No	No	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U
F23C1C01	01/07/00	04-06ft	No	No	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U
F24E1C01	01/07/00	08-10ft	No	No	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U
F25E1C01	01/07/00	08-10ft	No	No	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U
F26E1C01	01/07/00	08-10ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
F27E1C01	02/02/00	08-10ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
F28E1C01	02/02/00	08-10ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
F29E1C01	02/02/00	08-10ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
F30D1C01	01/10/00	06-08ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
F31E1C01	01/10/00	04-06ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
F32E1C01	02/02/00	08-10ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
F33C1C01	01/07/00	04-06ft	No	No	280 U	280 U	280 U	280 U	280 U	280 U	280 U	280 U	280 U	280 U	280 U	280 U
F34C1C01	01/11/00	04-06ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
F35C1C01	01/11/00	04-06ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
F36C1C01	01/11/00	04-06ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
F37C1C01	01/11/00	04-06ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
F38C1C01	01/11/00	04-06ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
F39C1C01	01/12/00	04-06ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
F40B1C01	01/12/00	02-04ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
F41C1C01	01/12/00	04-06ft	No	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U
F42C1C01	01/12/00	04-06ft	No	No	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
F43C1C01	01/12/00	04-06ft	No	No	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
F44C1C01	01/12/00	04-06ft	No	No	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
F45C1C01	01/13/00	04-06ft	No	No	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U
F46C1C01	01/12/00	04-06ft	No	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U
F46C1C01.dup	01/12/00	04-06ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U

APPENDIX E  
 TABLE E-18  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area F  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	Bromoform	Bromo-nethane	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethane	cis-1,3-Dichloro-propene	Phloro-chloro-methane	Dibromo-methane
F47C1C01	01/11/00	04-06ft	No	No	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U
F48C1C01	01/13/00	04-06ft	No	No	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
F49C1C01	01/13/00	04-06ft	No	No	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
F50C1C01	01/13/00	06-08ft	No	No	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U
F51D1C01	01/11/00	06-08ft	No	No	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U
F52B1C01	01/19/00	02-04ft	No	No	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U
F53B1C01	01/19/00	02-04ft	No	No	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U
F54C1C01	01/21/00	04-06ft	No	No	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U
F55B1C01	01/19/00	02-04ft	No	No	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
F56C1C01	01/19/00	04-06ft	No	No	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
F56C1C01dep	01/19/00	04-06ft	No	No	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
F57B1C01	01/19/00	02-04ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
F58C1C01	03/07/00	04-06ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
F59C1C01	03/07/00	04-06ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
F60C1C01	03/07/00	04-06ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compounds not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded  
 D - Analyte concentration obtained from dilution  
 R - Data rejected due to QC violation  
 -- Sample not tested  
 [1] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.



VOLATILE ORGANIC COMPOUNDS (VOCs)  
Subsurface Soil Analytical Summary - Area F  
Providence Gas Company  
647 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	Dichloro- dihydro- methane	Ethylbenzene	Isoprene- Benzolene	Iodomethane	Isopropyl- benzene	Methyl tert- butyl ether	Methylene Chloride	n-Butyl- benzene	p-Tolyl- benzene	Naphthalene
Locations Greater Than 100 Feet from Shore														
F01C1C01	01/04/00	04-06ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
F02C1C01	01/04/00	04-06ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
F03C1C01	01/04/00	04-06ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
F04E1C01	01/04/00	08-10ft	No	No	140 U	2,700 U	140 U	140 U	2,100 U	140 U	47 U	950 U	1,100 U	13,000 EB
F05D1C01	01/04/00	06-08ft	No	No	130 U	63 U	130 U	130 U	130 U	130 U	200 U	130 U	130 U	440 U
F06E1C01	01/04/00	08-10ft	No	No	130 U	38 U	130 U	130 U	130 U	130 U	160 U	190 U	46 U	140,000 EB
F07E1C01	01/04/00	08-10ft	No	No	190 U	210 U	190 U	190 U	190 U	190 U	160 U	160 U	160 U	190 U
F08E1C01	01/04/00	08-10ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	90 U
F09D1C01	01/05/00	06-08ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	39 U	140 U	140 U	140 U
F10E1C01	01/05/00	08-10ft	No	No	130 U	120 U	130 U	130 U	130 U	130 U	120 U	120 U	120 U	120 U
F11D1C01	01/06/00	06-08ft	No	No	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
F12E1C01	01/06/00	08-10ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
F13E1C01	01/06/00	06-08ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	52 U
F14D1C01	01/06/00	06-08ft	No	No	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
F15D1C01	01/06/00	06-08ft	No	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	610 U
F16D1C01	01/06/00	06-08ft	No	No	180 U	180 U	180 U	180 U	180 U	180 U	66 U	180 U	180 U	76 U
F17C1C01	01/06/00	04-06ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	45 U	210 U	210 U	210 U
F18C1C01	01/06/00	04-06ft	No	No	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	300 U
F19C1C01	01/07/00	04-06ft	No	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U
F20C1C01	01/07/00	04-06ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
F21C1C01	01/07/00	04-06ft	No	No	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U
F22E1C01	01/07/00	08-10ft	No	No	240 U	970 U	240 U	240 U	1,600 U	240 U	240 U	240 U	240 U	240 U
F23C1C01	01/07/00	08-10ft	No	No	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U
F24E1C01	01/07/00	08-10ft	No	No	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U
F25E1C01	01/07/00	08-10ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
F26E1C01	02/02/00	08-10ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
F27E1C01	02/02/00	08-10ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
F28E1C01	02/02/00	08-10ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
F29E1C01	02/02/00	08-10ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
F30D1C01	01/10/00	06-08ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
F31C1C01	01/10/00	04-06ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
F32E1C01	02/02/00	08-10ft	No	No	280 U	280 U	280 U	280 U	280 U	280 U	280 U	280 U	280 U	280 U
F33C1C01	01/07/00	04-06ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
F34C1C01	01/11/00	04-06ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
F34C1C01dup	01/11/00	04-06ft	No	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U
F35C1C01	01/11/00	04-06ft	No	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U
F36C1C01	01/11/00	04-06ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
F37C1C01	01/12/00	04-06ft	No	No	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U
F38C1C01	01/12/00	04-06ft	No	No	130 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
F39C1C01	01/12/00	04-06ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
F40B1C01	01/12/00	02-04ft	No	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	4,500 U
F41C1C01	01/12/00	04-06ft	No	No	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	460 U
F42C1C01	01/12/00	04-06ft	No	No	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
F43C1C01	01/12/00	04-06ft	No	No	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
F44C1C01	01/12/00	04-06ft	No	No	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	47,000 U
F45C1C01	01/13/00	04-06ft	No	No	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U
F46C1C01	01/13/00	04-06ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
F46C1C01dup	01/13/00	04-06ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U

APPENDIX E  
TABLE E-18

VOLATILE ORGANIC COMPOUNDS (VOCs)  
Subsurface Soil Analytical Summary - Area F  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	Dichloro- difluoro- methane	Ethylbenzene	1,1,2,2-tetrachloro- ethane	1,1,1,2-tetrachloro- ethane	1,1,2-trichloro- ethane	1,2-dichloro- ethane	1,1,1-trichloro- ethane	1,1,2-trichloro- ethane	1,1,1,2-tetrachloro- ethane	1,1,2,2-tetrachloro- ethane	1,1,1,2,2-pentachloro- ethane	1,1,1,2,2-pentachloro- ethane	1,1,1,2,2-pentachloro- ethane	1,1,1,2,2-pentachloro- ethane	1,1,1,2,2-pentachloro- ethane
F47C1C01	01/13/00	04-06R	No	No	2,200 U	670 J	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U
F48C1C01	01/13/00	04-06R	No	No	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
F49D1C01	01/13/00	04-06R	No	No	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
F51D1C01	01/11/00	06-08R	No	No	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U
F52B1C01	01/19/00	02-04R	No	No	3,400 U	1,400 J	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U
F53B1C01	01/19/00	02-04R	No	No	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U
F54C1C01	01/21/00	04-06R	No	No	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U
F55B1C01	01/19/00	02-04R	No	No	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U
F56C1C01	01/19/00	04-06R	No	No	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
F56C1C01dup	01/19/00	04-06R	No	No	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
F57B1C01	01/19/00	02-04R	No	No	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
F58C1C01	03/07/00	04-06R	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
F59C1C01	03/07/00	04-06R	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
F60C1C01	03/07/00	04-06R	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
F61C1C01	03/07/00	04-06R	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U

Notes:

- All results in micro gram per kilogram (µg/kg)
- U - Compound not detected above method reporting limit presented
- J - Estimated concentration
- E - Estimated concentration, calibration range exceeded.
- D - Analyte concentration obtained from dilution.
- R - Data rejected due to QC violation.
- \*\* - Sample not tested.
- [ ] - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent.

642-1000  
Area F

VOLATILE ORG. COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area F  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	sec-Butyl-Benzene	Styrene	tert-Butyl-Benzene	Tetrahydro-siloxane	Toluene	trans-1,2-Dichloro-ethylene	trans-1,1-Dichloro-propene	Trichloro-siloxane	Trichloro-methane	Vinyl acetate	Vinyl Chloride	Xylenes (Total)
Locations Greater Than 100 Feet from Shore																
F01C1C01	01/04/00	04-06ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
F02C1C01	01/04/00	04-06ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
F03C1C01	01/04/00	04-06ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
F04E1C01	01/04/00	08-10ft	No	No	460 U	140 U	140 U	140 U	74 U	140 U	140 U	140 U	140 U	140 U	140 U	1,700 U
F05D1C01	01/04/00	06-08ft	No	No	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	54 U
F06E1C01	01/04/00	08-10ft	No	No	190 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	45 U	130 U	110 U	38 U
F07E1C01	01/05/00	08-10ft	No	No	190 U	1,200 U	190 U	190 U	4,000 U	190 U	190 U	190 U	190 U	190 U	190 U	5,300 U
F08D1C01	01/05/00	08-10ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
F09D1C01	01/05/00	06-08ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
F10E1C01	01/05/00	08-10ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
F11D1C01	01/06/00	06-08ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
F12E1C01	01/06/00	08-10ft	No	No	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
F13E1C01	01/06/00	08-10ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	190 U
F14D1C01	01/06/00	06-08ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
F15D1C01	01/06/00	06-08ft	No	No	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
F16D1C01	01/06/00	06-08ft	No	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U
F17C1C01	01/06/00	04-06ft	No	No	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
F18C1C01	01/06/00	04-06ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
F19C1C01	01/07/00	04-06ft	No	No	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
F20C1C01	01/07/00	04-06ft	No	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U
F21C1C01	01/07/00	04-06ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
F22E1C01	01/07/00	08-10ft	No	No	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U
F23C1C01	01/07/00	04-06ft	No	No	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U
F24E1C01	01/07/00	08-10ft	No	No	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U
F25E1C01	01/07/00	08-10ft	No	No	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U
F26E1C01	02/02/00	08-10ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
F27E1C01	02/02/00	08-10ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
F28E1C01	02/02/00	08-10ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U
F29E1C01	01/10/00	08-10ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
F30D1C01	01/10/00	06-08ft	No	No	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
F31C1C01	01/10/00	04-06ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
F32E1C01	02/02/00	08-10ft	No	No	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
F33C1C01	01/07/00	04-06ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
F34C1C01	01/11/00	04-06ft	No	No	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U
F35C1C01	01/11/00	04-06ft	No	No	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
F36C1C01	01/11/00	04-06ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
F37C1C01	01/12/00	04-06ft	No	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U
F38C1C01	01/12/00	04-06ft	No	No	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U	230 U
F39C1C01	01/12/00	04-06ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
F40B1C01	01/12/00	02-04ft	No	No	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U
F41C1C01	01/12/00	04-06ft	No	No	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
F42C1C01	01/12/00	04-06ft	No	No	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
F43C1C01	01/12/00	04-06ft	No	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U
F44C1C01	01/12/00	04-06ft	No	No	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
F45C1C01	01/12/00	04-06ft	No	No	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
F46C1C01	01/12/00	04-06ft	No	No	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U	4,600 U
F47C1C01	01/12/00	04-06ft	No	No	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U
F48C1C01	01/12/00	04-06ft	No	No	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U

APPENDIX E  
 TABLE E-18  
 VOLATILE ORGANIC COMPOUNDS (VOCs)  
 Subsurface Soil Analytical Summary - Area F  
 Providence Gas Company  
 6412 Allenz Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Shore	Surface	sec-Butyl- benzene	Styrene	tert-Butyl- benzene	Tetrachloro- ethene	Toluene	trans-1,2- Dichloro- ethene	trans-1,2- Dichloro- Propane	Trichloro- ethene	Trichloro- ethane	Trichloro- fluoromethane	Vinyl acetate	Vinyl Chloride	Xylenes (Total)
F421C01	01/13/00	04-06ft	No	No	2,200 U	2,200 U	2,200 U	2,200 U	450 J	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U	1,700 U
F49C1C01	01/13/00	04-06ft	No	No	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
F50D1C01	01/13/00	04-06ft	No	No	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
F51D1C01	01/13/00	06-08ft	No	No	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U
F52B1C01	01/19/00	06-08ft	No	No	5,400 U	4,700 U	5,400 U	5,400 U	20,000 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	5,400 U	30,000 U
F53B1C01	01/19/00	02-04ft	No	No	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U
F54C1C01	01/21/00	04-06ft	No	No	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U	1,700 U
F55B1C01	01/19/00	02-04ft	No	No	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U	29,000 U
F56C1C01	01/19/00	04-06ft	No	No	1,900 U	1,900 U	1,900 U	1,900 U	740 J	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	528 U
F56C1C01dup	01/19/00	04-06ft	No	No	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
F57B1C01	01/19/00	02-04ft	No	No	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U	1,200 U
F58C1C01	03/07/00	04-06ft	No	No	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U	960 U
F59C1C01	03/07/00	04-06ft	No	No	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U	980 U
F60C1C01	03/07/00	04-06ft	No	No	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U	1,100 U

Notes:  
 All results in micrograms per kilogram (ug/kg)  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded  
 D - Analyte concentration obtained from dilution  
 R - Data rejected due to QC violation  
 \* - Sample not tested  
 (1) - Multiple analysis of sample conducted; result presented is the highest detected or lowest quantitation limit for constituent

**POLYCHLORINATED BIIPHENYLS (PCBs)**  
Subsurface Soil Analytical Summary - Area A  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
<b>Locations Within 100 Ft of Shore</b>									
A01C101	02/03/00	04-06ft	280	280	280	280	280	280	280
A02C101	02/03/00	04-06ft	270	270	270	270	270	270	270
A03E101	03/02/00	08-10ft	270	270	270	270	270	270	270
A04C101	03/02/00	04-06ft	240	240	240	240	240	240	240
A05D101	03/02/00	06-08ft	290	290	290	290	290	290	290
A06D101	03/03/00	06-08ft	270	270	270	270	270	270	270
A07D101	03/03/00	06-08ft	260	260	260	260	260	260	260
A08D101	03/03/00	06-08ft	270	270	270	270	270	270	270
A09E101	02/04/00	08-10ft	280	280	280	280	280	280	280
A10D101	02/04/00	06-08ft	270	270	270	270	270	270	270
A11D101	02/04/00	06-08ft	260	260	260	260	260	260	260
A12E101	03/03/00	08-10ft	250	250	250	250	250	250	250
A13E101	03/03/00	08-10ft	240	240	240	240	240	240	240
A14C101	02/03/00	04-06ft	300	300	300	300	300	300	300
A15B101	02/03/00	02-04ft	260	260	260	260	260	260	260
A15B1C01dup	02/03/00	02-04ft	260	260	260	260	260	260	260
A16D101	02/03/00	06-08ft	250	250	250	250	250	250	250
A17B101	02/03/00	02-04ft	250	250	250	250	250	250	250
A18C101	02/03/00	04-06ft	260	260	260	260	260	260	260
A19D101	02/04/00	06-08ft	280	280	280	280	280	280	280
A22C101	02/08/00	04-06ft	280	280	280	280	280	280	280
A23C101	02/08/00	04-06ft	260	260	260	260	260	260	260
A24D101	02/09/00	06-08ft	280	280	280	280	280	280	280
A25D101	02/08/00	06-08ft	250	250	250	250	250	250	250
A26D101	02/08/00	06-08ft	270	270	270	270	270	270	270
A27C101	02/08/00	04-06ft	250	250	250	250	250	250	250
A27C101dup	02/08/00	04-06ft	260	260	260	260	260	260	260
A71C101	02/25/00	04-06ft	250	250	250	250	250	250	250
A72E101	02/25/00	08-10ft	260	260	260	260	260	260	260
A73D101	02/25/00	06-08ft	240	240	240	240	240	240	240
A74E101	02/25/00	08-10ft	260	260	260	260	260	260	260
<b>Locations Greater than 100 Ft of Shore</b>									
A28C101	02/08/00	04-06ft	270	270	270	270	270	270	270
A29D101	02/09/00	06-08ft	260	260	260	260	260	260	260
A30E101	02/09/00	08-10ft	240	240	240	240	240	240	240
A31D101	02/08/00	06-08ft	260	260	260	260	260	260	260
A32E101	02/09/00	08-10ft	310	310	310	310	310	310	310
A33C101	02/08/00	04-06ft	250	250	250	250	250	250	250
A34C101	02/08/00	04-06ft	260	260	260	260	260	260	260
A35C101	02/08/00	04-06ft	260	260	260	260	260	260	260
A36E101	02/08/00	08-10ft	250	250	250	250	250	250	250
A37C101	02/17/00	04-06ft	240	240	240	240	240	240	240
A38E101	02/09/00	08-10ft	240	240	240	240	240	240	240
A40F101	02/08/00	10-12ft	240	240	240	240	240	240	240
A42E101	02/09/00	08-10ft	250	250	250	250	250	250	250
A43C101	02/17/00	04-06ft	250	250	250	250	250	250	250
A44C101	02/17/00	04-06ft	250	250	250	250	250	250	250

APPENDIX E  
 TABLE E-19  
 POLYCHLORINATED BIPHENYLS (PCBs)  
 Subsurface Soil Analytical Summary - Area A  
 Providence Gas Company  
 647 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1247	Aroclor-1248	Aroclor-1254	Aroclor-1260
A44C1C01dup	02/17/00	04-06R	230 U	230 U	230 U	230 U	230 U	230 U	230 U
A45E1C01	02/09/00	06-10R	240 U	240 U	240 U	240 U	240 U	240 U	240 U
A46E1C01	02/10/00	08-10R	230 U	230 U	230 U	230 U	230 U	230 U	230 U
A47G1C01	02/09/00	12-14R	260 U	260 U	260 U	260 U	260 U	260 U	260 U
A48C1C01	02/09/00	04-06R	260 U	260 U	260 U	260 U	260 U	260 U	260 U
A49G1C01	02/17/00	12-14R	230 U	230 U	230 U	230 U	230 U	230 U	230 U
A50E1C01	02/23/00	08-10R	260 U	260 U	260 U	260 U	260 U	260 U	260 U
A51D1C01	02/23/00	06-08R	280 U	280 U	280 U	280 U	280 U	280 U	280 U
A52D1C01	02/09/00	06-08R	230 U	230 U	230 U	230 U	230 U	230 U	230 U
A53D1C01	02/09/00	06-08R	260 U	260 U	260 U	260 U	260 U	260 U	260 U
A54E1C01	02/10/00	08-10R	250 U	250 U	250 U	250 U	250 U	250 U	250 U
A55D1C01	02/09/00	06-08R	260 U	260 U	260 U	260 U	260 U	260 U	260 U
A55D1C01dup	02/09/00	06-08R	250 U	250 U	250 U	250 U	250 U	250 U	250 U
A56C1C01	02/09/00	04-06R	270 U	270 U	270 U	270 U	270 U	270 U	270 U
A57E1C01	02/23/00	08-10R	260 U	260 U	260 U	260 U	260 U	260 U	260 U
A58C1C01	02/29/00	04-06R	230 U	230 U	230 U	230 U	230 U	230 U	230 U
A59C1C01	02/29/00	04-06R	250 U	250 U	250 U	250 U	250 U	250 U	250 U
A60C1C01	02/29/00	04-06R	270 U	270 U	270 U	270 U	270 U	270 U	270 U
A61C1C01	02/29/00	04-06R	240 U	240 U	240 U	240 U	240 U	240 U	240 U
A62D1C01	02/23/00	06-08R	260 U	260 U	260 U	260 U	260 U	260 U	260 U
A63B1C01	02/29/00	02-04R	280 U	280 U	280 U	280 U	280 U	280 U	280 U
A64C1C01	02/29/00	04-06R	260 U	260 U	260 U	260 U	260 U	260 U	260 U
A64C1C01dup	02/29/00	04-06R	250 U	250 U	250 U	250 U	250 U	250 U	250 U
A65C1C01	02/29/00	04-06R	260 U	260 U	260 U	260 U	260 U	260 U	260 U
A66D1C01	02/29/00	06-08R	270 U	270 U	270 U	270 U	270 U	270 U	270 U
A67C1C01	02/23/00	04-06R	270 U	270 U	270 U	270 U	270 U	270 U	270 U
A68E1C01	02/23/00	08-10R	250 U	250 U	250 U	250 U	250 U	250 U	250 U
A69D1C01	02/23/00	06-08R	250 U	250 U	250 U	250 U	250 U	250 U	250 U
A70D1C01	02/23/00	06-08R	260 U	260 U	260 U	260 U	260 U	260 U	260 U

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 Pesticides not analyzed in subsurface soils  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded  
 B - Analyte detected in associated method blank  
 R - Data rejected due to QC violations  
 D - Analyte concentration obtained from dilution  
 P - Analyte has a greater than 40% difference between the two GC columns.

**POLYCHLORINATED BIPHENYLS (PCBs)**  
Subsurface Soil Analytical Summary - Area B  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
<b>Locations Within 100 Ft of Shore</b>									
B07C1C01	01/27/00	04-06ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B08C1C01	01/27/00	04-06ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U
B09B1C01	01/27/00	02-04ft	270 U	270 U	270 U	270 U	270 U	270 U	270 U
B17C1C01	01/31/00	04-06ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B18C1C01	01/27/00	04-06ft	280 U	280 U	280 U	280 U	280 U	280 U	280 U
B20C1C01	01/31/00	04-06ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B21C1C01	01/31/00	04-06ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U
B22C1C01	01/31/00	04-06ft	230 U	230 U	230 U	230 U	230 U	230 U	230 U
B23C1C01	01/31/00	04-06ft	240 U	240 U	240 U	240 U	240 U	240 U	240 U
B24D1C01	02/01/00	06-08ft	240 U	240 U	240 U	240 U	240 U	240 U	240 U
B25C1C01	02/01/00	04-06ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U
B26C1C01	02/03/00	04-06ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
<b>Locations Greater than 100 Ft of Shore</b>									
B01C1C01	01/27/00	04-06ft	240 U	240 U	240 U	240 U	240 U	240 U	240 U
B02B1C01	01/27/00	02-04ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U
B03B1C01	01/27/00	02-04ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B04B1C01	01/27/00	02-04ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U
B05B1C01	01/27/00	02-04ft	290 U	290 U	290 U	290 U	290 U	290 U	290 U
B06B1C01	01/27/00	02-04ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B10B1C01	01/27/00	02-04ft	280 U	280 U	280 U	280 U	280 U	280 U	280 U
B11B1C01	01/27/00	02-04ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B12C1C01	01/27/00	04-06ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B13B1C01	01/27/00	02-04ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B14B1C01	01/27/00	02-04ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B19B1C01	01/27/00	02-04ft	270 U	270 U	270 U	270 U	270 U	270 U	270 U
B27C1C01	02/22/00	04-06ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U
B28E1C01	02/23/00	08-10ft	230 U	250 U	250 U	250 U	250 U	250 U	250 U
B29G1C01	03/02/00	12-14ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B30E1C01	03/01/00	08-10ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B31C1C01	03/01/00	04-06ft	270 U	270 U	270 U	270 U	270 U	270 U	270 U
B32D1C01	03/01/00	06-08ft	270 U	270 U	270 U	270 U	270 U	270 U	270 U
B33E1C01	03/01/00	08-10ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U
B34E1C01	02/23/00	08-10ft	270 U	270 U	270 U	270 U	270 U	270 U	270 U
B35E1C01	02/22/00	08-10ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U
B36C1C01	02/22/00	04-06ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B37E1C01	03/02/00	08-10ft	380 U	380 U	380 U	380 U	380 U	380 U	380 U
B38C1C01	02/22/00	04-06ft	240 U	240 U	240 U	240 U	240 U	240 U	240 U
B38C1C01dup	02/22/00	04-06ft	270 U	270 U	270 U	270 U	270 U	270 U	270 U
B39D1C01	03/01/00	06-08ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B40C1C01	03/01/00	04-06ft	270 U	270 U	270 U	270 U	270 U	270 U	270 U
B41C1C01	03/01/00	04-06ft	290 U	290 U	290 U	290 U	290 U	290 U	290 U

APPENDIX E  
TABLE E-20  
POLYCHLORINATED BIPHENYLS (PCBs)  
Subsurface Soil Analytical Summary - Area B  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Atroclor-1016	Atroclor-1221	Atroclor-1232	Atroclor-1242	Atroclor-1248	Atroclor-1254	Atroclor-1260
B42C1C01	02/22/00	04-06ft	320 U	320 U	320 U	320 U	320 U	320 U	320 U
B43C1C01	02/22/00	04-06ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U
B44E1C01	02/22/00	08-10ft	350 U	350 U	350 U	350 U	350 U	350 U	350 U
B45C1C01	02/22/00	04-06ft	280 U	280 U	280 U	280 U	280 U	280 U	280 U
B46C1C01	02/18/00	04-06ft	270 U	270 U	270 U	270 U	270 U	270 U	270 U
B47C1C01	02/18/00	04-06ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B48B1C01	02/22/00	02-04ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B49E1C01	02/18/00	08-10ft	240 U	240 U	240 U	240 U	240 U	240 U	240 U
B50C1C01	03/07/00	04-06ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B51E1C01	02/18/00	08-10ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U
B52D1C01	02/18/00	06-08ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B53C1C01	02/18/00	04-06ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U
B54B1C01	02/18/00	02-04ft	270 U	270 U	270 U	270 U	270 U	270 U	270 U
B55C1C01	03/02/00	04-06ft	240 U	240 U	240 U	240 U	240 U	240 U	240 U
B56C1C01	03/02/00	04-06ft	280 U	280 U	280 U	280 U	280 U	280 U	280 U
B57C1C01	03/02/00	04-06ft	280 U	280 U	280 U	280 U	280 U	280 U	280 U
B58B1C01	03/02/00	02-04ft	270 U	270 U	270 U	270 U	270 U	270 U	270 U
B59C1C01	02/18/00	04-06ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U
B60C1C01	02/18/00	04-06ft	240 U	240 U	240 U	240 U	240 U	240 U	240 U
B60C1C01dup	02/18/00	04-06ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B61C1C01	02/16/00	04-06ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B62B1C01	02/16/00	02-04ft	280 U	280 U	280 U	280 U	280 U	280 U	280 U
B64B1C01	02/18/00	02-04ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U
B65B1C01	02/18/00	02-04ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
B66C1C01	02/18/00	04-06ft	270 U	270 U	270 U	270 U	270 U	270 U	270 U

- Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 Pesticides not analyzed in subsurface soils  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration; calibration range exceeded  
 B - Analyte detected in associated method blank  
 R - Data rejected due to QC violations  
 D - Analyte concentration obtained from dilution  
 P - Analyte has a greater than 40% difference between the two GC columns.



**POLYCHLORINATED BIPHENYLS (PCBs)**  
Subsurface Soil Analytical Summary - Area C  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Aroclor-1016	Aroclor-1211	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
Locations Greater than 100 Ft of Shore									
C05C1C01	01/11/00	04-06ft	41	41	41	41	41	41	41
C06B1C01	01/11/00	02-04ft	39	39	39	39	39	39	39
C07B1C01	01/11/00	02-04ft	37	37	37	37	37	37	37
C09C1C01	01/11/00	04-06ft	37	37	37	37	37	37	37
C10C1C01	01/11/00	04-06ft	40	40	40	40	40	40	40
C18D1C01	12/13/99	06-08ft	37	37	37	37	37	37	37
C19C1C01	12/13/99	04-06ft	36	36	36	36	36	36	36
C20C1C01	12/14/99	04-06ft	36	36	36	36	36	36	36
C22C1C01	02/15/00	04-06ft	260	260	260	260	260	260	260
C23B1C01	02/15/00	02-04ft	270	270	270	270	270	270	270
C24C1C01	02/15/00	04-06ft	260	260	260	260	260	260	260
C25E1C01	02/24/00	08-10ft	240	240	240	240	240	240	240
C26C1C01	02/15/00	04-06ft	260	260	260	260	260	260	260
C27B1C01	02/15/00	02-04ft	230	230	230	230	230	230	230
C28B1C01	02/15/00	02-04ft	240	240	240	240	240	240	240
C29C1C01	02/15/00	04-06ft	240	240	240	240	240	240	240
C30C1C01	02/24/00	04-06ft	250	250	250	250	250	250	250
C31B1C01	02/16/00	02-04ft	260	260	260	260	260	260	260
C32E1C01	02/15/00	08-10ft	230	230	230	230	230	230	230
C33F1C01	02/24/00	10-12ft	240	240	240	240	240	240	240
C34G1C01	02/24/00	12-14ft	250	250	250	250	250	250	250
C35C1C01	02/15/00	04-06ft	250	250	250	250	250	250	250
C36B1C01	02/16/00	02-04ft	290	290	290	290	290	290	290
C37E1C01	02/15/00	08-10ft	260	260	260	260	260	260	260
C38E1C01	02/24/00	08-10ft	230	230	230	230	230	230	230
C38E1C01dup	02/24/00	08-10ft	240	240	240	240	240	240	240
C39F1C01	02/24/00	10-12ft	250	250	250	250	250	250	250
C40E1C01	02/15/00	08-10ft	240	240	240	240	240	240	240
C41C1C01	02/16/00	04-06ft	240	240	240	240	240	240	240
C42C1C01	02/15/00	04-06ft	280	280	280	280	280	280	280
C43C1C01	02/15/00	04-06ft	230	230	230	230	230	230	230
C44E1C01	02/24/00	08-10ft	230	230	230	230	230	230	230
C45C1C01	02/24/00	04-06ft	240	240	240	240	240	240	240
C46C1C01	02/24/00	04-06ft	240	240	240	240	240	240	240
C47C1C01	02/17/00	04-06ft	240	240	240	240	240	240	240
C48B1C01	02/16/00	02-04ft	250	250	250	250	250	250	250
C49B1C01	02/16/00	02-04ft	260	260	260	260	260	260	260
C50C1C01	02/16/00	04-06ft	260	260	260	260	260	260	260
C51B1C01	02/16/00	02-04ft	240	240	240	240	240	240	240

APPENDIX E  
 TABLE E-21  
 POLYCHLORINATED BIPHENYLS (PCBs)  
 Subsurface Soil Analytical Summary - Area C  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
C32B1C01	02/16/00	02-04ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U
C33B1C01	02/16/00	02-04ft	270 U	270 U	270 U	270 U	270 U	270 U	270 U
C55C1C01	02/16/00	04-06ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
C56C1C01	02/16/00	04-06ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U
C57B1C01	02/16/00	02-04ft	270 U	270 U	270 U	270 U	270 U	270 U	270 U
C58B1C01	02/16/00	02-04ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
C58B1C01dup	02/16/00	02-04ft	290 U	290 U	290 U	290 U	290 U	290 U	290 U
C59B1C01	02/16/00	02-04ft	290 U	290 U	290 U	290 U	290 U	290 U	290 U
C64B1C01	02/11/00	02-04ft	270 U	270 U	270 U	270 U	270 U	270 U	270 U
C65E1C01	02/11/00	06-10ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
C66C1C01	02/11/00	04-06ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U
C67C1C01	02/11/00	04-06ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
C68C1C01	02/17/00	04-06ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
C69B1C01	02/11/00	02-04ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U
C70C1C01	02/11/00	04-06ft	240 U	240 U	240 U	240 U	240 U	240 U	240 U
C71B1C01	02/11/00	02-04ft	240 U	240 U	240 U	240 U	240 U	240 U	240 U
C72B1C01	02/11/00	02-04ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U
C73B1C01	02/11/00	02-04ft	230 U	230 U	230 U	230 U	230 U	230 U	230 U
C74B1C01	02/11/00	02-04ft	240 U	240 U	240 U	240 U	240 U	240 U	240 U
C75E1C01	02/10/00	08-10ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U
C76F1C01	02/10/00	10-12ft	270 U	270 U	270 U	270 U	270 U	270 U	270 U
C76F1C01dup	02/10/00	10-12ft	280 UJ	280 UJ	280 UJ	280 UJ	280 UJ	280 UJ	280 UJ
C77E1C01	02/10/00	08-10ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
C78D1C01	02/09/00	06-08ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
C79E1C01	02/10/00	08-10ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
C80F1C01	02/10/00	10-12ft	230 U	230 U	230 U	230 U	230 U	230 U	230 U
C81E1C01	02/10/00	08-10ft	260 U	260 U	260 U	260 U	260 U	260 U	260 U
C82E1C01	02/10/00	08-10ft	250 U	250 U	250 U	250 U	250 U	250 U	250 U

Notes:  
 All results in micrograms per kilogram (µg/kg)  
 Pesticides not analyzed in subsurface soils  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration; calibration range exceeded  
 B - Analyte detected in associated method blank  
 R - Data rejected due to QC violations  
 D - Analyte concentration obtained from dilution  
 P - Analyte has a greater than 40% difference between the two GC columns.

**POLYCHLORINATED BIPHENYLS (PCBs)**  
 Subsurface Soil Analytical Summary - Area D  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Area:1016	Area:1111	Area:1231	Area:1248	Area:1251	Area:1260
<b>Locations Within 100 Ft of Shore</b>								
D92B1C01	01/28/00	02-04ft	280 U	280 U	280 U	280 U	280 U	280 U
D93C1C01	01/28/00	04-06ft	280 U	280 U	280 U	280 U	280 U	280 U
D94C1C01	01/28/00	04-06ft	260 U	260 U	260 U	260 U	260 U	260 U
<b>Locations Greater than 100 Ft of Shore</b>								
D01C1C01	11/17/99	04-06ft	36 U	36 U	36 U	36 U	36 U	36 U
D02C1C01 (1)	11/17/99	04-06ft	360 U	360 U	360 U	8500 E	360 U	360 U
D03C1C01	11/17/99	04-06ft	36 U	36 U	36 U	36 U	36 U	36 U
D04C1C01	11/17/99	04-06ft	36 U	36 U	36 U	36 U	36 U	36 U
D05C1C01	11/17/99	04-06ft	38 U	38 U	38 U	38 U	38 U	38 U
D06C1C01	11/17/99	04-06ft	36 U	36 U	36 U	43 U	36 U	36 U
D07C1C01	11/17/99	04-06ft	38 U	38 U	38 U	38 U	38 U	38 U
D08C1C01	11/17/99	04-06ft	37 U	37 U	37 U	37 U	37 U	37 U
D08E1C01	11/17/99	08-10ft	36 U	36 U	36 U	130 U	36 U	36 U
D09C1C01	11/17/99	04-06ft	37 U	37 U	37 U	37 U	37 U	37 U
D09E1C01	11/17/99	08-10ft	37 U	37 U	37 U	37 U	37 U	37 U
D10E1C01	11/17/99	08-10ft	36 U	36 U	36 U	36 U	36 U	36 U
D11C1C01	11/18/99	04-06ft	35 U	35 U	35 U	35 U	35 U	35 U
D12C1C01	11/18/99	04-06ft	37 U	37 U	37 U	37 U	37 U	37 U
D13B1C01	11/18/99	08-10ft	35 U	35 U	35 U	35 U	35 U	35 U
D14C1C01	11/18/99	04-06ft	37 U	37 U	37 U	37 U	37 U	37 U
D15C1C01	11/18/99	04-06ft	36 U	36 U	36 U	36 U	36 U	36 U
D16C1C01	11/29/99	04-06ft	39 U	39 U	39 U	39 U	39 U	39 U
D17C1C01	11/29/99	04-06ft	40 U	40 U	40 U	40 U	40 U	40 U
D18C1C01	11/29/99	04-06ft	39 U	39 U	39 U	39 U	39 U	39 U
D19C1C01	11/30/99	04-06ft	38 U	38 U	38 U	38 U	38 U	38 U
D20C1C01	11/30/99	04-06ft	38 U	38 U	38 U	38 U	38 U	38 U
D21B1C01	11/30/99	02-04ft	37 U	37 U	37 U	37 U	37 U	37 U
D22C1C01	11/30/99	04-06ft	36 U	36 U	36 U	36 U	36 U	36 U
D23C1C01	11/30/99	04-06ft	36 U	36 U	36 U	36 U	36 U	36 U
D24C1C01	11/30/99	04-06ft	35 U	35 U	35 U	150 U	35 U	35 U
D25C1C01	12/01/99	04-06ft	36 U	36 U	36 U	36 U	36 U	36 U
D26C1C01	12/01/99	04-06ft	35 U	35 U	35 U	35 U	35 U	35 U
D27C1C01	11/30/99	04-06ft	38 U	38 U	38 U	38 U	38 U	38 U
D28C1C01	12/01/99	04-06ft	35 U	35 U	35 U	35 U	35 U	35 U
D29C1C01	12/01/99	04-06ft	37 U	37 U	37 U	37 U	37 U	37 U
D30C1C01	12/01/99	04-06ft	36 U	36 U	36 U	36 U	36 U	36 U
D31C1C01	12/01/99	04-06ft	35 U	35 U	35 U	35 U	35 U	35 U
D32C1C01	12/01/99	04-06ft	37 U	37 U	37 U	37 U	37 U	37 U
D33C1C01	12/02/99	04-06ft	36 U	36 U	36 U	36 U	36 U	36 U
D34C1C01	12/02/99	04-06ft	35 U	35 U	35 U	35 U	35 U	35 U
D35C1C01	12/02/99	04-06ft	36 U	36 U	36 U	36 U	36 U	36 U
D36C1C01	12/02/99	04-06ft	36 U	36 U	36 U	36 U	36 U	36 U
D37E1C01	12/02/99	08-10ft	37 U	37 U	37 U	37 U	37 U	37 U
D38D1C01	12/03/99	06-08ft	37 U	37 U	37 U	37 U	37 U	37 U
D39E1C01	12/03/99	08-10ft	37 U	37 U	37 U	37 U	37 U	37 U
D40C1C01	12/03/99	04-06ft	37 U	37 U	37 U	37 U	37 U	37 U
D40E1C01	12/03/99	08-10ft	38 U	38 U	38 U	38 U	38 U	38 U
D41C1C01	12/03/99	04-06ft	38 U	38 U	38 U	38 U	38 U	38 U
D42C1C01	12/03/99	04-06ft	36 U	36 U	36 U	36 U	36 U	36 U
D43C1C01	12/03/99	04-06ft	40 U	40 U	40 U	40 U	40 U	40 U
D44C1C01	12/06/99	04-06ft	40 U	40 U	40 U	40 U	40 U	40 U
D45C1C01	12/06/99	04-06ft	36 U	36 U	36 U	36 U	36 U	36 U
D46D1C01	12/06/99	06-08ft	40 U	40 U	40 U	40 U	40 U	40 U
D47C1C01	12/06/99	04-06ft	35 U	35 U	35 U	35 U	35 U	35 U

APPENDIX E  
TABLE E-22

POLYCHLORINATED BIPHENYLS (PCBs)  
Subsurface Soil Analytical Summary - Area D  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Aroclor-1016	Aroclor-1221	Aroclor-1231	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260			
D48D1C01	12/06/99	06-08ft	3900	U	3900	U	40000	JP	3900	U	3900	U
D50E1C01	12/06/99	04-06ft	36	U	36	U	36	U	36	U	36	U
D50E1C01	12/07/99	08-10ft	40	U	40	U	40	U	40	U	40	U
D51C1C01	12/07/99	04-06ft	35	U	35	U	35	U	35	U	35	U
D52C1C01	12/07/99	04-06ft	36	U	36	U	36	U	36	U	36	U
D53C1C01	12/07/99	04-06ft	38	U	38	U	38	U	38	U	38	U
D54C1C01	12/07/99	04-06ft	38	U	38	U	38	U	38	U	38	U
D55E1C01	12/08/99	08-10ft	36	U	36	U	36	U	36	U	36	U
D56D1C01	12/08/99	06-08ft	37	U	37	U	37	U	37	U	37	U
D57B1C01	12/08/99	02-04ft	37	U	37	U	37	U	37	U	37	U
D58D1C01	12/08/99	06-08ft	38	U	38	U	38	U	38	U	38	U
D59C1C01	12/08/99	04-06ft	36	U	36	U	36	U	36	U	36	U
D60B1C01	12/08/99	02-04ft	40	U	40	U	40	U	40	U	40	U
D61D1C01	12/09/99	06-08ft	38	U	38	U	38	U	38	U	38	U
D62E1C01	12/09/99	08-10ft	39	U	39	U	39	U	39	U	39	U
D63D1C01	12/09/99	06-08ft	38	U	38	U	38	U	38	U	38	U
D64C1C01	12/11/99	04-06ft	35	U	35	U	35	U	35	U	35	U
D65C1C01	12/11/99	04-06ft	36	U	36	U	36	U	36	U	36	U
D66B1C01	12/22/99	02-04ft	38	U	38	U	38	U	38	U	38	U
D67C1C01	12/22/99	04-06ft	37	U	37	U	37	U	37	U	37	U
D68C1C01	12/23/99	04-06ft	37	U	37	U	37	U	37	U	37	U
D69C1C01	12/23/99	04-06ft	36	U	36	U	36	U	36	U	36	U
D70B1C01	12/23/99	02-04ft	42	U	42	U	42	U	42	U	42	U
D71D1C01	12/23/99	06-08ft	40	U	40	U	40	U	40	U	40	U
D71D1C01.dup	12/23/99	06-08ft	38	U	38	U	38	U	38	U	38	U
D72B1C01	01/26/00	02-04ft	240	U	240	U	240	U	240	U	240	U
D73B1C01	02/01/00	02-04ft	250	U	250	U	250	U	250	U	250	U
D74C1C01	01/26/00	04-06ft	250	U	250	U	250	U	250	U	250	U
D74C1C01.dup	01/26/00	04-06ft	250	U	250	U	250	U	250	U	250	U
D75C1C01	01/28/00	04-06ft	250	U	250	U	250	U	250	U	250	U
D76B1C01	01/26/00	02-04ft	280	U	280	U	280	U	280	U	280	U
D77B1C01	01/26/00	02-04ft	370	U	370	U	370	U	370	U	370	U
D78B1C01	01/26/00	02-04ft	290	U	290	U	290	U	290	U	290	U
D79B1C01	01/26/00	02-04ft	280	U	280	U	280	U	280	U	280	U
D80B1C01	01/26/00	02-04ft	270	U	270	U	270	U	270	U	270	U
D81B1C01	01/19/00	02-04ft	36	U	36	U	36	U	36	U	36	U
D82C1C01	01/28/00	04-06ft	270	U	270	U	270	U	270	U	270	U
D83C1C01	01/25/00	04-06ft	250	U	250	U	250	U	250	U	250	U
D84C1C01	01/25/00	04-06ft	260	U	260	U	260	U	260	U	260	U
D85C1C01	01/25/00	04-06ft	420	U	420	U	420	U	420	U	420	U
D86B1C01	02/02/00	02-04ft	330	U	330	U	330	U	330	U	330	U
D87C1C01	01/25/00	04-06ft	290	U	290	U	290	U	290	U	290	U
D88B1C01	01/25/00	02-04ft	250	U	250	U	250	U	250	U	250	U
D89B1C01	01/28/00	02-04ft	270	U	270	U	270	U	270	U	270	U
D90B1C01	01/28/00	02-04ft	260	U	260	U	260	U	260	U	260	U
D91B1C01	01/28/00	02-04ft	270	U	270	U	270	U	270	U	270	U
D95C1C01	03/07/00	04-06ft	270	U	270	U	270	U	270	U	270	U

Notes:

- All results in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ )
- Pesticides not analyzed in subsurface soils
- U - Compound not detected above method reporting limit presented
- J - Estimated concentration
- E - Estimated concentration; calibration range exceeded

- B - Analyte detected in associated method blank
- R - Data rejected due to QC violations
- D - Analyte concentration obtained from dilution
- P - Analyte has a greater than 40% difference between the two GC columns.

**POLYCHLORINATED BIPHENYLS (PCBs)**  
Subsurface Soil Analytical Summary - Area E  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Atroclor-1016	Atroclor-1221	Atroclor-1232	Atroclor-1442	Atroclor-1748	Atroclor-1754	Atroclor-1260
<b>Locations Greater than 100 Ft of Shore</b>									
E01C1C01	12/11/99	04-06ft	37	37	37	37	37	37	37
E02C1C01	12/13/99	04-06ft	38	38	38	38	38	38	38
E03B1C01	12/13/99	02-04ft	41	41	41	41	41	41	41
E04D1C01	12/13/99	06-08ft	35	35	35	35	35	35	35
E08B1C01	12/14/99	02-04ft	38	38	38	38	38	38	38
E09B1C01	12/14/99	02-04ft	38	38	38	38	38	38	38
E10B1C01	12/14/99	02-04ft	42	42	42	42	42	42	42
E11B1C01	12/14/99	02-04ft	40	40	40	40	40	40	40
E12B1C01	12/14/99	02-04ft	44	44	44	44	44	44	44
E13B1C01	12/14/99	02-04ft	35	35	35	35	35	35	35
E14B1C01	12/15/99	02-04ft	35	35	35	35	35	35	35
E15C1C01	12/15/99	04-06ft	R	R	R	R	R	R	R
E16B1C01	12/15/99	02-04ft	41	41	41	41	41	41	41
E17B1C01	12/15/99	02-04ft	41	41	41	41	41	41	41
E18B1C01	12/15/99	02-04ft	39	39	39	39	39	39	39
E19B1C01	12/15/99	02-04ft	41	41	41	41	41	41	41
E20B1C01	12/15/99	02-04ft	42	42	42	42	42	42	42
E21B1C01	12/16/99	02-04ft	42	42	42	42	42	42	42
E22B1C01	12/16/99	02-04ft	36	36	36	36	36	36	36
E23C1C01	12/16/99	04-06ft	36	36	36	36	36	36	36
E24B1C01	12/16/99	02-04ft	36	36	36	36	36	36	36
E25B1C01	12/17/99	02-04ft	36	36	36	36	36	36	36
E26B1C01	12/17/99	02-04ft	36	36	36	36	36	36	36
E27B1C01	12/20/99	02-04ft	37	37	37	37	37	37	37
E28C1C01	12/20/99	04-06ft	38	38	38	38	38	38	38
E29C1C01	12/17/99	04-06ft	38	38	38	38	38	38	38
E30C1C01	12/17/99	04-06ft	38	38	38	38	38	38	38
E30C1C01dup	12/17/99	04-06ft	37	37	37	37	37	37	37
E31B1C01	12/16/99	02-04ft	38	38	38	38	38	38	38
E32C1C01	12/16/99	04-06ft	38	38	38	38	38	38	38
E33B1C01	12/20/99	02-04ft	37	37	37	37	37	37	37
E34C1C01	12/20/99	04-06ft	38	38	38	38	38	38	38
E36C1C01	12/21/99	04-06ft	36	36	36	36	36	36	36
E37B1C01	01/26/00	02-04ft	36	36	36	36	36	36	36
E38C1C01	12/21/99	04-06ft	39	39	39	39	39	39	39
E39C1C01	01/26/00	04-06ft	R	R	R	R	R	R	R
E40B1C01	12/21/99	02-04ft	38	38	38	38	38	38	38
E41B1C01	12/21/99	02-04ft	37	37	37	37	37	37	37
E42B1C01	12/21/99	02-04ft	39	39	39	39	39	39	39
E43C1C01	12/21/99	04-06ft	38	38	38	38	38	38	38
E43C1C01dup	12/21/99	04-06ft	39	39	39	39	39	39	39
E44B1C01	12/22/99	02-04ft	38	38	38	38	38	38	38
E45B1C01	12/23/99	02-04ft	37	37	37	37	37	37	37
E46B1C01	12/23/99	02-04ft	36	36	36	36	36	36	36
E48B1C01	02/01/00	02-04ft	270	270	270	270	270	270	270

APPENDIX E  
 TABLE E-23  
 POLYCHLORINATED BIPHENYLS (PCB<sub>s</sub>)  
 Subsurface Soil Analytical Summary - Area E  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
E52C1C01	12/22/99	04-06ft	40	U	40	U	40	U	40
E53C1C01	12/22/99	04-06ft	37	U	37	U	37	U	37
E53C1C01dup	12/22/99	04-06ft	37	U	37	U	37	U	37
E54B1C01	02/01/00	02-04ft	260	U	260	U	260	U	260
E55B1C01	02/01/00	02-04ft	270	U	270	U	270	U	270
E57B1C01	02/02/00	02-04ft	250	U	250	U	250	U	250
E58C1C01	01/04/00	04-06ft	46	U	46	U	46	U	46
E59C1C01	01/04/00	04-06ft	41	U	41	U	41	U	41
E61B1C01	01/20/00	02-04ft	260	U	260	U	260	U	260
E62B1C01	01/20/00	02-04ft	270	U	270	U	270	U	270
E64B1C01	02/02/00	02-04ft	250	U	250	U	250	U	250
E65B1C01	01/21/00	02-04ft	270	U	270	U	270	U	270
E66B1C01	01/21/00	02-04ft	290	U	290	U	290	U	290
E67B1C01	01/21/00	02-04ft	270	U	270	U	270	U	270
E68B1C01	01/20/00	02-04ft	250	U	250	U	250	U	250
E69B1C01	01/20/00	02-04ft	260	U	260	U	260	U	260
E70B1C01	01/20/00	02-04ft	260	U	260	U	260	U	260
E71B1C01	01/20/00	02-04ft	260	U	260	U	260	U	260
E72B1C01	01/20/00	02-04ft	240	U	240	U	240	U	240
E73B1C01	01/20/00	02-04ft	240	U	240	U	240	U	240
E74B1C01	01/21/00	02-04ft	290	U	290	U	290	U	290
E75B1C01	01/19/00	02-04ft	36	U	36	U	36	U	36
E76B1C01	01/19/00	02-04ft	36	U	36	U	120	P	36
E77B1C01	01/25/00	02-04ft	250	U	250	U	250	U	250
E78B1C01	01/28/00	02-04ft	280	U	280	U	280	U	280
E79B1C01	01/25/00	02-04ft	270	U	270	U	270	U	270
E80B1C01	01/19/00	02-04ft	36	U	36	U	36	U	36
E81B1C01	01/21/00	02-04ft	270	U	270	U	270	U	270
E82C1C01	01/24/00	04-06ft	270	U	270	U	270	U	270
E83B1C01	01/21/00	02-04ft	270	U	270	U	270	U	270
E84B1C01	01/19/00	02-04ft	37	U	37	U	37	U	37
E85B1C01	01/19/00	02-04ft	38	U	38	U	38	U	38
E86B1C01	01/19/00	02-04ft	41	U	41	U	41	U	41
E87B1C01	01/19/00	02-04ft	35	U	35	U	35	U	35
E88B1C01	01/19/00	02-04ft	42	U	42	U	42	U	42
E89B1C01	01/24/00	02-04ft	260	U	260	U	260	U	260
E90B1C01	01/25/00	02-04ft	260	U	260	U	260	U	260
E91B1C01	01/25/00	02-04ft	330	U	330	U	330	U	330
E92C1C01	03/07/00	04-06ft	280	U	280	U	280	U	280
E91C1C01	03/07/00	04-06ft	250	U	250	U	250	U	250
E93C1C01dup	03/07/00	04-06ft	260	U	260	U	260	U	260

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 Pesticides not analyzed in subsurface soils  
 U - Compound not detected above method reporting limit presented  
 J - Estimated concentration  
 E - Estimated concentration, calibration range exceeded  
 B - Analyte detected in associated method blank  
 R - Data rejected due to QC violations  
 D - Analyte concentration obtained from dilution  
 P - Analyte has a greater than 40% difference between the two GC columns.

**POLYCHLORINATED BIPHENYLS (PCBs)**  
**Subsurface Soil Analytical Summary - Area F**  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	
<b>Locations Greater than 100 Ft of Shore</b>										
F01C1C01	01/04/00	04-06ft	38	U	38	U	38	U	38	U
F02C1C01	01/04/00	04-06ft	38	U	38	U	38	U	38	U
F03C1C01	01/04/00	04-06ft	38	U	38	U	38	U	38	U
F04E1C01	01/04/00	08-10ft	37	U	37	U	37	U	37	U
F05D1C01	01/04/00	06-08ft	37	U	37	U	37	U	37	U
F06E1C01	01/04/00	08-10ft	37	U	37	U	37	U	37	U
F07E1C01	01/05/00	08-10ft	40	U	40	U	40	U	40	U
F08E1C01	01/05/00	08-10ft	37	U	37	U	37	U	37	U
F09D1C01	01/05/00	06-08ft	38	U	38	U	38	U	38	U
F10E1C01	01/05/00	08-10ft	40	U	40	U	40	U	40	U
F11D1C01	01/06/00	06-08ft	36	U	36	U	36	U	36	U
F12E1C01	01/06/00	08-10ft	40	U	40	U	40	U	40	U
F13E1C01	01/06/00	08-10ft	41	U	41	U	41	U	41	U
F14D1C01	01/06/00	06-08ft	37	U	37	U	37	U	37	U
F15D1C01	01/06/00	06-08ft	38	U	38	U	38	U	38	U
F16D1C01	01/06/00	06-08ft	41	U	41	U	41	U	41	U
F17C1C01	01/06/00	04-06ft	37	U	37	U	37	U	37	U
F18C1C01	01/06/00	04-06ft	40	U	40	U	40	U	40	U
F19C1C01	01/07/00	04-06ft	40	U	40	U	40	U	40	U
F20C1C01	01/07/00	04-06ft	40	U	40	U	40	U	40	U
F21C1C01	01/07/00	04-06ft	39	U	39	U	39	U	39	U
F22E1C01	01/07/00	08-10ft	40	U	40	U	40	U	40	U
F23C1C01	01/07/00	04-06ft	37	U	37	U	37	U	37	U
F24E1C01	01/07/00	08-10ft	40	U	40	U	40	U	40	U
F24E1C01dup	01/07/00	08-10ft	39	U	39	U	39	U	39	U
F25E1C01	01/07/00	08-10ft	36	U	36	U	36	U	36	U
F26E1C01	02/02/00	08-10ft	270	U	270	U	270	U	270	U
F27E1C01	02/02/00	08-10ft	270	U	270	U	270	U	270	U
F28E1C01	02/02/00	08-10ft	270	U	270	U	270	U	270	U
F29E1C01	01/10/00	08-10ft	35	U	35	U	35	U	35	U
F30D1C01	01/07/00	06-08ft	40	U	40	U	40	U	40	U
F31C1C01	01/10/00	04-06ft	38	U	38	U	38	U	38	U
F32E1C01	02/02/00	08-10ft	250	U	250	U	250	U	250	U
F33C1C01	01/07/00	04-06ft	41	U	41	U	41	U	41	U
F34C1C01	01/11/00	04-06ft	38	U	38	U	38	U	38	U
F34C1C01dup	01/11/00	04-06ft	37	U	37	U	37	U	37	U
F35C1C01	01/11/00	04-06ft	35	U	35	U	35	U	35	U

APPENDIX E  
TABLE E-24

POLYCHLORINATED BIPHENYLS (PCBs)  
Subsurface Soil Analytical Summary - Area F  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
F36C1C01	01/11/00	04-06ft	44	U	44	U	44	U	44
F37C1C01	01/12/00	04-06ft	39	U	39	U	39	U	190
F38C1C01	01/12/00	04-06ft	42	U	42	U	42	U	42
F39C1C01	01/12/00	04-06ft	37	U	37	U	1100	U	37
F40B1C01	01/12/00	02-04ft	37	U	37	U	37	U	37
F41C1C01	01/12/00	04-06ft	42	U	42	U	42	U	42
F42C1C01	01/12/00	04-06ft	41	U	41	U	41	U	41
F43C1C01	01/12/00	04-06ft	41	U	41	U	41	U	41
F44C1C01	01/12/00	04-06ft	36	UJ	36	UJ	36	UJ	36
F45C1C01	01/13/00	04-06ft	38	UJ	38	UJ	38	UJ	38
F46C1C01	01/12/00	04-06ft	41	U	41	U	41	U	140
F46C1C01.dup	01/12/00	04-06ft	42	U	42	U	42	U	42
F47C1C01	01/13/00	04-06ft	50	U	50	U	50	U	50
F48C1C01	01/13/00	04-06ft	46	U	46	U	46	U	46
F49C1C01	01/13/00	04-06ft	38	U	38	U	38	U	38
F50D1C01	01/13/00	06-08ft	52	U	52	U	52	U	52
F51D1C01	01/11/00	06-08ft	42	U	42	U	42	U	42
F52B1C01	01/19/00	02-04ft	45	U	45	U	45	U	45
F53B1C01	01/19/00	02-04ft	37	U	37	U	37	U	37
F54C1C01	01/21/00	04-06ft	390	U	390	U	390	U	390
F55B1C01	01/19/00	02-04ft	38	U	38	U	38	U	38
F56C1C01	01/19/00	04-06ft	38	U	38	U	38	U	38
F56C1C01.dup	01/19/00	04-06ft	37	U	37	U	37	U	37
F57B1C01	01/19/00	02-04ft	36	U	36	U	36	U	36
F58C1C01	03/07/00	04-06ft	260	U	260	U	260	U	260
F59C1C01	03/07/00	04-06ft	270	U	270	U	270	U	270
F60C1C01	03/07/00	04-06ft	260	U	260	U	260	U	260

Notes:

- All results in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ )
- Pesticides not analyzed in subsurface soils
- U - Compound not detected above method reporting limit presented
- J - Estimated concentration
- E - Estimated concentration; calibration range exceeded
- B - Analyte detected in associated method blank
- R - Data rejected due to QC violations

- D - Analyte concentration obtained from dilution
- P - Analyte has a greater than 40% difference between the two GC columns.



API DIX F  
TABLE F-1

TOTAL PETROLEUM HYDROCARBONS

Test Pit Soil Analytical Summary

Providence Gas Company

642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Total Petroleum Hydrocarbons
D87 A [1]	09/12/00	4.5	7,730
D87 B [2]	09/12/00	4.5	175
D19 [3]	09/15/00	8.5	4,420
D21 [4]	09/15/00	4.0	89.9
E86 Wet [5]	09/25/00	4.5	1,360
E86 Loose Mat [6]	09/25/00	3.0	211
E86 Mod [7]	09/25/00	4.0	224,000 D
E86 Dense [7]	09/25/00	4.0	112,000 D
Remedial Objective subsurface soil (2-10 ft bgs) more than 100 ft from shore			30,000

**Notes:**

All results in milligrams per kilogram (mg/kg)

D - Analyte concentration obtained from dilution.

[1] GC/FID characteristics were similar to a mixture of weathered diesel fuel and petroleum products in the lubricating oil range.

[2] GC/FID characteristics were similar to a mixture of petroleum products in lubricating oil ranges.

[3] GC/FID characteristics were similar to diesel fuel.

[4] GC/FID characteristics were similar to petroleum hydrocarbons in the fuel oil range.

[5] GC/FID characteristics were similar to a weathered Fuel Oil #6.

[6] GC/FID characteristics were similar to petroleum products in the lubricating oil range.

[7] GC/FID characteristics were similar to coal tar.

APPENDIX F  
TABLE F-2  
VOLATILE ORGANIC COMPOUNDS  
Test Pit Soil Analytical Summary  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Benzene	Ethylbenzene	Methyl tert-Butyl Ether	Toluene	Total Xylenes
E86 Wet	09/25/00	4.5	76.1 U	76.1 U	76.1 U	76.1 U	76.1 U
E86 Loose Mat	09/25/00	3.0	75.3 U	75.3 U	75.3 U	75.3 U	75.3 U
E86 Mod	09/25/00	4.0	326,000 D	42,200 D	10,500 U	417,000 D	658,000 D
E86 Dense	09/25/00	4.0	113,000 D	14,500 D	10,500 D	158,000 D	263,000 D
Remedial Objective subsurface soil (2-10 ft bgs) more than 100 ft from shore			43,000	620,000	100,000	540,000	540,000

**Notes:**

All results in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ )

U - Compound not detected above method reporting limit presented.

D - Analyte concentration obtained from dilution.

API DIX F  
TABLE F-3

POLYCHLORINATED BIPHENYLS (PCBs)  
Test Pit Soil Analytical Summary  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Collection Date	Sample Depth	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
E86 Mod	09/25/00	4.0	120 U	241 U	120 U	120 U	120 U	120 U	120 U
E86 Dense	09/25/00	4.0	120 U	241 U	120 U	120 U	120 U	120 U	120 U
Remedial Objective subsurface soil (2-10 ft bgs) more than 100 ft from shore			10,000	10,000	10,000	10,000	10,000	10,000	10,000

**Notes:**

All results in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ )

Pesticides not analyzed in test pit soils

U - Compound not detected above method reporting limit presented

APPENDIX F  
 TABLE F-4  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Test Pit Soil Analytical Summary  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dichlorobenzene	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene
E86 Loose Mat	09/25/00	3.0	787 U	787 U	787 U	787 U	787 U	787 U	787 U	787 U	787 U	1,610 U	787 U	787 U	787 U	2,010 U
E86 Mod	09/25/00	4.0	55,800 U	55,800 U	55,800 U	55,800 U	55,800 U	55,800 U	55,800 U	480,000 U	55,800 U	55,800 U	55,800 U	55,800 U	55,800 U	3,750,000 D
E86 Dense	09/25/00	4.0	58,500 U	58,500 U	58,500 U	58,500 U	58,500 U	58,500 U	58,500 U	421,000 U	58,500 U	58,500 U	58,500 U	58,500 U	58,500 U	3,540,000 D
Remedial Objective			N/A	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000

**Notes:**  
 All results in micrograms per kilogram (µg/kg)  
 U - Compound not detected above method reporting limit presented  
 D - Analyte concentration obtained from dilution  
 N/A - Remedial Objective was not available for this compound. No Remedial Objective was calculated because the compound was not detected.

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Test Pit Soil Analytical Summary  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	2-Methyl-phenol	2-Nitroanisole	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl phenylether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol	Acetanilide
E86 Loose Mat	09/25/00	3.0	787 U	787 U	787 U	787 U	787 U	787 U	787 U	787 U	787 U	787 U	787 U	787 U	787 U	787 U
E86 Mod	09/25/00	4.0	716,000	55,800 U	55,800 U	55,800 U	55,800 U	55,800 U	55,800 U	55,800 U	55,800 U	55,800 U	1,530,000 D	55,800 U	55,800 U	347,000
E86 Dense	09/25/00	4.0	514,000	58,500 U	58,500 U	58,500 U	58,500 U	58,500 U	58,500 U	58,500 U	58,500 U	58,500 U	1,180,000	58,500 U	58,500 U	323,000
Remedial Objective			10,000,000	2,500	N/A	10,000,000	N/A	N/A	N/A	N/A	10,000,000	N/A	10,000,000	1,020,000	N/A	10,000,000
subsurface soil (2-10 ft bgs) more than 100 ft from shore																

Notes:

- All results in micrograms per kilogram (µg/kg)
- U - Compound not detected above method reporting limit presented
- D - Analytic concentration obtained from dilution.
- N/A - Remedial Objective was not available for this compound. No Remedial Objective was calculated because the compound was not detected.

APPENDIX F  
 TABLE F-4  
 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
 Test Pit Soil Analytical Summary  
 Providence Gas Company  
 642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl) Ether	bis(2-Chloroisopropyl) Ether	bis(2-Ethylhexyl)phthalate
E86 Loose Mat	09/25/00	3.0	1,200	2,150	1,810	1,600	1,080	1,620	787	787	787	787	787	787
E86 Mud	09/25/00	4.0	1,580,000 D	2,370,000 D	1,920,000 D	923,000	894,000	740,000	55,800 U	55,800 U	55,800 U	55,800 U	55,800 U	55,800 U
E86 Dense	09/25/00	4.0	1,280,000 D	2,320,000 D	2,080,000 D	675,000	652,000	369,000	58,500 U	58,500 U	58,500 U	58,500 U	58,500 U	58,500 U
Remedial Objective			10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	N/A	N/A	N/A	10,000,000	N/A	10,000,000
subsurface soil (2-10 ft bgs) more than 100 ft from shore														

**Notes:**

All results in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ )

U - Compound not detected above

method reporting limit presented

D - Analyte concentration obtained from dilution.

N/A - Remedial Objective was not available for this

compound. No Remedial Objective was calculated

because the compound was not detected.

A. XIX F  
TABLE F-4

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)  
Test Pit Soil Analytical Summary  
Providence Gas Company  
642 Allens Avenue, Providence, Rhode Island

Sample No.	Date	Depth	Butylbenzyl- phthalate	Chrysene	Di-n-butyl- phthalate	Di-n-octyl- phthalate	Dibenz(a,h)- anthracene	Dibenzofuran	Diethyl- phthalate	Dimethyl- phthalate	Fluoranthene	Fluorene	Hexachloro- benzene	Hexachloro- butadiene	Hexachloro- cyclo- pentadiene	Hexachloro- ethane
E86 Loose Mat	09/25/00	3.0	787 U	1,950	787 U	787 U	787 U	1,670	787 U	787 U	4,560	2,670	787 U	787 U	787 U	787 U
E86 Mod	09/25/00	4.0	55,800 U	1,970,000 D	55,800 U	55,800 U	205,000	55,800	55,800 U	55,800 U	5,020,000 D	3,220,000 D	55,800 U	55,800 U	55,800 U	72,600
E86 Dense	09/25/00	4.0	58,500 U	2,060,000 D	58,500 U	58,500 U	159,000	2,300,000 D	58,500 U	58,500 U	5,680,000 D	3,560,000 D	58,500 U	58,500 U	58,500 U	58,500 U
Remedial Objective subsurface soil (2-10 ft bgs) more than 100 ft from shore			N/A	10,000,000	N/A	N/A	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	N/A	10,000,000

Notes:

All results in micrograms per kilogram (µg/kg)  
U - Compound not detected above  
method reporting limit presented

D - Analyte concentration obtained from dilution.

N/A - Remedial Objective was not available for this  
compound. No Remedial Objective was calculated  
because the compound was not detected.

**APPENDIX F**  
**TABLE F-4**  
**SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)**  
**Test Pit Soil Analytical Summary**  
**Providence Gas Company**  
**642 Allens Avenue, Providence, Rhode Island**

Sample No.	Date	Depth	Indeno(1,2,3-cd) pyrene	Isophorane	N-Nitroso-dimethyl-propylamine	N-Nitroso-dimethyl-amine	N-Nitroso-diphenyl-amine	Naphthalene	Nitrobenzene	Pentachloro-phenol	Phenanthrene	Phenol	Pyrene
ES6 Loose Mat	09/25/00	3.0	1,030	787 U	787 U	787 U	787 U	4,870	787 U	787 U	7,880	787 U	2,910
ES6 Mid	09/25/00	4.0	382,000	55,800 U	55,800 U	55,800 U	55,800 U	165,000,000 D	55,800 U	55,800 U	8,860,000 D	1,260,000 D	3,480,000 D
ES6 Dease	09/25/00	4.0	279,000	58,500 U	58,500 U	58,500 U	58,500 U	15,200,000 D	58,500 U	58,500 U	9,150,000 D	955,000	3,790,000 D
Remedial Objective subsurface soil (2-10 ft bgs) more than 100 ft from shore			10,000,000	10,000,000	N/A	N/A	10,000,000	5,000,000	N/A	10,000,000	10,000,000	10,000,000	10,000,000

**Notes:**  
 All results in micrograms per kilogram (ug/kg)  
 U - Compound not detected above  
 method reporting limit presented  
 D - Analyte concentration obtained from dilution.  
 N/A - Remedial Objective was not available for this  
 compound. No Remedial Objective was calculated  
 because the compound was not detected.



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# Appendix J – Method 2 Groundwater Derivation for Naphthalene

Project \_\_\_\_\_ Project # \_\_\_\_\_

Location \_\_\_\_\_ Sheet \_\_\_\_\_ of \_\_\_\_\_

Calculated by T. O'Connor Date \_\_\_\_\_

Checked by \_\_\_\_\_ Date \_\_\_\_\_

Title Naphthalene GS Calc

$$C_w = \frac{(C_a)(T)(WS)}{(VP)(MW)(16.04)}$$

Appendix F of Perm Regs  
(copy attached)

$$\textcircled{1} C_a = \text{OSHA PEL} = 50 \frac{\text{mg}}{\text{m}^3} \quad (\text{OSHA web page})$$

To utilize RIDEEM equation we must convert to  $\frac{\text{mg}}{\text{L}}$ 

$$50 \frac{\text{mg}}{\text{m}^3} \times \frac{1 \text{ m}^3}{1000 \text{ L}} = 0.05 \frac{\text{mg}}{\text{L}}$$

$$\textcircled{2} T = \text{Temp of GW. Given by RIDEEM } 293^\circ \text{K}$$

$$\textcircled{3} WS = \text{water solubility} = 0.0031 \text{ g/100 mL (UA web page)}$$

To utilize RIDEEM equation we must convert to  $\frac{\text{mg}}{\text{L}}$ 

$$\frac{0.0031 \text{ g}}{100 \text{ mL}} \times \frac{1000 \text{ mg}}{1 \text{ g}} \times \frac{1000 \text{ mL}}{1 \text{ L}} = 31 \frac{\text{mg}}{\text{L}}$$

$$\textcircled{4} VP = 0.05 \text{ mm Hg (NIOSH & UA web page)}$$

$$\textcircled{5} MW = 128.2 \quad (\text{NIOSH & UA web page})$$



# Computations

Project \_\_\_\_\_ Project # \_\_\_\_\_  
 Location \_\_\_\_\_ Sheet \_\_\_\_\_ of \_\_\_\_\_  
 Calculated by T. O'Connor Date \_\_\_\_\_  
 Checked by \_\_\_\_\_ Date \_\_\_\_\_  
 Title \_\_\_\_\_

$$(6) \quad C_w = \frac{(0.05)(293)(31)}{(0.08)(128.2)(16.04)} = 2.76 \text{ mg/L}$$

Appendix F  
METHOD 2 GB GROUNDWATER OBJECTIVES

Method 2 GB Groundwater Objective Algorithm and Input Parameters:

GB GROUNDWATER OBJECTIVE ALGORITHM:

$$C_w = \frac{(C_a)(T)(WS)}{(VP)(MW)(16.04)}$$

METHOD 2 GB GROUNDWATER OBJECTIVE ALGORITHM AND DEFAULT INPUT PARAMETERS			
TERM	DESCRIPTION	UNITS	VALUE
C <sub>w</sub>	Water Concentration	mg/L	Calculated
C <sub>a</sub>	Air Concentration	mg/L	Chemical Specific PEL*
T	Temperature of groundwater	°K	293
WS	Solubility	mg/L-water	Chemical Specific
VP	Vapor Pressure	mm Hg	Chemical Specific
MW	Molecular Weight	g/mole	Chemical Specific

Permissible Exposure Limit (PEL):

The time-weighted average concentration in air that must not be exceeded during any 8-hour shift of a 40-hour work week.

The PELs were developed by the Occupational Safety and Health Administration (OSHA) to protect workers from "a wide variety of health effects that could cause material impairment of health or functional capacity. This includes protection against catastrophic effects such as cancer, cardiovascular, liver, and kidney damage; lung diseases, as well as more subtle effects resulting in central nervous system damage, narcosis, respiratory effects, and sensory irritation" .

NOTE: The Upper Concentration Limits for GB areas were calculated using the above algorithm and an air concentration C<sub>a</sub> set equal to 10% of the Lower Explosive Limit (10% LEL) which is defined as ten percent (10%) of the concentration of a compound in air below which a flame will not propagate if the mixture is ignited.

# Naphthalene

## Synonyms

- Naphthalin
- Tar camphor
- White tar

**Formula**  $C_{10}H_8$   
**Formula mass** 128.2

## Physical properties.

<b>Melting pt. (°C)</b>	80	<b>Solubility in water</b>	0.003 g/100ml
<b>Boiling pt. (°C)</b>	217.8	<b>Flash point (°C)</b>	79
<b>Specific gravity</b>	1.15	<b>Autoignition temp. (°C)</b>	
<b>V.P. (mm Hg)</b>	0.08	<b>Upper explosive limit (%)</b>	5.9
<b>Vapor density</b>	4.42	<b>Lower explosive limit (%)</b>	0.9

## Registry numbers.

<b>CAS</b>	91-20-3
<b>EINECS</b>	202-049-5
<b>RTECS</b>	QJ0525000
<b>RCRA</b>	U165
<b>UN</b>	1334
<b>UN Guide</b>	<u>133</u>

## NFPA ratings (0-4)

### Health

### Flammability

### Reactivity

## Exposure limits

NIOSH REL: TWA 10 ppm (50 mg/m<sup>3</sup>) ST 15 ppm (75 mg/m<sup>3</sup>)  
 OSHA PEL: TWA 10 ppm (50 mg/m<sup>3</sup>)  
 IDLH 250 ppm

<b>UN Hazard Class</b>	4.1
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## Description.

Colorless to brown solid with an odor of mothballs

**Hazards.**

Strong oxidizers, chromic anhydride. Combustible Solid, but will take some effort to ignite.

# NIOSH Pocket Guide to Chemical Hazards

<b>Naphthalene</b>		CAS 91-20-3	
$C_{10}H_8$		RTECS QJ0525000	
<b>Synonyms &amp; Trade Names</b> Naphthalin, Tar camphor, White tar		<b>DOT ID &amp; Guide</b> 1334 <u>133</u> (crude or refined) 2304 <u>133</u> (molten)	
<b>Exposure Limits</b>	NIOSH REL: TWA 10 ppm (50 mg/m <sup>3</sup> ) ST 15 ppm (75 mg/m <sup>3</sup> )		
	OSHA PEL†: TWA 10 ppm (50 mg/m <sup>3</sup> )		
IDLH 250 ppm See: <u>91203</u>		Conversion 1 ppm = 5.24 mg/m <sup>3</sup>	
<b>Physical Description</b> Colorless to brown solid with an odor of mothballs. [Note: Shipped as a molten solid.]			
MW: 128.2	BP: 424°F	MLT: 176°F	Sol: 0.003%
VP: 0.08 mmHg	IP: 8.12 eV		Sp.Gr: 1.15
Fl.P: 174°F	UEL: 5.9%	LEL: 0.9%	
Combustible Solid, but will take some effort to ignite.			
<b>Incompatibilities &amp; Reactivities</b> Strong oxidizers, chromic anhydride			
<b>Measurement Methods</b> NIOSH <u>1501</u> ; OSHA <u>35</u> See: <u>NMAM</u> or <u>OSHA Methods</u>			
<b>Personal Protection &amp; Sanitation</b> Skin: Prevent skin contact Eyes: Prevent eye contact Wash skin: When contaminated Remove: When wet or contaminated Change: Daily		<b>First Aid (See procedures)</b> Eye: Irrigate immediately Skin: Molten flush immediately/solid-liquid soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately	
<b>Respirator Recommendations NIOSH/OSHA</b> Up to 100 ppm: (APF = 10) Any chemical cartridge respirator with organic vapor cartridge(s) in combination with a dust and mist filter*/(APF = 10) Any supplied-air respirator* Up to 250 ppm: (APF = 25) Any supplied-air respirator operated in a continuous-flow mode*/(APF = 50) Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s) in combination with a high-efficiency particulate filter/(APF = 25) Any powered, air-purifying respirator with organic vapor cartridge(s) in combination with a dust and mist filter*/(APF = 50) Any self-contained breathing apparatus with a full facepiece/(APF = 50) Any supplied-air respirator with a full facepiece Emergency or planned entry into unknown concentrations or IDLH conditions: (APF = 10,000)			

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode/(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

Escape: (APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister having a high-efficiency particulate filter/Any appropriate escape-type, self-contained breathing apparatus

**Exposure Routes** inhalation, skin absorption, ingestion, skin and/or eye contact

**Symptoms** Irritation eyes; headache, confusion, excitement, malaise (vague feeling of discomfort); nausea, vomiting, abdominal pain; irritation bladder; profuse sweating; jaundice; hematuria (blood in the urine), renal shutdown; dermatitis, optical neuritis, corneal damage

**Target Organs** Eyes, skin, blood, liver, kidneys, central nervous system

See also: [INTRODUCTION](#) See [MEDICAL TESTS: 0152](#)





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# Appendix K – Certificates of Analysis on Compact Disc