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FINAL REPORT FOR PARKING LOT REMEDIATION WORK PLAN

Parking Lot Property
685 First Avenue
New York, New York

NYSDEC Voluntary Cleanup Program
Site Number V-00429-2

Prepared By

TRC Engineers, Inc.
New York, New York

TRC Project Nos. 28410-PL05-2440T

July 2004

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PARKING LOT REMEDIATION WORK PLAN

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Professional Engineer's Certification

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685 First Avenue
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I certify that the Remediation at 685 First Avenue, New York, New York was completed in accordance with the Parking Lot Remediation Work Plan, dated December 2002.

It is a violation of New York State Law for any person, unless acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

07/06/04
Date

STATE OF NEW YORK
STEVEN DONALD MEERSMA
076572
LICENSED PROFESSIONAL ENGINEER

Steven Meersma, P.E.
NYS Professional Engineer
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1.0 INTRODUCTION

1.1 Introduction and Project Objectives

This report presents the results of the remediation implemented at the Parking Lot property (the "Site") at 685 First Avenue under the December 2002 Parking Lot Remediation Workplan (RWP). The RWP addressed the remaining areas of concern (AOCs) that had been identified in the sampling undertaken pursuant to the NYSDEC-approved Interim Remedial Measures Work Plan dated July 2001, and Supplements 1 (Oct 2001) and 2 (Oct 2001) (collectively the IRM Work Plans). The RWP required excavation and disposal of volatile organic compound (VOC)- and lead-impacted shallow soil at the Site, continued groundwater monitoring for VOCs, and application of Oxygen Release Compound (ORC®) to VOC-impacted areas of the Site.

The objective of the RWP activities was to ready the Site for unrestricted development for the Contemplated Use (*i.e.,* residential and commercial uses) to a depth which is the top of competent bedrock which ranges from 2 feet to 12 feet bgs ("the Development Depth"), without deed restrictions, institutional or engineering controls or further consents, approvals or authorizations. It was the further objective that following completion of the proposed remediation under the RWP, and subject to any groundwater monitoring that may be required, the Site would be in a condition to be improved to the Development Depth, including installation of pilings to the top of bedrock or caissons and dewatering as necessary, without the need for special (*i.e.,* over and above those which would be required for a site having no Pollution Conditions) worker health and safety protection obligations above the Development Depth.

1.2 Site Setting

The Site occupies 1.1 acres in Midtown Manhattan, where it formerly served as a gasoline filling station and a parking facility for Con Edison maintenance and service vehicles. It lies along the west side of First Avenue between East 39th and East 40th Streets. Figure 1 shows the general site location and surrounding areas.

The area around the Parking Lot contains a mixture of commercial, residential, and industrial establishments. High-rise residential buildings are located to the north, west, and south of the site. A Con Edison substation and underground electric utility easement borders the site on the west. Located on the east side of First Avenue is Con Edison's Waterside Generating Station.

1.3 Site History and Uses

Sanborn maps from 1890 to 1928 show that the Site was originally occupied by buildings of unspecified usage. By 1929, the northeastern portion of the site had been developed with an upholstery and mattress factory, and that facility appears to have remained on the Site until the 1960s. The 1950 Sanborn Map shows a United Parcel Service (UPS) sorting center in the western portion of the Site, and a UPS garage on the southern end of the Site. Four storage tanks are shown at the former UPS facility. A 1970 aerial photograph shows that all former on-site structures had been removed by that date. Since 1980, Con Edison has used the Site as a parking lot.

1.4 Previous Investigations and Remediation

Several environmental investigation and remedial activities have been implemented at this Site. Details describing the prior investigative and remedial activities are provided in TRC's Final Report for Interim Remedial Measures (IRM) Work Plans and Parking Lot Remediation Work Plan, dated December 2002. Copies of full reports related to previous investigations and remediation were submitted to the NYSDEC as part of the *Voluntary Cleanup Program Application, Attachment IV A-1, Parking Lot Property, 685 First Avenue, Manhattan, New York County, New York, January 2001.* The remediation and investigations undertaken by TRC under the IRM Work Plans are outlined below:

1. Installation and sampling of soil and groundwater in test pits and borings to determine the presence of gasoline-related compounds in weathered bedrock.

2. Borehole Geophysics to obtain necessary data for understanding the bedrock aquifer's characteristics (rock fractures and orientation, flow capacity, aperture size and strike).

3. Soil/Weathered Bedrock Remediation to remove the source of VOC contamination in soils and groundwater.

4. Groundwater remediation to reduce levels of dissolved phase gasoline-related compounds in the fractured bedrock aquifer.

5. Receptor Study to evaluate the risk posed to downgradient receptors by gasoline-related vapors potentially migrating from the Site.

6. Soil vapor sampling to establish post-remediation levels of VOCs in the soil gas of the vadose zone soils across the Site.

7. Shallow soil sampling to characterize the urban fill material at the Site and follow-up soil sampling to delineate the extent of lead-impacted urban fill and VOC-impacted urban fill (IRM Sampling).

These activities are described in detail in TRC's Final Report for Interim Remedial Measures (IRM) Work Plans and Parking Lot Remediation Work Plan, dated December 2002.

1.5 Remaining Identified Areas of Concern

After completion of the activities in the IRM Work Plans, the remaining AOCs for the Site were:

- The presence of limited VOC-impacted soil/urban fill to the west of the area where TRC had successfully completed the removal of VOC-impacted soil and weathered bedrock from releases by the former Con Edison USTs,

- Levels of lead above TAGM RSCOs in the urban fill at the Site. Soil sampling results indicated exceedances of lead at various depths and locations across the Site. Lead exceeding TAGM RSCOs was not found in the remaining weathered bedrock at the Site, and

- Levels of dissolved benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl-tert-butyl-ether (MTBE) in the fractured bedrock aquifer at the southeast portion of the Site. Groundwater within the fractured bedrock at the southeast portion of the site has been impacted by dissolved phase gasoline compounds exceeding NYSDEC Class GA Standards or Guidance Values. The source of this groundwater contamination was residual gasoline in the mantle of the contaminated weathered bedrock, which was removed from the Site during implementation of the IRM in early 2002.

As documented in the December 2002 Final Report for IRM Work Plans and RWP, following excavation and removal of petroleum-impacted soil from the Parking Lot property, a limited amount of petroleum-impacted soil remained off-site approximately seven to ten feet beneath the sidewalk at the southeast corner of the Site. Although NYSDEC did not require any remediation of this off-site soil, to eliminate any potential for this residual off-site petroleum-impacted soil to impact future site development, TRC proposed to construct a subsurface slurry (concrete) barrier wall at the southeastern corner of the site. The NYSDEC approved TRC's construction of the barrier wall in a letter dated March 20, 2003 (Appendix J), noting that the NYSDEC was not requiring construction of the barrier wall under the approved RWP.

The Site had one open, 1998 reported spill with the NYSDEC (spill number 98-09889). This spill related to a reported tank failure during the removal of two 4,000-gallon underground tanks

in which two gallons of gasoline were reported to have been released. Appendix J contains NYSDEC documentation for the spill.

The remediation undertaken pursuant to the NYSDEC-approved RWP addressed those remaining AOCs at the Site. Additional groundwater remediation was also implemented based upon the results of quarterly groundwater monitoring. The impacts caused by the reported spill 98-09889 were also fully addressed under the RWP.

2.0 REMEDIATION MEASURES

TRC implemented the remediation measures of the NYSDEC-approved RWP from December 2002 to August 2003. This section of the report discusses the scope and nature of the remedial activities at the site.

2.1 Scope of Remedial Measures

The remedial measures implemented at the Site included the following activities approved under the December 2002 Remediation Work Plan (RWP) and the NYSDEC March 20, 2003 Letter:

- Excavation, transportation, and disposal of lead- and VOC-impacted shallow fill and VOC-impacted weathered bedrock,
- Collection and analysis of end point soil samples to confirm excavation limits,
- Additional placement of a gravel layer above the bedrock and ORC® slurry application at the location of VOC-impacted shallow fill and weathered bedrock excavation,
- Additional ORC® slurry application into the existing IRM-installed gravel layer above the bedrock in the southeastern portion of the Site via 38 Geoprobe® temporary injection points,
- Installation of ORC® socks in six bedrock wells following excavation of VOC–impacted soil and weathered bedrock to enhance the natural attenuation of the residually contaminated fractured bedrock groundwater,
- Monthly groundwater sampling following excavation of VOC-impacted soil and weathered bedrock and ORC® application, and
- Construction of a subsurface concrete barrier wall in the southeastern corner of the Site.

2.2 Soil/Weathered Bedrock Remediation

Prior to initiating soil excavation work, a Health and Safety Plan (HASP) was prepared to govern site activities. A full-time TRC Engineer provided oversight of all the remedial activities and a TRC Health and Safety Officer ensured compliance with health and safety procedures. NYSDEC provided regulatory oversight throughout the remediation.

TRC retained Mazzocchi Wrecking, Inc. of East Hanover, New Jersey to perform remedial excavation activities. Mazzocchi Wrecking supplied all equipment and labor for the project.

The typical crew size for the project consisted of an equipment operator, a supervisor, and three laborers. Equipment used to perform the work consisted of one excavator, a vibratory roller, support trucks, and miscellaneous hand tools and equipment. Site photographs detailing representative remedial activities are presented as Appendix A to this report. The excavation occurred from December 18, 2002 to January 20, 2003. Dewatering was not necessary because groundwater was not encountered in the excavation.

2.2.1 Excavation and Backfilling

The excavation of VOC- and lead-impacted soil was approximately 26,000 square feet, and included remaining fill at the Site, east of the Con Edison utility easement and outside of the area that was successfully remediated during implementation of the IRM, between November 2001 and March 2002. Refer to Figure 2 for the areal extent of the excavation.

VOC-impacted soils were excavated from an area encompassing approximately 600 square feet in the southwest portion of the Site. As shown in Figure 2, this area is to the west of the location where TRC successfully completed remediation of VOC-impacted soil and weathered bedrock during implementation of the IRM. The excavation extended to the top of competent bedrock, which ranged from 8 to 12 feet below grade surface (bgs). End point samples RWP-VOC1 through RWP-VOC6 were collected at a frequency of every 20 feet from the weathered bedrock at the base of the sidewalls of the excavation perimeter and were analyzed for STARS/TAGM VOCs. Samples RWP-VOC7 and RWP-VOC8 were from weathered bedrock in areas where slight petroleum-odors were observed in soils above weathered bedrock. The extent of excavation was determined based on field screening results using a photo-ionization detector (PID) and the detection of VOC odors by TRC field personnel, and was confirmed by end point sampling results.

As a result of excavating lead- and VOC-impacted fill, remaining fill to the east of the Con Edison utility easement was removed from the Site. As shown in Figure 2, the excavation extended to the top of weathered bedrock in the southern portion of the Site, and, where weathered bedrock was absent to the north, the excavation extended to the top of competent bedrock. Outside the VOC-impacted areas, the depth of the excavation ranged from 2 to 10 feet bgs. End point samples RWP-EP1, RWP-EP2, RWP-EP22 (duplicate of RWP-EP2), RWP-EP3, RWP-EP4, RWP-EP5, RWP-EP6, RWP-EP7, RWP-EP7A, RWP-EP7B, RWP-EP8, RWP-EP9, RWP-EP10, RWP-EP11, RWP-EP12 and RWP-EP13 were collected from the fill at the base of the sidewalls of the excavation perimeter at a frequency of every 50 feet. End point samples

were not collected along the edges of the previously IRM-remediated area. Soil sampling was performed in accordance with TRC's QA/QC Program Plan.

Ambient particulate and VOC air monitoring were performed during excavation of the VOC- and lead-impacted fill material and followed New York State Department of Health (NYSDOH) general community air monitoring requirements (gCAMP). These procedures require the establishment of upwind background concentrations and continuous air monitoring downwind of excavation work using 15-minute time weighted averages (TWA) for comparison. Mazzocchi and TRC performed NYSDOH gCAMP monitoring full-time during all intrusive activities. No exceedances of gCAMP levels were measured during the excavation work.

All excavated soil was temporarily stockpiled on-site by placing a minimum of two layers of plastic sheeting below the soil and covering it with one layer of plastic sheeting in order to avoid cross-contamination with surrounding soils.

Native materials from the Site were not used to backfill the excavation. Amboy Aggregates, South Amboy, New Jersey, supplied all clean fill used to restore the pre-existing grade surface. Fill material met NYSDEC TAGM RSCOs. Analytical documentation for the imported clean fill is presented in Appendix B. All backfill operations were accomplished by compacting the fill as it was placed in the excavation using the bucket of the excavator. The clean fill was topped with a layer of ¾-inch stone, which was then compacted using a vibratory roller.

2.2.2 Transportation and Disposal of Wastes

Representative composite soil samples were collected during the IRM shallow soil sampling activities for waste classification purposes to determine an appropriate off-site disposal facility. Based on the results of composite samples, shown in Tables 1 and 2, all soil and weathered bedrock were classified as non-hazardous (as defined by 40 CFR Part 261), PCB-free (defined by 40 CFR Part 761) waste. This included all asphalt, lead and VOC-impacted fill and VOC-impacted weathered bedrock. The data was provided to Clean Earth Environmental Services, Inc., Winslow, New Jersey, to whom TRC subcontracted all waste disposal services. All soil and weathered bedrock was transported to the Duraport Marine and Rail Transshipment Facility, Bayonne, New Jersey, for processing and barge shipment to the Pennsylvania Avenue Landfill in Brooklyn, New York, where the material was deposited. A total of 10,446 tons of excavated material was transported and disposed of at that facility, as presented in Appendix C.

2.2.3 Excavation End Point Sample Results

Post-excavation end point samples were collected and analyzed to verify that all VOC- and lead-impacted soil and weathered bedrock were removed, in accordance with the sampling protocol specified in the NYSDEC-approved RWP. As shown in Figure 2, end point samples were collected every 50 feet along the sidewalls of the excavation for lead-contaminated urban fill. End point samples were collected every 20 feet along the sidewalls of the excavation for VOC-contaminated urban fill and weathered bedrock. End point sampling results are presented on Figure 2. Samples were collected in accordance with TRC's QA/QC Program Plan for the First Avenue Properties project (May 2001).

A field duplicate was collected during the implementation of the RWP, and corresponded to end point sample location PL-RWP-EP2 (Duplicate sample ID PL-RWP-EP22).

End point samples along the sidewalls of the excavation for lead-impacted fill material were analyzed for lead and end point samples from the VOC-impacted area were analyzed for NYSDEC STARS/TAGM volatile organic compounds. Endpoint samples were analyzed by Accutest Laboratories of Dayton, New Jersey. Accutest Laboratories provided ASP category B deliverables for all end point samples. Laboratory analytical results are presented in Appendix D.

Final end point samples were obtained from a total of 23 locations. Tables 3A and 3B provide the results of end point sample analyses and the associated NYSDEC TAGM Recommended Soil Cleanup Objectives (RSCOs).

All end point sampling results met TAGM RSCOs for VOCs. The results for samples PL-RWP-VOC7 and PL-RWP-VOC8 indicated no VOC-impacts to weathered bedrock at those locations. Except for PL-RWP-EP7, results of end point samples met TAGM RSCOs for lead (500 mg/kg). A lead concentration of 1,110 mg/kg was found at PL-RWP-EP7, which was located along the edge of the Con Edison Utility Easement, less than two feet to the east of an underground, 138 kV utility duct. In order to determine if the lead levels at this location represented an anomaly, additional samples were collected along the sidewall, just north and south of the PL-RWP-EP7 location. End point sample PL-RWP-EP7A collected just south of PL-RWP-EP7 contained lead at 1,470 mg/kg. End point sample PL-RWP-EP7B collected just north of PL-RWP-EP7 contained lead at 303 mg/kg. The average lead concentration of these three samples is 961 mg/kg. Although these lead levels marginally exceed TAGM RSCOs, no further action could be performed at this location due to its proximity to the underground 138 kV utility duct. The

NYSDEC evaluated these sampling results and issued a letter dated March 14, 2003 (Appendix J) requiring no further action for lead at this location.

2.3 Groundwater Remediation

Groundwater remediation undertaken at the Site under the IRM Work Plans consisted of source removal (excavation) of VOC-impacted soil and weathered bedrock in the southeastern portion of the Site and application of an ORC® slurry to a gravel layer installed at the bottom of the excavation prior to backfilling (See December 2002 IRM Final Report for a detailed discussion of this phase of the remediation). Following the IRM groundwater remediation, TRC conducted monthly and quarterly groundwater monitoring (See Section 2.5). Based upon an evaluation of the groundwater sampling results, ORC® was reapplied to the original source area where VOC-impacted weathered bedrock had been removed under the IRM Work Plans. This was accomplished utilizing a Geoprobe® unit to inject ORC® at 38 points (See Section 2.3.1) and installing ORC® socks in six of the eight monitoring wells at the Site (See Section 2.3.2). In addition, an ORC® slurry was applied to a gravel layer placed in the excavation bottom where additional VOC-impacted soil and weathered bedrock had been removed near the western boundary of the Site (See Section 2.3.3).

2.3.1 Geoprobe® ORC® Reapplication

An additional ORC® application was deemed necessary after concentrations of MTBE, Benzene, Toluene, and Total Xylenes were identified in the overburden well, MW-3S, at levels that exceeded NYSDEC Class GA Standards. TRC retained the services of Aquifer Drilling and Testing, Inc., of New Hyde Park, New York, to perform this work between November 18 – 19, 2002. A 25% ORC® slurry was injected into the existing gravel layer above bedrock through 38 injection points via Geoprobe® temporary injection points as indicated on Figure 3. The 25% solution was obtained by mixing 10.5 gallons of water with 30 pounds of ORC® for each point. TRC applied a total ORC® dose of 1,140 pounds to the remediated area through the 38 injection points. ORC® dosage calculations were provided by Regenesis and are shown in Appendix E.

2.3.2 ORC® Sock Installation in Bedrock Monitoring Wells

In order to enhance the potential for ORC® to reach dissolved phase gasoline compounds identified in the fractured bedrock monitoring wells at the southeast portion of the Site, TRC installed ORC® socks in all but two wells, MW-3S (a well screened in the perched water in

contact with the ORC® gravel layer) and MW-7R (upgradient well). The socks are permeable bags of ORC® within 15 to 25-foot lengths of slotted PVC casing suspended within the water column in each well. A 25 foot length was placed in MW-1R, 20-foot length in MW-4R and a 15-foot length in MW-6R in August 2002. Another 15-foot segment was installed in MW-5R in October 2002 and 15-foot segments were placed in MW-2R and MW-3R in November 2002. The socks were removed from each well monthly, prior to groundwater sampling/monitoring. ORC® socks were replaced in individual wells in accordance with the product's useful lifespan as indicated by the manufacturer and monthly dissolved oxygen field test results (See Section 2.5).

2.3.3 VOC Excavation ORC® Application

Following the removal of VOC-impacted soil and weathered rock near the western site boundary, a 25% solution of ORC® was added to a gravel layer placed at the base of the excavation. TRC applied a total dose of 180 pounds of ORC® to the excavation. ORC® dosage calculations were provided by Regenesis and are shown in Appendix E.

The 25% percent slurry mixture was mixed on site in a 55-gallon drum and applied by spraying using a sump pump and hose as follows:

a) A portion of the ORC® slurry mixture was applied directly to the exposed bedrock surface prior to placement of the gravel layer;
b) Most of the ORC® mixture was applied onto the 6 to 12-inch layer of gravel backfilled into the excavation; and
c) An excavator was then used to mix the ORC® slurry mixture evenly throughout the gravel backfill layer prior to placement of additional clean fill to grade.

In a letter dated January 24, 2003 (Appendix J), NYSDEC notified TRC that an additional bedrock monitoring well was not required within the VOC-impacted soil excavation area.

2.4 Subsurface Barrier Wall

As described in Section 1.5, TRC installed a subsurface slurry (concrete) barrier wall in the southeastern corner of the Site to eliminate any potential for residual off-site petroleum-impacted soil to impact future site development. The impermeable barrier consists of approximately 90 linear feet of two-foot thick slurry (concrete) wall installed to the top of competent bedrock (i.e. Class 3-65, 20 Ton Rock or Class 2-65, 40 Ton Rock). The location and details for this impermeable subsurface barrier wall are shown in the Mueser Rutledge drawing of Appendix F.

During installation of the barrier wall, a total of 26,210 gallons of water and 264 tons of excavated bentonite/bedrock were collected for disposal (Appendix C). Water was disposed at Clean Waters of New York, Staten Island, New York; Lorco Petroleum Services, Elizabeth, New Jersey; and Nickademis, Williamsport, Maryland. Bentonite/bedrock was disposed at Cycle Chem in Elizabeth, New Jersey.

2.5 Groundwater Monitoring Results

TRC conducted quarterly VOC groundwater sampling at eight site wells from June 2002 to June 2003 to establish the overall effectiveness of the groundwater remediation and to evaluate the need for additional groundwater remediation/monitoring at the Site. For the March and June 2003 sampling events, TRC also sampled the downgradient monitoring well WS-MW-2R located on the east side of 1st Avenue, at Con Edison's Waterside Station No. 1. NYSDEC had previously requested that WS-MW-2R be utilized as an additional downgradient groundwater sampling location for the Parking Lot Site. In a letter dated January 24, 2003 (Appendix J), NYSDEC approved the sampling of WS-MW-2R on a quarterly basis only. Groundwater samples were collected in accordance with the Quality Assurance/Quality Control Program Plan. Representative groundwater samples from each well were analyzed for total BTEX and MTBE.

Tables 4 through Table 8 present the results of each round of quarterly groundwater sampling. Results of the groundwater sampling are also shown on Figure 4, including available historical sampling results obtained by others prior to TRC's sampling. Laboratory analytical result reports are provided in Appendix G.

Table 10 presents a quarter-to-quarter evaluation of VOC groundwater sampling result changes relative to all soil and groundwater remediation events. Tables 10 and 11 present a comparison of groundwater sampling results from sampling conducted before source removal and ORC® application to June 2003 for the Site. As indicated by Tables 10 and 11, the June 2003 round of groundwater sampling results show a significant decrease in groundwater contaminant levels from sampling conducted prior to source removal and ORC® application. Figure 5 depicts groundwater VOC sampling trend charts for each monitoring well. As of June 2003, a 90% or greater reduction in MTBE has been achieved in wells MW-1R, MW-2R, MW-3S, MW-3R, and MW-6R. Reductions in total MTBE for wells MW-4R and MW-5R were 63.5% and 75.9%, respectively. The June 2003 MTBE result for MW-4R fluctuated upward from the March 2003 MTBE level which had indicated more than a 90% reduction in MTBE. A 90% or greater

reduction in total BTEX has been achieved in MW-3S, MW-3R, MW-4R, and MW-5R. Reductions in total BTEX for other wells were: 12% for MW-1R, 29% for MW-2R and 84.8% for MW-6R.

To evaluate ORC® performance, TRC conducted monthly field testing to monitor the following groundwater parameters from each of the eight wells: dissolved oxygen (DO), oxidation reduction potential (ORP), dissolved and total iron and manganese levels, groundwater elevation and petroleum layer thickness (if applicable), pH, temperature, and conductivity, and VOC levels in the airspace of wells. The rationale for selecting these parameters was presented in Appendix K of the RWP. Methodologies for monitoring these parameters followed the protocol established in the RWP. Table 9 presents monthly sampling results for these groundwater parameters from June 2002 through May 2003. As indicated by Table 9, the monthly monitoring data generally indicated oxidizing conditions supportive of enhanced natural attenuation of VOCs (*i.e.* 2 mg/l or greater of dissolved oxygen) for most wells except for September and November 2002. In response to lower dissolved oxygen (DO) levels for these months, ORC® was reapplied to the site (See Section 2.3) in November, 2002. High dissolved oxygen concentrations detected in some of the wells is related to field test sensitivity to high residual concentrations of the magnesium peroxide oxidizing compound released by ORC®. Individual well ORC® socks were also replaced in accordance with the product's useful lifespan as indicated by the manufacturer and monitored DO levels. Concentrations of ferric iron were greater than ferrous iron in nearly all wells with the exception of the first three months of monitoring, which also suggests oxidizing conditions.

2.6 Post-Remediation Soil Vapor Sampling Results

In accordance with the NYSDEC letter of January 5, 2004 (Appendix J); ten soil vapor samples, plus one background sample, were collected by TRC from nine locations in the Parking Lot on January 13, 2004 in order to document soil vapor conditions after all site remediation had been completed. Samples were collected near locations where MTBE and BTEX compounds were previously detected during the March 2002 soil vapor survey, and near monitoring wells where previous groundwater sampling indicated TOGS exceedances for these compounds. Figure 6 shows sample locations and laboratory analytical results. Sample results are included in Table 12 and Appendix G.

At each location, a Geoprobe® was used to drive rods with an expendable tip to a depth of four feet. Teflon tubing was inserted into the rods and screwed into the tip to create an airtight seal.

The rods were then pulled up approximately six inches to allow the point to fall out and air to enter the rod. A bentonite seal was packed around the rod at each insertion point to prevent atmospheric air from infiltrating the sample. A Gillian Personal Air Sampler pump with a low flow module was used to purge air within the tubing at a rate of 0.2 L/minute for approximately two minutes prior to sampling. The tubing was then connected to a summa canister to collect the vapor sample. Each summa canister was delivered to the Site under negative (vacuum) pressure. Flow regulators were used to control flow into each canister at a rate of 0.2 L/minute. Photographs of a typical sampling location are included in Appendix A.

Samples were collected at each location and analyzed for BTEX and MTBE by Accutest Laboratories. One duplicate sample was collected at the PL-SG10 location and one background sample (ABZ) was collected of ambient air at the corner of 1st Avenue and East 40th Street.

BTEX compounds were detected in each sample, with MTBE detected in 7 of 11 samples, including the ambient air background sample. Soil vapor results for 9 of 10 samples were below or close to ambient background levels detected at sample ABZ. Soil vapor levels at SG-16 were only marginally higher than ambient background.

Screening criteria provided in the U.S. Environmental Protection Agency's Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance) (EPA 2002) were used to determine if the site sampling results would pose a potential risk to human receptors in a hypothetical residence located on the property (Appendix H). This screening showed that residual concentrations of BTEX and MTBE in soil vapor at the site do not pose an unacceptable risk to future site residents.

3.0 QUALITY ASSURANCE/QUALITY CONTROL DATA EVALUATION

A QA/QC program for the Parking Lot Remediation Program was instituted to ensure that the analytical and project objectives were met. The QA/QC program consisted of the development of the Quality Assurance Project Plan (QAPP), which detailed the data quality objectives (DQOs) for each analytical parameter for the entire investigation. During the program, the collection of QC samples was monitored by the TRC Project QA Officer to ensure that the field QC samples were collected at the proper frequency. Finally, the QA/QC program included data validation for a percentage of the analytical data, as outlined in the QAPP. That is, only those samples collected for the purpose of characterizing the subsurface, delineating impacted areas, and/or documenting no further action, as in the case of meeting cleanup criteria or action levels, were validated. For the Parking Lot data, 100% of the data generated for the end point soil samples, VOC groundwater sampling and post-remediation soil vapor sampling were subjected to the appropriate data validation protocols.

The results of the data validation were summarized in Data Usability Summary Reports (DUSRs). A more detailed overview of the data evaluation completed for the project and the DUSRs appear in Appendix I, including a discussion of each qualified result, the potential bias and the effect on the data usability.

4.0 CONCLUSIONS

4.1 Soil/Weathered Bedrock Remediation

The remediation completed between December 2002 through January 2003 has resulted in the removal of VOC-impacted soil and weathered bedrock above TAGM RSCOs, eliminating the source of VOC groundwater contamination at the Site. Except for one, small isolated area along the edge of the Con Edison Utility Easement, the remediation also has resulted in the removal of lead-impacted soil and fill exceeding TAGM RSCOs above Development Depth. The NYSDEC previously approved no further action for lead at this location in its letter dated March 14, 2003. The remediated area extends from the eastern property boundary west to the Con Edison Utility Easement. The full excavation and disposal of VOC-impacted soil and weathered bedrock from the Site have contributed to the significant reduction in dissolved phase VOCs in the groundwater within the fractured bedrock.

4.2 Groundwater Remediation

The applications of ORC® in the open excavations through Geoprobe® injection points and through permeable socks in bedrock monitoring wells, has, over time, increased levels of DO in the fractured bedrock groundwater and has contributed to the reduction of dissolved gasoline-related compounds in the bedrock aquifer at the Site via enhanced natural attenuation/ biodegradation. Concentrations of total MTBE and BTEX have decreased by more than 90 percent in the majority of the wells since implementation of source removal and groundwater remediation. Groundwater conditions in the fractured bedrock at the Site have caused no significant off-site contamination, as supported by the receptor study reported in the December 2002 RWP and sampling of the downgradient well at Waterside No. 1 (WS-MW-2R). Groundwater quality of the downgradient monitoring well WS-MW-2R had no exceedances of the NYSDEC Class GA standards for the gasoline contaminants of concern.

Although significant reductions in concentrations of dissolved phase gasoline-related compounds in the fractured bedrock have been achieved, additional groundwater monitoring and, if necessary, additional ORC® applications will be undertaken. Monitoring wells will not be used as injection wells for ORC® application, but may be used for the passive application of ORC® through diffusion socks. In that case, the ORC® socks will be removed from the monitoring wells at least one week prior to sampling. The additional groundwater monitoring requirements are presented in an Operations, Maintenance, and Monitoring (OM+M) Plan for the Site.

Future development of the Site may require the abandonment of existing groundwater monitoring wells and the loss of access for ORC® injection via separate Geoprobe® injection points. If that development should occur before NYSDEC-required OM+M activities have been completed and if such wells are still needed at that time to continue remedial efforts, offsite injection and monitoring wells will be installed consistent with the NYSDEC letter of June 22, 2004 (Appendix J) and as described in the OM+M Plan.

A deed restriction will be imposed, to provide that any groundwater must be properly treated for disposal, if removed from the Site, and groundwater may be subject to use restrictions. Annual certification of these restrictions will be required to verify compliance with these restrictions.

4.3 Post-Remediation Soil Vapor

The post-remediation soil vapor sampling data for the Site indicate no significant site impacts to soil vapor quality. Residual concentrations of VOCs detected in the soil vapor samples present no significant risk to future site workers, residents or the public. No further action for soil vapor is required at the Site.

4.4 Deactivation of Petroleum Spill Number 98-09889

The TRC remediation completed from December 2002 through January 2003 has resulted in the removal of remaining VOC-impacted soil and weathered bedrock above TAGM RSCOs at the Site related to the former Con Edison gasoline USTs. The removal of this contamination source and subsequent groundwater remediation has significantly reduced levels of dissolved BTEX and MTBE in the fractured bedrock groundwater. TRC requested that NYSDEC deactivate the 1998 reported spill for the Site, Spill No. 98-09889, because all feasible remediation has been performed, and groundwater monitoring will continue to occur under a NYSDEC-approved OM+M Plan. NYSDEC Region 2 deactivated and closed Spill Number 98-09889 on March 12, 2003. Documentation of the NYSDEC action to close this spill number is included in Appendix I. There are no current open spill numbers for the property.

4.5 Achievement of Project Remedial Objectives

The soil and weathered bedrock removal activities at the Site are complete and the remedial objectives for this Site have been met. The Site meets the standards for unrestricted development to the Development Depth without deed restrictions, institutional or engineering controls or

further consents, approvals or authorizations. The Site is in condition to be improved to the Development Depth, including installation of pilings to the top of bedrock or caissons and dewatering as necessary, without the need for special (*i.e.,* over and above those which would be required for a site having no Pollution Conditions) worker health and safety protection obligations above the Development Depth.

5.0 REFERENCES

1. *Phase I Environmental Site Assessment*, 40th Street and First Avenue Property, Foster Wheeler Environmental Corporation, September 1998.

2. *Underground Storage Tank Closure Report*, East 40th Street, Manhattan, NY, December 1998.

3. *Investigation Report*, 39th Street Parking Lot, New York, New York, Roy F. Weston, Inc., June, 1999.

4. *Site Investigation Report*, 1st Avenue & 39th Street, Manhattan, New York, Jacques Whitford, June, 2000.

5. *Interim Remedial Measures (IRM) Work Plan*, Parking Lot Property, 685 First Avenue, New York, New York, TRC, July 2001.

6. *IRM Work Plan Supplement 1*, Parking Lot Property, 685 First Avenue, New York, New York, TRC, October 18, 2001.

7. *Interim Remedial Measures (IRM) Work Plan Supplement 2*, Parking Lot Property, 685 First Avenue, New York, New York, October 21, 2001.

8. *Quality Assurance/Quality Control Program Plan,* First Avenue Properties, New York, New York, TRC, May 2001.

9. *Technical Assistance Guidance Memorandum HWR-94-4046,* January 24, 1994 and December 20, 2000 revisions (TAGM) Residential Soil Cleanup Objectives (RSCO).

10. Technical and Operational Guidance Series (1.1.1) (TOGS) June 1998.

11. *Spill Technology and Remediation Series (STARS Memo # 1)*, August 1992.

12. *Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance)*, U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, November 2002.

NOTE: References 1, 2, 3, and 4 are found in the TRC Voluntary Cleanup Program Application Attachment IV A-1, Parking Lot Property, 685 First Avenue, Manhattan, New York County, New York, January 2001.

Figures

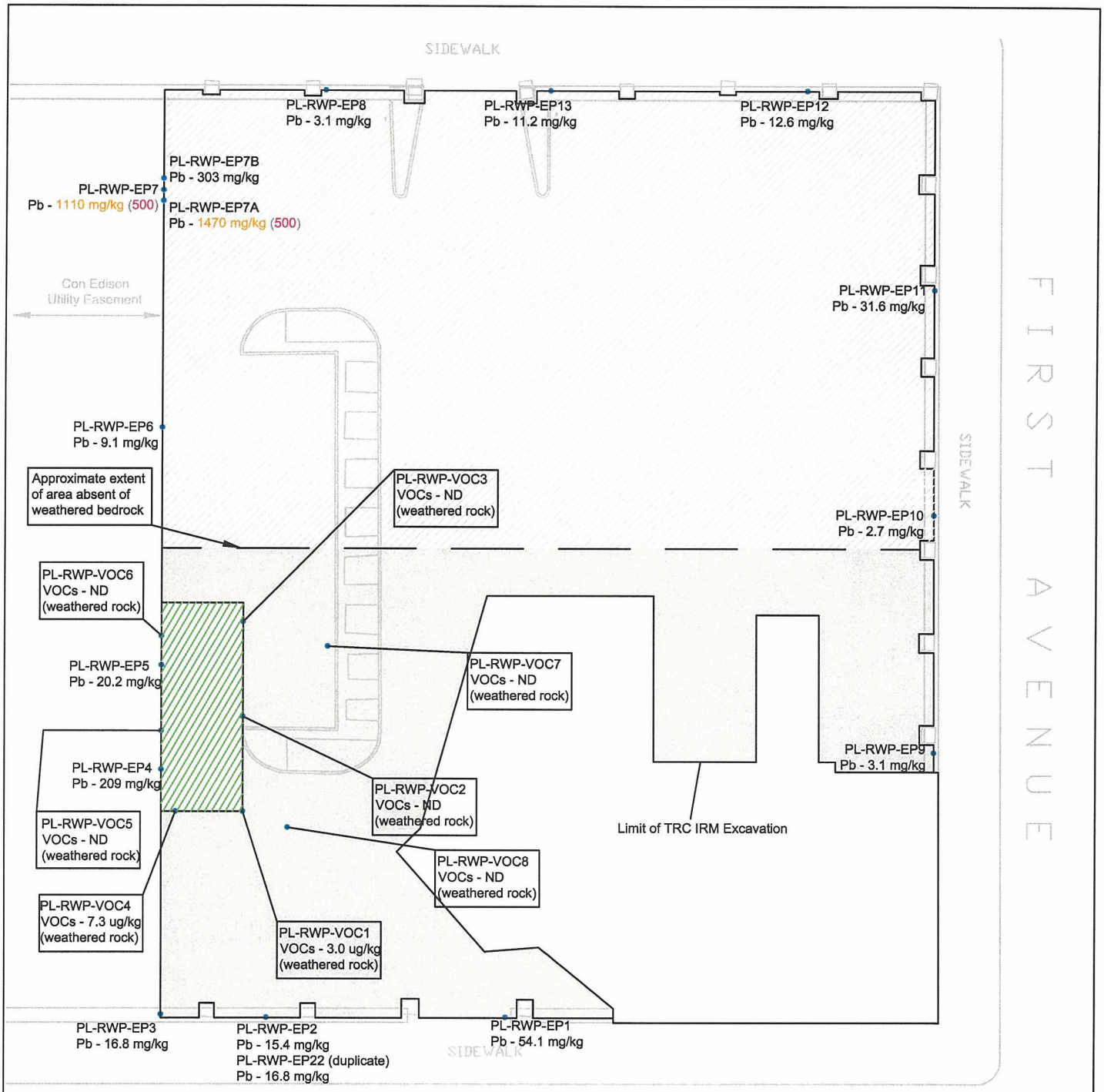
N

TRC

Parking Lot Property
685 First Avenue
New York, New York

Figure 1: Site Location Map
Approximate Scale 1: 24,000

Source: USGS Topographical Survey Maps
Central Park NY – NJ Quadrangle, Photorevised 1979
Brooklyn, NY, Photorevised 1979



Legend

- Remediation End Point Sample Location
- Area was excavated to competent bedrock, due to VOC impacted weathered rock (Gravel layer/ ORC® applied here)
- Shallow fill excavated to weathered bedrock
- Weathered bedrock was absent in this area, therefore excavation was complete to competent bedrock

All VOC sample result concentrations are in micrograms per kilogram (ug/kg). Lead (Pb) concentrations are in milligrams per kilogram (mg/kg).

ND = Not Detected

Cleanup Criteria

New York State Technical Assistance Guidance Memorandum (TAGM) 4046, January 24, 1994, and December 2000 revisions, Recommended Soil Cleanup Objective (RSCO) and Revisions (1998).

1470 mg/kg (500) - Result (mg/kg) exceeds soil cleanup criterion (TAGM RSCO). Omitted where result does not exceed criterion.

0 10 20 30 Feet

Graphic Scale (ft)

\\Lyndhrst_bd1\shared\First Avenue Files\Parking Lot\IRM_December 2002\Figures\Figure 2_Excavation End Point Sample Results.dwg

Parking Lot Property
685 First Avenue
New York, New York

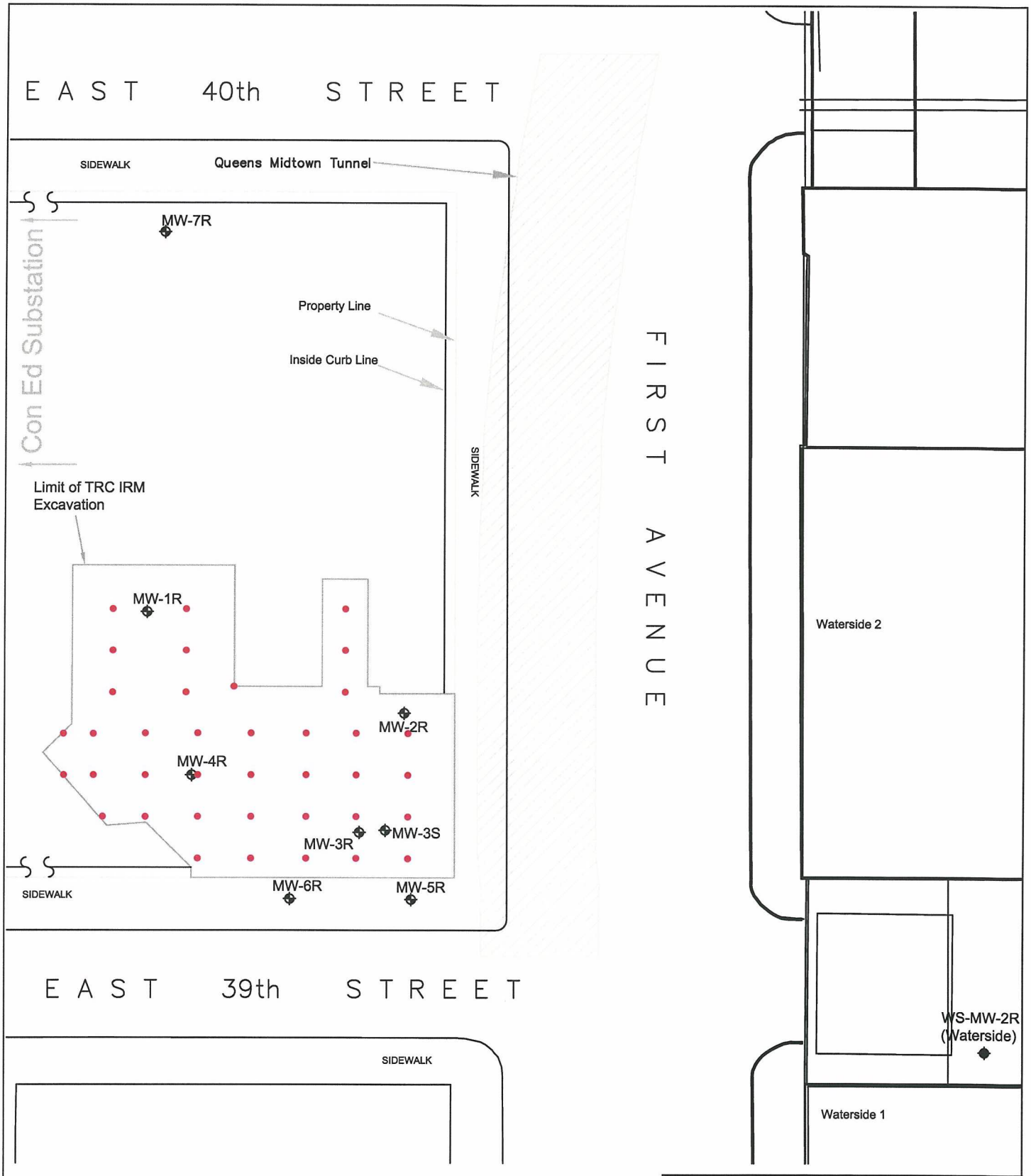
TRC
TRC ENVIRONMENTAL CORPORATION
1200 Wall Street West, 2nd Floor
Lyndhurst, New Jersey 07071

Designed by:	Date:
M. Skirka	4/30/03
Drawn by:	Scale:
MDB	As Shown
File Name:	Project Number:
Figure 10.dwg	28410-PL05-2430T

FIGURE 2

Drawing Title:

Remediation End Point Soil Sampling Location & Results Map for VOCs and Lead



NOTES

MW-1R — Existing Monitoring Well

WS-MW-2R (Waterside) — NYSDEC - Approved Downgradient Monitoring Well

● — Geoprobe ORC injection point for ORC slurry into the gravel layer at these locations. Grid locations laid out on a 12' x 15' grid.

0 10 20 30 60 Feet

N

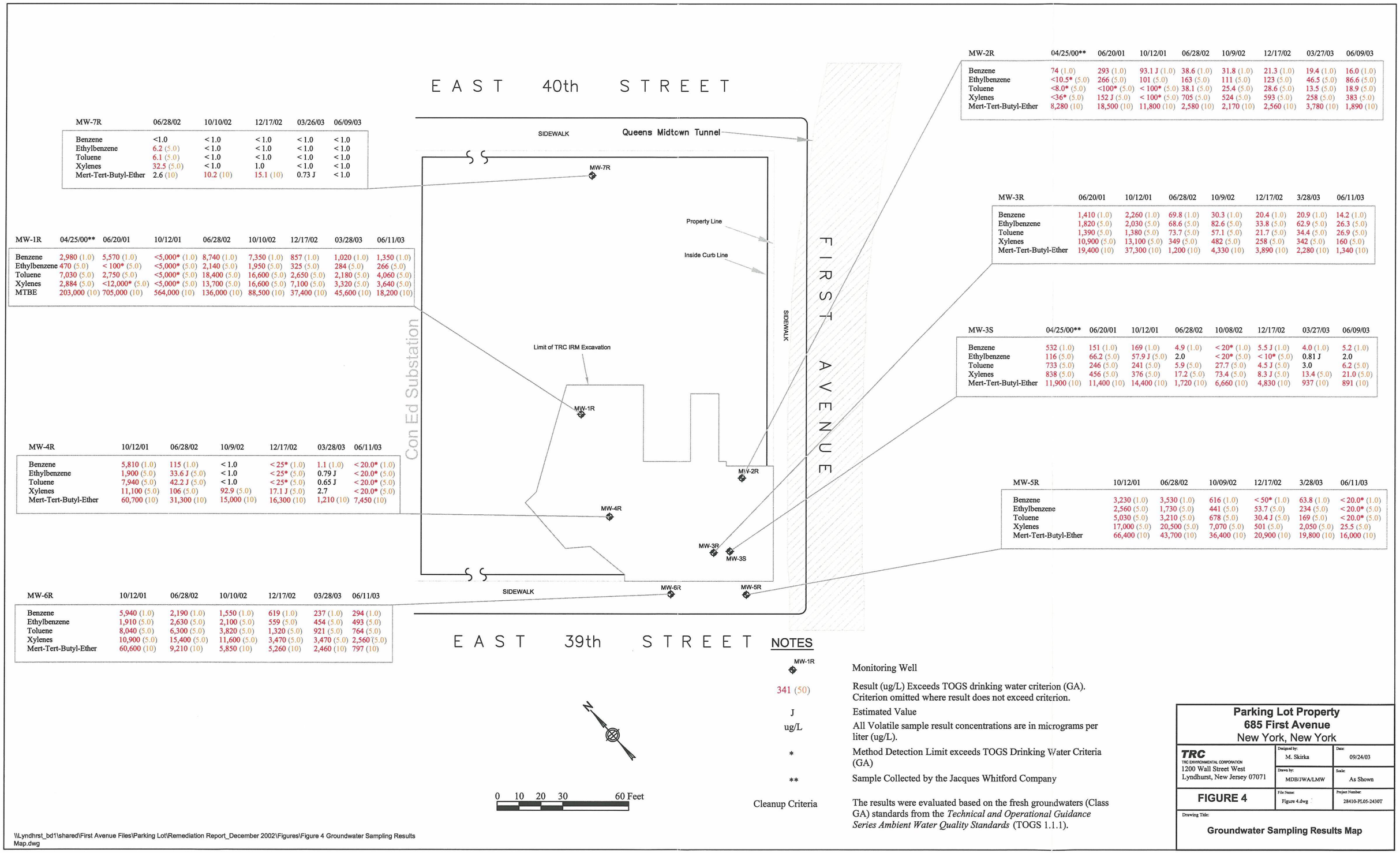
\\Lyndhrst_bd1\shared\First Avenue Files\Parking Lot\Remediation Report_December 2002\Figures\Figure 3 Well and ORC Injection Point Location Map.dwg

Parking Lot Property
685 First Avenue
New York, New York

TRC TRC ENVIRONMENTAL CORPORATION 1200 Wall Street West Lyndhurst, New Jersey 07071	Designed by: M. Skirka	Date: 4/30/03
	Drawn by: MDB	Scale: As Shown
FIGURE 3	File Name: Figure 3.dwg	Project Number: 28410-PLO5-2430T

Drawing Title:

Groundwater Monitoring Well and ORC Injection Point Location Map



MW-7R	06/28/02	10/10/02	12/17/02	03/26/03	06/09/03
Benzene	<1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	6.2 (5.0)	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	6.1 (5.0)	< 1.0	< 1.0	< 1.0	< 1.0
Xylenes	32.5 (5.0)	< 1.0	1.0	< 1.0	< 1.0
Mert-Tert-Butyl-Ether	2.6 (10)	10.2 (10)	15.1 (10)	0.73 J	< 1.0

MW-1R	04/25/00**	06/20/01	10/12/01	06/28/02	10/10/02	12/17/02	03/28/03	06/11/03
Benzene	2,980 (1.0)	5,570 (1.0)	<5,000* (1.0)	8,740 (1.0)	7,350 (1.0)	857 (1.0)	1,020 (1.0)	1,350 (1.0)
Ethylbenzene	470 (5.0)	< 100* (5.0)	<5,000* (5.0)	2,140 (5.0)	1,950 (5.0)	325 (5.0)	284 (5.0)	266 (5.0)
Toluene	7,030 (5.0)	2,750 (5.0)	<5,000* (5.0)	18,400 (5.0)	16,600 (5.0)	2,650 (5.0)	2,180 (5.0)	4,060 (5.0)
Xylenes	2,884 (5.0)	<12,000* (5.0)	<5,000* (5.0)	13,700 (5.0)	16,600 (5.0)	7,100 (5.0)	3,320 (5.0)	3,640 (5.0)
MTBE	203,000 (10)	705,000 (10)	564,000 (10)	136,000 (10)	88,500 (10)	37,400 (10)	45,600 (10)	18,200 (10)

MW-4R	10/12/01	06/28/02	10/9/02	12/17/02	03/28/03	06/11/03
Benzene	5,810 (1.0)	115 (1.0)	< 1.0	< 25* (1.0)	1.1 (1.0)	< 20.0* (1.0)
Ethylbenzene	1,900 (5.0)	33.6 J (5.0)	< 1.0	< 25* (5.0)	0.79 J	< 20.0* (5.0)
Toluene	7,940 (5.0)	42.2 J (5.0)	< 1.0	< 25* (5.0)	0.65 J	< 20.0* (5.0)
Xylenes	11,100 (5.0)	106 (5.0)	92.9 (5.0)	17.1 J (5.0)	2.7	< 20.0* (5.0)
Mert-Tert-Butyl-Ether	60,700 (10)	31,300 (10)	15,000 (10)	16,300 (10)	1,210 (10)	7,450 (10)

MW-6R	10/12/01	06/28/02	10/10/02	12/17/02	03/28/03	06/11/03
Benzene	5,940 (1.0)	2,190 (1.0)	1,550 (1.0)	619 (1.0)	237 (1.0)	294 (1.0)
Ethylbenzene	1,910 (5.0)	2,630 (5.0)	2,100 (5.0)	559 (5.0)	454 (5.0)	493 (5.0)
Toluene	8,040 (5.0)	6,300 (5.0)	3,820 (5.0)	1,320 (5.0)	921 (5.0)	764 (5.0)
Xylenes	10,900 (5.0)	15,400 (5.0)	11,600 (5.0)	3,470 (5.0)	3,470 (5.0)	2,560 (5.0)
Mert-Tert-Butyl-Ether	60,600 (10)	9,210 (10)	5,850 (10)	5,260 (10)	2,460 (10)	797 (10)

MW-2R	04/25/00**	06/20/01	10/12/01	06/28/02	10/9/02	12/17/02	03/27/03	06/09/03
Benzene	74 (1.0)	293 (1.0)	93.1 J (1.0)	38.6 (1.0)	31.8 (1.0)	21.3 (1.0)	19.4 (1.0)	16.0 (1.0)
Ethylbenzene	<10.5* (5.0)	266 (5.0)	101 (5.0)	163 (5.0)	111 (5.0)	123 (5.0)	46.5 (5.0)	86.6 (5.0)
Toluene	<8.0* (5.0)	<100* (5.0)	< 100* (5.0)	38.1 (5.0)	25.4 (5.0)	28.6 (5.0)	13.5 (5.0)	18.9 (5.0)
Xylenes	<36* (5.0)	152 J (5.0)	< 100* (5.0)	705 (5.0)	524 (5.0)	593 (5.0)	258 (5.0)	383 (5.0)
Mert-Tert-Butyl-Ether	8,280 (10)	18,500 (10)	11,800 (10)	2,580 (10)	2,170 (10)	2,560 (10)	3,780 (10)	1,890 (10)

MW-3R	06/20/01	10/12/01	06/28/02	10/9/02	12/17/02	3/28/03	06/11/03
Benzene	1,410 (1.0)	2,260 (1.0)	69.8 (1.0)	30.3 (1.0)	20.4 (1.0)	20.9 (1.0)	14.2 (1.0)
Ethylbenzene	1,820 (5.0)	2,030 (5.0)	68.6 (5.0)	82.6 (5.0)	33.8 (5.0)	62.9 (5.0)	26.3 (5.0)
Toluene	1,390 (5.0)	1,380 (5.0)	73.7 (5.0)	57.1 (5.0)	21.7 (5.0)	34.4 (5.0)	26.9 (5.0)
Xylenes	10,900 (5.0)	13,100 (5.0)	349 (5.0)	482 (5.0)	258 (5.0)	342 (5.0)	160 (5.0)
Mert-Tert-Butyl-Ether	19,400 (10)	37,300 (10)	1,200 (10)	4,330 (10)	3,890 (10)	2,280 (10)	1,340 (10)

MW-3S	04/25/00**	06/20/01	10/12/01	06/28/02	10/08/02	12/17/02	03/27/03	06/09/03
Benzene	532 (1.0)	151 (1.0)	169 (1.0)	4.9 (1.0)	< 20* (1.0)	5.5 J (1.0)	4.0 (1.0)	5.2 (1.0)
Ethylbenzene	116 (5.0)	66.2 (5.0)	57.9 J (5.0)	2.0	< 20* (5.0)	< 10* (5.0)	0.81 J	2.0
Toluene	733 (5.0)	246 (5.0)	241 (5.0)	5.9 (5.0)	27.7 (5.0)	4.5 J (5.0)	3.0	6.2 (5.0)
Xylenes	838 (5.0)	456 (5.0)	376 (5.0)	17.2 (5.0)	73.4 (5.0)	8.3 J (5.0)	13.4 (5.0)	21.0 (5.0)
Mert-Tert-Butyl-Ether	11,900 (10)	11,400 (10)	14,400 (10)	1,720 (10)	6,660 (10)	4,830 (10)	937 (10)	891 (10)

MW-5R	10/12/01	06/28/02	10/09/02	12/17/02	3/28/03	06/11/03
Benzene	3,230 (1.0)	3,530 (1.0)	616 (1.0)	< 50* (1.0)	63.8 (1.0)	< 20.0* (1.0)
Ethylbenzene	2,560 (5.0)	1,730 (5.0)	441 (5.0)	53.7 (5.0)	234 (5.0)	< 20.0* (5.0)
Toluene	5,030 (5.0)	3,210 (5.0)	678 (5.0)	30.4 J (5.0)	169 (5.0)	< 20.0* (5.0)
Xylenes	17,000 (5.0)	20,500 (5.0)	7,070 (5.0)	501 (5.0)	2,050 (5.0)	25.5 (5.0)
Mert-Tert-Butyl-Ether	66,400 (10)	43,700 (10)	36,400 (10)	20,900 (10)	19,800 (10)	16,000 (10)

0 10 20 30 60 Feet

NOTES

MW-1R	Monitoring Well
341 (50)	Result (ug/L) Exceeds TOGS drinking water criterion (GA). Criterion omitted where result does not exceed criterion.
J	Estimated Value
ug/L	All Volatile sample result concentrations are in micrograms per liter (ug/L).
*	Method Detection Limit exceeds TOGS Drinking Water Criteria (GA)
**	Sample Collected by the Jacques Whitford Company
Cleanup Criteria	The results were evaluated based on the fresh groundwaters (Class GA) standards from the *Technical and Operational Guidance Series Ambient Water Quality Standards* (TOGS 1.1.1).

Parking Lot Property
685 First Avenue
New York, New York

TRC
TRC ENVIRONMENTAL CORPORATION
1200 Wall Street West
Lyndhurst, New Jersey 07071

	Designed by: M. Skirka	Date: 09/24/03
	Drawn by: MDB/JWA/LMW	Scale: As Shown
FIGURE 4	File Name: Figure 4.dwg	Project Number: 28410-PL05-2430T

Drawing Title:
Groundwater Sampling Results Map

\\Lyndhrst_bd1\shared\First Avenue Files\Parking Lot\Remediation Report_December 2002\Figures\Figure 4 Groundwater Sampling Results Map.dwg

Figure 5
MW-1R
Groundwater VOC Sampling Trend Data Chart

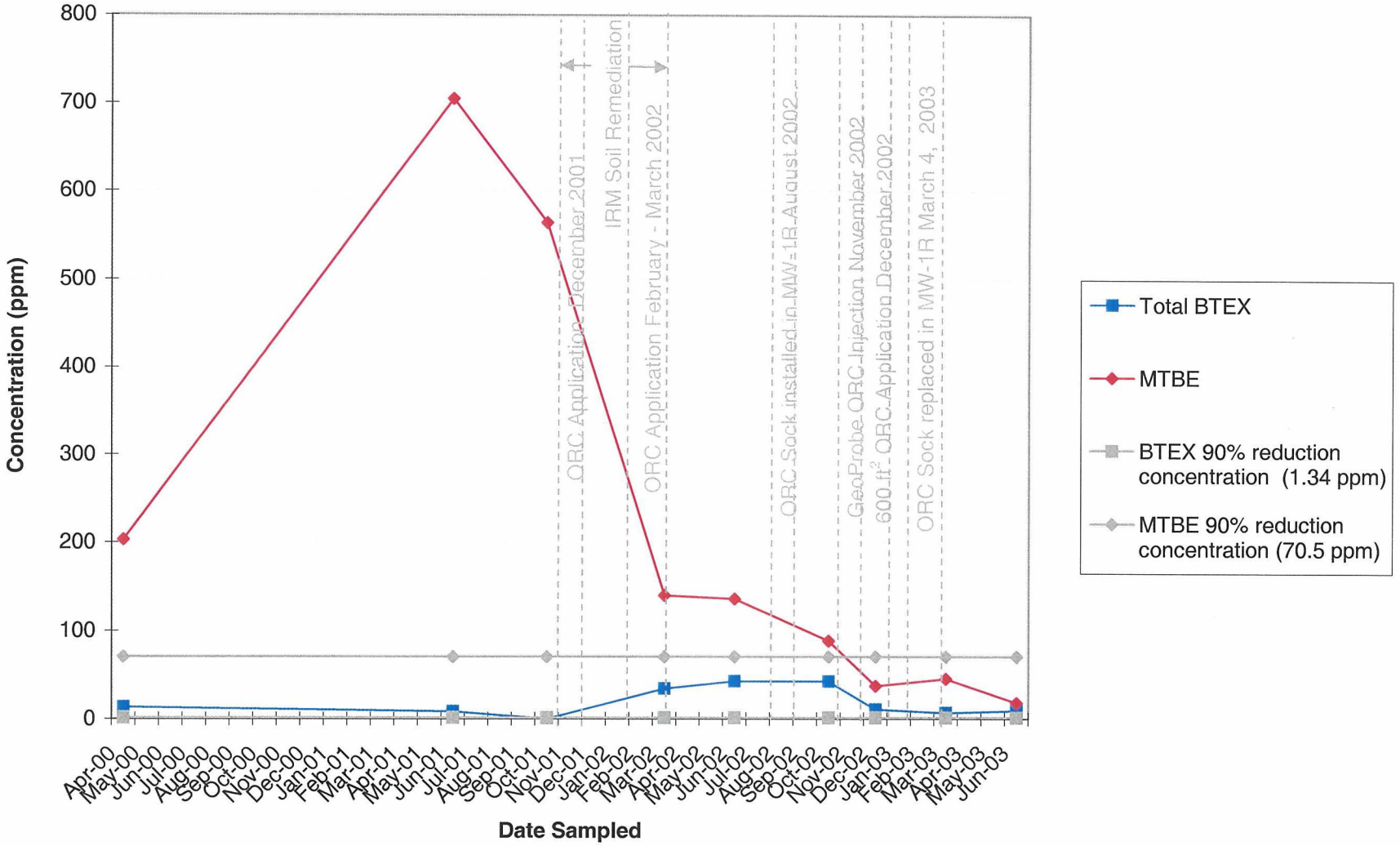


Figure 5
MW-2R
Groundwater VOC Sampling Trend Data Chart

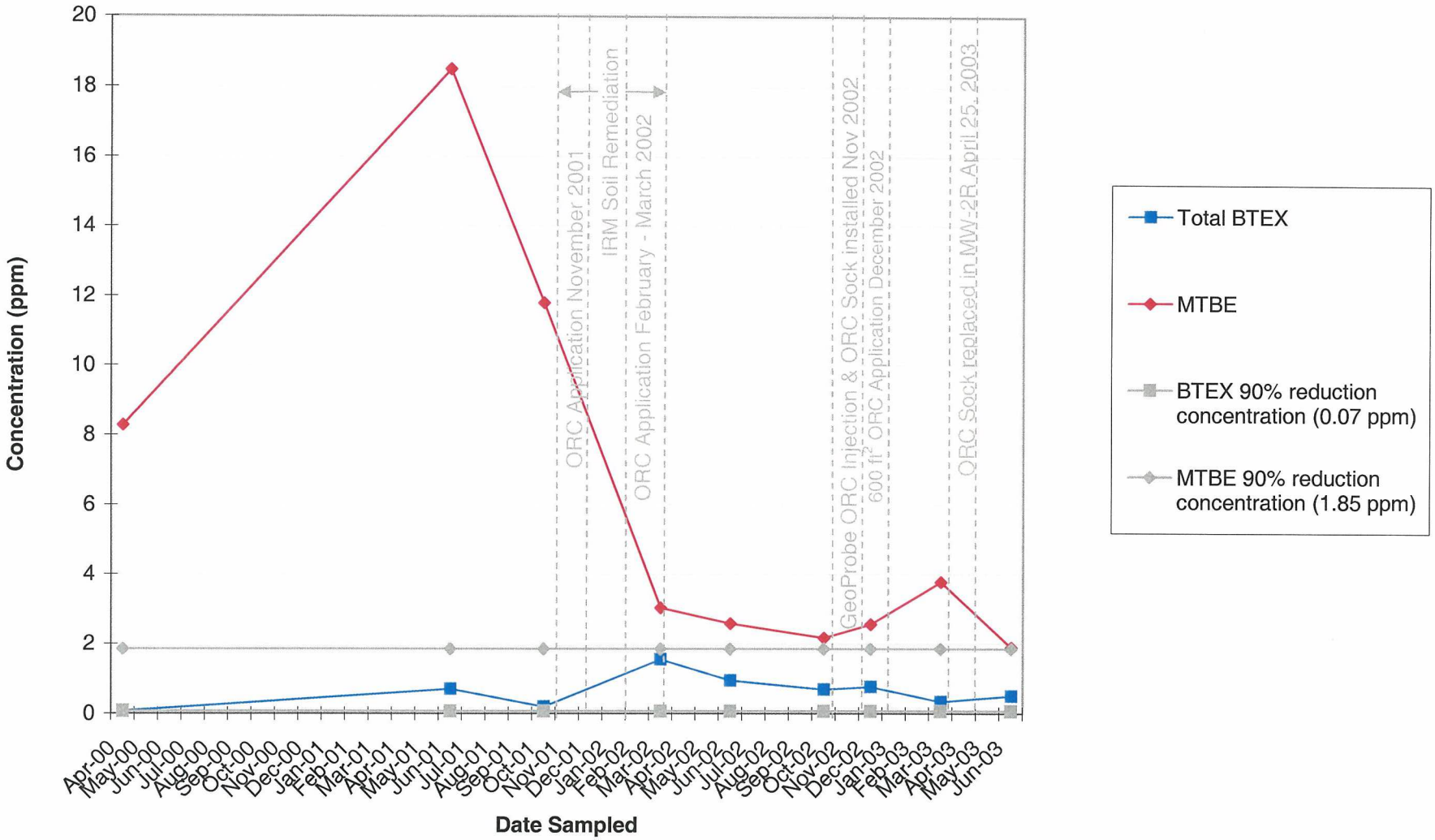


Figure 5
MW-3S
Groundwater VOC Sampling Trend Data Chart

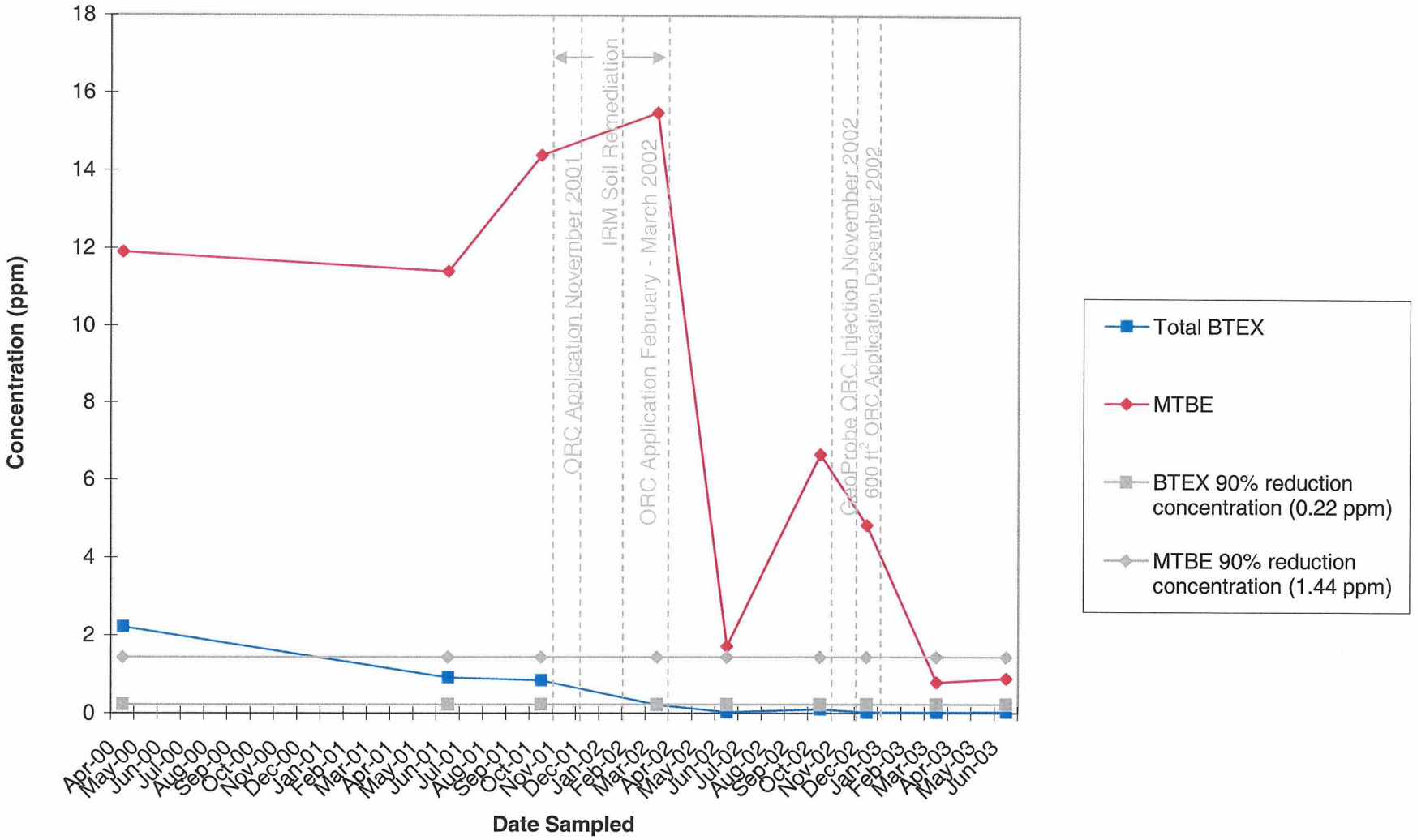


Figure 5
MW-3R
Groundwater VOC Sampling Trend Data Chart

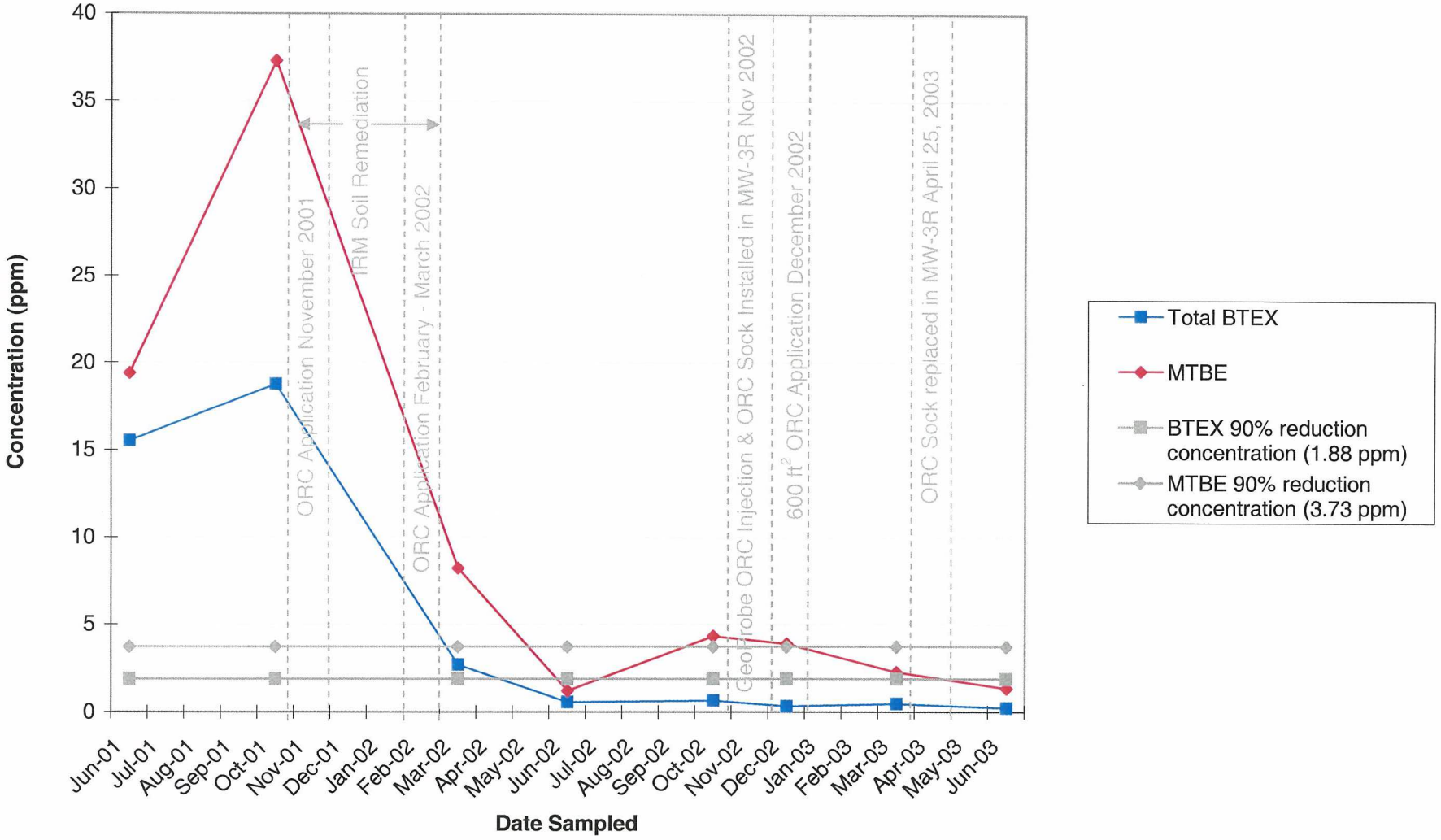


Figure 5
MW-4R
Groundwater VOC Sampling Trend Data Chart

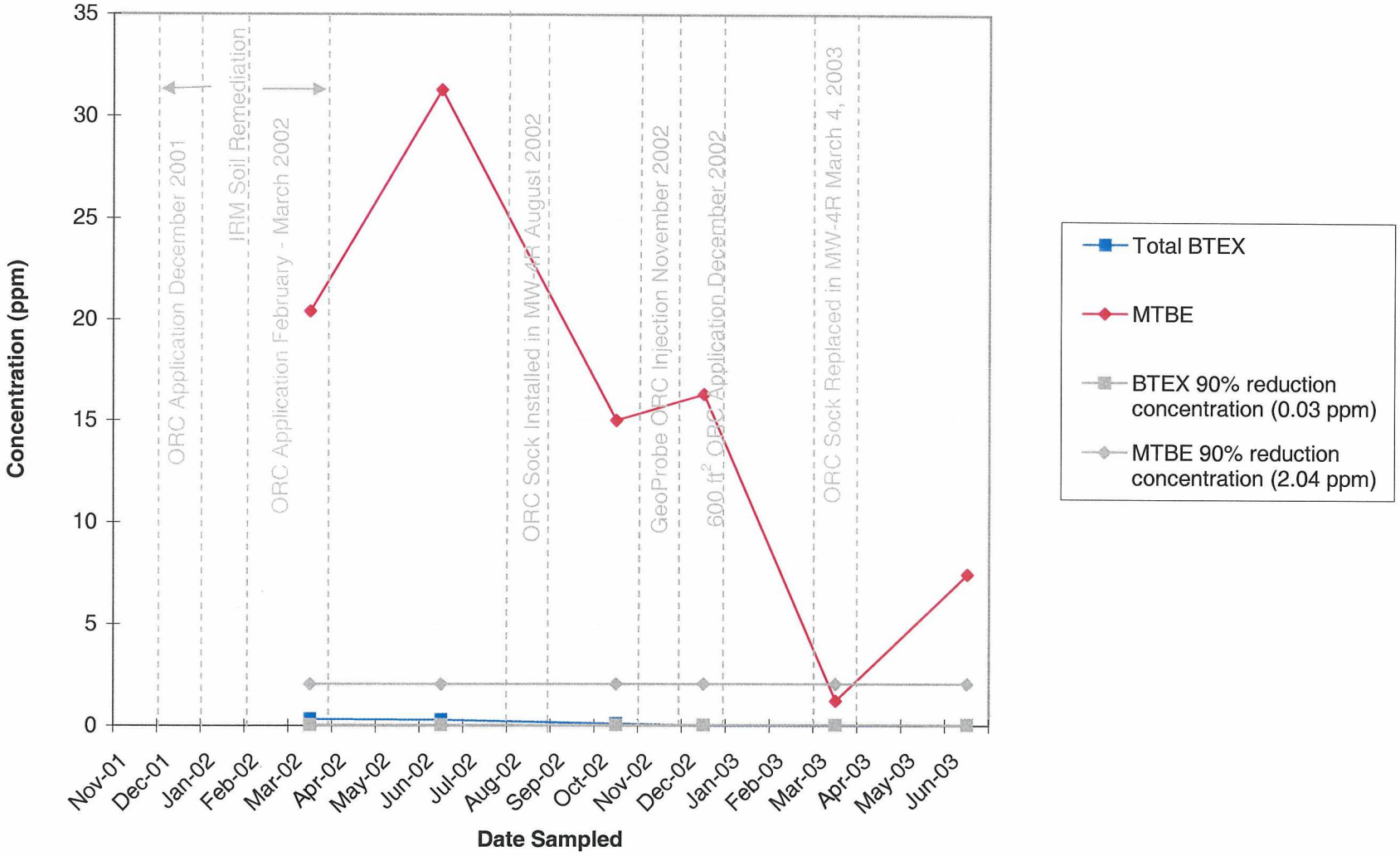


Figure 5
MW-5R
Groundwater VOC Sampling Trend Data Chart

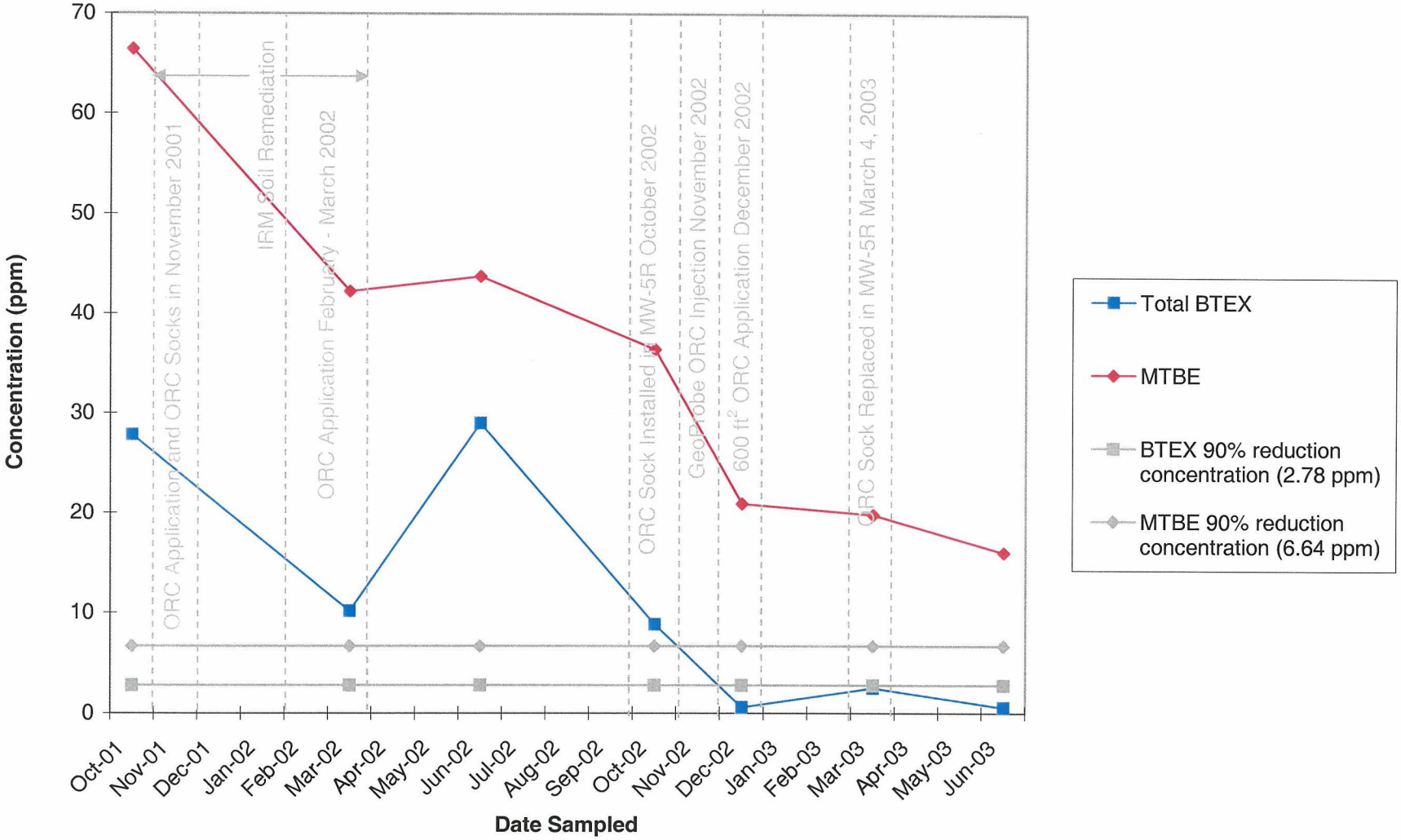


Figure 5
MW-6R
Groundwater VOC Sampling Trend Data Chart

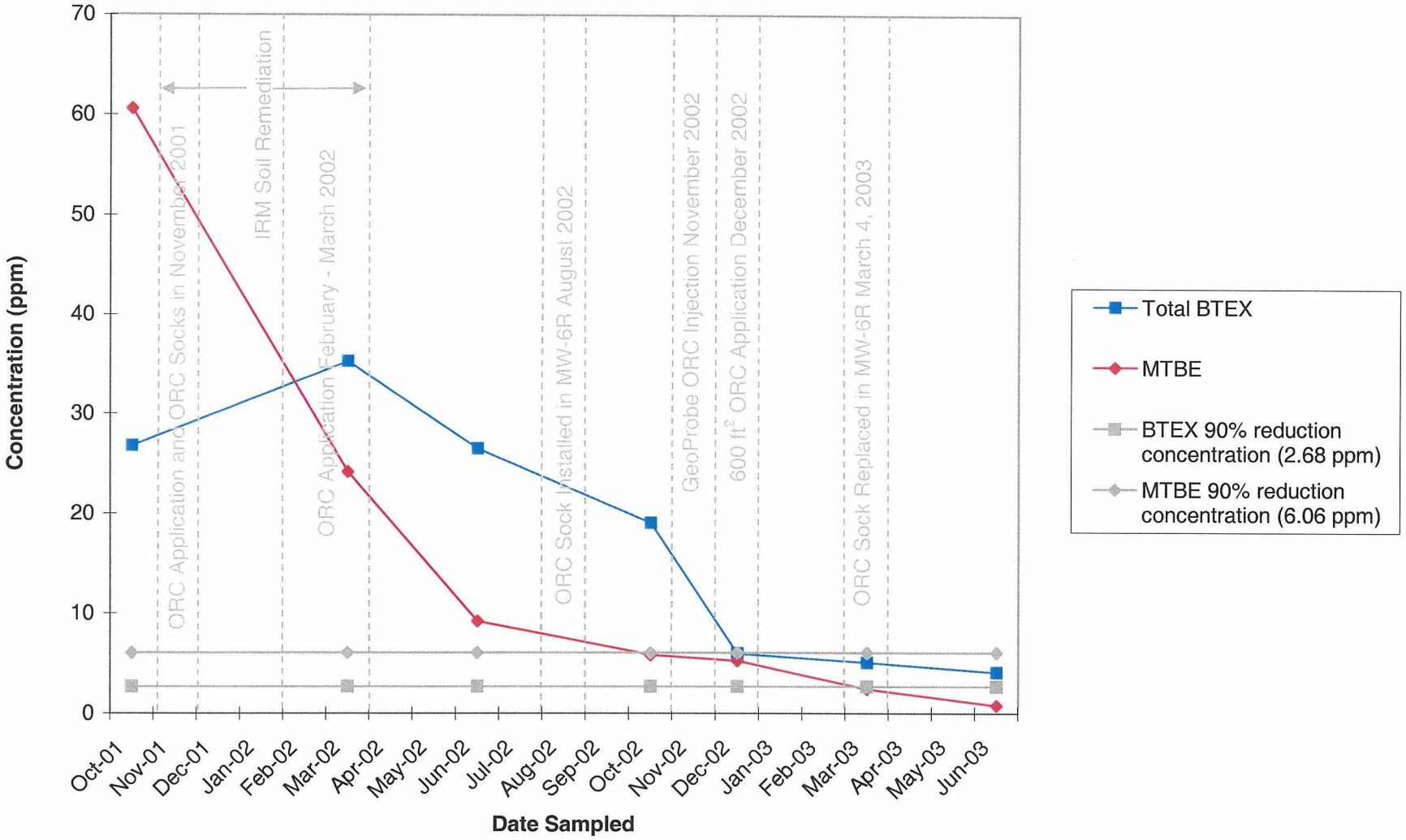


Figure 5
MW-7R
Groundwater VOC Sampling Trend Data Chart

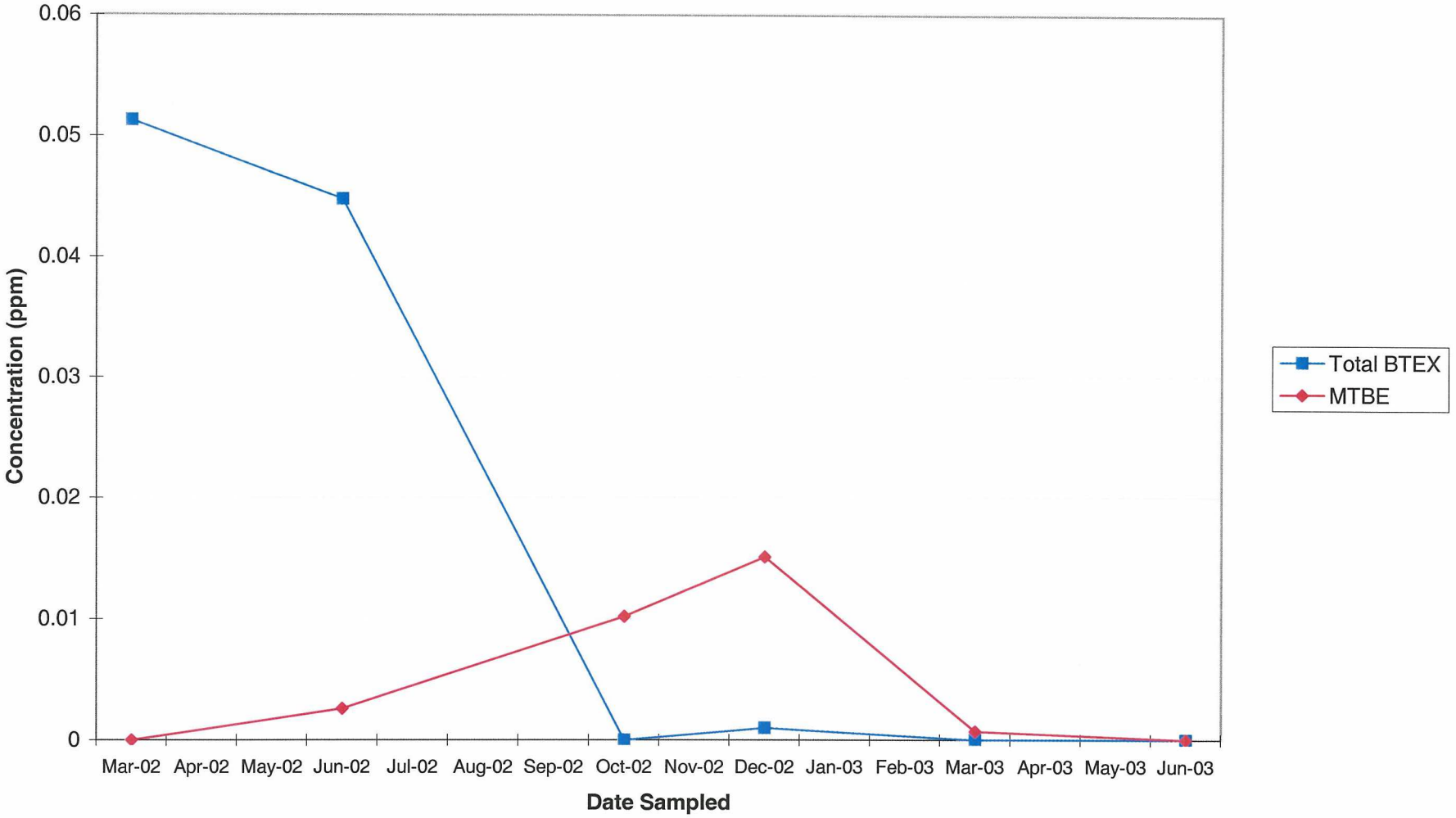
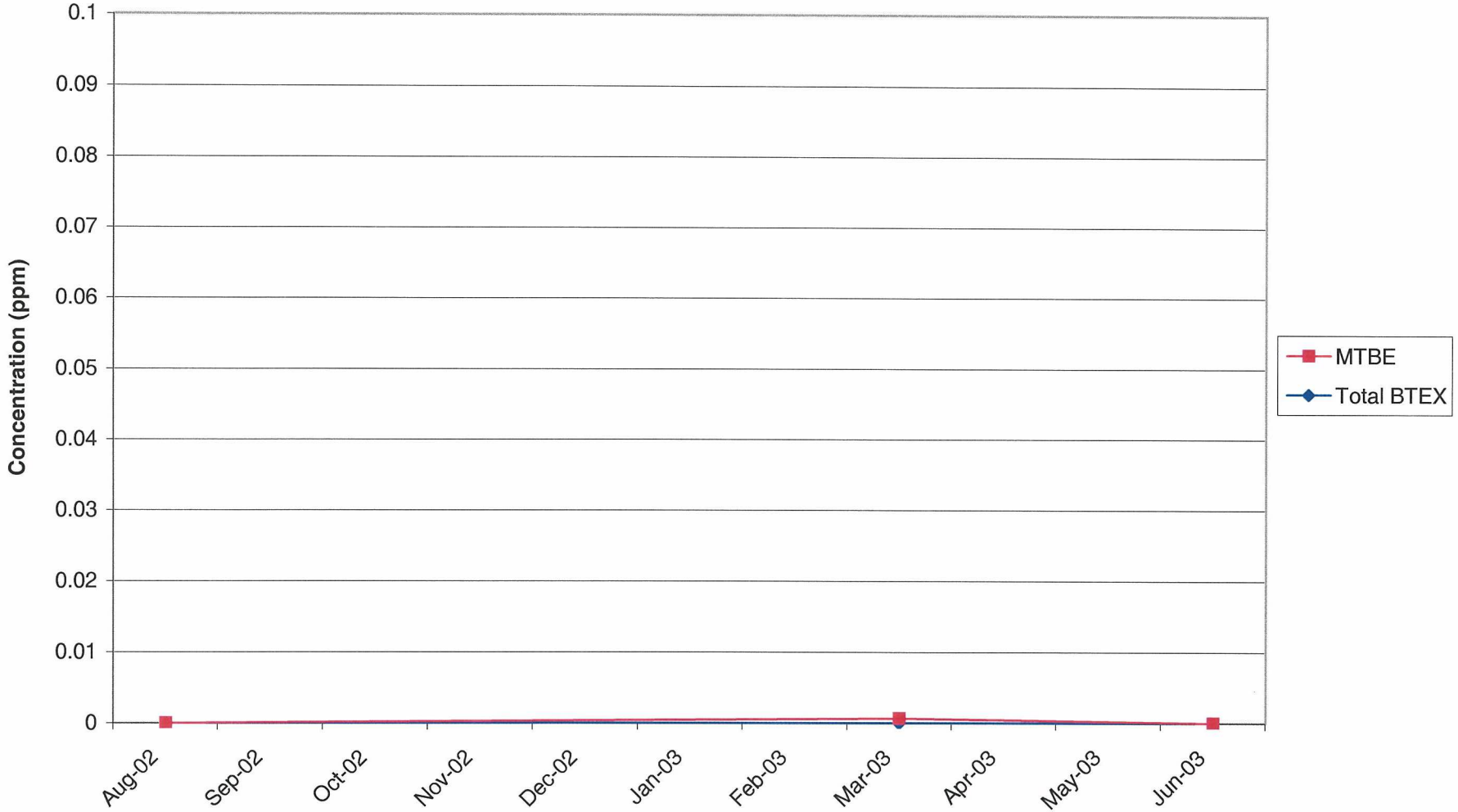
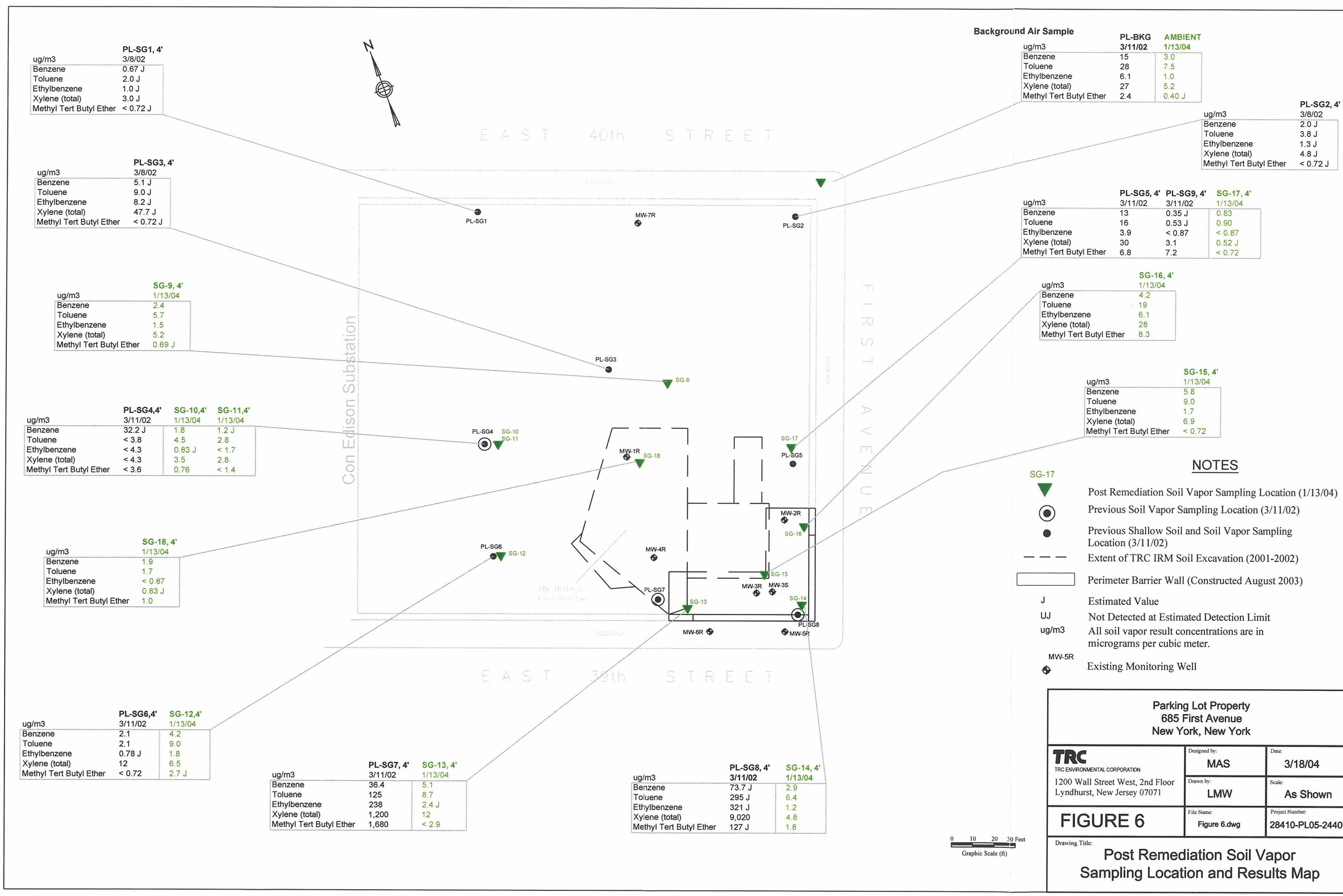


Figure 5
WS-MW-2R
Groundwater VOC Sampling Trend Data Chart





PL-SG1, 4'

ug/m3	3/8/02
Benzene	0.67 J
Toluene	2.0 J
Ethylbenzene	1.0 J
Xylene (total)	3.0 J
Methyl Tert Butyl Ether	< 0.72 J

PL-SG3, 4'

ug/m3	3/8/02
Benzene	5.1 J
Toluene	9.0 J
Ethylbenzene	8.2 J
Xylene (total)	47.7 J
Methyl Tert Butyl Ether	< 0.72 J

SG-9, 4'

ug/m3	1/13/04
Benzene	2.4
Toluene	5.7
Ethylbenzene	1.5
Xylene (total)	5.2
Methyl Tert Butyl Ether	0.69 J

PL-SG4,4' | SG-10,4' | SG-11,4'

ug/m3	3/11/02	1/13/04	1/13/04
Benzene	32.2 J	1.8	1.2 J
Toluene	< 3.8	4.5	2.8
Ethylbenzene	< 4.3	0.83 J	< 1.7
Xylene (total)	< 4.3	3.5	2.8
Methyl Tert Butyl Ether	< 3.6	0.76	< 1.4

SG-18, 4'

ug/m3	1/13/04
Benzene	1.9
Toluene	1.7
Ethylbenzene	< 0.87
Xylene (total)	0.83 J
Methyl Tert Butyl Ether	1.0

PL-SG6,4' | SG-12,4'

ug/m3	3/11/02	1/13/04
Benzene	2.1	4.2
Toluene	2.1	9.0
Ethylbenzene	0.78 J	1.8
Xylene (total)	12	6.5
Methyl Tert Butyl Ether	< 0.72	2.7 J

PL-SG7, 4' | SG-13, 4'

ug/m3	3/11/02	1/13/04
Benzene	36.4	5.1
Toluene	125	8.7
Ethylbenzene	238	2.4 J
Xylene (total)	1,200	12
Methyl Tert Butyl Ether	1,680	< 2.9

PL-SG8, 4' | SG-14, 4'

ug/m3	3/11/02	1/13/04
Benzene	73.7 J	2.9
Toluene	295 J	6.4
Ethylbenzene	321 J	1.2
Xylene (total)	9,020	4.8
Methyl Tert Butyl Ether	127 J	1.8

Background Air Sample

PL-BKG | AMBIENT

ug/m3	3/11/02	1/13/04
Benzene	15	3.0
Toluene	28	7.5
Ethylbenzene	6.1	1.0
Xylene (total)	27	5.2
Methyl Tert Butyl Ether	2.4	0.40 J

PL-SG2, 4'

ug/m3	3/8/02
Benzene	2.0 J
Toluene	3.8 J
Ethylbenzene	1.3 J
Xylene (total)	4.8 J
Methyl Tert Butyl Ether	< 0.72 J

PL-SG5, 4' | PL-SG9, 4' | SG-17, 4'

ug/m3	3/11/02	3/11/02	1/13/04
Benzene	13	0.35 J	0.83
Toluene	16	0.53 J	0.90
Ethylbenzene	3.9	< 0.87	< 0.87
Xylene (total)	30	3.1	0.52 J
Methyl Tert Butyl Ether	6.8	7.2	< 0.72

SG-16, 4'

ug/m3	1/13/04
Benzene	4.2
Toluene	19
Ethylbenzene	6.1
Xylene (total)	28
Methyl Tert Butyl Ether	8.3

SG-15, 4'

ug/m3	1/13/04
Benzene	5.8
Toluene	9.0
Ethylbenzene	1.7
Xylene (total)	6.9
Methyl Tert Butyl Ether	< 0.72

NOTES

- SG-17 — Post Remediation Soil Vapor Sampling Location (1/13/04)
- Previous Soil Vapor Sampling Location (3/11/02)
- Previous Shallow Soil and Soil Vapor Sampling Location (3/11/02)
- Extent of TRC IRM Soil Excavation (2001-2002)
- Perimeter Barrier Wall (Constructed August 2003)
- J — Estimated Value
- UJ — Not Detected at Estimated Detection Limit
- ug/m3 — All soil vapor result concentrations are in micrograms per cubic meter.
- MW-5R — Existing Monitoring Well

0 10 20 30 Feet
Graphic Scale (ft)

Parking Lot Property
685 First Avenue
New York, New York

TRC
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Designed by:	Date:
MAS	3/18/04
Drawn by:	Scale:
LMW	As Shown
File Name:	Project Number:
Figure 6.dwg	28410-PL05-2440T

FIGURE 6

Drawing Title:
Post Remediation Soil Vapor Sampling Location and Results Map

Tables

Table 1
Parking Lot Property
685 First Avenue, New York, NY
Waste Characterization Composite TCLP Soil Sample Results

Sample ID	**Composite of Samples 26, 27, 29, 30-32, 34, 36[1]**	**Composite of Samples 1, 2, 43, 45-50[2]**	
Date Sampled	05/07/02	05/07/02	RCRA
Matrix	Soil	Soil	Criteria
Lab ID	N13806-60	N13806-61	mg/L
VOC TCLP (mg/L)			
Benzene	< 0.0050	< 0.0050	0.5
2-Butanone	< 0.025	< 0.025	200
Carbon Tetrachloride	< 0.0050	< 0.0050	0.5
Chlorobenzene	< 0.010	< 0.010	100
Chloroform	< 0.025	< 0.025	6
1,4-Dichlorobenzene	< 0.025	< 0.025	7.5
1,2-Dichloroethane	< 0.010	< 0.010	0.5
1,1-Dichloroethene	< 0.010	< 0.010	0.7
Tetrachloroethene	< 0.0050	< 0.0050	0.7
Trichloroethene	< 0.0050	< 0.0050	0.5
Vinyl chloride	< 0.0050	< 0.0050	0.2
SVOC TCLP (mg/L)			
2-Methylphenol	< 0.050	< 0.050	200
3&4-Methylphenol	< 0.050	< 0.050	200
Pentachlorophenol	< 0.20	< 0.20	100
2,4,5-Trichlorophenol	< 0.050	< 0.050	400
2,4,6-Trichlorophenol	< 0.050	< 0.050	2
1,4-Dichlorobenzene	< 0.020	< 0.020	7.5
2,4-Dinitrotoluene	< 0.020	< 0.020	0.13
Hexachlorobenzene	< 0.020	< 0.020	0.13
Hexachlorbutadiene	< 0.020	< 0.020	0.5
Hexachloroethane	< 0.050	< 0.050	3
Nitrobenzene	< 0.020	< 0.020	2
Pyridine	< 0.020	< 0.020	5
Herbicide TCLP (mg/L)			
2,4-D	< 0.0050	< 0.0050	10
2,4,5-TP (Silvex)	< 0.0010	< 0.0010	1
Pesticide TCLP (mg/L)			
gamma-BHC (Lindane)	< 0.00020	< 0.00020	0.4
Chlordane	< 0.0050	< 0.0050	0.03
Endrin	< 0.00020	< 0.00020	0.02
Heptachlor	< 0.00020	< 0.00020	0.008
Heptachlor epoxide	< 0.00020	< 0.00020	0.008
Methoxychlor	< 0.00050	< 0.00050	10
Toxaphene	< 0.0025	< 0.0025	0.5
Metals TCLP (mg/L)			
Arsenic	< 0.50	< 0.50	5
Barium	< 1.0	< 1.0	100
Cadmium	< 0.0050	< 0.0050	1
Chromium	< 0.010	< 0.010	5
Lead	< 0.50	< 0.50	5
Mercury	< 0.00020	< 0.00020	0.2
Selenium	< 0.50	< 0.50	1
Silver	< 0.010	< 0.010	5

Legend

[1] This is a composite of soil from the following borings: PL-12, 0-2'; PL-12, 2-4'; PL-15, 0-2'; PL-15, 2-4'; PL-15, 4-6'; PL-15, 6-8'; PL-14, 0-2'; PL-13, 1-3'

[2] This is a composite of soil from the following borings: PL-23, 0-2'; PL-23, 2-4'; PL-18, 0-2'; PL-19, 0-2'; PL-19, 2-4'; PL-19, 4-6'; PL-21, 0-2'; PL-21, 2-4'; PL-21, 4-8'

<6 - Undetected at detection limit shown

mg/L = milligrams per liter (parts per million)

Table 2

Parking Lot Property
685 First Avenue, New York, NY
Waste Characterization General Chemistry Soil Sample Results

Sample ID *Depth (ft)* *Split Spoon Recovery* *Date Sampled* *Matrix* *Lab ID*	**Composite of Samples 26, 27, 29, 30-32, 34, 36**[1] 05/07/02 Soil N13806-60	**Composite of Samples 1, 2, 43, 45-50**[2] 05/07/02 Soil N13806-61	RCRA Criteria
General Chemistry			
Corrosivity as pH	8.32 NC	9.49 NC	<2 or >12.5
Cyanide Reactivity (mg/kg)	< 1.6	< 1.6	NC
Ignitability (Flashpoint) (^{0}F)	> 200	> 200	<140^{0}F
Sulfide Reactivity (mg/kg)	52.7	< 50	NC

Legend

[1] This is a composite of soil from the following borings: PL-12, 0-2'; PL-12, 2-4'; PL-15, 0-2'; PL-15, 2-4'; PL-15, 4-6'; PL-15, 6-8'; PL-14, 0-2'; PL-13, 1-3'

[2] This is a composite of soil from the following borings: PL-23, 0-2'; PL-23, 2-4'; PL-18, 0-2'; PL-19, 0-2'; PL-19, 2-4'; PL-19, 4-6'; PL-21, 0-2'; PL-21, 2-4'; PL-21, 4-8'

<6 - Undetected at detection limit shown
NC - No criterion
mg/kg = milligrams per kilogram (parts per million)

Table 3A
Parking Lot Property
685 First Avenue, New York, NY
Delineation Soil Sampling Results - VOCs

Sample ID	PL-RWP-VOC1	PL-RWP-VOC2	PL-RWP-VOC3	PL-RWP-VOC4	PL-RWP-VOC5	PL-RWP-VOC6	PL-RWP-VOC7	PL-RWP-VOC8	
Depth (ft)									
Date Sampled	12/27/02	12/27/02	12/27/02	12/27/02	12/27/02	12/27/02	12/27/02	12/27/02	
Matrix	Weathered Bedrock	Weathered Bedrock	Weathered Bedrock	Weathered Bedrock	Weathered Bedrock	Weathered Bedrock	Weathered Bedrock	Weathered Bedrock	
Lab ID	N29654-1	N29654-2	N29654-3	N29654-4	N29654-5	N29654-6	N29654-7	N29654-8	TAGM RSCO
Volatile Organic Compounds (ug/kg)									
Acetone	< 15	< 11	< 11	< 14	< 15	< 13	< 14	< 13	200
Benzene	< 1.5	< 1.1	< 1.1	< 1.4	< 1.5	< 1.3	< 1.4	< 1.3	60 or MDL
2-Butanone (MEK)	< 15	< 11	< 11	< 14	< 15	< 13	< 14	< 13	300
n-Butylbenzene	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	10,000
sec-Butylbenzene	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	10,000
tert-Butylbenzene	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	10,000
Carbon disulfide	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	2,700
Carbon tetrachloride	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	600
Chlorobenzene	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	1,700
Chloroethane	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	1,900
Chloroform	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	300
Dibromochloromethane	< 7.3	< 5.6	< 5.5	< 7.0	< 3.0	< 6.4	< 6.9	< 6.4	N/A
1,2-Dichlorobenzene	< 2.9	< 2.3	< 2.2	< 2.8	< 3.0	< 2.6	< 2.7	< 2.6	7,900
1,3-Dichlorobenzene	< 2.9	< 2.3	< 2.2	< 2.8	< 3.0	< 2.6	< 2.7	< 2.6	1,600
1,4-Dichlorobenzene	< 2.9	< 2.3	< 2.2	< 2.8	< 7.4	< 2.6	< 2.7	< 2.6	8,500
1,1-Dichloroethane	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	200
1,2-Dichloroethane	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	100
1,1-Dichloroethene	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	400
trans-1,2-Dichloroethene	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	300
1,3-Dichloropropane	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	300
Ethylbenzene	< 1.5	< 1.1	< 1.1	< 1.4	< 1.5	< 1.3	< 1.4	< 1.3	5,500
Freon 113	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	6,000
Isopropylbenzene	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	2,300
p-Isopropyltoluene	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	10,000
Methyl Tert Butyl Ether	3.0	< 1.1	< 1.1	7.3	< 1.5	< 1.3	< 1.4	< 1.3	120
4-Methyl-2-pentanone (MIBK)	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	1,000
Methylene chloride	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	100
Naphthalene	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	13,000
n-Propylbenzene	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	3,700
1,1,2,2-Tetrachloroethane	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	600
Tetrachloroethene	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	1,400
Toluene	< 1.5	< 1.1	< 1.1	< 1.4	< 1.5	< 1.3	< 1.4	< 1.3	1,500
1,2,4-Trichlorobenzene	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	3,400
1,1,1-Trichloroethane	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	800
Trichloroethene	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	1,400
1,2,3-Trichloropropane	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	400
1,2,4-Trimethylbenzene	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	10,000
1,3,5-Trimethylbenzene	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	3,300
Vinyl chloride	< 7.3	< 5.6	< 5.5	< 7.0	< 7.4	< 6.4	< 6.9	< 6.4	200
Xylene (total)	< 2.9	< 2.3	< 2.2	< 2.8	< 3.0	< 2.6	< 2.7	< 2.6	1,200

Legend
MDL - Method Detection Limit
<6.0 - Undetected at detection limit shown
N/A - Not available
NS = No TAGM standard available
ug/kg = micrograms per kilogram (parts per billion)
Shaded areas represent a concentration exceeding the TAGM RSCO crtiteria

Table 3B
Parking Lot Property
685 First Avenue, New York, NY
Delineation Soil Sampling Results - Lead

Sample ID	PL-RWP-EP1	PL-RWP-EP2	PL-RWP-EP22	PL-RWP-EP3	PL-RWP-EP4	PL-RWP-EP5	PL-RWP-EP6	PL-RWP-EP7A	PL-RWP-EP7	PL-RWP-EP7B	PL-RWP-EP08	PL-RWP-EP09	PL-RWP-EP10	PL-RWP-EP11	PL-RWP-EP12	PL-RWP-EP13	
Depth (ft)																	
Date Sampled	12/24/02	12/24/02	12/24/02	12/24/02	12/27/02	12/24/02	12/24/02	01/16/03	12/30/02	01/16/03	01/03/03	01/08/03	01/09/03	01/10/03	01/14/03	01/15/03	
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	TAGM RSCO
Lab ID	N29559-4	N29559-2	N29559-3	N29559-1	N29559-5	N29559-6	N29559-7	N31207-1		N31207-2	N30771-1	N30771-2	N30771-3	N30771-4	N30771-5	N30771-6	
Lead (mg/kg)	54.1 J	15.4 J	16.8 J	104 J	209 J	20.2 J	9.1 J	1470 J	1110	303 J	3.1 J	3.1 J	2.7	31.6 J	12.6 J	11.2 J	500

Avg. Pb concentration of EP7, EP7A, and EP7B = 961 mg/kg

Legend
MDL - Method Detection Limit
<6.0 - Undetected at detection limit shown
N/A - Not available
mg/kg = milligrams per kilogram (parts per billion)
Shaded areas represent a concentration exceeding the TAGM RSCO crtiteria

Table 4

Parking Lot Property
685 First Avenue, New York, NY
Groundwater Sampling Results - June 2002

Sample ID	MW-1R	MW-2R	MW-3S	MW-3R	MW-33R[b]	MW-4R	MW-5R	MW-6R	MW-7R		FB-6/28/02	TRIP BLANK
Date Sampled	06/28/02	06/28/02	06/28/02	06/28/02	06/28/02	06/28/02	06/28/02	06/28/02	06/28/02		06/28/02	06/28/02
Dissolved Oxygen	4.50	2.00	4.00	9.00		1.50	3.50	4.00	5.50		--	--
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	TOGS Drinking	Aqueous Blank	Aqueous Blank
Lab ID	N17432-5	N17432-9	N17432-2	N17432-3	N17432-4	N17432-6	N17432-7	N17432-8	N17432-10	Water Criteria (GA) (ug/L)	N17432-1	N17432-11
Purgeable Aromatics, MTBE (ug/L)												
Benzene	8740	38.6	14.8	6910	98.1	115	3530	2190	< 1.0	1	< 1.0	< 1.0
Toluene	18400	381	5.9	737	722	42.2 J	3210	6300	6.1	5	<1.0	<1.0
Ethylbenzene	2140	183	2.0	668	617	33.6 J	1730	2630	8.2	5	< 1.0	<1.0
Xylenes	13700	705	17.2	349	322	106	20800	15400	32.5	5[a]	< 1.0	< 1.0
Methyl-Tert-Butyl-Ether	136000	2580	1720	1200	1080	31300	43700	9210	2.6 U	10	12.9 U	<1.0

Legend

[a] There is no groundwater criteria for total Xylenes. The standard for 1,2-Xylene, 1,3-Xylene, and 1,4 Xylene is 5 ug/L, respectively.
[b] Sample MW-33R is a duplicate sample of MW-3R
[c] TOGS Guidance Value
J - Estimated value
<12000 - Undetected at detection limit shown.
ug/L = micrograms per Liter (parts per billion)
Shaded areas represent a concentration exceeding the TOGS Drinking Water Criteria (GA) values
NS No TOGS Standard available

Table 5

Parking Lot Property
685 First Avenue, New York, NY
Groundwater Sampling Results - September 2002

Sample ID	MW-1R	MW-2R	MW-3S	MW-3R	MW-33R[b]	MW-4R	MW-5R	MW-6R	MW-7R		FB-6/28/02	TRIP BLANK
Date Sampled	10/10/02	10/09/02	10/08/02	10/09/02	10/09/02	10/09/02	10/09/02	10/10/02	10/10/02		10/10/02	10/10/02
Dissolved Oxygen	< 1.0	2.00	1.00	5.00	5.00	1.00	< 1.00	4.00	4.50		--	--
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater		Aqueous Blank	Aqueous Blank
Lab ID	N24437-8	N24437-4	N24437-3	N24437-1	N24437-2	N24437-6	N24437-5	N24437-9	N24437-7	TOGS Drinking Water Criteria (GA) (ug/L)	N24437-10	N24437-11
Purgeable Aromatics, MTBE (ug/L)												
Benzene	7350	31.8	< 20[d]	30.3	26.9	< 50	616	1550	< 1.0	1	< 1.0	< 1.0
Toluene	16600	25.4	27.7	67.1	57.9	< 50	678	3820	< 1.0	5	<1.0	<1.0
Ethylbenzene	1950	111	< 20[d]	82.6	78.6	< 50	441	2100	< 1.0	5	< 1.0	<1.0
Xylenes	16600	524	75.4	482	493	62.9	7070	11600	< 1.0	5[a]	< 1.0	< 1.0
Methyl-Tert-Butyl-Ether	88500	2170	6660	4330	4160	15000	35400	5850	10.2 U	10	3.1 U	<1.0

Legend

[a] There is no groundwater criteria for total Xylenes. The standard for 1,2-Xylene, 1,3-Xylene, and 1,4 Xylene is 5 ug/L, respectively.

[b] Sample MW-33R is a duplicate sample of MW-3R

[c] TOGS Guidance Value

[d] Method detection Limit exceeds TOGS Drinkg Water Criteria

<12000 - Undetected at detection limit shown.

ug/L = micrograms per Liter (parts per billion)

Shaded areas represent a concentration exceeding the TOGS Drinking Water Criteria (GA) values

Table 6

Parking Lot Property
685 First Avenue, New York, NY
Groundwater Sampling Results - December 2002

Sample ID	**MW-1R**	**MW-2R**	**MW-3S**	**MW-31S[b]**	**MW-3R**	**MW-4R**	**MW-5R**	**MW-6R**	**MW-7R**		**FB-12/18/02**
Date Sampled	12/17/02	12/17/02	12/17/02	12/17/02	12/17/02	12/17/02	12/17/02	12/17/02	12/17/02		10/10/02
Dissolved Oxygen	<1.0	<1.0	8.0	7.0	7.0	11.5	11.0	3.5	5.0		--
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	TOGS Drinking Water Criteria (GA) (ug/L)	Aqueous Blank
Lab ID	N29280-5	N29280-7	N29280-2	N29280-3	N29280-8	N29280-6	N29280-10	N29280-9	N29280-1		N29280-4
Purgeable Aromatics, MTBE (ug/L)											
Benzene	857	21.3	5.5 J	< 20[d]	20.4	< 25[d]	< 50	619	< 1.0	1	< 1.0
Toluene	2650	26.6	4.5 J	< 20[d]	21.7	< 25[d]	30.4 J	1320	< 1.0	5	<1.0
Ethylbenzene	325	123	< 10[d]	< 20[d]	33.8	< 25[d]	53.7	559	< 1.0	5	< 1.0
Xylenes	7100	593	8.3 J	< 20[d]	258	< 25[d]	601	3470	1.0	5[a]	< 1.0
Methyl-Tert-Butyl-Ether	37400	2560	4830	4740	3890	16300	20900	5260	15.1	10	< 1.0

Legend

[a] There is no groundwater criteria for total Xylenes. The standard for 1,2-Xylene, 1,3-Xylene, and 1,4 Xylene is 5 ug/L, respectively.

[b] Sample MW-31S is a duplicate sample of MW-3S

[c] TOGS Guidance Value

[d] Method Detection Limit exceeds TOGS Drinking Water Criteria

<12000 - Undetected at detection limit shown.

ug/L = micrograms per Liter (parts per billion)

Shaded areas represent a concentration exceeding the TOGS Drinking Water Criteria (GA) values

Table 7

Parking Lot Property
685 First Avenue, New York, NY
Groundwater Sampling Results - March 2003

Sample ID	MW-1R	MW-2R	WS-MW-2R[c]	MW-3S	MW-33S[b]	MW-3R	MW-4R	MW-5R	MW-6R	MW-7R		FB-03/28/03
Date Sampled	03/28/03	03/27/03	03/28/03	03/27/03	03/27/03	03/28/03	03/28/03	03/28/03	03/28/03	03/26/03		03/28/03
Dissolved Oxygen	12.00	4.00	3.00	1.0	1.0	4.0	12.0	10.0	5.0	1.0		--
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	TOGS Drinking Water Criteria (GA) (ug/L)	Aqueous Blank
Lab ID	N35692-6	N35692-2	N35692-7	N35692-3	N35692-4	N35692-5	N35692-8	N35692-10	N35692-9	N35692-1		N35692-11
Purgeable Aromatics, MTBE (ug/L)												
Benzene	1020	19.4	< 1.0	3.6	4.0	20.9	1.1	63.8 J	237	< 1.0	1	< 1.0
Toluene	2160	13.5* U	< 1.0	2.7 U	3.0	34.4	1.0 U	169* U	921	< 1.0	5	0.55 J
Ethylbenzene	284	46.5	< 1.0	0.81 J	0.80 J	62.9	0.79 J	234	454	< 1.0	5	< 1.0
Xylenes (total)	3320	269	< 1.0	12.7	13.4	342	2.7	2050	3470	< 1.0	5[a]	< 1.0
Methyl-Tert-Butyl-Ether	45600	3780	1 U	790	937	2280	1210	19800	2460	1.0 U	10	4.9

Legend

[a] There is no groundwater criteria for total Xylenes. The standard for 1,2-Xylene, 1,3-Xylene, and 1,4 Xylene is 5 ug/L, respectively.

[b] Sample MW-33S is a duplicate sample of MW-3S

[c] WS-MW-2R is the downgradient bedrock well located on 39th Street in the Waterside Station

<1.0 - Undetected at detection limit shown.

ug/L = micrograms per Liter (parts per billion)

Shaded areas represent a concentration exceeding the TOGS Drinking Water Criteria (GA) values

Table 8

Parking Lot Property
685 First Avenue, New York, NY
Groundwater Sampling Results -June 2003

Sample ID	MW-1R	MW-2R	WS-MW-2R[c]	MW-3S	MW-33S[b]	MW-3R	MW-4R	MW-5R	MW-6R	MW-7R		FB-03/28/03
Date Sampled	06/11/03	06/09/03	06/11/03	06/09/03	06/09/03	06/11/03	06/11/03	06/11/03	06/11/03	06/09/03		06/10/03
Dissolved Oxygen												--
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	TOGS Drinking Water Criteria (GA) (ug/L)	Aqueous Blank
Lab ID	N41282-8	N41282-2	N41282-11	N41282-3	N41282-4	N41282-6	N41282-7	N41282-10	N41282-9	N41282-1		N41282-5
Purgeable Aromatics, MTBE (ug/L)												
Benzene	1350	16.0	< 1.0 U	5.2	3.8	14.2	< 20.0 U	< 20.0 U	294	< 1.0 U	1	< 1.0 U
Toluene	4060	18.9	< 1.0 U	6.2	4.3	26.9	< 20.0 U	< 20.0 U	764	< 1.0 U	5	< 1.0 U
Ethylbenzene	266	86.6	< 1.0 U	2.0	1.5	26.3	< 20.0 U	< 20.0 U	493	< 1.0 U	5	< 1.0 U
Xylenes (total)	3840	383	< 1.0 U	21.0	14.9	160	< 20.0 U	25.5	2560	< 1.0 U	5[a]	< 1.0 U
Methyl-Tert-Butyl-Ether	18200	1890	< 1.0 U	891	802	1340	7450	16000	797	< 1.0 U	10	< 1.0 U

Legend

[a] There is no groundwater criteria for total Xylenes. The standard for 1,2-Xylene, 1,3-Xylene, and 1,4 Xylene is 5 ug/L, respectively.

[b] Sample MW-33S is a duplicate sample of MW-3S

[c] WS-MW-2R is the downgradient bedrock well located on 39th Street in the Waterside Station

<1.0 U - Undetected at detection limit shown.

ug/L = micrograms per Liter (parts per billion)

Shaded areas represent a concentration exceeding the TOGS Drinking Water Criteria (GA) values

Table 9
First Avenue Properties
39th Street Parking Lot
June 2002 Monthly Groundwater Monitoring

	MW1R	MW2R	MW3R	MW3S	MW4R	MW5R	MW6R	MW7R
Sample Date	6/28/2002	6/28/2002	6/28/2002	6/28/2002	6/28/2002	6/28/2002	6/28/2002	6/28/2002
Sample Time	1544	1743	1512	1300	1609	1657	1719	1815
Chemets Kit (K-7512) Dissolved Oxygen 1- 12 mg/l range	4.5	2	9	4	1.5	3.5	4	282
Chemets Kit (K-6502) Dissolved Manganese 0-2 ppm range	0	0	0	0	0	0	0	0
Chemets Kit (K-6502D) Dissolved Manganese 0-50 ppm range	*	*	*	*	*	*	*	*
Chemets Kit (K-6010) Soluble Iron 0-10 ppm range	>10	1	1	2	>10	>10	2.5	0.1
Chemets Kit (K-6010) Total Iron 0-10 ppm range	>10	1	2.5	2	>10	>10	2.5	0.2
Chemets Kit (K-6010C) Soluble Iron 0-10,000 ppm range	50	*	*	*	50	10-100	*	*
Chemets Kit (K-6010C) Total Iron 0-10,000 ppm range	75-112	*	*	*	15-100	75-150	*	*

Notes
Chemets Kit test were run during sample collection from disposable teflon bailers
* High range tests not necessary due to low range results

Table 9
First Avenue Properties
39th Street Parking Lot
June 2002 Monthly Groundwater Monitoring

Well	Time	Gallons Purged	pH	Conductivity (mS/cm)	Turbidity (NTUs)	Temperature °C	Oxidation-Reduction Potential (mV)	PID (ppm)
MW1R	1349	0	7.43	6.04	262	18.0	N/A	282
	1469	10	7.25	5.78	50	17.6		
	1420	20	7.20	4.97	18	16.9		
	1431	30	7.20	4.90	18	16.7		
MW2R	1202	0	11.70	4.61	8.0	16.4	-319	42.1
	1214	20	12.64	4.69	9.5	16.2	-229	
	1228	40	12.06	4.61	8.0	16.3	-250	
	1244	60	12.04	4.28	2.7	16.2	-243	
	1256	80	11.99	4.08	2.9	16.3	-210	
MW3R	1119	0	12.21	4.82	<10	16.1	N/A	101
	1134	10	12.19	4.74	<10	17.1		
	1149	20	12.29	4.72	<10	16.2		
	1200	30	12.32	4.78	<10	16.3		
	1210	40	12.33	4.66	<10	16.6		
MW3S	1018	0	12.29	6.77	130	16.7	N/A	22.4
	1027	2.5	12.22	6.84	<10	17.3		
	1032	5	12.25	6.79	<10	17.2		
MW4R	1040	0	7.45	4.89	14	17.2	-225	14
	1102	15	7.47	4.68	15	17	-256	
	1117	30	7.46	4.67	16	17	-263	
	1127	40	7.44	4.78	19.9	16.7	-255	
MW5R	1622	0	8.24	4.41	20	18	N/A	274
	1634	10	8.21	4.39	9.6	18.5		
	1642	20	8.18	4.39	<10	18.3		
	1655	30	8.16	4.25	<10	18.1		
	1705	40	8.22	4.34	<10	17.2		
MW6R	0829	0	9.51	5.26	17	17.9		257
	0846	20	9.96	5.32	32	17.3	-421	
	0900	40	9.48	4.68	109	17.2	-270	
	0948	60	8.66	4.63	38	17.7	-294	
	1004	80	8.44	4.73	39	17.7	-288	
MW7R	1351	0	7.58	2.88	6.4	19.1	67	1.4
	1408	20	6.99	2.51	45	18.05	68	
	1440	40	7.25	2.62	13.1	19.02	77	

Notes
Parameters were collected using a Horiba U-10 water quality meter
PID readings collected with miniRAE 2000
Turbidity collected using H.F. Sci Model DRT-15CE Turbidity Meter
ORP measurements taken with ORION model 1230 water quality checker
N/A - Results not available. Field sampling omission.

Table 9
First Avenue Properties
39th Street Parking Lot
July 2002 Monthly Groundwater Monitoring

	MW1R	MW2R	MW3R	MW3S	MW4R	MW5R	MW6R	MW7R
Sample Date	7/31/2002	7/31/2002	7/31/2002	7/31/2002	7/31/2002	7/31/2002	7/30/2002	7/31/2002
Sample Time	1520	1322	1345	1305	1600	1630	1545	1422
Chemets Kit (K-7512) Dissolved Oxygen 1- 12 mg/l range	11	2.5	9	4.5	7	2.5	3.5	7
Chemets Kit (K-6502) Dissolved Manganese 0-2 ppm range	0	0	0	0	0	0	0	0
Chemets Kit (K-6502D) Dissolved Manganese 0-50 ppm range	*	*	*	*	*	*	*	*
Chemets Kit (K-6010) Soluble Iron 0-10 ppm range	>10	1.5	4.5	0.7	>10	>10	4	>10
Chemets Kit (K-6010) Total Iron 0-10 ppm range	>10	1	7.5	0.7	>10	>10	4	>10
Chemets Kit (K-6010C) Soluble Iron 0-10,000 ppm range	350	*	*	*	100	10-1000	*	150
Chemets Kit (K-6010C) Total Iron 0-10,000 ppm range	300	*	*	*	450	75	*	1350

Notes
Chemets Kit test were run during sample collection from disposable teflon bailers

Table 9
First Avenue Properties
39th Street Parking Lot
July 2002 Monthly Groundwater Monitoring

Well	Date	Time	Gallons Purged	pH	Conductivity (mS/cm)	Turbidity (NTUs)	Temperature ^{0}C	PID (ppm)
MW1R	7/31/2002	N/A	0	9.12	5.42	340	17.6	370
	7/31/2002		15	9.06	5.35	16	17.1	
	7/31/2002		25	9.02	4.99	17	17.1	
	7/31/2002		30					
MW2R	7/31/2002	N/A		8.84	4.1	8.0	17	18.3
	7/31/2002			9.09	4.08	3.0	16.9	
	7/31/2002			9.19	4.06	9.0	16.9	
	7/31/2002		40					
MW3R	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.5
MW3S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24.3
MW4R	7/31/2002	N/A		9.41	4.07	20	17.3	27.8
	7/31/2002			9.28	4.2	9	17.1	
	7/31/2002		20					
MW5R	N/A	N/A	N/A	N/A	N/A	N/A	N/A	817
MW6R	N/A	N/A	N/A	N/A	N/A	N/A	N/A	516
MW7R	7/31/2002	N/A	0	8.7	2.56	53	19.8	0
	7/31/2002		10	8.61	2.38	3	19.7	
	7/31/2002		12.5					

Notes
Parameters were collected using a Horiba U-10 water quality meter
PID reading collected with miniRAE 2000
N/A - Results not available. Field sampling omission.

Table 9
First Avenue Properties
39th Street Parking Lot
August 2002 Monthly Groundwater Monitoring

	MW1R	MW2R	MW3R	MW3S	MW4R	MW5R	MW6R	MW7R
Sample Date	8/29/2002	8/29/2002	8/29/2002	8/29/2002	8/29/2002	8/29/2002	8/29/2002	8/29/2002
Sample Time	13:26	11:05	12:15	11:10	12:30	10:05	10:20	8:55
Chemets Kit (K-7512) Dissolved Oxygen 1- 12 mg/l range	2	2	7	3.5	2	1	3.5	5
Chemets Kit (K-6502) Dissolved Manganese 0-2 ppm range	0-0.3	0-0.3	0-0.3	0.3-0.6	0.8-1.0	0-0.3	0.3	0-0.3
Chemets Kit (K-6502D) Dissolved Manganese 0-50 ppm range	*	*	*	*	*	*	*	*
Chemets Kit (K-6010) Soluble Iron 0-10 ppm range	>10	1	0.9	0.8	5	3.5	1	0.2-0.3
Chemets Kit (K-6010) Total Iron 0-10 ppm range	150	1.0	>10	0.8	6	6.0	1.5	2.0
Chemets Kit (K-6010C) Soluble Iron 0-10,000 ppm range	100	*	10-20	*	*	*	*	*

Notes
Chemets Kit test were run during sample collection from disposable teflon bailers
*High range tests not necessary due to low range results.

Table 9
First Avenue Properties
39th Street Parking Lot
August 2002 Monthly Groundwater Monitoring

Well	Date	Time	Gallons Purged	pH	Conductivity	Dissolved Oxygen	Temperature °C	Salinity	Oxidation Reduction Potential
MW1R	8/27/2002	1455	0	6.78	6.02	1.69	23.1	3.2	-93
	8/27/2002	1503	5	6.76	5.98	0.21	17.9	3.2	-129
	8/27/2002	1508	8	6.73	6.08	0.35	17.7	3.3	-126
	8/27/2002	1514	12	6.67	6.00	0.69	17.8	3.2	-114
	8/27/2002	1522	15	6.65	5.94	0.92	18.1	3.2	-104
	8/27/2002	1530	19	6.55	5.75	1.26	18.1	3.1	-87
	8/27/2002	1539	22	6.49	5.63	1.10	18.1	3.0	-63
	8/27/2002	1544	25	6.49	5.61	0.98	18.1	3.0	-55
MW2R	8/28/2002	0924	5	11.98	4.89	0.44	17.2	2.5	-357
	8/28/2002	0926	10	12.03	4.75	0.53	17.3	2.5	-386
	8/28/2002	0929	15	11.98	4.39	0.48	17.6	2.2	-414
	8/28/2002	0935	20	12.00	4.27	0.40	17.7	2.2	-435
	8/28/2002	0938	25	11.96	4.21	0.35	17.8	2.1	-453
	8/28/2002	0944	30	11.98	4.12	0.15	17.8	2.1	-453
	8/28/2002	0949	35	11.95	4.07	0.14	17.8	2.1	-430
	8/28/2002	0955	40	11.97	4.02	0.12	17.8	2.0	-431
MW3R*	8/28/2002	1140	0	12.07	5.90	0.12	17.2	3.1	-175
	8/28/2002	1150	5	12.10	5.89	0.03	17.3	3.1	-310
	8/28/2002	1157	10	12.13	5.90	0.02	17.2	3.1	-325
	8/28/2002	1201	15	12.12	5.90	0.02	17.3	3.1	-340
	8/28/2002	1214	20	–	–	–	–	–	-351
	8/28/2002	1220	25	12.03	4.47	0.42	17.8	2.5	-295
	8/28/2002	1227	30	11.49	1.67	0.15	18.6	0.7	-286
	8/28/2002	1236	35	11.19	1.18	0.31	18.5	0.4	-233
MW3S	8/28/2002	0907	1	12.09	7.39	1.75	18.8	4.0	-303
	8/28/2002	0917	4	12.19	7.32	0.12	18.6	4.0	-283
	8/28/2002	0920	5	12.20	7.32	0.14	18.6	4.0	-284
MW4R	8/28/2002	0815	0	7.20	4.36	0.14	17.6	2.2	-166
	8/28/2002	0826	5	7.02	4.30	0.17	17.8	2.2	-192
	8/28/2002	0841	10	7.02	1.0	1.04	19.1	0.2	-153
MW5R	8/28/2002	1526	0	7.02	4.87	0.26	18.9	2.5	-94
	8/28/2002	1534	6	6.96	4.82	0.19	18.7	2.5	-151
	8/28/2002	1544	10	6.94	4.76	0.64	19.6	2.5	-151
	8/28/2002	1553	15	6.88	4.74	1.01	19.6	2.5	-151
MW6R	8/28/2002	1353	0	11.05	4.90	0.06	17.8	2.6	-293
	8/28/2002	1357	6	11.08	4.91	0.02	17.8	2.6	-374
	8/28/2002	1400	11	11.13	4.90	0.02	18.0	2.6	-396
	8/28/2002	1406	15	11.09	4.91	0.01	18.4	2.6	-426
	8/28/2002	1414	20	11.08	4.85	0.01	18.8	2.5	-443
	8/28/2002	1425	25	11.06	4.70	0.01	18.8	2.4	-456
	8/28/2002	1435	30	11.06	4.41	0.44	19.0	2.3	-458
	8/28/2002	1449	35	11.02	4.32	0.83	18.5	2.2	-455
MW7R	8/28/2002	1642	0	6.93	3.10	4.20	19.3	1.5	-14
	8/28/2002	1647	4	6.91	3.11	4.10	20.1	1.5	39

Notes
Parameters were collected using a Orion Model 1230 through a flow cell
* Flow cell seal was lost @ 20 gallons. Some parameters were not collected.

Table 9
First Avenue Properties
39th Street Parking Lot
September 2002 Monthly Groundwater Monitoring

	MW1R	MW2R	MW3R	MW3S	MW4R	MW5R	MW6R	MW7R
Sample Date	10/10/2002	10/9/2002	10/9/2002	10/8/2002	10/9/2002	10/9/2002	10/10/2002	10/10/2002
Sample Time	9:55	11:40	11:20	16:15	15:10	12:50	11:40	8:05
Chemets Kit (K-7512) Dissolved Oxygen 1- 12 mg/l range	< 1	2	5	1	1	< 1	4	4.5
Chemets Kit (K-6502) Dissolved Manganese 0-2 ppm range	0 - 0.3	0 - 0.3	0 - 0.3	0 - 0.3	0 - 0.3	0 - 0.3	0 - 0.3	0 - 0.3
Chemets Kit (K-6502D) Dissolved Manganese 0-50 ppm range	*	*	*	*	*	*	*	*
Chemets Kit (K-6010) Soluble Iron 0-10 ppm range	> 10	3	1	0.4	2	0.8	0.7	0.7
Chemets Kit (K-6010) Total Iron 0-10 ppm range	15-150	3.0	2.5	0.4	2.5	2.0	1.5	1.5
Chemets Kit (K-6010C) Soluble Iron 0-10,000 ppm range	10 - 100	*	*	*	*	*	*	*
Hach Kit (1R-18C) Ferrous Iron 0 - 10 ppm range	4.2	0.8	0	0.4	0	0.2	0.3	0.3

Notes
Chemets and Hach Kits test were run during sample collection from disposable teflon bailers except for D.O.
Dissolved Oxygen sample was collected using an in-situ snapper sampler.
*High range tests not necessary due to low range results.

Table 9
First Avenue Properties
39th Street Parking Lot
September 2002 Monthly Groundwater Monitoring

Well	Date	Time	Gallons Purged	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature °C	Salinity (%)	Oxidation Reduction Potential (mV)	PID (ppm)
MW1R	10/7/2002	1250	0	9.25	6.61	1.15	18	3.7	-100	1268
	10/7/2002	1305	5	9.24	6.82	0.24	25	3.7	-241	
	10/7/2002	1312	10	9.27	6.9	0.06	18	3.7	-275	
	10/7/2002	1320	15	9.27	6.91	0.03	18.0	3.8	-303	
	10/7/2002	1325	20	9.29	6.91	0.05	18.2	3.8	-307	
	10/7/2002	1331	25	9.2	6.6	0.05	18.4	3.6	-265	
	10/7/2002	1337	27	8.65	5.02	0.27	18.5	2.6	-200	
MW2R	10/9/2002	0854	0	11.71	4.85	0.33	17.6	2.5	-254	6.7
	10/9/2002	0904	5	12.02	4.84	0.09	18.2	2.5	-338	
	10/9/2002	0911	10	12.01	4.80	0.06	18.4	2.5	-386	
	10/9/2002	0920	15	12.00	4.32	0.04	18.6	2.2	-424	
	10/9/2002	0929	20	11.95	4.36	0.03	18.7	2.2	-456	
	10/9/2002	0937	25	12.01	4.42	0.02	18.7	2.3	-473	
	10/9/2002	0946	30	11.95	4.45	0.02	18.7	2.3	-492	
	10/9/2002	0955	35	12.01	4.43	0.02	18.7	2.3	-502	
	10/9/2002	1002	40	11.94	4.43	0.02	18.8	2.3	-512	
	10/9/2002	1011	45	12.00	4.44	0.02	18.8	2.3	-517	
	10/9/2002	1021	50	11.93	4.40	0.02	18.8	2.3	-525	
	10/9/2002	1028	55	11.98	4.37	0.02	18.7	2.2	-527	
	10/9/2002	1035	60	11.93	4.33	0.02	18.7	2.2	-535	
	10/9/2002	1041	65	11.96	4.27	0.02	18.8	2.2	-535	
	10/9/2002	1047	70	11.91	4.17	0.02	18.8	2.1	-531	
	10/9/2002	1055	75	11.94	4.12	0.02	18.8	2.1	-528	
	10/9/2002	1102	80	11.89	4.10	0.02	18.8	2.1	-521	
	10/9/2002	1110	85	11.93	4.09	0.02	18.8	2.1	-522	
	10/9/2002	1117	90	11.88	4.06	0.02	18.8	2.1	-522	
MW3R	10/8/2002	1606	0	11.83	4.74	0.10	18.8	2.5	-211	3.3
	10/8/2002	1613	5	11.07	0.922	0.03	18.1	0.2	-243	
	10/8/2002	1620	10	10.97	0.817	0.02	18.4	0.2	-249	
	10/8/2002	1626	15	10.9	0.677	0.02	18.5	0.1	-259	
	10/8/2002	1633	20	10.81	0.647	0.02	18.7	0.1	-260	
	10/8/2002	1644	25	10.64	0.546	0.03	19.2	0.0	-254	
	10/8/2002	1655	30	10.42	0.475	0.02	19.2	0.0	-173	
MW3S	10/8/2002	1537	0	11.6	6.87	0.22	25.0	1.2	-220	8.2
	10/8/2002	1541	2	12.13	6.99	0.06	19.7	3.9	-351	
	10/8/2002	1543	4	12.17	7.14	0.04	19.5	3.9	-364	
	10/8/2002	1546	6	12.16	7.17	0.03	19.5	3.9	-391	
	10/8/2002	1550	8	12.19	7.19	0.03	19.5	3.9	-387	
MW4R	10/7/2002	1430	0	9.90	5.91	1.07	17.7	3.2	-225	11.1
	10/7/2002	1434	5	9.75	5.68	0.86	17.9	3	-244	
	10/7/2002	1439	10	9.55	5.34	0.73	18.2	2.7	-249	
	10/7/2002	1453	13	8.93	4.69	2.28	18	2.4	-148	
MW5R	10/8/2002	1150	0	10.19	6.78	20.1	19.2	3.7	-29	689
	10/8/2002	1207	5	7.41	6.80	27.7	25.0	3.7	-25	
	10/8/2002	1216	10	10.44	6.69	5.42	20.6	3.6	-53	
	10/8/2002	1228	15	9.71	5.43	0.70	20.8	2.9	-84	
	10/8/2002	1238	20	8.11	4.61	0.31	20.8	2.4	-199	
MW6R	10/8/2002	1326	0	8.45	4.94	0.14	18.9	2.5	-146	847
	10/8/2002	1339	5	8.75	4.76	0.05	18.9	2.5	-233	
	10/8/2002	1352	10	8.42	4.49	0.03	18.8	2.3	-297	
	10/8/2002	1358	15	8.59	4.46	0.02	19.2	2.3	-320	
	10/8/2002	1408	20	8.56	4.42	0.01	19.4	2.3	-347	
	10/8/2002	1421	25	8.77	4.31	0.01	19.6	2.2	-348	
	10/8/2002	1430	30	8.68	4.19	0.19	19.7	2.1	-198	
	10/8/2002	1443	34	8.39	3.88	0.00	20.1	2.0	-161	
	10/9/02	1445	34	8.90	3.91	0.67	18.7	2.0	-146	
	10/9/02	1456	39	9.19	2.19	1.11	19.0	0.9	-165	
	10/9/02	1505	44	9.43	2.25	1.94	19.2	1.0	-161	
	10/9/02	1510	49	9.64	2.26	2.14	19.6	1.0	-160	
	10/9/02	1516	54	9.49	2.27	2.99	19.8	1.0	-150	
	10/9/02	1521	59	9.27	2.26	2.89	19.6	1.0	-148	
MW7R	10/8/2002	1035	0	6.63	2.54	1.38	20.8	1.2	48	0
	10/8/2002	1047	5	6.83	2.29	2.25	20.8	1.0	58	
	10/8/2002	1055	10	6.84	2.22	2.60	21.2	1.0	64	
	10/8/2002	1102	14	6.86	2.09	2.87	22.2	0.9	45	

Notes
Parameters were collected using an Orion Water Quality meter Model 1230 through a flow cell
PID readings collected using miniRAE 2000

Table 9
First Avenue Properties
39th Street Parking Lot
October 2002 Monthly Groundwater Monitoring

	MW1R	MW2R	MW3R	MW3S	MW4R	MW5R	MW6R	MW7R
Sample Date	10/29/2002	10/29/2002	10/29/2002	10/29/2002	10/30/2002	10/30/2002	10/29/2002	10/28/2002
Sample Time	14:00	15:45	12:15	11:07	11:00	11:35	15:00	13:30
Chemets Kit (K-7512) Dissolved Oxygen 1- 12 mg/l range	< 1	2	2	1	10	2	10	6
Chemets Kit (K-6502) Dissolved Manganese 0-2 ppm range	0.3 - 0.6	0 - 0.3	0 - 0.3	0 - 0.3	0 - 0.3	0 - 0.3	0 - 0.3	0
Chemets Kit (K-6502D) Dissolved Manganese 0-50 ppm range	*	*	*	*	*	*	*	*
Chemets Kit (K-6010) Soluble Iron 0-10 ppm range	1 - 2	1 - 2	0.4 - 0.6	0.4	0.1	0.8	0.8	0
Chemets Kit (K-6010) Total Iron 0-10 ppm range	6 - 7	1 - 2	2 - 3	0.4	0.2	1.0	1	0.1
Chemets Kit (K-6010C) Soluble Iron 0-10,000 ppm range	*	*	*	*	*	*	*	*
Hach Kit (1R-18C) Ferrous Iron 0 - 10 ppm range	0.5	0.6	0	0 - 0.2	0	0.2	0.6	0

Notes
Chemets and Hach Kits test were run during sample collection from flow cell or disposable teflon bailer except for D.O.
Dissolved Oxygen sample was collected using an in-situ snapper sampler.
*High range tests not necessary due to low range results.

Table 9
First Avenue Properties
39th Street Parking Lot
October 2002 Monthly Groundwater Monitoring

Well	Date	Time	Gallons Purged	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature °C	Salinity (%)	Oxidation Reduction Potential (mV)
MW1R	10/28/2002	1445	0	9.31	6.45	3.01	16.9	3.5	142
	10/28/2002	1452	5	9.41	6.10	1.57	17.5	3.3	19
	10/28/2002	1502	10	9.92	6.04	0.75	17.6	3.2	-102
	10/28/2002	1508	15	10.07	5.93	0.83	18.0	3.2	-89
	10/28/2002	1520	20	10.03	5.70	1.77	18.2	3.00	-82
	10/28/2002	1528	25	9.98	5.64	2.00	18.3	3.00	-73
MW2R	10/29/2002	1337	0	12.34	5.03	3.09	17.9	2.6	-235
	10/29/2002	1342	5	12.40	5.02	0.35	18.3	2.6	-337
	10/29/2002	1348	10	12.38	4.76	0.15	18.4	2.5	-351
	10/29/2002	1357	20	12.35	4.63	0.12	18.8	2.4	-370
	10/29/2002	1409	30	12.37	4.83	0.08	18.6	2.5	-400
	10/29/2002	1419	40	12.34	4.68	0.08	18.8	2.4	-417
	10/29/2002	1427	50	12.35	4.76	0.06	18.9	2.5	-433
	10/29/2002	1441	60	12.35	4.82	0.06	18.7	2.5	-437
	10/29/2002	1450	70	12.34	4.74	0.06	18.7	2.5	-445
	10/29/2002	1459	80	12.32	4.78	0.21	18.6	2.5	-327
	10/29/2002	1508	90	12.31	4.74	0.80	18.7	2.5	-282
MW3R	10/29/2002	1103	0	12.47	5.97	1.80	17.7	3.2	-190
	10/29/2002	1118	5	12.49	5.77	0.26	18.1	3.1	-257
	10/29/2002	1134	10	12.48	5.46	0.21	18.6	2.9	-287
	10/29/2002	1143	15	12.46	5.39	0.16	18.7	2.8	-278
	10/29/2002	1149	20	12.36	4.71	0.19	18.7	2.5	-85
	10/29/2002	1154	25	11.63	1.17	0.69	18.8	0.4	-180
	10/29/2002	1206	30	11.59	1.16	1.06	19.0	0.4	-123
MW3S	10/29/2002	1030	0	12.29	6.23	5.69	17.8	3.6	-65
	10/29/2002	1042	5	12.59	7.05	0.33	19.0	3.8	-252
	10/29/2002	1050	10	12.60	7.22	0.23	19.2	3.9	-267
MW4R	10/28/2002	1430	0	10.11	4.86	32.2	16.6	2.5	27
	10/28/2002	1434	5	10.23	4.82	33.9	17.7	2.5	40
MW5R	10/29/2002	0828	0	6.23	5.12	0.57	17.4	2.7	-134
	10/29/2002	0835	5	7.17	4.67	0.23	19.4	2.4	-195
	10/29/2002	0846	10	7.20	4.55	0.31	20.2	2.4	-175
MW6R	10/29/2002	0915	0	9.20	4.97	26.05	18.0	2.5	-94
	10/29/2002	0917	5	9.64	4.98	27.2	18.5	2.6	-88
	10/29/2002	0921	10	9.62	4.94	22.4	18.8	2.6	-77
	10/29/2002	0925	15	9.61	4.86	10.95	19.2	2.5	-72
	10/29/2002	0931	20	9.75	4.77	6.75	19.4	2.5	-69
	10/29/2002	0935	25	9.86	4.70	4.96	19.5	2.4	-66
	10/29/2002	0946	30	9.91	4.33	6.46	19.4	2.2	-67
MW7R	10/28/2002	1213	0	6.31	1.90	7.72	20.2	0.8	35
	10/28/2002	1220	5	6.70	1.95	8.94	20.9	0.8	28
	10/28/2002	1230	10	6.86	1.99	8.73	21.3	0.9	31
	10/28/2002	1240	15	6.98	1.74	8.44	21.6	0.7	13
	10/28/2002	1249	20	7.06	1.28	8.28	21.7	0.4	6
	10/28/2002	1253	25	7.07	1.24	8.30	21.8	0.4	12
	10/28/2002	1259	30	7.06	1.22	7.71	21.8	0.4	2
	10/28/2002	1304	35	7.05	1.23	7.47	21.9	0.4	10
	10/28/2002	1310	40	7.04	1.27	7.16	22.0	0.4	12
	10/28/2002	1316	45	7.04	1.34	7.05	21.9	0.5	23
	10/28/2002	1322	50	7.06	1.39	6.78	21.8	0.5	36
	10/28/2002	1328	55	7.10	1.14	6.78	21.9	0.5	41
	10/28/2002	1341	60	7.17	1.46	6.82	22.1	0.5	47

Notes
Parameters were collected using an Orion Water Quality meter Model 1230 through a flow cell

Table 9
First Avenue Properties
39th Street Parking Lot
November 2002 Monthly Groundwater Monitoring

	MW1R	MW2R	MW3R	MW3S	MW4R	MW5R	MW6R	MW7R
Sample Date	11/26/2002	11/25/2002	11/26/2002	11/26/2002	11/26/2002	11/26/2002	11/26/2002	11/25/2002
Sample Time	13:53	16:25	10:45	8:55	11:30	15:23	16:42	14:15
Chemets Kit (K-7512) Dissolved Oxygen 1- 12 mg/l range	5	0	3	9	12	10	9	2.5
Chemets Kit (K-6502) Dissolved Manganese 0-2 ppm range	0 - 0.3	0 - 0.3	0 - 0.3	0 - 0.3	0	0	0 - 0.3	0 - 0.3
Chemets Kit (K-6502D) Dissolved Manganese 0-50 ppm range	*	*	*	*	*	*	*	*
Chemets Kit (K-6010) Soluble Iron 0-10 ppm range	1	0.8 - 1.0	0.6	0.3	0.2	0.1	3	0
Chemets Kit (K-6010) Total Iron 0-10 ppm range	2	1.0	2	0.3	0.4	0.3	8	0.2
Chemets Kit (K-6010C) Soluble Iron 0-10,000 ppm range	*	*	*	*	*	*	*	*
Hach Kit (1R-18C) Ferrous Iron 0 - 10 ppm range	0.3	0.6	0.4	0.3	0	0.1	0.5	0.1

Notes
Chemets and Hach Kits test were run during sample collection from flow cell or disposable teflon bailer except for D.O.
Dissolved Oxygen sample was collected using an in-situ snapper sampler.
*High range tests not necessary due to low range results.

Table 9
First Avenue Properties
39th Street Parking Lot
November 2002 Monthly Groundwater Monitoring

Well	Date	Time	Gallons Purged	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature °C	Salinity (%)	Oxidation Reduction Potential (mV)	Turbidity (NTUs)
MW1R	11/26/2002	1303	0	7.08	6.08	11.86	17.1	3.3	116	70.6
	11/26/2002	1310	5	8.52	5.73	14.19	17.4	3	89	33
	11/26/2002	1317	10	9.4	5.56	15.01	17.6	2.9	54	20.4
	11/26/2002	1327	15	9.64	5.46	10.51	17.9	2.9	33	15.1
	11/26/2002	1336	20	9.45	5.09	6.05	18	2.70	18	17.7
	11/26/2002	1342	25	9.37	5.02	4.19	18.2	2.60	122	25.3
MW2R	11/26/2002	1456	0	11.95	5.04	8.72	18.0	2.6	-413	2.8
	11/26/2002	1510	10	12.02	5.00	1.87	18.7	2.6	-458	2.3
	11/26/2002	1519	20	12.01	4.50	0.40	18.8	2.3	-464	2.3
	11/26/2002	1527	30	12.01	4.49	0.12	18.7	2.3	-461	2.1
	11/26/2002	1535	40	11.99	4.46	0.05	18.8	2.3	-461	1.7
	11/26/2002	1543	50	11.99	4.43	0.05	18.8	2.3	-452	2.1
	11/26/2002	1552	60	11.96	4.43	0.04	18.9	2.3	-456	1.8
	11/26/2002	1601	70	11.96	4.43	0.03	18.9	2.3	-455	1
	11/26/2002	1610	80	11.94	4.41	0.05	19.0	2.3	-466	0.7
	11/26/2002	1619	90	11.93	4.39	0.04	19.0	2.3	-469	0.65
MW3R	11/26/2002	0943	0	12.13	6.05	0.17	17.4	3.2	-59	42.5
	11/26/2002	0952	5	12.12	6.01	0.04	18.3	3.2	-100	18.7
	11/26/2002	1003	10	12.11	5.86	0.04	18.4	3.1	-123	11.5
	11/26/2002	1008	15	12.10	5.83	0.03	18.4	3.1	-126	10.5
	11/26/2002	1014	20	12.10	5.79	0.03	18.4	3.1	-136	10.1
	11/26/2002	1021	25	12.05	5.51	0.02	18.4	2.9	-141	12.1
	11/26/2002	1028	30	11.66	1.68	0.45	17.9	0.7	-114	32.5
	11/26/2002	1037	35	11.48	1.74	1.20	18.0	0.7	-87	45.1
MW3S	11/26/2002	0842	0	11.93	3.83	0.62	16.7	1.9	-123	667
	11/26/2002	0845	2	12.06	5.11	5.42	17.3	2.7	-131	47.8
	11/26/2002	0850	4	12.007	4.80	5.33	17.7	2.5	-133	22.5
	11/26/2002	0853	6	12.09	5.55	6.87	17.9	3.0	-132	10.2
MW4R	11/26/2002	1113	0	9.96	4.7	34.9	14.5	2.4	94	13.6
	11/26/2002	1121	3	10.06	4.62	37.4	17.6	2.4	87	10.5
	11/26/2002	1127	6	10.1	4.61	39.1	17.8	2.4	86	7.8
MW5R	11/26/2002	1455	0	9.80	4.57	29.1	19.5	2.4	-79	0.3
	11/26/2002	1500	5	9.84	4.45	36.6	19.7	2.3	62	19.9
	11/26/2002	1514	10	9.82	4.43	37.3	20	2.3	73	18.4
	11/26/2002	1521	15	9.81	4.43	37.2	20.1	2.3	77	12.3
MW6R	11/26/2002	1557	0	9.86	4.71	28.8	18.1	2.4	61	999
	11/26/2002	1602	5	9.57	4.66	31.7	18.9	2.4	70	35.2
	11/26/2002	1607	10	9.44	4.64	25.7	19.1	2.4	75	29.1
	11/26/2002	1612	15	9.40	4.64	24.0	19.2	2.4	63	27.4
	11/26/2002	1618	20	9.40	4.62	21.6	19.1	2.4	70	27.4
	11/26/2002	1624	25	9.44	4.55	21.2	19.2	2.4	64	38.6
	11/26/2002	1628	30	9.56	4.28	10.64	19.2	2.2	38	56.3
MW7R	11/25/2002	1309	0	7.04	2.57	3.50	20.1	1.2	170	23.3
	11/25/2002	1317	5	7.04	2.56	3.50	20.9	1.2	152	8
	11/25/2002	1322	10	7.04	2.53	4.24	21.0	1.2	139	2.6
	11/25/2002	1326	15	7.18	2.00	4.31	21.3	0.8	136	1.8
	11/25/2002	1331	20	7.15	1.45	3.43	21.3	0.6	129	1.5
	11/25/2002	1335	25	7.10	1.41	3.10	21.3	0.5	128	1.4
	11/25/2002	1340	30	7.12	1.39	3.12	21.3	0.5	126	1.7
	11/25/2002	1342	35	7.12	1.39	3.00	21.4	0.5	125	1.5
	11/25/2002	1345	40	7.12	1.40	2.91	21.4	0.5	123	1.4
	11/25/2002	1349	45	7.11	1.41	2.62	21.5	0.5	123	1.8
	11/25/2002	1354	50	7.10	1.44	2.57	21.5	0.5	122	1.8
	11/25/2002	1358	55	7.09	1.48	2.38	21.5	0.6	121	1.7
	11/25/2002	1404	60	7.09	1.56	2.39	21.6	0.6	118	8.3

Notes
Parameters were collected using an Orion Water Quality meter Model 1230 through a flow cell
Turbidity collected using H.F. Sci Model DRT-15CE Turbidity Meter

Table 9
First Avenue Properties
39th Street Parking Lot
December 2002 Monthly Groundwater Monitoring

	MW1R	MW2R	MW3R	MW3S	MW4R	MW5R	MW6R	MW7R
Sample Date	12/18/2002	12/19/2002	12/19/2002	12/17/2002	12/19/2002	12/18/2002	12/18/2002	12/17/2002
Sample Time	12:31	11:26	9:50	15:46	9:10	16:06	15:20	13:22
Chemets Kit (K-7512) Dissolved Oxygen 1- 12 mg/l range	0.5	< 1	7	8	11.5	11	3.5	5
Chemets Kit (K-6502) Dissolved Manganese 0-2 ppm range	0-0.3	0	0	0-0.3	0-0.3	0	0.3	0.15
Chemets Kit (K-6502D) Dissolved Manganese 0-50 ppm range	*	*	*	*	*	*	*	*
Chemets Kit (K-6010) Soluble Iron 0-10 ppm range	1	0.6-0.8	1-2	0.3	2-3	0.1-0.2	1.5	0
Chemets Kit (K-6010) Total Iron 0-10 ppm range	1.5	0.6-0.8	2-3	1	5-6	0.4-0.6	4	0.0
Chemets Kit (K-6010C) Soluble Iron 0-10,000 ppm range	*	*	*	*	*	*	*	*
Hach Kit (1R-18C) Ferrous Iron 0 - 10 ppm range	0.5	0.6	0	0.2	0	0.2	0.2	0

Notes
Chemets and Hach Kits test were run during sample collection from flow cell or disposable teflon bailer except for D.O.
Dissolved Oxygen sample was collected using an in-situ snapper sampler.
*High range tests not necessary due to low range results.

Table 9
First Avenue Properties
39th Street Parking Lot
December 2002 Monthly Groundwater Monitoring

Well	Date	Time	Gallons Purged	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature °C	Salinity (%)	Oxidation Reduction Potential (mV)	Turbidity (NTUs)
MW1R	12/18/2002	1131	0	8.17	5.64	4.61	16.4	3	45	68.7
	12/18/2002	1141	5	6.98	5.51	6.85	18.2	2.9	58	25.4
	12/18/2002	1157	10	8.74	5.00	10.97	18.6	2.6	57	10.3
	12/18/2002	1207	15	9.04	4.91	9.23	18.6	2.6	21	10.2
	12/18/2002	1216	20	9.18	4.69	1.68	18.6	2.4	-9	11.9
	12/18/2002	1226	25	8.98	4.54	1.89	18.6	2.3	-29	13.0
MW2R	12/19/2002	1024	0	11.78	4.38	38.1	17.9	2.2	-58	20.8
	12/19/2002	1026	5	11.82	4.36	37.2	18.1	2.2	-63	18.2
	12/19/2002	1030	10	11.91	4.27	7.74	17.8	2.2	-128	17.4
	12/19/2002	1033	15	11.93	4.30	5.18	17.8	2.2	-213	20.9
	12/19/2002	1035	20	11.95	4.31	3.61	17.8	2.2	-230	20.8
	12/19/2002	1037	25	11.95	4.33	3.12	17.8	2.2	-255	25.3
	12/19/2002	1041	30	11.97	4.34	1.81	17.9	2.2	-277	28.8
	12/19/2002	1044	35	11.97	4.34	1.40	18.0	2.2	-299	26.3
	12/19/2002	1049	40	11.99	4.34	0.83	18.0	2.2	-315	18.8
	12/19/2002	1051	45	11.98	4.34	0.70	18.1	2.2	-324	14.5
	12/19/2002	1053	50	12.00	4.34	0.57	18.1	2.2	-325	12.1
	12/19/2002	1057	55	11.98	4.34	0.42	18.2	2.2	-341	10.2
	12/19/2002	1102	60	11.99	4.34	0.21	18.2	2.2	-352	5.3
	12/19/2002	1106	65	11.98	4.33	0.13	18.3	2.2	-368	3.67
	12/19/2002	1109	70	11.99	4.32	0.08	18.3	2.2	-378	2.6
	12/19/2002	1110	75	11.98	4.32	0.08	18.3	2.2	-380	1.83
	12/19/2002	1115	80	11.99	4.30	0.05	18.3	2.2	-389	1.6
	12/19/2002	1119	85	11.97	4.27	0.04	18.4	2.2	-398	0.6
	12/19/2002	1124	90	11.97	4.25	0.03	18.4	2.2	-398	1.05
	12/19/2002	1126	95	11.96	4.24	0.03	18.4	2.2	-400	0.63
MW3R	12/19/2002	752	0	11.83	6.27	3.09	17.4	3.4	36	18.6
	12/19/2002	759	5	11.69	6.25	0.54	17.7	3.4	-32	15.7
	12/19/2002	808	10	11.71	6.26	0.44	17.6	3.4	-70	17
	12/19/2002	827	15	11.67	6.24	0.32	17.9	3.4	-105	17.2
	12/19/2002	831	20	11.67	6.24	0.27	18.2	3.4	-121	17.1
	12/19/2002	849	25	11.62	6.22	0.29	18.1	3.3	-138	16.2
MW3S	12/17/2002	1531	0	12.03	3.98	2.89	12.4	2.0	-47	182
	12/17/2002	1535	2	12.15	5.79	3.55	15.5	3.1	-99	263
	12/17/2002	1541	4	12.26	6.44	3.88	16.7	3.5	-108	275
	12/17/2002	1544	6	11.90	7.34	Pump stopped after 6 gal. Could not get last readings.				
MW4R	12/18/2002	1022	0	9.64	4.66	28.2	15.6	2.4	99	7.09
	12/18/2002	1024	2	9.67	4.58	30.2	17.3	2.4	84	4.51
	12/18/2002	1028	4	9.6	4.57	29.7	18.1	2.4	72	3.02
MW5R	12/18/2002	1554	0	10.10	60.2	35.4	18.6	3.2	-14	57.2
	12/18/2002	1558	5	10.17	5.97	35.5	18.8	3.2	13	24.7
	12/18/2002	1606	10	10.10	5.85	30.9	18.4	3.1	18	11.8
MW6R	12/18/2002	1424	0	9.33	4.34	2.89	17.7	2.2	-2	50.3
	12/18/2002	1428	5	9.26	4.34	1.25	18.0	2.2	-32	34.1
	12/18/2002	1433	10	9.27	4.34	1.19	18.1	2.2	-53	29.6
	12/18/2002	1450	15	9.19	4.35	0.95	18.1	2.2	-58	56.5
	12/18/2002	1459	20	9.27	4.35	0.90	17.7	2.2	-69	47
	12/18/2002	1509	25	9.28	4.31	0.91	18.1	2.2	-74	140.3
	12/18/2002	1515	30	9.56	4.08	2.59	17.9	2.1	-82	48.4
MW7R	12/17/2002	1152	0	7.07	6.39	2.42	19.7	3.4	65	5.95
	12/17/2002	1158	5	6.95	6.34	0.15	20.4	3.4	68	9.26
	12/17/2002	1204	10	6.89	6.31	0.12	20.6	3.4	72	1.45
	12/17/2002	1211	15	6.99	6.02	0.29	20.8	3.3	27	1.96
	12/17/2002	1217	20	7.09	4.19	1.35	21.0	2.1	24	1.41
	12/17/2002	1224	25	7.13	3.62	2.68	20.9	1.8	34	1.03
	12/17/2002	1234	30	7.14	3.39	3.08	20.9	1.7	53	0.58
	12/17/2002	1243	35	7.09	3.49	2.92	20.8	1.7	79	0.48
	12/17/2002	1248	40	7.09	3.61	2.95	20.7	1.8	84	0.52
	12/17/2002	1252	45	7.10	3.73	2.51	20.7	1.9	83	0.3
	12/17/2002	1256	50	7.13	3.79	2.43	20.7	1.9	83	0.88
	12/17/2002	1301	55	7.04	3.86	2.23	20.7	1.9	84	1.39
	12/17/2002	1307	60	7.04	4.05	2.07	20.9	2.1	85	3.44
	12/17/2002	1314	65	7.08	4.11	2.84	21.0	2.1	86	3.79
	12/17/2002	1322	70	7.14	4.15	3.89	21.2	2.1	95	3.01

Notes
Parameters were collected using an Orion Water Quality meter Model 1230 through a flow cell
Turbidity collected using H.F. Sci Model DRT-15CE Turbidity Meter

Table 9
First Avenue Properties
39th Street Parking Lot
January 2003 Monthly Groundwater Monitoring

	MW1R	MW2R	MW3R	MW3S	MW4R	MW5R	MW6R	MW7R
Sample Date	1/30/2003	1/29/2003	1/30/2003	1/29/2003	1/30/2003	1/30/2003	1/30/2003	1/29/2003
Sample Time	10:05	16:20	12:27	12:14	11:16	15:58	15:04	11:09
Chemets Kit (K-7512) Dissolved Oxygen 1- 12 mg/l range	4	2	8	8	10	6	10	2
Chemets Kit (K-6502) Dissolved Manganese 0-2 ppm range	0	0.3	0	0 - 0.3	0	0	0 - 0.3	0
Chemets Kit (K-6502D) Dissolved Manganese 0-50 ppm range	*	*	*	*	*	*	*	*
Chemets Kit (K-6010) Soluble Iron 0-10 ppm range	0.4	2	0.4	0.3	0.2	1	2	0 - 0.1
Chemets Kit (K-6010) Total Iron 0-10 ppm range	1	3	1	0.4	0.4	2.0	4	0.1
Chemets Kit (K-6010C) Soluble Iron 0-10,000 ppm range	*	*	*	*	*	*	*	*
Hach Kit (1R-18C) Ferrous Iron 0 - 10 ppm range	0.2	0.5	0.2	0.2	0.2	0.4	0.2	0.1

Notes
Chemets and Hach Kits test were run during sample collection from flow cell or disposable teflon bailer except for D.O.
Dissolved Oxygen sample was collected using an in-situ snapper sampler.
*High range tests not necessary due to low range results.

Table 9
First Avenue Properties
39th Street Parking Lot
January 2003 Monthly Groundwater Monitoring

Well	Date	Time	Gallons Purged	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature °C	Salinity (%)	Oxidation Reduction Potential (mV)	Turbidity (NTUs)
MW1R	1/30/2003	0906	0	*	5.03	0.41	16.1	2.6	35	24.0
	1/30/2003	0915	5	*	4.73	0.60	18.7	2.5	-77	23.0
	1/30/2003	0927	10	*	4.79	0.00	18.6	2.5	-95	21.6
	1/30/2003	0934	15	*	4.91	0.62	17.0	2.6	-118	18.2
	1/30/2003	0943	20	*	4.91	0.06	17.2	2.6	-122	18.1
	1/30/2003	0952	25	*	4.94	0.11	17.0	2.6	-119	20.5
	1/30/2003	0958	30	*	4.94	0.23	17.1	2.6	-106	21.9
	1/30/2003	1005	35	*	4.95	0.68	17.2	2.6	-64	22.3
MW2R	1/29/2003	1446	0	6.83	5.81	31.6	15.1	3.1	-35	29
	1/29/2003	1457	10	7.39	6.19	20.9	16.2	3.3	-13	13.2
	1/29/2003	1508	20	6.92	7.00	11.12	16.2	3.8	-79	46.3
	1/29/2003	1522	30	8.07	7.50	6.45	16.3	4.1	-45	23.8
	1/29/2003	1533	40	7.02	8.11	2.24	16.6	4.5	-126	23.5
	1/29/2003	1542	50	7.52	8.26	3.23	16.5	4.6	-88	22.6
	1/29/2003	1551	60	7.01	8.75	3.20	16.5	4.8	-131	25
	1/29/2003	1601	70	7.73	9.61	2.04	16.7	5.4	-74	19.5
	1/29/2003	1610	80	7.09	10.44	0.86	16.7	5.9	-136	19.3
	1/29/2003	1620	90	6.99	10.82	0.63	16.7	6.1	-66	16.1
MW3R	1/29/2003	1149	0	*	3.78	24.1	15.6	1.9	8	50.4
	1/29/2003	1156	5	*	3.66	4.66	16.6	1.8	6	21.6
	1/29/2003	1201	10	*	3.64	4.01	16.4	1.8	1	18.5
	1/29/2003	1208	15	*	3.63	3.46	16.6	1.8	-1	17.1
	1/29/2003	1215	20	*	3.63	3.27	16.3	1.8	-5	16.8
	1/29/2003	1221	25	*	3.63	3.18	16.3	1.8	-5	22.0
	1/29/2003	1227	30	*	3.68	3.15	16.5	1.8	-5	17.7
MW3S	1/29/2003	1201	0	7.67	7.61	0.65	12.5	4.2	-76	426
	1/29/2003	1205	2	9.20	11.27	0.00	13.7	6.3	-23	74
	1/29/2003	1210	4	7.81	13.49	0.00	14.3	7.7	-65	25
	1/29/2003	1214	6	8.26	13.75	4.28	14.6	7.9	-24	24.1
MW4R	1/30/2003	1103	0	*	4.66	26.0	15.4	3.2	41	56.9
	1/30/2003	1110	5	*	4.58	36.6	17.4	2.8	51	33.0
	1/30/2003	1116	10	*	4.57	28.4	17.5	2.7	47	33.3
MW5R	1/30/2003	1527	0	*	4.51	5.08	16.4	2.3	70	105
	1/30/2003	1538	5	*	4.44	5.74	17.4	2.3	107	15.8
	1/30/2003	1545	10	*	4.44	5.55	17.4	2.3	109	14.3
	1/30/2003	1552	15	*	4.43	5.40	17.7	2.3	115	15.1
	1/30/2003	1558	20	*	4.45	5.16	17.3	2.3	113	14.1
MW6R	1/30/2003	1412	0	*	5.06	11.73	16.6	2.6	72	43.4
	1/30/2003	1418	5	*	5.08	10.97	16.7	2.7	70	125
	1/30/2003	1425	10	*	5.08	10.86	16.8	2.7	67	47.2
	1/30/2003	1433	15	*	5.10	10.42	16.7	2.7	61	21.2
	1/30/2003	1442	20	*	5.12	10.32	16.7	2.7	58	48.8
	1/30/2003	1449	25	*	5.15	9.77	16.8	2.7	55	31.7
	1/30/2003	1455	30	*	5.17	9.62	16.7	2.7	51	41.4
	1/30/2003	1504	35	*	5.39	8.70	16.9	2.8	45	45.5
MW7R	1/29/2003	0931	0	7.55	46.6	2.04	11.8	29.8	51	11.8
	1/29/2003	0940	5	6.22	46.3	0.94	17.6	29.7	33	17.6
	1/29/2003	0946	10	6.32	46.2	0.73	17.6	29.6	-12	17.6
	1/29/2003	0952	15	6.53	38.7	0.85	16.4	24.9	25	16.4
	1/29/2003	0958	20	6.69	30.2	1.05	16.1	18.5	22	16.1
	1/29/2003	1005	25	7.13	30.9	0.95	16.1	18.9	14	16.1
	1/29/2003	1012	30	6.93	32.0	0.92	16.2	19.7	20	16.2
	1/29/2003	1019	35	7.72	32.6	0.12	16.2	20.0	0	16.2
	1/29/2003	1025	40	7.51	32.8	0.0	16.2	20.2	13	16.2
	1/29/2003	1028	45	8.19	32.9	0.19	16.4	20.3	-2	16.4
	1/29/2003	1033	50	7.66	33.2	0.65	16.4	20.5	-11	16.4
	1/29/2003	1038	55	8.48	33.6	1.23	16.8	20.8	-4	16.8
	1/29/2003	1045	60	7.64	34.3	1.18	16.5	21.3	12	16.5
	1/29/2003	1051	65	8.05	35.0	1.36	17.4	21.7	-3	17.4
	1/29/2003	1057	70	7.74	35.6	1.34	17.3	22.1	-29	17.3
	1/29/2003	1104	75	8.16	36.0	0.02	16.9	22.4	-33	16.9
	1/29/2003	1109	80	8.52	36.4	0.19	17.1	22.7	-8	17.1

Notes
Parameters were collected using an Orion Water Quality meter Model 1230 through a flow cell
Turbidity collected using H.F. Sci Model DRT-15CE Turbidity Meter
* pH cell would not calibrate properly. No readings were collected.

Table 9
First Avenue Properties
39th Street Parking Lot
February 2003 Monthly Groundwater Monitoring

	MW1R	MW2R	MW3R	MW3S	MW4R	MW5R	MW6R	MW7R
Sample Date	2/28/2003	2/27/2003	2/28/2003	2/27/2003	2/28/2003	2/28/2003	2/28/2003	2/27/2003
Sample Time	14:00	14:42	9:09	15:38	15:21	9:47	12:00	11:30
Chemets Kit (K-7512) Dissolved Oxygen 1- 12 mg/l range	1	2	5	3	1	12	7.5	4.5
Chemets Kit (K-6502) Dissolved Manganese 0-2 ppm range	0.8	0.2	0	0.3	0.3	0	0.3	0
Chemets Kit (K-6502D) Dissolved Manganese 0-50 ppm range	*	*	*	*	*	*	*	*
Chemets Kit (K-6010) Soluble Iron 0-10 ppm range	4	0.8	1	0.2	3	5	4	0
Chemets Kit (K-6010) Total Iron 0-10 ppm range	9	2.5	10	0.3	5	> 10	10	0.2
Chemets Kit (K-6010C) Soluble Iron 0-10,000 ppm range	*	*	*	*	*	12	*	*
Hach Kit (1R-18C) Ferrous Iron 0 - 10 ppm range	2.8	0.4	0.2	0.2	0.2	0.2	0.2	0

Notes
Chemets and Hach Kits test were run during sample collection from flow cell or disposable teflon bailer except for D.O.
Dissolved Oxygen sample was collected using an in-situ snapper sampler.
*High range tests not necessary due to low range results.

Table 9
First Avenue Properties
39th Street Parking Lot
February 2003 Monthly Groundwater Monitoring

Well	Date	Time	Gallons Purged	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature °C	Salinity (%)	Oxidation Reduction Potential (mV)	Turbidity (NTUs)
MW1R	2/28/2003	1300	0	7.54	14.80	0.41	16.2	8.6	-10	17.5
	2/28/2003	1307	5	7.7	13.44	0.19	16.7	7.7	4	8.7
	2/28/2003	1314	10	7.21	10.48	0.15	17	5.9	-41	9.2
	2/28/2003	1321	15	9.05	8.26	0.11	16.5	4.6	-44	19.7
	2/28/2003	1329	20	7.52	7.70	0.12	16.1	4.2	-48	25.9
	2/28/2003	1335	25	7.89	7.68	0.13	16.2	4.2	-26	27.0
	2/28/2003	1342	30	7.44	7.67	0.20	16.3	4.2	-45	27.6
	2/28/2003	1349	35	8.51	7.65	0.30	16.3	4.2	-28	29.3
	2/28/2003	1356	40	7.5	7.62	0.54	16.5	4.2	-59	31.8
MW2R	2/27/2003	1306	0	11.86	10.02	15.5	15.7	5.5	110	241
	2/27/2003	1319	10	11.88	10.49	15.09	16.0	5.9	-81	90.6
	2/27/2003	1334	20	11.90	11.29	8.54	16.0	6.4	-106	89.8
	2/27/2003	1344	30	11.91	11.83	4.03	16.1	6.7	-152	45.5
	2/27/2003	1355	40	11.84	11.67	3.34	16.0	6.6	-156	39
	2/27/2003	1407	50	11.78	12.77	1.64	16.1	7.3	-187	31.6
	2/27/2003	1420	60	11.68	13.69	0.72	16.2	7.8	-213	22.5
	2/27/2003	1431	70	11.57	14.49	0.39	16.3	8.3	-244	35.5
	2/27/2003	1442	80	11.47	14.69	0.80	16.2	8.5	-242	29.8
MW3R	2/28/2003	0807	0	11.21	8.17	15.25	15.3	4.5	4	148
	2/28/2003	0814	5	11.25	8.09	18.31	15.9	4.4	22	370
	2/28/2003	0821	10	11.19	7.02	13.72	15.8	3.8	30	404
	2/28/2003	0830	15	10.74	4.79	3.96	15.1	2.5	38	293
	2/28/2003	0841	20	10.69	3.88	1.10	14.9	1.9	33	494
	2/28/2003	0851	25	10.59	3.61	0.46	14.9	1.8	24	453.0
	2/28/2003	0900	30	10.51	3.51	0.18	15.3	1.7	0	306.0
	2/28/2003	0909	35	10.63	3.76	0.22	16.0	1.9	11	428
MW3S	2/27/2003	1528	0	12.06	9.17	2.69	12.3	5.1	-54	476
	2/27/2003	1532	2	12.16	14.78	1.41	12.9	8.4	-55	47.2
	2/27/2003	1535	4	12.19	17.26	1.61	13.3	10.1	-95	44.9
	2/27/2003	1538	6	12.19	18.04	1.49	13.8	10.5	-44	31.2
MW4R	2/28/2003	1435	0	8.23	4.46	39.2	16.7	2.3	22	31.4
	2/28/2003	1440	5	7.71	1.52	19.72	16.6	0.5	-18	12.2
	2/28/2003	1443	10	8.74	0.73	1.81	16	0.1	-18	2.8
	2/28/2003	1446	15	7.49	0.74	1.56	16.2	0.1	17	0.2
	2/28/2003	1450	20	9.85	0.69	0.93	15.9	0.1	24	36.0
	2/28/2003	1455	25	9.92	0.68	0.72	15.7	0.1	17	37.0
	2/28/2003	1501	30	9.93	0.69	0.63	15.5	0.1	28	84.0
	2/28/2003	1504	35	9.93	0.68	0.58	15.4	0.1	7	67.0
	2/28/2003	1510	40	8.77	0.67	0.51	15.3	0.1	15	52.0
	2/28/2003	1515	45	7.43	0.67	0.57	15.3	0.1	-86	46.0
	2/28/2003	1521	50	9.82	0.68	0.60	15.9	0.1	-27	61
MW5R	2/28/2003	0958	0	8.84	5.16	21.0	16.2	2.7	113	67.2
	2/28/2003	1004	5	9.41	5.09	21.4	17.2	2.7	119	32.8
	2/28/2003	1012	10	8.47	5.09	21.4	17.4	2.7	124	19.7
	2/28/2003	1021	15	9.61	5.09	21.4	17.6	2.7	127	13.2
MW6R	2/28/2003	1107	0	9.88	5.29	7.18	15.7	2.8	137	25.6
	2/28/2003	1113	5	9.91	5.28	7.09	16.1	2.8	147	57.9
	2/28/2003	1120	10	9.89	5.28	6.87	16.1	2.8	146	64.7
	2/28/2003	1126	15	9.98	5.29	6.72	16.1	2.8	142	47.5
	2/28/2003	1136	20	9.05	5.35	6.28	16.1	2.8	144	123
	2/28/2003	1146	25	10.46	5.48	6.12	16.4	2.9	143	82.7
	2/28/2003	1155	30	9.21	5.62	6.23	16.5	3.0	147	74.4
MW7R	2/27/2003	0957	0	7.35	46.6	4.50	16.6	29.8	88	106
	2/27/2003	1006	10	7.32	46.4	4.21	16.7	29.7	108	11.6
	2/27/2003	1019	20	7.22	43.1	3.69	15.9	27.2	114	3
	2/27/2003	1030	30	7.17	39.9	3.02	15.3	25.0	116	1.2
	2/27/2003	1042	40	7.20	39.6	3.41	15.3	24.8	117	1.5
	2/27/2003	1052	50	7.20	39.8	3.63	15.2	24.9	119	0.8
	2/27/2003	1101	60	7.20	39.5	3.64	15.1	24.7	121	1.28
	2/27/2003	1114	70	7.19	39.8	3.64	15.2	24.9	122	0.62
	2/27/2003	1130	80	7.20	40.4	3.66	15.3	25.3	123	0.9

Notes
Parameters were collected using an Orion Water Quality meter Model 1230 through a flow cell
Turbidity collected using H.F. Sci Model DRT-15CE Turbidity Meter
* pH cell would not calibrate properly. No readings were collected.

Table 9
First Avenue Properties
39th Street Parking Lot
March 2003 Monthly Groundwater Monitoring

	MW1R	WS-MW2R[1]	MW2R	MW3R	MW3S	MW4R	MW5R	MW6R	MW7R
Sample Date	3/27/2003	3/26/2003	3/27/2003	3/27/2003	3/27/2003	3/27/2003	3/28/2003	3/28/2003	3/26/2003
Sample Time	15:35	12:18	10:28	11:38	12:58	14:28	9:43	8:44	16:00
Chemets Kit (K-7512) Dissolved Oxygen 1- 12 mg/l range	12	3	4	4	1	12	10	5	1
Chemets Kit (K-6502) Dissolved Manganese 0-2 ppm range	0.3	0 - 0.3	0	0	0	0	0	0	0
Chemets Kit (K-6502D) Dissolved Manganese 0-50 ppm range	*	*	*	*	*	*	*	*	*
Chemets Kit (K-6010) Soluble Iron 0-10 ppm range	0.4	0.1	0.6	0.8	0.4	0.8	0.2	2	0.1
Chemets Kit (K-6010) Total Iron 0-10 ppm range	2	0.4	0.6	4	0.4	2	0.6	2	0.1
Chemets Kit (K-6010C) Soluble Iron 0-10,000 ppm range	*	*	*	*	*	*	**	*	*
Hach Kit (1R-18C) Ferrous Iron 0 - 10 ppm range	0	0	0.6	0.4	0.2	0.4	0.2	0.4	0

Notes
Chemets and Hach Kits test were run during sample collection from flow cell or disposable teflon bailer except for D.O.
Dissolved Oxygen sample was collected using an in-situ snapper sampler.
*High range tests not necessary due to low range results.
[1] WS-MW-2R is the downgradient well located on 39th Street in the Waterside Generating Station Property

Table 9
First Avenue Properties
39th Street Parking Lot
March 2003 Monthly Groundwater Monitoring

Well	Date	Time	Gallons Purged	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature °C	Salinity (%)	Oxidation Reduction Potential (mV)	Turbidity (NTUs)	PID (ppm)
MW1R	3/27/2003	1503	0	7.44	17.83	52.4	16.6	10.6	*	36.1	13.5
	3/27/2003	1508	5	9.56	12.56	54.8	16.3	7.1	*	25.0	
	3/27/2003	1512	10	9.73	12.29	50.5	15.8	7	*	16.6	
	3/27/2003	1517	15	9.72	12.30	51.6	15.8	7.0	*	13.5	
	3/27/2003	1521	20	9.73	12.26	53.9	15.6	7.0	*	14.1	
	3/27/2003	1524	25	9.71	12.27	52.9	15.5	7.0	*	13.5	
	3/27/2003	1527	30	9.72	12.24	53.1	15.5	7.0	*	13.9	
	3/27/2003	1532	35	9.69	12.23	53.5	15.8	7.0	*	14.6	
WS-MW-2R[1]	3/26/2003	1155	0	7.20	2.82	2.72	19.0	1.6	68	4.68	0
	3/26/2003	1205	5	7.21	3.03	0.10	20.4	1.5	-6	4.08	
	3/26/2003	1209	10	7.28	2.8	0.14	20.6	1.3	3	9.93	
	3/26/2003	1216	15	7.56	2.24	1.33	21.0	1.0	31	14.5	
MW2R	3/27/2003	0853	0	11.72	17.91	23.0	15.2	10.5	*	334	1.0
	3/27/2003	0901	10	11.84	18.18	20.0	15.2	10.6	*	454	
	3/27/2003	0910	20	11.91	18.84	14.16	15.3	11.0	*	287	
	3/27/2003	0919	30	11.94	18.94	10.08	15.2	11.1	*	87.1	
	3/27/2003	0928	40	11.93	18.79	8.81	15.3	11.0	*	54.6	
	3/27/2003	0937	50	11.94	18.78	5.75	15.4	11.0	*	37.3	
	3/27/2003	0947	60	11.95	18.65	3.56	15.6	10.9	*	24.1	
	3/27/2003	0956	70	11.99	18.52	1.76	15.8	10.9	*	13.6	
	3/27/2003	1006	80	11.99	18.37	0.96	15.9	10.8	*	12.7	
	3/27/2003	1016	90	12.00	18.26	0.73	15.8	10.7	*	11.5	
	3/27/2003	1027	100	11.99	18.17	0.54	16.0	10.6	*	10.4	
MW3R	3/27/2003	1115	0	10.36	1.48	5.99	15.6	0.5	*	170	0.6
	3/27/2003	1120	5	10.31	1.08	4.51	14.7	0.3	*	166	
	3/27/2003	1123	10	10.48	1.08	4.41	14.5	0.3	*	55.1	
	3/27/2003	1126	15	10.53	1.09	4.11	14.4	0.3	*	57.1	
	3/27/2003	1130	20	10.52	1.11	3.97	14.2	0.3	*	125.6	
	3/27/2003	1135	25	10.52	1.09	3.85	14.1	0.3	*	63.8	
MW3S	3/27/2003	1245	0	12.06	11.41	0.49	12.7	6.5	*	211	0.3
	3/27/2003	1247	2	12.12	17.42	1.21	12.6	9.8	*	84	
	3/27/2003	1251	4	12.16	22.5	1.07	13.3	13.3	*	32	
	3/27/2003	1255	6	12.20	23.2	1.09	13.5	13.5	*	20	
MW4R	3/27/2003	1341	0	11.41	4.09	77	16.6	2.1	*	27.6	0.1
	3/27/2003	1346	5	11.4	2.06	27.4	16.1	0.9	*	45.1	
	3/27/2003	1351	10	11.39	2.00	25.4	16	0.8	*	39.2	
	3/27/2003	1356	15	11.4	1.98	23.8	15.9	0.8	*	33.1	
	3/27/2003	1359	20	11.38	1.96	22.5	15.7	0.8	*	30.4	
	3/27/2003	1405	25	11.4	1.93	20.4	15.5	0.8	*	25.1	
	3/27/2003	1408	30	11.39	1.92	19.38	15.4	0.8	*	23.5	
	3/27/2003	1413	35	11.4	1.91	18.12	15.3	0.8	*	23.2	
	3/27/2003	1418	40	11.39	1.90	17.60	15	0.8	*	23.1	
	3/27/2003	1422	45	11.4	1.90	16.93	15.1	0.8	*	25.9	
	3/27/2003	1426	50	11.37	1.90	16.91	15.8	0.8	*	24	
MW5R	3/28/2003	0915	0	9.64	6.39	21.8	16.1	3.4	*	15.3	295
	3/28/2003	0923	5	9.64	6.41	27.3	16.1	3.4	*	14	
	3/28/2003	0926	10	9.62	6.41	29.6	16.0	3.4	*	13.2	
	3/28/2003	0932	15	9.63	6.42	28.0	16.0	3.4	*	10.2	
	3/28/2003	0937	20	9.61	6.42	27.7	15.9	3.4	*	22.5	
	3/28/2003	0942	25	9.62	6.42	25.4	16.3	3.4	*	11.6	
MW6R	3/28/2003	0803	0	11.35	7.70	7.43	15.3	4.2	*	42.1	289
	3/28/2003	0808	5	11.36	7.70	8.03	15.4	4.2	*	31.1	
	3/28/2003	0813	10	11.38	7.69	9.07	15.3	4.2	*	23.1	
	3/28/2003	0818	15	11.37	7.69	9.93	15.3	4.2	*	39.5	
	3/28/2003	0826	20	11.38	7.71	11.37	15.2	4.2	*	37.2	
	3/28/2003	0833	25	11.36	7.81	18.99	15.4	4.3	*	34.7	
	3/28/2003	0838	30	11.37	7.92	24.3	15.5	4.3	*	25.1	
MW7R	3/26/2003	1446	0	5.10	45.4	1.2	16.4	28.9	134	6.2	5.3
	3/26/2003	1456	10	5.00	45.4	3.3	16.6	28.9	123	3.33	
	3/26/2003	1503	20	5.01	35.5	0.94	15.1	22.0	118	1.21	
	3/26/2003	1513	30	4.92	33.8	0.75	14.8	20.8	117	1.22	
	3/26/2003	1521	40	4.97	31.3	1.75	14.5	19.1	120	1.64	
	3/26/2003	1527	50	4.91	31.3	1.51	14.8	19.1	123	1.06	
	3/26/2003	1537	60	4.98	31.3	1.71	14.8	19.1	124	1.41	
	3/26/2003	1546	70	4.96	31.4	1.61	14.9	19.2	129	1.72	
	3/26/2003	1557	80	5.05	31.7	1.54	15.0	19.4	132	1.45	

Notes
Parameters were collected using an Orion Water Quality meter Model 1230 through a flow cell
Turbidity collected using H.F. Sci Model DRT-15CE Turbidity Meter
* ORP cell broke during calibration. No readings were collected
[1] WS-MW-2R is the downgradient well located on 39th Street in the Waterside Generating Station Property

Table 9
First Avenue Properties
39th Street Parking Lot
April 2003 Monthly Groundwater Monitoring

	MW1R	MW2R	MW3R	MW3S	MW4R	MW5R	MW6R	MW7R
Sample Date	4/24/2003	4/23/2003	4/24/2003	4/23/2003	4/24/2003	4/24/2003	4/24/2003	4/23/2003
Sample Time	11:18	14:37	8:37	15:16	9:58	13:59	15:19	11:34
Chemets Kit (K-7512) Dissolved Oxygen 1- 12 mg/l range	11	2	1.5	0.5	>12	12	12	1.5
Chemets Kit (K-6502) Dissolved Manganese 0-2 ppm range	0.3	0.6	0	0.3	0	0	0	0
Chemets Kit (K-6502D) Dissolved Manganese 0-50 ppm range	*	*	*	*	*	*	*	*
Chemets Kit (K-6010) Soluble Iron 0-10 ppm range	1.5	1	1	0.2	0.6	0.1	2.5	0
Chemets Kit (K-6010) Total Iron 0-10 ppm range	4	1.5	3	0.2	1	0.4	2.5	0.1
Chemets Kit (K-6010C) Soluble Iron 0-10,000 ppm range	*	*	*	*	*	*	*	*
Hach Kit (1R-18C) Ferrous Iron 0 - 10 ppm range	0.5	1	0.6	0.2	0.4	0	0.6	0

Notes
Chemets and Hach Kits test were run during sample collection from flow cell or disposable teflon bailer except for D.O.
Dissolved Oxygen sample was collected using an in-situ snapper sampler.
*High range tests not necessary due to low range results.

Table 9
First Avenue Properties
39th Street Parking Lot
April 2003 Monthly Groundwater Monitoring

Well	Date	Time	Gallons Purged	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature °C	Salinity (%)	Oxidation Reduction Potential (mV)	Turbidity (NTUs)[1]	PID (ppm)
MW1R	4/24/2003	1024	0	7.26	16.10	29.2	14.6	0.96	*	<10	272
	4/24/2003	1030	5	8.07	12.30	51.6	15.2	0.71	*	<10	
	4/24/2003	1035	10	8.72	10.60	46.6	14.8	0.59	*	<10	
	4/24/2003	1042	15	8.79	10.80	43.8	14.6	0.59	*	<10	
	4/24/2003	1049	20	8.64	10.70	42.5	14.9	0.59	*	<10	
	4/24/2003	1056	25	8.78	10.60	45.9	14.8	0.59	*	<10	
	4/24/2003	1103	30	8.79	10.50	42.4	14.8	0.59	*	<10	
	4/24/2003	1113	35	8.7	10.60	46.4	15.4	0.59	*	<10	
	4/24/2003	1118	40	8.42	10.00	33.3	14	0.56	*	<10	
MW2R	4/23/2003	1331	0	11.24	14.0	22.6	14.4	0.80	*	989	11.6
	4/23/2003	1336	10	11.66	14.6	22.4	14.1	0.84	*	<10	
	4/23/2003	1342	20	11.72	14.6	17.89	14.1	0.84	*	<10	
	4/23/2003	1350	30	11.78	14.3	11.33	13.9	0.81	*	<10	
	4/23/2003	1356	40	11.81	14.2	7.44	14.2	0.81	*	<10	
	4/23/2003	1405	50	11.81	14.0	4.85	14.3	0.80	*	<10	
	4/23/2003	1414	60	11.81	13.8	2.98	14.4	0.79	*	<10	
	4/23/2003	1421	70	11.82	13.6	1.83	14.4	0.77	*	<10	
	4/23/2003	1430	80	11.82	13.3	1.07	14.5	0.76	*	<10	
	4/23/2003	1437	90	11.82	13.2	0.55	14.4	0.75	*	<10	
MW3R	4/24/2003	0750	0	10.83	13.3	3.12	12.3	0.72	*	573	0
	4/24/2003	0757	5	11.25	13.1	1.67	13.0	0.74	*	<10	
	4/24/2003	0804	10	11.31	13.0	1.41	12.7	0.73	*	<10	
	4/24/2003	0811	15	11.33	13.0	1.24	12.7	0.73	*	<10	
	4/24/2003	0817	20	11.33	13.0	1.20	12.9	0.73	*	<10	
	4/24/2003	0827	25	11.35	13.0	1.08	12.3	0.74	*	<10	
	4/24/2003	0833	30	11.34	12.8	1.04	13.2	0.72	*	<10	
MW3S	4/23/2003	1503	0	11.77	10.0	1.54	11.6	0.54	*	641	0
	4/23/2003	1507	2	11.95	12.1	0.76	11.6	0.67	*	<10	
	4/23/2003	1511	4	11.99	12.0	0.70	11.7	0.67	*	<10	
	4/23/2003	1516	6	12.03	13.4	1.00	11.8	0.75	*	<10	
MW4R	4/24/2003	0918	0	9.53	8.4	31.7	14.8	0.45	*	604	6.4
	4/24/2003	0933	5	9.57	8.32	40.3	16.2	0.45	*	<10	
	4/24/2003	0942	10	9.55	8.32	33.4	16.6	0.45	*	<10	
	4/24/2003	0955	15	9.57	8.37	40.4	16.8	0.45	*	<10	
MW5R	4/24/2003	1329	0	9.04	7.01	23.5	15.4	0.31	*	<10	207
	4/24/2003	1335	5	9.22	7.02	24.9	15.3	0.37	*	<10	
	4/24/2003	1342	10	9.26	7.08	25.7	15.3	0.38	*	<10	
	4/24/2003	1348	15	9.27	6.92	24.6	15.1	0.37	*	<10	
	4/24/2003	1356	20	9.20	6.83	23.2	15.4	0.36	*	<10	
MW6R	4/24/2003	1438	0	10.88	6.61	20.6	14.2	0.35	*	<10	389
	4/24/2003	1443	5	10.98	6.64	29.8	14.6	0.35	*	<10	
	4/24/2003	1448	10	10.98	6.60	27.8	14.6	0.35	*	<10	
	4/24/2003	1458	15	11.01	6.59	29.5	14.7	0.35	*	<10	
	4/24/2003	1503	20	11.02	6.43	28.5	14.5	0.34	*	<10	
	4/24/2003	1510	25	11.01	6.58	25.1	14.6	0.35	*	<10	
	4/24/2003	1517	30	11.00	6.67	23.5	14.9	0.35	*	<10	
MW7R	4/23/2003	1029	0	6.90	27.6	1.78	14.3	1.76	*	< 10	0
	4/23/2003	1038	10	7.09	30.4	0.32	15.3	1.88	*	< 10	
	4/23/2003	1048	20	7.44	9.08	1.76	13.5	0.48	*	< 10	
	4/23/2003	1057	30	7.61	8.01	1.50	13.6	0.43	*	< 10	
	4/23/2003	1105	40	7.60	7.71	1.54	13.5	0.41	*	< 10	
	4/23/2003	1111	50	7.61	7.58	1.64	13.5	0.40	*	< 10	
	4/23/2003	1117	60	7.60	7.56	1.71	13.5	0.40	*	< 10	
	4/23/2003	1124	70	7.59	7.57	1.71	13.6	0.40	*	< 10	
	4/23/2003	1132	80	7.60	7.67	1.67	13.6	0.41	*	< 10	

Notes

Parameters were collected using a Horiba U-10 Water Quality Checker. Dissolved Oxygen obtained with a WTW multi 340i meter through a flow cell.

[1] Horiba U-10 can not read turbidity below 10 NTUs. These values expressed as < 10.

* New ORP cell purchased, but meter adapter was missing. No readings were collected

Table 9
First Avenue Properties
39th Street Parking Lot
May 2003 Monthly Groundwater Monitoring

	MW1R	MW2R	MW3R	MW3S	MW4R	MW5R	MW6R	MW7R
Sample Date	5/23/2003	5/22/2003	5/22/2003	5/22/2003	5/23/2003	5/23/2003	5/23/2003	5/22/2003
Sample Time	13:06	14:28	15:59	15:04	11:55	9:21	10:22	11:00
Chemets Kit (K-7512) Dissolved Oxygen 1- 12 mg/l range	10-12	1	8	1	12	10-12	12	1.5
Chemets Kit (K-6502) Dissolved Manganese 0-2 ppm range	0	0.3	0	0.3	0	0	0	0
Chemets Kit (K-6502D) Dissolved Manganese 0-50 ppm range	*	*	*	*	*	*	*	*
Chemets Kit (K-6010) Soluble Iron 0-10 ppm range	0.6	0.6	3	0.6	2	0.1	4	0.1
Chemets Kit (K-6010) Total Iron 0-10 ppm range	4-5	0.8	9	0.8	10-12	0.6	5	0.3
Chemets Kit (K-6010C) Soluble Iron 0-10,000 ppm range	*	*	*	*	*	*	*	*
Hach Kit (1R-18C) Ferrous Iron 0 - 10 ppm range	0.4	0.6	0.5	0.6	2-3	0	0	0.3

Notes
Chemets and Hach Kits test were run during sample collection from flow cell or disposable teflon bailer except for D.O.
Dissolved Oxygen sample was collected using an in-situ snapper sampler.
*High range tests not necessary due to low range results.

Table 9
First Avenue Properties
39th Street Parking Lot
May 2003 Monthly Groundwater Monitoring

Well	Date	Time	Gallons Purged	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature °C	Salinity (%)	Oxidation Reduction Potential (mV)	Turbidity (NTUs)	PID (ppm)
MW1R	5/23/2003	1232	0	7.20	12.50	63.7	15.3	0.72	151	150	811
	5/23/2003	1235	5	7.40	10.00	48.0	15.1	0.55	152	148	
	5/23/2003	1239	10	7.59	8.70	44.9	14.7	0.55	140	57.6	
	5/23/2003	1245	15	7.64	9.89	44.7	14.4	0.54	132	33.2	
	5/23/2003	1250	20	7.61	9.83	45.1	14.5	0.54	135	32.8	
	5/23/2003	1256	25	7.6	9.79	45.4	14.6	0.54	128	34.2	
	5/23/2003	1259	30	7.59	9.83	45.0	14.6	0.54	130	34.8	
	5/23/2003	1304	35	7.60	9.78	44.5	14.8	0.54	109	37.6	
MW2R	5/22/2003	1249	0	12.08	12.1	26.0	14.3	0.68	-13	901	38.1
	5/22/2003	1259	10	12.13	12.0	23.5	14.2	0.68	-53	197	
	5/22/2003	1312	20	12.14	11.7	12.34	14.2	0.66	-94	73.2	
	5/22/2003	1326	30	12.14	11.2	7.31	14.1	0.63	-116	33.5	
	5/22/2003	1338	40	12.15	11.1	5.18	14.3	0.62	-130	22	
	5/22/2003	1347	50	12.14	10.9	4.04	14.3	0.61	-139	18.9	
	5/22/2003	1357	60	12.13	10.8	3.51	14.3	0.60	-143	15.1	
	5/22/2003	1407	70	12.13	10.6	2.11	14.3	0.59	-162	8.9	
	5/22/2003	1418	80	12.13	10.4	0.98	14.4	0.57	-190	5.6	
	5/22/2003	1428	90	12.13	10.3	0.59	14.2	0.57	-212	5.4	
MW3R	5/22/2003	1532	0	11.62	11.8	10.47	13.4	0.66	-27	246	11.5
	5/22/2003	1539	5	11.62	11.9	10.80	13.2	0.67	1	317	
	5/22/2003	1543	10	11.62	11.8	9.42	13.1	0.66	5	262	
	5/22/2003	1547	15	11.60	11.9	8.65	13.1	0.67	7	125	
	5/22/2003	1552	20	11.60	11.9	10.73	13.0	0.67	7	87.6	
	5/22/2003	1555	25	11.60	12.0	10.35	13.1	0.67	8	70.4	
	5/22/2003	1559	30	11.60	12.0	9.85	13.3	0.67	5	70.1	
MW3S	5/22/2003	1456	0	12.20	9.5	1.33	12.3	0.53	-40	243	0.8
	5/22/2003	1458	2	12.30	10.2	1.25	12.3	0.55	-74	29	
	5/22/2003	1500	4	12.30	10.7	1.52	12.3	0.58	-81	22.1	
	5/22/2003	1504	6	12.31	10.6	1.40	12.4	0.59	-88	22.0	
MW4R	5/23/2003	1140	0	9.86	9.5	42.3	15.4	0.55	73	240	6.4
	5/23/2003	1145	5	10.00	9.92	46.0	16	0.55	71	149.0	
	5/23/2003	1148	10	10.03	8.64	42.7	16	0.47	69	80.6	
	5/23/2003	1155	15	10.03	8.67	37.6	16.1	0.47	64	54.3	
MW5R	5/23/2003	0857	0	9.78	6.64	28.1	14.1	0.35	140	23.8	417
	5/23/2003	0902	5	9.79	6.42	29.0	14.3	0.34	125	23.4	
	5/23/2003	0910	10	9.77	6.53	28.4	14.7	0.34	118	15.5	
	5/23/2003	0916	15	9.76	6.47	29.2	14.7	0.34	114	15.1	
	5/23/2003	0921	20	9.75	6.48	27.2	14.9	0.34	109	11.8	
MW6R	5/23/2003	0950	0	11.28	5.99	39.1	14.0	0.31	33	191.0	227
	5/23/2003	0956	5	11.13	6.07	37.1	14.1	0.32	10	89.1	
	5/23/2003	1002	10	11.30	5.97	39.1	14.5	0.31	-9	56.2	
	5/23/2003	1009	15	11.27	5.90	35.3	14.5	0.31	-14	39.6	
	5/23/2003	1017	20	11.27	6.02	36.4	14.7	0.31	-16	41.2	
	5/23/2003	1022	25	11.33	6.09	29.1	14.7	0.32	-17	26.3	
MW7R	5/22/2003	0923	0	7.78	10.4	0.89	15.0	0.59	238	*	0
	5/22/2003	0941	10	8.00	9.4	0.04	15.1	0.52	193	*	
	5/22/2003	0955	20	7.71	5.27	1.93	14.6	0.22	195	*	
	5/22/2003	1007	30	7.70	4.91	1.47	14.5	0.25	199	*	
	5/22/2003	1017	40	7.63	4.89	0.98	14.5	0.25	201	*	
	5/22/2003	1026	50	7.61	4.92	0.73	14.5	0.25	202	*	
	5/22/2003	1033	60	7.63	5.09	0.49	14.6	0.26	200	*	
	5/22/2003	1046	70	7.64	5.22	0.56	14.7	0.27	196	*	
	5/22/2003	1057	80	7.63	5.40	1.17	14.8	0.28	184	*	

Notes
Parameters were collected using a Horiba U-10 Water Quality Checker. Dissolved Oxygen and Oxidation-Reduction Potential obtained with a WTW multi 340i meter through a flow cell. Turbidity collected using H.F. Sci Model DRT-15CE Turbidity Meter.
* Turbidimeter was not working properly. No readings were collected.

Table 9
First Avenue Properties
39th Street Parking Lot
June 2003 Monthly Groundwater Monitoring

	MW1R	WS-MW2R[1]	MW2R	MW3R	MW3S	MW4R	MW5R	MW6R	MW7R
Sample Date	6/10/2003	6/11/2003	6/9/2003	6/10/2003	6/9/2003	6/10/2003	6/10/2003	6/10/2003	6/9/2003
Sample Time	14:52	12:52	18:46	9:20	19:34	10:13	12:36	11:46	16:21
Chemets Kit (K-7512) Dissolved Oxygen 1- 12 mg/l range	6	1.5	2	5	< 1.0	12	6	3	4
Chemets Kit (K-6502) Dissolved Manganese 0-2 ppm range	1	0.3	0.3	0	0.3	0	0	0	0
Chemets Kit (K-6502D) Dissolved Manganese 0-50 ppm range	*	*	*	*	*	*	*	*	*
Chemets Kit (K-6010) Soluble Iron 0-10 ppm range	1	0.2	0.8	0.8	0.2	0.4	0.2	2	0.1
Chemets Kit (K-6010) Total Iron 0-10 ppm range	6	0.3	1.0	3	0.2	2	0.6	3	0.4
Chemets Kit (K-6010C) Soluble Iron 0-10,000 ppm range	*	*	*	*	*	*	**	*	*
Hach Kit (1R-18C) Ferrous Iron 0 - 10 ppm range	0.4	0.2	0.5	0.2	0	0.2	0.2	0.6	0

Notes
Chemets and Hach Kits test were run during sample collection from flow cell or disposable teflon bailer except for D.O.
Dissolved Oxygen sample was collected using an in-situ snapper sampler.
*High range tests not necessary due to low range results.
[1] WS-MW-2R is the downgradient well located on 39th Street in the Waterside Generating Station Property

Table 9
First Avenue Properties
39th Street Parking Lot
June 2003 Monthly Groundwater Monitoring

Well	Date	Time	Gallons Purged	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature °C	Salinity (%)	Oxidation Reduction Potential (mV)	Turbidity (NTUs)	PID (ppm)
MW1R	6/10/2003	1351	0	7.03	12.20	67.2	17.9	0.70	141	223	442
	6/10/2003	1356	5	7.01	10.90	45.3	17.0	0.60	121	65.4	
	6/10/2003	1400	10	7.22	9.35	40.2	17.4	0.51	101	84.6	
	6/10/2003	1406	15	7.28	7.59	34.6	16.4	0.41	81	111	
	6/10/2003	1410	20	7.18	7.35	30.7	16.5	0.32	89	109	
	6/10/2003	1418	25	7.36	6.28	26.3	15.9	0.33	86	126	
	6/10/2003	1425	30	7.4	6.24	22.0	16.9	0.33	77	128	
	6/10/2003	1432	35	7.36	6.26	21.4	16.0	0.33	68	116	
	6/10/2003	1439	40	7.39	6.19	19.89	16.7	0.32	78	112	
	6/10/2003	1447	45	7.46	5.07	14.03	16.0	0.31	58	79.1	
WS-MW-2R[1]	6/9/2003	1308	0	7.54	2.70	0.16	19.2	0.16	-67	106	0
	6/9/2003	1312	2	7.56	3.27	0.16	19.5	0.16	-32	40.2	
	6/9/2003	1318	4	7.55	3.02	0.15	19.8	0.15	5	20.5	
	6/9/2003	1324	6	7.58	2.40	0.11	20.7	0.11	82	22.9	
MW2R	6/9/2003	1703	0	12.06	10.3	23.1	15.9	0.57	-47	89.4	22.0
	6/9/2003	1713	10	12.18	10.2	21.4	15.1	0.57	-67	34.8	
	6/9/2003	1725	20	12.20	10.1	10.86	15.0	0.56	-102	20.7	
	6/9/2003	1734	30	12.21	9.9	7.05	15.1	0.55	-119	18.1	
	6/9/2003	1744	40	12.21	9.9	5.24	14.9	0.54	-131	17.2	
	6/9/2003	1755	50	12.19	9.8	3.67	15.2	0.54	-142	13.7	
	6/9/2003	1804	60	12.21	9.6	2.71	15.1	0.53	-154	10.5	
	6/9/2003	1815	70	12.21	9.5	1.94	15.1	0.52	-167	7.49	
	6/9/2003	1827	80	12.21	9.4	1.41	15.0	0.52	-175	5.81	
	6/9/2003	1838	90	12.21	9.3	1.08	15.1	0.51	-181	4.63	
MW3R	6/10/2003	0748	0	10.78	1.36	7.27	14.2	0.06	93	247	1.1
	6/10/2003	0757	5	10.78	1.30	4.79	14.0	0.05	62	46.3	
	6/10/2003	0804	10	10.71	1.30	4.44	13.8	0.05	43	56.6	
	6/10/2003	0812	15	10.77	1.32	4.15	14.0	0.05	29	58.9	
	6/10/2003	0820	20	10.73	1.31	3.87	14.0	0.05	17	58.3	
	6/10/2003	0828	25	10.80	1.33	3.65	14.1	0.06	12	47.4	
	6/10/2003	0836	30	10.82	1.32	3.56	13.9	0.05	10	48.1	
	6/10/2003	0844	35	10.84	1.35	3.51	14.2	0.06	10	45.2	
MW3S	6/9/2003	1910	0	12.20	9.47	2.08	14.7	0.52	-104	49.1	0.0
	6/9/2003	1913	2	12.30	8.61	0.51	13.7	0.46	-104	28.5	
	6/9/2003	1916	4	12.31	8.32	0.36	13.7	0.45	-108	17.7	
	6/9/2003	1920	6	12.38	9.28	0.29	13.9	0.50	-107	144	
MW4R	6/10/2003	0952	0	9.68	7.37	34.2	18.5	0.40	77	76.3	3.2
	6/10/2003	0959	5	9.85	7.57	50.9	17.3	0.41	86	26.8	
	6/10/2003	1004	10	9.84	7.36	36.1	18.0	0.37	92	22.2	
MW5R	6/10/2003	1214	0	9.70	5.75	11.01	18.9	0.25	60	27	72.8
	6/10/2003	1219	5	9.79	6.02	10.86	16.7	0.31	35	14.5	
	6/10/2003	1227	10	9.49	5.39	4.47	17.0	0.28	64	14.7	
	6/10/2003	1235	15	9.36	5.30	4.06	18.2	0.28	45	9.6	
MW6R	6/10/2003	1054	0	11.46	5.49	26.1	18.3	0.24	-38	49.4	133
	6/10/2003	1059	5	11.59	5.65	25.6	16.1	0.29	-56	26.1	
	6/10/2003	1106	10	11.59	5.62	24.2	16.3	0.29	-64	23	
	6/10/2003	1112	15	11.59	5.59	24.3	16.1	0.29	-64	19.3	
	6/10/2003	1120	20	11.58	5.56	24.6	16.0	0.29	-70	21.3	
	6/10/2003	1127	25	11.49	5.44	20.0	16.1	0.28	-67	22.6	
	6/10/2003	1134	30	11.15	5.11	15.79	17.0	0.26	-75	24.7	
	6/10/2003	1145	35	11.12	5.05	13.53	16.9	0.26	-21	23.1	
MW7R	6/9/2003	1455	0	7.81	7.36	7.84	16.8	0.38	144	8.33	0.0
	6/9/2003	1505	10	7.88	4.99	2.52	16.2	0.25	117	6.89	
	6/9/2003	1513	20	8.28	2.78	3.97	15.7	0.13	133	24.2	
	6/9/2003	1521	30	8.24	2.60	4.14	15.2	0.12	148	31.3	
	6/9/2003	1529	40	8.24	2.56	4.23	15.3	0.12	155	33.1	
	6/9/2003	1538	50	8.25	2.53	4.29	15.2	0.12	159	32.6	
	6/9/2003	1544	60	8.28	2.51	4.32	15.7	0.12	162	33.2	
	6/9/2003	1552	70	8.26	2.49	4.40	15.2	0.12	165	33.9	
	6/9/2003	1559	80	8.30	2.48	4.40	15.4	0.12	167	32.9	
	6/9/2003	1606	90	8.24	2.47	4.40	15.2	0.11	169	34.1	

Notes
Parameters were collected using an Orion Water Quality meter Model 1230 through a flow cell
Turbidity collected using H.F. Sci Model DRT-15CE Turbidity Meter
[1] WS-MW-2R is the downgradient well located on 39th Street in the Waterside Generating Station Property

Table 10
Parking Lot Property
685 First Avenue, New York, NY
Remediation Events/Quarterly Groundwater Sampling Results

MW-1R	Initial Sampling 4/25/2000	6/12/2001 Results (ug/L)	6/12/2001 % change	10/12/2001 Results (ug/L)	10/12/2001 % change	3/29/2002 Results (ug/L)	3/29/2002 % change	6/28/2002 Results (ug/L)	6/28/2002 % change	10/10/2002 Results (ug/L)	10/10/2002 % change	12/17/2002 Results (ug/L)	12/17/2002 % change	3/28/2003 Results (ug/L)	3/28/2003 % change	6/11/2003 Results (ug/L)	6/11/2003 % change	TOGS Drinking Water Criteria (GA) (ug/L)
Benzene	2980	5570	86.91%	< 5000	*	7330	*	8740	19.24%	7350	-15.90%	857	-88.34%	1020	19.02%	1350	32.35%	1
Ethylbenzene	470	< 2500	*	< 5000	*	1860	*	2140	15.05%	1950	-8.88%	325	-83.33%	284	-12.62%	266	-6.34%	5
Methyl-tert-Butyl-Ether	203000	705000	247.29%	564000	-20.00%	140000	-75.18%	136000	-2.86%	88500	-34.93%	37400	-57.74%	45600	21.93%	18200	-60.09%	10
Toluene	7030	2750	-60.88%	< 5000	*	14300	*	18400	28.67%	16600	-9.78%	2650	-84.04%	2180	-17.74%	4060	86.24%	5
Xylene (total)	2884	< 12000	*	< 5000	*	11000	*	13700	24.55%	16600	21.17%	7100	-57.23%	3320	-53.24%	3640	9.64%	5[a]
Total Quantifiable BTEX	13364	8320	-37.74%	0	*	34490	*	42980	24.62%	42500	-1.12%	10932	-74.28%	6804	-37.76%	9316	36.92%	NA

MW-2R	Initial Sampling 4/25/2000	6/12/2001 Results (ug/L)	6/12/2001 % change	10/12/2001 Results (ug/L)	10/12/2001 % change	3/26/2002 Results (ug/L)	3/26/2002 % change	6/28/2002 Results (ug/L)	6/28/2002 % change	10/9/2002 Results (ug/L)	10/9/2002 % change	12/17/2002 Results (ug/L)	12/17/2002 % change	3/27/2003 Results (ug/L)	3/27/2003 % change	6/11/2003 Results (ug/L)	6/11/2003 % change	TOGS Drinking Water Criteria (GA) (ug/L)
Benzene	74	293	295.95%	93.1 J	-68.23%	66.1	-29.00%	38.6	-41.60%	31.8	-17.62%	21.3	-33.02%	19.4	-8.92%	16	-17.53%	1
Ethylbenzene	< 10.5	266	*	101	-62.03%	284	181.19%	163	-42.61%	111	-31.90%	123	10.81%	46.5	-62.20%	86.6	86.24%	5
Methyl-tert-Butyl-Ether	8280	18500	123.43%	11800	-36.22%	3030	-74.32%	2580	-14.85%	2170	-15.89%	2560	17.97%	3780	47.66%	1890	-50.00%	10
Toluene	< 8	< 100	*	< 100	*	67.2	*	38.1	-43.30%	25.4	-33.33%	28.6	12.60%	13.5 U	-52.80%[b]	18.9	40.00%	5
Xylene (total)	< 36	152 J	*	< 100	*	1130	*	705	-37.61%	524	-25.67%	593	13.17%	258	-56.49%	383	48.45%	5[a]
Total Quantifiable BTEX	74	711	860.81%	194.1	-72.70%	1547.3	697.17%	944.7	-38.95%	692.2	-26.73%	765.9	10.65%	323.9	-57.71%	504.5	55.76%	NA

MW-3S	Initial Sampling 4/25/2000	6/12/2001 Results (ug/L)	6/12/2001 % change	10/12/2001 Results (ug/L)	10/12/2001 % change	3/25/2002 Results (ug/L)	3/25/2002 % change	6/28/2002 Results (ug/L)	6/28/2002 % change	10/8/2002 Results (ug/L)	10/8/2002 % change	12/17/2002 Results (ug/L)	12/17/2002 % change	3/27/2003 Results (ug/L)	3/27/2003 % change	6/11/2003 Results (ug/L)	6/11/2003 % change	TOGS Drinking Water Criteria (GA) (ug/L)
Benzene	532	151	-71.62%	169	11.92%	32.5 J	-80.77%	4.9	-84.92%	< 20	*	5.5 J	*	3.6	-34.55%	5.2	44.44%	1
Ethylbenzene	116	66.2	-42.93%	57.9 J	-12.54%	14.2 J	-75.47%	2	-85.92%	< 20	*	< 10	*	0.81 J	*	2	146.91%	5
Methyl-tert-Butyl-Ether	11900	11400	-4.20%	14400	26.32%	15500	7.64%	1720	-88.90%	6660	287.21%	4830	-27.48%	790	-83.64%	891	12.78%	10
Toluene	733	246	-66.44%	241	-2.03%	64.3	-73.32%	5.9	-90.82%	27.7	369.49%	4.5 J	-83.75%	2.7 U	-40.00%[b]	6.2	129.63%	5
Xylene (total)	838	456	-45.58%	376	-17.54%	107	-71.54%	17.2	-83.93%	73.4	326.74%	8.3 J	-88.69%	12.7	53.01%	21	65.35%	5[a]
Total Quantifiable BTEX	2219	919.2	-58.58%	843.9	-8.19%	218	-74.17%	30	-86.24%	101.1	237.00%	18.3	-81.90%	17.11	-6.50%	34.4	101.05%	NA

MW-3R	Initial Sampling 6/12/2001	10/12/2001 Results (ug/L)	10/12/2001 % change	3/26/2002 Results (ug/L)	3/26/2002 % change	6/28/2002 Results (ug/L)	6/28/2002 % change	10/9/2002 Results (ug/L)	10/9/2002 % change	12/17/2002 Results (ug/L)	12/17/2002 % change	3/28/2003 Results (ug/L)	3/28/2003 % change	6/11/2003 Results (ug/L)	6/11/2003 % change	TOGS Drinking Water Criteria (GA) (ug/L)
Benzene	1410	2260	60.28%	139	-93.85%	69.8	-49.78%	30.3	-56.59%	20.4	-32.67%	20.9	2.45%	14.2	-32.06%	1
Ethylbenzene	1820	2030	11.54%	314	-84.53%	68.6	-78.15%	82.6	20.41%	33.8	-59.08%	62.9	86.09%	26.3	-58.19%	5
Methyl-tert-Butyl-Ether	19400	37300	92.27%	8220	-77.96%	1200	-85.40%	4330	260.83%	3890	-10.16%	2280	-41.39%	1340	-41.23%	10
Toluene	1390	1380	-0.72%	322	-76.67%	73.7	-77.11%	57.1	-22.52%	21.7	-62.00%	34.4	58.53%	26.9	-21.80%	5
Xylene (total)	10900	13100	20.18%	1930	-85.27%	349	-81.92%	482	38.11%	258	-46.47%	342	32.56%	160	-53.22%	5[a]
Total Quantifiable BTEX	15520	18770	20.94%	2705	-85.59%	561.1	-79.26%	652	16.20%	333.9	-48.79%	460.2	37.83%	227.4	-50.59%	NA

MW-4R	Initial Sampling 3/29/2002	6/28/2002 Results (ug/L)	6/28/2002 % change	10/9/2002 Results (ug/L)	10/9/2002 % change	12/17/2002 Results (ug/L)	12/17/2002 % change	3/28/2003 Results (ug/L)	3/28/2003 % change	6/11/2003 Results (ug/L)	6/11/2003 % change	TOGS Drinking Water Criteria (GA) (ug/L)
Benzene	61.2	115	87.91%	< 50	*	< 25	*	1.1	*	< 20	*	1
Ethylbenzene	17.3 J	33.6 J	94.22%	< 50	*	< 25	*	0.79 J	*	< 20	*	5
Methyl-tert-Butyl-Ether	20400	31300	53.43%	15000	-52.08%	16300	8.67%	1210	-92.58%	7450	515.70%	10
Toluene	151	42.2 J	-72.05%	< 50	*	< 25	*	1.0 U	*	< 20	*	5
Xylene (total)	96.9	106	9.39%	92.9	-12.36%	< 25	*	2.7	*	< 20	*	5[a]
Total Quantifiable BTEX	326.4	296.8	-9.07%	92.9	-68.70%	0	*	4.59	*	0	*	NA

MW-5R	Initial Sampling 10/12/2001	3/26/2002 Results (ug/L)	3/26/2002 % change	6/28/2002 Results (ug/L)	6/28/2002 % change	10/9/2002 Results (ug/L)	10/9/2002 % change	12/17/2002 Results (ug/L)	12/17/2002 % change	3/28/2003 Results (ug/L)	3/28/2003 % change	6/11/2003 Results (ug/L)	6/11/2003 % change	TOGS Drinking Water Criteria (GA) (ug/L)
Benzene	3230	1590	-50.77%	3530	122.01%	616	-82.55%	< 50	*	63.8 J	*	< 20	*	1
Ethylbenzene	2560	948	-62.97%	1730	82.49%	441	-74.51%	53.7	-87.82%	234	335.75%	< 20	*	5
Methyl-tert-Butyl-Ether	66400	42200	-36.45%	43700	3.55%	36400	-16.70%	20900	-42.58%	19800	-5.26%	16000	-19.19%	10
Toluene	5030	1720	-65.81%	3210	86.63%	678	-78.88%	30.4 J	-95.52%	169 U	455.92%[b]	< 20	*	5
Xylene (total)	17000	5870	-65.47%	20500	249.23%	7070	-65.51%	501	-92.91%	2050	309.18%	25.5	98.76%	5[a]
Total Quantifiable BTEX	27820	10128	-63.59%	28970	186.04%	8805	-69.61%	585.1	-93.35%	2347.8	301.26%	25.5	98.91%	NA

MW-6R	Initial Sampling 10/12/2001	3/26/2002 Results (ug/L)	3/26/2002 % change	6/28/2002 Results (ug/L)	6/28/2002 % change	10/10/2002 Results (ug/L)	10/10/2002 % change	12/17/2002 Results (ug/L)	12/17/2002 % change	3/28/2003 Results (ug/L)	3/28/2003 % change	6/11/2003 Results (ug/L)	6/11/2003 % change	TOGS Drinking Water Criteria (GA) (ug/L)
Benzene	5940	3220	-45.79%	2190	-31.99%	1550	-29.22%	619	-60.06%	237	-61.71%	294	24.05%	1
Ethylbenzene	1910	3260	70.68%	2630	-19.33%	2100	-20.15%	559	-73.38%	454	-18.78%	493	8.59%	5
Methyl-tert-Butyl-Ether	60600	24200	-60.07%	9210	-61.94%	5850	-36.48%	5260	-10.09%	2460	-53.23%	797	-67.60%	10
Toluene	8040	9360	16.42%	6300	-32.69%	3820	-39.37%	1320	-65.45%	921	-30.23%	764	-17.05%	5
Xylene (total)	10900	19400	77.98%	15400	-20.62%	11600	-24.68%	3470	-70.09%	3470	0.00%	2560	-26.22%	5[a]
Total Quantifiable BTEX	26790	35240	31.54%	26520	-24.74%	19070	-28.09%	5968	-68.70%	5082	-14.85%	4111	-19.11%	NA

MW-7R (upgradient)	Initial Sampling 3/26/2002	6/28/2002 Results (ug/L)	6/28/2002 % change	10/10/2002 Results (ug/L)	10/10/2002 % change	12/17/2002 Results (ug/L)	12/17/2002 % change	3/26/2003 Results (ug/L)	3/26/2003 % change	6/11/2003 Results (ug/L)	6/11/2003 % change	TOGS Drinking Water Criteria (GA) (ug/L)
Benzene	6.6	< 1	*	< 1	*	< 1	*	< 1	*	< 1	*	1
Ethylbenzene	0.4 J	6.2	1450.00%	< 1	*	< 1	*	< 1	*	< 1	*	5
Methyl-tert-Butyl-Ether	4.3 U	2.6 U	-65.38%[b]	10.2 U	292.31%[b]	15.1	48.04%[b]	1 U	-93.38%[b]	< 1	*	10
Toluene	< 1	6.1	*	< 1	*	< 1	*	< 1	*	< 1	*	5
Xylene (total)	44.3	32.5	-26.64%	< 1	*	1	*	< 1	*	< 1	*	5[a]
Total Quantifiable BTEX	51.3	44.8	-12.67%	0	*	1	*	0	*	0	*	NA

WS-MW-2R (downgradient)	Initial Sampling 8/23/2002	3/28/2003 Results (ug/L)	3/28/2003 % change	6/11/2003 Results (ug/L)	6/11/2003 % change	TOGS Drinking Water Criteria (GA) (ug/L)
Benzene	< 1	< 1	*	< 1	*	1
Ethylbenzene	< 1	< 1	*	< 1	*	5
Methyl-tert-Butyl-Ether	< 1	1 U	*	< 1	*	10
Toluene	< 1	< 1	*	< 1	*	5
Xylene (total)	< 1	< 1	*	< 1	*	5[a]
Total Quantifiable BTEX	0	0	*	0	*	NA

* Unable to calculate percent change due to lack of comparative quantified results.
[a] There is no groundwater criteria for total xylenes. The standard for 1,2-Xylene, 1,3-Xylene and 1,4-Xylene is 5 ug/L, respectively.
[b] Estimate of concentration is based on the detection limit.
NA - Not Applicable
U - Undetected, based on Data Usability Summary Report

Table 11

Parking Lot Property
685 First Avenue, New York, NY
Groundwater VOC Sampling Results Comparison: Pre-Remediation Through June 2003

Sample ID	MW-7R			MW-1R			MW-2R			WS-MW-2R			
	Upgradient Well Initial Sampling	June 2003 Sampling	Percent change after source removal/ORC	Before source removal/ORC[1]	June 2003 Sampling	Percent change after source removal/ORC	Before source removal/ORC[1]	June 2003 Sampling	Percent change after source removal/ORC	Downgradient Well Initial Sampling	June 2003 Sampling	Percent change after source removal/ORC	TOGS Drinking Water Criteria (GA) (ug/L)
Volatile Organics (ug/L)													
Benzene	6.6	< 1.0	*	5570	1350	-75.8%	293	16.0	-94.5%	< 1.0	< 1.0	0.0%	1
Ethylbenzene	0.40 J	< 1.0	*	< 5000	266	*	266	86.6	-67.4%	< 1.0	< 1.0	0.0%	5
Methyl-Tert-Butyl-Ether	< 4.3	< 1.0	*	705000	18200	-97.4%	18500	1890	-89.8%	< 1.0	< 1.0	0.0%	10
Toluene	< 1.0	< 1.0	0.0%	2750	4060	47.6%	< 100	18.9	*	< 1.0	< 1.0	0.0%	5
Xylenes (total)	44.3	< 1.0	*	< 12000	3640	*	152 J	383	152.0%	< 1.0	< 1.0	0.0%	5[a]
Total Quantified VOCs [2]	51.3	0	*	713320.0	27516.0	-96.1%	19211.0 J	2394.5	-87.5%	0	0.0	0.0%	
Total Quantified BTEX [3]	51.3	0	*	8320.0	9316.0	12.0%	711.0 J	504.5	-29.0%	0	0.0	0.0%	

Sample ID	MW-3S[b]			MW-3R			MW-4R			MW-5R			
	Before source removal/ORC[1]	June 2003 Sampling	Percent change after source removal/ORC	Before source removal/ORC[1]	June 2003 Sampling	Percent change after source removal/ORC	Initial Sampling	June 2003 Sampling	Percent change after source removal/ORC	Before source removal/ORC[1]	June 2003 Sampling	Percent change after source removal/ORC	TOGS Drinking Water Criteria (GA) (ug/L)
Volatile Organics (ug/L)													
Benzene	169	5.2	-96.9%	2260	14.2	-99.4%	61.2	< 20.0	*	3230	< 20.0	*	1
Ethylbenzene	66.2	2.0	-97.0%	2030	26.3	-98.7%	17.3 J	< 20.0	*	2560	< 20.0	*	5
Methyl-Tert-Butyl-Ether	14400	891	-93.8%	37300	1340	-96.4%	20400	7450	-63.5%	66400	16000	-75.9%	10
Toluene	246	6.2	-97.5%	1390	26.9	-98.1%	151	< 20.0	*	5030	< 20.0	*	5
Xylenes (total)	456	21.0	-95.4%	13100	160	-98.8%	96.9	< 20.0	*	17000	25.5	-99.9%	5[a]
Total Quantified VOCs [2]	15337.2	925.4	-94.0%	56080.0	1567.4	-97.2%	20726.4 J	7450.0	-64.1%	94220.0	16025.5	-83.0%	
Total Quantified BTEX [3]	937.2	34.4	-96.3%	18780.0	227.4	-98.8%	326.4 J	0.0	*	27820.0	25.5	-99.9%	

	MW-6R			
	Before source removal/ORC[1]	June 2003 Sampling	Percent change after source removal/ORC	TOGS Drinking Water Criteria (GA) (ug/L)
Volatile Organics (ug/L)				
Benzene	5940	294	-95.1%	1
Ethylbenzene	1910	493	-74.2%	5
Methyl-Tert-Butyl-Ether	60700	797	-98.7%	10
Toluene	8040	764	-90.5%	5
Xylenes (total)	11100	2560	-76.9%	5[a]
Total Quantified VOCs [2]	87690.0	4908.0	-94.4%	
Total Quantified BTEX [3]	26990.0	4111.0	-84.8%	

Legend

[a] There is no groundwater criteria for total Xylenes. The standard for 1,2-Xylene, 1,3-Xylene, and 1,4 Xylene is 5 ug/L, respectively.
[b] Sample PL-MW-33S is a duplicate of PL-MW-3S. The highest value detected in either sample is provided for each contaminant.
J - Estimated value
<12000 - Undetected at detection limit shown.
ug/L = micrograms per Liter (parts per billion)
* Unable to calculate percent change due to lack of comparative quantified results.
[1] Result based on highest detected value prior to removal or highest detection limit value for results below detection limits
[2] Reflects highest previous or current VOC contaminant levels for the primary VOCs of concern listed.
[3] Reflects highest previous or current contaminant levels for Benzene, Ethylbenzene, Toluene, and Xylenes (total).
Notes:
1. Primary VOC compounds of concern presented in this table. See Tables 4-7 for full analytical results for all prior quarterly groundwater monitoring at the site.
2. WS-MW-2R results compared to initial groundwater sampling completed during the Waterside Supplemental Site Investigation, August 2002

Table 12

Parking Lot Property
685 First Avenue, New York, NY
Post Remediation Soil Vapor Sampling Results - BTEX and MTBE

Sample ID	**SG-9**	**SG-10**	**SG-11[a]**	**SG-12**	**SG-13**	**SG-14**	**SG-15**	**SG-16**	**SG-17**	**SG-18**	**AMBIENT**
Depth (ft)	4'	4'	4'	4'	4'	4'	4'	4'	4'	4'	ABZ
Date Sampled	01/13/04	01/13/04	01/13/04	01/13/04	01/13/04	01/13/04	01/13/04	01/13/04	01/13/04	01/13/04	01/13/04
Matrix	Air	Air	Air	Air	Air	Air	Air	Air	Air	Air	Air
Lab ID	N57403-8	N57403-6	N57403-7	N57403-5	N57403-4	N57403-2	N57403-3	N57403-1	N57403-11	N57403-9	N57403-10
BTEX, MTBE (ug/m^3)											
Benzene	2.4	1.8	1.2 J	4.2	5.1	2.9	5.8	4.2	0.83	1.9	3
Toluene	5.7	4.5	2.8	9	8.7	6.4	9	19	0.9	1.7	7.5
Ethylbenzene	1.5	0.83 J	< 1.7	1.8	2.4 J	1.2	1.7	6.1	< 0.87	< 0.87	1.0
Xylene (total)	5.2	3.5	2.8	6.5	12	4.8	6.9	28	0.52 J	0.83 J	5.2
Methyl Tert Butyl Ether	0.69 J	0.76	< 1.4	2.7 J	< 2.9	1.8	< 0.72	8.3	< 0.72	1.00	0.40 J

Legend

[a] Sample SG-11 is a duplicate of SG-10
ug/m^3 = micrograms per cubic meter
J = estimated value
ABZ = Ambient Breathing Zone

Appendix A

Photo 1. Remedial excavation along Con Edison Utility Easement (western boundary of property). Weathered bedrock is exposed.

Photo 2. Western extent of remedial excavation.

Photo 3. VOC – impacted soil area in the southwestern portion of the Site. Remedial excavation extended to top of competent bedrock due to VOC impacted weathered bedrock.

Photo 4. VOC - impacted soil and weathered rock area after a 25% ORC® solution was applied to the backfilled gravel layer.

Photo 5. Western extent of remedial excavation looking north to south, spanning across the site from 40th Street to 39th Street.

Photo 6. Western extent of remedial excavation along the Con Edison Utility Easement after backfilling with imported clean fill.

Photo 7. Remedial excavation near the northeastern corner of property at the corner of 40th St. and First Avenue.

Photo 8. Close up view of fill excavating progress near the eastern extent of remedial excavation along First Avenue.

Photo 9. Remedial excavation progress near northeastern corner of property (corner of 40th St. and First Avenue).

Photo 10. Exposed top of bedrock at eastern extent of remedial excavation prior to it being backfilled with imported clean fill.

Photo 11. Remedial excavation near northeastern corner of property. Backfilling with imported clean fill in progress.

Photo 12. Overhead view of on-going remedial activities at the Parking Lot property. Final excavation of northeast corner of Site being completed, with extensive placement of imported clean fill visible.

Photo 13. Injection of ORC® slurry into existing gravel layer above bedrock via Geoprobe®. ORC® was applied into 38 injection points in the southeastern corner of the Site between November 18 -19, 2002.

Photo 14. Typical monitoring well installation of permeable ORC® socks within slotted PVC casing.

Photo 15. Excavation for barrier wall completed under slurry conditions along 39th Street.

Photo 16. Drill rig used to assist in establishing rock key for barrier wall.

Photo 17. Installation of rebar cage into southeast corner panel of barrier wall prior to placement of concrete.

Photo 18. Concrete is pumped into southeast corner panel of barrier wall, displacing slurry.

Photo 19. View of southeast corner of Parking Lot Site following completion of remediation and site restoration.

Photo 20. View of Parking Lot Site following completion of all remediation and site restoration.

Photo 21. Typical post-remediation soil vapor sample collection at depth of 4' bgs via Geoprobe®. Soil vapor samples were collected at 11 locations, including one ambient background location, on January 13, 2004.

Photo 22. Overhead view of typical post-remediation soil vapor sample collection into Summa canister.

Appendix B

New Jersey
ACCUTEST
Laboratories

02/10/03

Technical Report for

Environmental Liability Management, Inc.

FSM, South Amboy, NJ

200164

Accutest Job Number: N30944

Report to:

Environmental Liability Management, Inc.
218 Wall Street
Princeton, NJ 08540

ATTN: Marguerite Barrett

Total number of pages in report: 175

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, MA, MD, NC, PA, RI, SC, VA

Sample Summary

Environmental Liability Management, Inc.

Job No: N30944

FSM, South Amboy, NJ
Project No: 200164

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
N30944-1	01/17/03	00:00	MB	01/17/03	SO	Soil	COMP-1
N30944-2	01/17/03	00:00	MB	01/17/03	SO	Soil	COMP-2

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Client Sample ID:	COMP-1		
Lab Sample ID:	N30944-1	**Date Sampled:**	01/17/03
Matrix:	SO - Soil	**Date Received:**	01/17/03
Method:	SW846 8260B	**Percent Solids:**	94.3
Project:	FSM, South Amboy, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G55872.D	1	01/21/03	SJM	n/a	n/a	VG3088
Run #2 [a]	G55878.D	1	01/21/03	SJM	n/a	n/a	VG3088

	Initial Weight
Run #1	4.8 g
Run #2	4.8 g

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	5.5	ug/kg	
71-43-2	Benzene	ND	1.1	0.64	ug/kg	
75-27-4	Bromodichloromethane	ND	5.5	0.53	ug/kg	
75-25-2	Bromoform	ND	5.5	0.66	ug/kg	
74-83-9	Bromomethane	ND	5.5	1.5	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	3.8	ug/kg	
75-15-0	Carbon disulfide	ND	5.5	0.86	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.5	0.95	ug/kg	
108-90-7	Chlorobenzene	ND	5.5	0.80	ug/kg	
75-00-3	Chloroethane	ND	5.5	2.4	ug/kg	
67-66-3	Chloroform	ND	5.5	0.91	ug/kg	
74-87-3	Chloromethane	ND	5.5	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.5	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.5	0.86	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.5	0.83	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.5	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.5	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.5	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.5	0.86	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	0.88	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	1.1	ug/kg	
591-78-6	2-Hexanone	ND	5.5	2.0	ug/kg	
1634-04-4	**Methyl Tert Butyl Ether**	ND	1.1	0.37	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.5	2.8	ug/kg	
75-09-2	Methylene chloride	ND	5.5	5.2	ug/kg	
100-42-5	Styrene	ND	5.5	0.77	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	2.2	ug/kg	
127-18-4	Tetrachloroethene	ND	5.5	1.1	ug/kg	
108-88-3	Toluene	ND	1.1	0.84	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.5	0.90	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.5	0.52	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	COMP-1		
Lab Sample ID:	N30944-1	**Date Sampled:**	01/17/03
Matrix:	SO - Soil	**Date Received:**	01/17/03
Method:	SW846 8260B	**Percent Solids:**	94.3
Project:	FSM, South Amboy, NJ		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	5.5	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.5	1.2	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	81%	85%	70-124%
17060-07-0	1,2-Dichloroethane-D4	73%	78%	62-130%
2037-26-5	Toluene-D8	94%	93%	75-125%
460-00-4	4-Bromofluorobenzene	105%	104%	67-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	2.74	96	ug/kg	JNB
	Total TIC, Volatile		0	ug/kg	

(a) Confirmation run.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	COMP-1		
Lab Sample ID:	N30944-1	**Date Sampled:**	01/17/03
Matrix:	SO - Soil	**Date Received:**	01/17/03
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	94.3
Project:	FSM, South Amboy, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H54105.D	1	02/03/03	HS	01/17/03	OP12974	EH2684
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	36	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	57	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	36	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	700	350	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	700	42	ug/kg	
95-48-7	2-Methylphenol	ND	170	24	ug/kg	
	3&4-Methylphenol	ND	170	35	ug/kg	
88-75-5	2-Nitrophenol	ND	170	33	ug/kg	
100-02-7	4-Nitrophenol	ND	700	38	ug/kg	
87-86-5	Pentachlorophenol	ND	700	37	ug/kg	
108-95-2	Phenol	ND	170	27	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	40	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	42	ug/kg	
83-32-9	Acenaphthene	ND	70	33	ug/kg	
208-96-8	Acenaphthylene	ND	70	35	ug/kg	
120-12-7	Anthracene	ND	70	23	ug/kg	
56-55-3	Benzo(a)anthracene	ND	70	36	ug/kg	
50-32-8	Benzo(a)pyrene	ND	70	43	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	70	34	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	70	30	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	70	27	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	70	26	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	70	30	ug/kg	
91-58-7	2-Chloronaphthalene	ND	70	34	ug/kg	
106-47-8	4-Chloroaniline	ND	170	37	ug/kg	
86-74-8	Carbazole	ND	70	30	ug/kg	
218-01-9	Chrysene	ND	70	24	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	70	38	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	70	38	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	70	30	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	70	35	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	COMP-1		
Lab Sample ID:	N30944-1	**Date Sampled:**	01/17/03
Matrix:	SO - Soil	**Date Received:**	01/17/03
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	94.3
Project:	FSM, South Amboy, NJ		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	70	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	70	33	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	70	38	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	70	38	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	70	55	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	45	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	70	33	ug/kg	
132-64-9	Dibenzofuran	ND	70	37	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	70	29	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	70	36	ug/kg	
84-66-2	Diethyl phthalate	ND	70	34	ug/kg	
131-11-3	Dimethyl phthalate	ND	70	35	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	70	46	ug/kg	
206-44-0	Fluoranthene	ND	70	28	ug/kg	
86-73-7	Fluorene	ND	70	36	ug/kg	
118-74-1	Hexachlorobenzene	ND	70	16	ug/kg	
87-68-3	Hexachlorobutadiene	ND	70	43	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	700	28	ug/kg	
67-72-1	Hexachloroethane	ND	170	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	70	48	ug/kg	
78-59-1	Isophorone	ND	70	38	ug/kg	
91-57-6	2-Methylnaphthalene	ND	70	37	ug/kg	
88-74-4	2-Nitroaniline	ND	170	50	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	46	ug/kg	
91-20-3	Naphthalene	ND	70	35	ug/kg	
98-95-3	Nitrobenzene	ND	70	36	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	70	40	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	37	ug/kg	
85-01-8	Phenanthrene	ND	70	35	ug/kg	
129-00-0	Pyrene	ND	70	26	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	70	35	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	70%		20-118%
4165-62-2	Phenol-d5	68%		21-113%
118-79-6	2,4,6-Tribromophenol	81%		25-130%
4165-60-0	Nitrobenzene-d5	80%		26-114%
321-60-8	2-Fluorobiphenyl	77%		29-111%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	COMP-1		
Lab Sample ID:	N30944-1	**Date Sampled:**	01/17/03
Matrix:	SO - Soil	**Date Received:**	01/17/03
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	94.3
Project:	FSM, South Amboy, NJ		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	92%		18-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	4.23	610	ug/kg	J
	system artifact/aldol-condensation	4.66	39000	ug/kg	J
	system artifact/aldol-condensation	5.50	600	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: COMP-1
Lab Sample ID: N30944-1
Matrix: SO - Soil
Project: FSM, South Amboy, NJ

Date Sampled: 01/17/03
Date Received: 01/17/03
Percent Solids: 94.3

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1570	23	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Antimony	<1.2	1.2	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Arsenic	2.5	1.2	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Barium	<23	23	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Beryllium	<0.58	0.58	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Cadmium	<0.58	0.58	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Calcium	1900	580	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Chromium	8.1	1.2	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Cobalt	<5.8	5.8	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Copper	3.7	2.9	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Iron	6600	12	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Lead	1.5	1.2	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Magnesium	926	580	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Manganese	31.1	1.7	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Mercury	<0.033	0.033	mg/kg	1	01/28/03	01/28/03	MLC	SW846 7471A	SW846 7471A
Nickel	<4.7	4.7	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Potassium	1050	580	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Selenium	<1.2	1.2	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Silver	<1.2	1.2	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Sodium	774	580	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Thallium	<1.2	1.2	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Vanadium	8.1	5.8	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Zinc	9.1	2.3	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	COMP-2		
Lab Sample ID:	N30944-2	**Date Sampled:**	01/17/03
Matrix:	SO - Soil	**Date Received:**	01/17/03
Method:	SW846 8260B	**Percent Solids:**	95.5
Project:	FSM, South Amboy, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G55873.D	1	01/21/03	SJM	n/a	n/a	VG3088
Run #2							

	Initial Weight
Run #1	4.8 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	5.4	ug/kg	
71-43-2	Benzene	ND	1.1	0.63	ug/kg	
75-27-4	Bromodichloromethane	ND	5.5	0.52	ug/kg	
75-25-2	Bromoform	ND	5.5	0.65	ug/kg	
74-83-9	Bromomethane	ND	5.5	1.5	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	3.7	ug/kg	
75-15-0	Carbon disulfide	ND	5.5	0.85	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.5	0.94	ug/kg	
108-90-7	Chlorobenzene	ND	5.5	0.79	ug/kg	
75-00-3	Chloroethane	ND	5.5	2.4	ug/kg	
67-66-3	Chloroform	ND	5.5	0.90	ug/kg	
74-87-3	Chloromethane	ND	5.5	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.5	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.5	0.85	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.5	0.82	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.5	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.5	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.5	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.5	0.85	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	0.86	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	1.0	ug/kg	
591-78-6	2-Hexanone	ND	5.5	1.9	ug/kg	
1634-04-4	**Methyl Tert Butyl Ether**	ND	1.1	0.37	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.5	2.8	ug/kg	
75-09-2	Methylene chloride	ND	5.5	5.2	ug/kg	
100-42-5	Styrene	ND	5.5	0.76	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	2.2	ug/kg	
127-18-4	Tetrachloroethene	ND	5.5	1.1	ug/kg	
108-88-3	Toluene	ND	1.1	0.83	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.5	0.89	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.5	0.51	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	COMP-2		
Lab Sample ID:	N30944-2	**Date Sampled:**	01/17/03
Matrix:	SO - Soil	**Date Received:**	01/17/03
Method:	SW846 8260B	**Percent Solids:**	95.5
Project:	FSM, South Amboy, NJ		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	5.5	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.5	1.2	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	83%		70-124%
17060-07-0	1,2-Dichloroethane-D4	75%		62-130%
2037-26-5	Toluene-D8	94%		75-125%
460-00-4	4-Bromofluorobenzene	105%		67-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	2.73	100	ug/kg	JNB
	Total TIC, Volatile		0	ug/kg	

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RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	COMP-2		
Lab Sample ID:	N30944-2	**Date Sampled:**	01/17/03
Matrix:	SO - Soil	**Date Received:**	01/17/03
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	95.5
Project:	FSM, South Amboy, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H54106.D	1	02/03/03	HS	01/17/03	OP12974	EH2684
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	16	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	36	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	57	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	36	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	690	350	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	690	42	ug/kg	
95-48-7	2-Methylphenol	ND	170	24	ug/kg	
	3&4-Methylphenol	ND	170	35	ug/kg	
88-75-5	2-Nitrophenol	ND	170	33	ug/kg	
100-02-7	4-Nitrophenol	ND	690	38	ug/kg	
87-86-5	Pentachlorophenol	ND	690	37	ug/kg	
108-95-2	Phenol	ND	170	27	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	40	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	42	ug/kg	
83-32-9	Acenaphthene	ND	69	33	ug/kg	
208-96-8	Acenaphthylene	ND	69	34	ug/kg	
120-12-7	Anthracene	ND	69	23	ug/kg	
56-55-3	Benzo(a)anthracene	ND	69	36	ug/kg	
50-32-8	Benzo(a)pyrene	ND	69	43	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	69	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	69	30	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	69	27	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	69	25	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	69	29	ug/kg	
91-58-7	2-Chloronaphthalene	ND	69	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	37	ug/kg	
86-74-8	Carbazole	ND	69	30	ug/kg	
218-01-9	Chrysene	ND	69	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	69	38	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	69	38	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	69	30	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	69	34	ug/kg	

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	COMP-2		
Lab Sample ID:	N30944-2	**Date Sampled:**	01/17/03
Matrix:	SO - Soil	**Date Received:**	01/17/03
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	95.5
Project:	FSM, South Amboy, NJ		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	69	32	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	69	33	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	69	37	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	69	37	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	69	54	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	45	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	69	33	ug/kg	
132-64-9	Dibenzofuran	ND	69	37	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	69	28	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	69	36	ug/kg	
84-66-2	Diethyl phthalate	ND	69	34	ug/kg	
131-11-3	Dimethyl phthalate	ND	69	34	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	69	45	ug/kg	
206-44-0	Fluoranthene	ND	69	27	ug/kg	
86-73-7	Fluorene	ND	69	36	ug/kg	
118-74-1	Hexachlorobenzene	ND	69	16	ug/kg	
87-68-3	Hexachlorobutadiene	ND	69	43	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	690	27	ug/kg	
67-72-1	Hexachloroethane	ND	170	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	69	48	ug/kg	
78-59-1	Isophorone	ND	69	38	ug/kg	
91-57-6	2-Methylnaphthalene	ND	69	36	ug/kg	
88-74-4	2-Nitroaniline	ND	170	49	ug/kg	
99-09-2	3-Nitroaniline	ND	170	28	ug/kg	
100-01-6	4-Nitroaniline	ND	170	45	ug/kg	
91-20-3	Naphthalene	ND	69	35	ug/kg	
98-95-3	Nitrobenzene	ND	69	36	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	69	39	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	36	ug/kg	
85-01-8	Phenanthrene	ND	69	34	ug/kg	
129-00-0	Pyrene	ND	69	26	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	69	34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	70%		20-118%
4165-62-2	Phenol-d5	68%		21-113%
118-79-6	2,4,6-Tribromophenol	71%		25-130%
4165-60-0	Nitrobenzene-d5	83%		26-114%
321-60-8	2-Fluorobiphenyl	73%		29-111%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	COMP-2		
Lab Sample ID:	N30944-2	**Date Sampled:**	01/17/03
Matrix:	SO - Soil	**Date Received:**	01/17/03
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	95.5
Project:	FSM, South Amboy, NJ		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	87%		18-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	4.22	630	ug/kg	J
	system artifact/aldol-condensation	4.65	37000	ug/kg	J
	system artifact/aldol-condensation	5.49	580	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	COMP-2		
Lab Sample ID:	N30944-2	**Date Sampled:**	01/17/03
Matrix:	SO - Soil	**Date Received:**	01/17/03
		Percent Solids:	95.5
Project:	FSM, South Amboy, NJ		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1320	20	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Antimony	<1.0	1.0	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Arsenic	1.7	1.0	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Barium	<20	20	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Beryllium	<0.50	0.50	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Cadmium	<0.50	0.50	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Calcium	1930	500	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Chromium	7.2	1.0	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Cobalt	<5.0	5.0	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Copper	3.0	2.5	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Iron	5660	10	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Lead	1.3	1.0	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Magnesium	784	500	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Manganese	28.0	1.5	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Mercury	<0.035	0.035	mg/kg	1	01/28/03	01/28/03	MLC	SW846 7471A	SW846 7471A
Nickel	<4.0	4.0	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Potassium	1010	500	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Selenium	<1.0	1.0	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Silver	<1.0	1.0	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Sodium	636	500	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Thallium	<1.0	1.0	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Vanadium	7.1	5.0	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B
Zinc	7.2	2.0	mg/kg	1	01/28/03	01/29/03	EK	SW846 6010B	SW846 3050B

RL = Reporting Limit

State of New York
Department of Transportation
State Office Building
250 Veterans Memorial Highway
Hauppauge, N.Y. 11788-5518

Craig Siracusa, P.E.
Regional Director

Joseph H. Boardman
Commissioner

Sept. 5, 2001

Amboy Aggregates
Lower Main St.
P. O. Box 3220
South Amboy, N. J. 08879

To Whom It May Concern:

Updated Department Test Number

Source # 10-105F

Sand Test # 01AF84

The above test number is to be used for the next two years at which time the source will be sampled and tested again. If there are any questions regarding your aggregate approval, please contact Mr. Thomas F. O'Connor of my staff at (631)952-6184.

Very truly yours,

William Brudi
Regional Materials Engineer, Region 10

S & S ENVIRONMENTAL SCIENCES, INC.

Environmental Engineering, Testing and Consultation

98 Sand Park Road, Cedar Grove, NJ 07009
Tel (973) 857-7188 Fax (973) 239-8380

Kamil Sor, Ph.D.
Yilmaz Arhan, Ph.D.
Orhun Sor, P.E.
Peter G. Micklus, P.E.

Client	Amboy Aggregates		
Project	South Amboy, New Jersey		
Subject	Laboratory Analysis of Raw Sediment Sample		
Job No.	96E002	**Report Number:** 02-E-195	**Date:** 8/13/2002

We present herewith the laboratory test results of one (1) Raw Sediment Sample picked up by a representative of our firm on July 15, 2002. The analyses were performed in accordance with the USEPA and NJDEP approved methods, by Aqua Pro-Tech Laboratories, Inc. (NJDEP Laboratory No. 07010), for the following parameters:

- Metals (both Total Basis and TCLP)
- Pesticides and PCBs
- Chloride
- Cyanide
- Volatile Organic Compounds
- Semi-Volatile Organic Compounds (Base/Neutral Extractable Organic Compounds and Acid Extractable Organic Compounds)

The test results are summarized in Table 1. The method detection limits for all of the pollutants tested are presented in the attached Aqua Pro-Tech Laboratory report. A copy of the sample Chain-of-Custody form is also attached for your records.

Based on the test results, the pollutants analyzed for were either Not Detected (concentrations below the Method Detection Limit) or the concentrations detected were below the applicable NJDEP Soil Cleanup Criteria (Residential, Direct Contact; Unrestricted Use (copy attached)). The TCLP leachate metal concentrations were also below the U.S. EPA and NJDEP hazardous waste criteria.

If you have any questions, please do not hesitate to call.

Very truly yours,
S & S ENVIRONMENTAL SCIENCES, INC.

Yilmaz Arhan, Ph.D.
Vice President

YA/ya
Attachments
cc: (1) Client,
Attn: Mr. Richard Rosamilia

Amboy Aggregates T/A
South Amboy, New Jersey

SSES Sample ID: 02-133
Sampling Date: 7/15/2002

Job No.: 96E002
Matrix: Sand

TABLE 1
SUMMARY OF ANALYTICAL RESULTS

ANALYTICAL PARAMETERS	SAMPLE RESULT	
1. Metals	**TCLP LEACHATE (mg/l)**	**TOTAL BASIS (mg/Kg)**
Antimony	< 0.1	< 0.934
Arsenic	< 0.04	1.95
Barium	0.501	1.12
Beryllium	< 0.01	< 0.093
Cadmium	< 0.01	< 0.093
Chromium (Total)	< 0.05	4.35
Chromium, Hexavalent	NA	< 0.42
Chromium, Trivalent	NA	4.35
Copper	< 0.05	< 0.467
Lead	< 0.05	0.73
Mercury	< 0.0005	< 0.014
Nickel	< 0.025	1.37
Selenium	< 0.125	< 1.17
Silver	< 0.15	< 1.4
Thallium	< 0.05	< 0.467
Zinc	< 0.15	4.58
2. Chloride, Soluble (mg/kg)	760	
3. Cyanide (mg/kg)	< 0.26	
4. Volatile Organics (mg/kg):		
Targeted Compounds	Not Detected	
Non-Targeted Compounds	Not Detected	
5. Semi-Volatile Organics (mg/kg):		
Targeted Compounds	Not Detected	
Non-Targeted Compounds	3.036	
6. Pesticides (mg/kg)	Not Detected	
7. PCBs (mg/kg)	Not Detected	

< - Denotes "less than" (the value reported is the Method Detection Limit)
Please see the attached laboratory report from Aqua Pro-Tech Labs for the method detection limits of the pollutants tested for.

APL
AQUA PRO-TECH LABORATORIES

CERTIFICATIONS
NJ DEP #07010/NY DOH #11634
CT #PH-0233

ANALYTICAL RESULTS SUMMARY

Client	S&S Environmental 98 Sand Park Rd Cedar Grove, NJ 07009	**APL Order ID Number**	**22070686**
		Date Sampled	07/15/2002 14:15
		Date Received	07/15/2002 17:15
Contact	Yilmaz Arhan	**Matrix**	Soil
Project		**Site**	So Amboy
Report Date	08/08/2002 11:39	**Customer Service Rep.**	

Sample Number/ Parameter	Method	Analysis Time	Analyst	Result	Units
22070686-001 Raw Sediment					
Antimony	SW 846 6010B	07/19/2002 16:49	MARK	<0.934	mg/kg
Arsenic	SW 846 6010B	07/19/2002 16:49	MARK	1.95	mg/kg
Barium	SW 846 6010B	07/19/2002 16:49	MARK	1.12	mg/kg
Beryllium	SW 846 6010B	07/19/2002 16:49	MARK	<0.093	mg/kg
Cadmium	SW 846 6010B	07/19/2002 16:49	MARK	<0.093	mg/kg
Chloride, Soluble	EPA325.3m	07/30/2002 18:24	ASTOICA	760	mg/kg
Chromium	SW 846 6010B	07/19/2002 16:49	MARK	4.35	mg/Kg
Copper	SW 846 6010B	07/19/2002 16:49	MARK	<0.467	mg/kg
Cyanide	SW9010A	07/17/2002 10:00	JVAGHELA	<0.26	mg/Kg
Lead	SW 846 6010B	07/19/2002 16:49	MARK	0.73	mg/kg
Mercury	SW 846 7471A	07/23/2002 16:55	ASTOICA	<0.014	mg/kg
Nickel	SW 846 6010B	07/19/2002 16:49	MARK	1.37	mg/kg
PCBs	SW 846 8082		BOB	SA	
Percent Solids	Gravimetric	07/17/2002 16:00	NZABRISKIE	96.1	%
Pesticides	SW 846 8081A		BOB	SA	
Selenium	SW 846 6010B	07/19/2002 16:49	MARK	<1.17	mg/kg
Semivolatile Organics	SW 846 8270C		LTERSKAYA	SA	
Silver	SW 846 6010B	07/19/2002 16:49	MARK	<1.4	mg/Kg
TCLP Antimony	SW 1311	07/24/2002 13:03	MARK	<0.1	mg/L
TCLP Arsenic	SW 1311	07/24/2002 13:03	MARK	<0.04	mg/L
TCLP Barium	SW 1311	07/24/2002 13:03	MARK	0.501	mg/L
TCLP Beryllium	SW 1311	07/24/2002 13:03	MARK	<0.01	mg/L
TCLP Cadmium	SW 1311	07/24/2002 13:03	MARK	<0.01	mg/L
TCLP Chromium	SW 1311	07/24/2002 13:03	MARK	<0.05	mg/L
TCLP Copper	SW 1311	07/24/2002 13:03	MARK	<0.05	mg/L
TCLP Lead	SW 1311	07/24/2002 13:03	MARK	<0.05	mg/L
TCLP Mercury	SW 1311	07/23/2002 15:25	ASTOICA	<0.0005	mg/L

SA: See attached report

Brian Wood
Laboratory Director

QA/

APL
AQUA PRO-TECH LABORATORIES

CERTIFICATIONS
NJ DEP #07010/NY DOH #11634
CT #PH-0233

ANALYTICAL RESULTS SUMMARY

Client	**S&S Environmental** 98 Sand Park Rd Cedar Grove, NJ 07009	**APL Order ID Number**	22070686
		Date Sampled	07/15/2002 14:15
		Date Received	07/15/2002 17:15
Contact	Yilmaz Arhan	**Matrix**	Soil
Project		**Site**	So Amboy
Report Date	08/08/2002 11:39	**Customer Service Rep.**	

Sample Number/ Parameter		Method	Analysis Time	Analyst	Result	Units
TCLP Nickel		SW 1311	07/24/2002 13:03	MARK	<0.025	mg/L
TCLP Selenium		SW 1311	07/24/2002 13:03	MARK	<0.125	mg/L
TCLP Silver		SW 1311	07/24/2002 13:03	MARK	<0.15	mg/L
TCLP Thallium		SW 1311	07/24/2002 13:03	MARK	<0.05	mg/L
TCLP Zinc		SW 1311	07/24/2002 13:03	MARK	<0.15	mg/L
Thallium		SW 846 6010B	07/19/2002 16:49	MARK	<0.467	mg/kg
Volatile Organics		SW 846 8260B		OLGA	SA	
Zinc		SW 846 6010B	07/19/2002 16:49	MARK	4.58	mg/kg
22070686-002	Trip Blank					
Volatile Organics		SW 846 8260B		OLGA	SA	

SA: See attached report

Brian Wood
Laboratory Director

QA

1275 BLOOMFIELD AVENUE, BLDG. 6, FAIRFIELD, NJ 07004 TEL 973 227 0422 FAX 973 227 2813

Appendix C

Appendix C
Parking Lot Property
685 First Avenue, New York, NY
Waste Disposal Records

Date	Waste Type	Disposal Facility	Ticket #	Tons	Total Tons
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09771	37.38	37.38
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09775	37.68	75.06
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09782	34.84	109.90
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09783	35.64	145.54
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09787	35.22	180.76
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09788	39.60	220.36
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09790	35.00	255.36
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09798	36.13	291.49
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09799	35.96	327.45
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09805	35.95	363.40
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09809	37.20	400.60
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09810	39.04	439.64
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09817	36.30	475.94
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09821	33.55	509.49
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09833	37.14	546.63
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09834	34.15	580.78
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09835	36.22	617.00
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09838	39.04	656.04
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09843	36.97	693.01
02/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09844	34.98	727.99
12/23/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09849	26.39	754.38
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09874	36.97	791.35
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09875	33.99	825.34
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09876	34.96	860.30
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09877	38.67	898.97
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09878	35.40	934.37
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09881	35.08	969.45
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09882	37.37	1006.82
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09884	35.06	1041.88
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09888	34.40	1076.28
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09889	33.50	1109.78
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09890	35.30	1145.08
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09896	39.53	1184.61
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09897	34.34	1218.95
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09898	35.23	1254.18
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09899	34.77	1288.95
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09900	35.08	1324.03
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09901	37.48	1361.51
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09902	34.22	1395.73
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09903	35.31	1431.04
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09904	30.17	1461.21
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09905	33.20	1494.41
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09906	35.09	1529.50
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09914	38.11	1567.61
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09915	35.13	1602.74
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09916	35.88	1638.62
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09917	35.62	1674.24
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09918	36.27	1710.51
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09919	34.99	1745.50

Appendix C
Parking Lot Property
685 First Avenue, New York, NY
Waste Disposal Records

Date	Waste Type	Disposal Facility	Ticket #	Tons	Total Tons
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09920	36.24	1781.74
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09921	31.54	1813.28
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09922	33.68	1846.96
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09923	37.57	1884.53
12/26/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09924	35.78	1920.31
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09932	38.36	1958.67
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09933	35.66	1994.33
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09934	35.08	2029.41
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09935	23.30	2052.71
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09936	34.48	2087.19
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09939	34.15	2121.34
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09940	36.83	2158.17
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09941	23.53	2181.70
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09948	35.73	2217.43
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09951	30.06	2247.49
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09952	25.87	2273.36
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09953	39.53	2312.89
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09954	35.36	2348.25
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09955	34.38	2382.63
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09956	34.92	2417.55
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09957	35.96	2453.51
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09958	37.03	2490.54
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09959	34.85	2525.39
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09963	31.36	2556.75
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09969	36.25	2593.00
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09971	34.19	2627.19
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09972	35.91	2663.10
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09973	34.83	2697.93
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09974	34.33	2732.26
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09975	37.99	2770.25
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09976	36.81	2807.06
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09979	30.99	2838.05
12/27/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09980	35.70	2873.75
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09989	37.00	2910.75
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09990	34.43	2945.18
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09991	32.31	2977.49
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09992	32.44	3009.93
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09993	27.09	3037.02
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09995	33.96	3070.98
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09996	34.26	3105.24
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	09997	33.04	3138.28
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10000	32.64	3170.92
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10003	33.20	3204.12
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10004	32.60	3236.72
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10006	33.51	3270.23
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10009	23.34	3293.57
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10013	35.58	3329.15
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10014	33.70	3362.85
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10015	34.38	3397.23

Appendix C
Parking Lot Property
685 First Avenue, New York, NY
Waste Disposal Records

Date	Waste Type	Disposal Facility	Ticket #	Tons	Total Tons
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10016	37.84	3435.07
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10017	28.87	3463.94
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10018	34.66	3498.60
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10020	31.92	3530.52
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10021	33.61	3564.13
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10022	32.54	3596.67
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10023	35.08	3631.75
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10024	34.83	3666.58
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10027	31.55	3698.13
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10028	33.10	3731.23
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10033	33.49	3764.72
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10035	24.86	3789.58
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10036	25.68	3815.26
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10038	25.01	3840.27
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10039	31.84	3872.11
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10040	31.00	3903.11
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10034	32.06	3935.17
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10037	32.16	3967.33
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10041	32.76	4000.09
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10042	25.15	4025.24
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10043	27.68	4052.92
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10044	34.98	4087.90
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10045	34.48	4122.38
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10046	33.39	4155.77
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10049	24.52	4180.29
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10050	20.24	4200.53
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10051	31.11	4231.64
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10053	31.96	4263.60
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10056	34.95	4298.55
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10057	32.04	4330.59
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10059	32.10	4362.69
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10060	32.09	4394.78
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10064	33.28	4428.06
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10066	26.00	4454.06
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10067	23.56	4477.62
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10069	23.90	4501.52
12/30/02	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10070	25.15	4526.67
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10071	28.16	4554.83
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10072	24.88	4579.71
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10073	27.00	4606.71
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10074	28.03	4634.74
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10075	30.87	4665.61
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10077	32.78	4698.39
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10078	22.52	4720.91
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10079	31.07	4751.98
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10081	31.68	4783.66
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10082	30.89	4814.55
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10083	25.73	4840.28
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10084	34.83	4875.11

Appendix C
Parking Lot Property
685 First Avenue, New York, NY
Waste Disposal Records

Date	Waste Type	Disposal Facility	Ticket #	Tons	Total Tons
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10085	38.27	4913.38
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10086	34.30	4947.68
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10087	35.76	4983.44
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10088	31.91	5015.35
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10089	30.18	5045.53
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10090	27.42	5072.95
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10091	32.48	5105.43
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10092	32.79	5138.22
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10093	30.51	5168.73
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10094	28.02	5196.75
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10095	32.49	5229.24
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10096	32.51	5261.75
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10097	33.06	5294.81
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10098	34.77	5329.58
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10099	33.43	5363.01
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10100	32.32	5395.33
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10101	30.83	5426.16
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10102	37.90	5464.06
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10103	29.53	5493.59
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10104	30.04	5523.63
01/06/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10105	30.00	5553.63
01/07/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10106	26.61	5580.24
01/07/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10107	27.57	5607.81
01/07/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10108	26.07	5633.88
01/07/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10109	24.75	5658.63
01/07/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10110	20.01	5678.64
01/07/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10111	35.86	5714.50
01/07/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10112	34.60	5749.10
01/07/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10113	25.01	5774.11
01/07/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10114	38.72	5812.83
01/07/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10115	36.95	5849.78
01/07/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10116	36.93	5886.71
01/07/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10147	38.16	5924.87
01/07/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10148	35.36	5960.23
01/07/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10149	33.20	5993.43
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10163	37.53	6030.96
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10164	36.27	6067.23
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10165	34.21	6101.44
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10167	23.21	6124.65
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10168	32.82	6157.47
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10172	38.03	6195.50
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10173	34.40	6229.90
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10174	35.37	6265.27
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10175	33.57	6298.84
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10176	35.12	6333.96
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10192	35.10	6369.06
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10193	38.37	6407.43
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10194	33.54	6440.97
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10184	24.25	6465.22

Appendix C
Parking Lot Property
685 First Avenue, New York, NY
Waste Disposal Records

Date	Waste Type	Disposal Facility	Ticket #	Tons	Total Tons
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10199	32.70	6497.92
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10200	31.83	6529.75
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10205	23.44	6553.19
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10206	24.75	6577.94
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10208	24.02	6601.96
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10209	26.09	6628.05
01/08/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10210	28.88	6656.93
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10216	24.16	6681.09
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10218	28.61	6709.70
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10221	32.95	6742.65
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10222	39.09	6781.74
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10223	35.65	6817.39
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10224	37.91	6855.30
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10225	27.09	6882.39
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10226	28.93	6911.32
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10228	26.98	6938.30
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10229	25.28	6963.58
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10230	24.72	6988.30
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10235	25.84	7014.14
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10236	25.40	7039.54
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10237	28.75	7068.29
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10238	31.74	7100.03
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10240	32.44	7132.47
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10239	28.77	7161.24
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10249	30.87	7192.11
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10250	32.44	7224.55
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10251	31.38	7255.93
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10252	36.13	7292.06
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10253	27.94	7320.00
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10254	30.56	7350.56
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10255	37.57	7388.13
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10256	46.80	7434.93
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10257	34.90	7469.83
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10258	26.20	7496.03
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10259	30.44	7526.47
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10260	35.26	7561.73
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10262	29.68	7591.41
01/09/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10263	34.01	7625.42
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10266	30.66	7656.08
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10267	25.72	7681.80
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10269	27.88	7709.68
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10270	30.48	7740.16
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10271	30.01	7770.17
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10273	30.62	7800.79
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10274	29.29	7830.08
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10275	32.91	7862.99
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10276	33.01	7896.00
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10277	30.62	7926.62
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10281	27.13	7953.75

Appendix C
Parking Lot Property
685 First Avenue, New York, NY
Waste Disposal Records

Date	Waste Type	Disposal Facility	Ticket #	Tons	Total Tons
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10282	28.74	7982.49
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10289	27.87	8010.36
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10290	30.96	8041.32
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10292	29.22	8070.54
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10293	29.43	8099.97
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10300	29.14	8129.11
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10303	31.77	8160.88
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10304	33.35	8194.23
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10305	31.85	8226.08
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10310	32.50	8258.58
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10314	25.14	8283.72
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10315	27.04	8310.76
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10317	29.16	8339.92
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10321	29.38	8369.30
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10323	29.42	8398.72
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10324	29.29	8428.01
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10325	28.96	8456.97
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10326	30.08	8487.05
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10327	25.93	8512.98
01/10/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10328	30.41	8543.39
01/13/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10376	29.45	8572.84
01/17/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10674	28.43	8601.27
01/17/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10679	34.31	8635.58
01/13/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10333	32.40	8667.98
01/13/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10334	31.35	8699.33
01/13/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10335	29.21	8728.54
01/13/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10343	30.37	8758.91
01/13/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10348	29.68	8788.59
01/13/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10352	27.54	8816.13
01/13/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10377	31.48	8847.61
01/13/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10386	32.95	8880.56
01/13/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10391	31.75	8912.31
01/13/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10406	28.57	8940.88
01/14/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10422	28.93	8969.81
01/14/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10424	31.67	9001.48
01/14/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10425	27.68	9029.16
01/14/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10426	28.91	9058.07
01/14/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10427	26.40	9084.47
01/14/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10428	26.84	9111.31
01/14/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10429	30.95	9142.26
01/14/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10441	32.45	9174.71
01/14/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10442	28.33	9203.04
01/14/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10445	29.01	9232.05
01/14/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10449	29.95	9262.00
01/14/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10450	31.53	9293.53
01/14/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10453	30.88	9324.41
01/14/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10461	30.04	9354.45
01/14/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10473	32.78	9387.23
01/14/03	Soil	Pennsylvania Avenue Landfill, Brooklyn, NY	10475	26.75	9413.98

Appendix C
Parking Lot Property
685 First Avenue, New York, NY
Waste Disposal Records

Date	Waste Type	Disposal Facility	Ticket #	Tons	Total Tons
01/14/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10476	29.82	9443.80
01/14/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10477	29.65	9473.45
01/14/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10478	30.42	9503.87
01/14/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10479	30.74	9534.61
01/14/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10480	31.78	9566.39
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10500	34.23	9600.62
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10501	31.37	9631.99
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10502	33.28	9665.27
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10503	30.26	9695.53
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10508	31.34	9726.87
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10509	31.88	9758.75
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10510	31.52	9790.27
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10513	33.85	9824.12
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10518	32.82	9856.94
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10522	30.28	9887.22
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10525	27.84	9915.06
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10526	27.71	9942.77
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10553	31.16	9973.93
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10528	31.56	10005.49
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10554	28.78	10034.27
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10555	30.17	10064.44
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10556	31.42	10095.86
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10559	26.03	10121.89
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10557	28.23	10150.12
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10560	25.24	10175.36
01/15/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10561	28.88	10204.24
01/16/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10584	30.47	10234.71
01/16/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10592	31.10	10265.81
01/16/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10605	31.76	10297.57
01/16/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10611	31.43	10329.00
01/16/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10637	28.72	10357.72
01/16/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10639	30.51	10388.23
01/16/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10641	29.12	10417.35
01/16/03	**Soil**	Pennsylvania Avenue Landfill, Brooklyn, NY	10646	28.25	**10445.60**

Soil Total	**10445.6**

Appendix C
Parking Lot Property
685 First Avenue, New York, NY
Waste Disposal Records

Date	Waste Type	Disposal Facility	Ticket #	Tons	Total Tons
07/21/03	**Bentonite/Bedrock**	Cycle Chem, Elizabeth, NJ	R0-1	17.18	17.18
07/22/03	**Bentonite/Bedrock**	Cycle Chem, Elizabeth, NJ	R0-2	16.66	33.84
07/23/03	**Bentonite/Bedrock**	Cycle Chem, Elizabeth, NJ	R0-3	18.96	52.80
07/24/03	**Bentonite/Bedrock**	Cycle Chem, Elizabeth, NJ	R0-4	16.63	69.43
08/06/03	**Bentonite/Bedrock**	Cycle Chem, Elizabeth, NJ	R0-5	15	84.43
08/07/03	**Bentonite/Bedrock**	Cycle Chem, Elizabeth, NJ	R0-6	15	99.43
08/08/03	**Bentonite/Bedrock**	Cycle Chem, Elizabeth, NJ	R0-7	15	114.43
08/13/03	**Bentonite/Bedrock**	Cycle Chem, Elizabeth, NJ	R0-8	15	129.43
08/14/03	**Bentonite/Bedrock**	Cycle Chem, Elizabeth, NJ	R0-9	15	144.43
08/19/03	**Bentonite/Bedrock**	Cycle Chem, Elizabeth, NJ	R0-10	15	159.43
08/20/03	**Bentonite/Bedrock**	Cycle Chem, Elizabeth, NJ	R0-11	15	174.43
08/20/03	**Bentonite/Bedrock**	Cycle Chem, Elizabeth, NJ	R0-12	15	189.43
08/21/03	**Bentonite/Bedrock**	Cycle Chem, Elizabeth, NJ	R0-13	15	204.43
08/27/03	**Bentonite/Bedrock**	Cycle Chem, Elizabeth, NJ	R0-14	15	219.43
08/27/03	**Bentonite/Bedrock**	Cycle Chem, Elizabeth, NJ	R0-15	15	234.43
08/28/03	**Bentonite/Bedrock**	Cycle Chem, Elizabeth, NJ	R0-16	15	249.43
08/28/03	**Bentonite/Bedrock**	Cycle Chem, Elizabeth, NJ	R0-17	15	264.43
				Bentonite/Bedrock Total	**264.43**

Date	Waste Type	Disposal Facility	Ticket #	Gallons	Total Gallons
03/18/03	**Well Purge Water**	Clean Waters of NY, Staten Island, NY	9731	1350	1350
05/05/03	**Well Purge Water**	Clean Waters of NY, Staten Island, NY	8597	860	2210
08/04/03	**Barrier Wall Water**	Lorco Petroleum, Elizabeth, NJ	9539	3000	5210
08/05/03	**Barrier Wall Water**	Lorco Petroleum, Elizabeth, NJ	9541	3000	8210
08/07/03	**Barrier Wall Water**	Lorco Petroleum, Elizabeth, NJ	9544	3000	11210
08/08/03	**Barrier Wall Water**	Lorco Petroleum, Elizabeth, NJ	9574;9601	6000	17210
08/19/03	**Barrier Wall Water**	Nickademis, Williamsport, MD	9610;9611	6000	23210
08/22/03	**Barrier Wall Water**	Nickademis, Williamsport, MD	9612	3000	26210
				Water Total	**26210**

Appendix D

New Jersey
ACCUTEST
Laboratories

05/05/03

Technical Report for

TRC Environmental Corporation, NJ

First Avenue Properties, Parking Lot East 39th Street, NY

Accutest Job Number: N29559

Report to:

TRC Environmental Corporation, NJ

mburke@trcsolutions.com

ATTN: Mike D. Burke

Total number of pages in report: 9

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, MA, MD, NC, PA, RI, SC, VA

Sample Summary

TRC Environmental Corporation, NJ

Job No: N29559

First Avenue Properties, Parking Lot East 39th Street, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
N29559-1	12/24/02	10:40	MB	12/27/02	SO	Soil	PL-RWP-EP3
N29559-2	12/24/02	10:45	MB	12/27/02	SO	Soil	PL-RWP-EP2
N29559-3	12/24/02	10:46	MB	12/27/02	SO	Soil	PL-RWP-EP22
N29559-4	12/24/02	10:55	MB	12/27/02	SO	Soil	PL-RWP-EP1
N29559-5	12/24/02	11:08	MB	12/27/02	SO	Soil	PL-RWP-EP4
N29559-6	12/24/02	11:15	MB	12/27/02	SO	Soil	PL-RWP-EP5
N29559-7	12/26/02	14:32	MB	12/27/02	SO	Soil	PL-RWP-EP6

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Client Sample ID:	PL-RWP-EP3		
Lab Sample ID:	N29559-1	Date Sampled:	12/24/02
Matrix:	SO - Soil	Date Received:	12/27/02
		Percent Solids:	87.0
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Lead	104	1.1	mg/kg	1	12/28/02	12/31/02	ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PL-RWP-EP2		
Lab Sample ID:	N29559-2	Date Sampled:	12/24/02
Matrix:	SO - Soil	Date Received:	12/27/02
		Percent Solids:	78.5
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Lead	15.4	1.3	mg/kg	1	12/28/02	12/31/02	ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PL-RWP-EP22		
Lab Sample ID:	N29559-3	Date Sampled:	12/24/02
Matrix:	SO - Soil	Date Received:	12/27/02
		Percent Solids:	77.6
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Lead	16.8	1.3	mg/kg	1	12/28/02	12/31/02	ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PL-RWP-EP1		
Lab Sample ID:	N29559-4	Date Sampled:	12/24/02
Matrix:	SO - Soil	Date Received:	12/27/02
		Percent Solids:	80.2
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Lead	54.1	1.3	mg/kg	1	12/28/02	12/31/02	ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PL-RWP-EP4		
Lab Sample ID:	N29559-5	Date Sampled:	12/24/02
Matrix:	SO - Soil	Date Received:	12/27/02
		Percent Solids:	68.1
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	209	1.5	mg/kg	1	12/28/02	12/31/02	ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PL-RWP-EP5		
Lab Sample ID:	N29559-6	Date Sampled:	12/24/02
Matrix:	SO - Soil	Date Received:	12/27/02
		Percent Solids:	73.8
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	20.2	1.3	mg/kg	1	12/28/02	12/31/02	ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PL-RWP-EP6		
Lab Sample ID:	N29559-7	Date Sampled:	12/26/02
Matrix:	SO - Soil	Date Received:	12/27/02
		Percent Solids:	91.9
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Lead	9.1	1.1	mg/kg	1	12/28/02	12/31/02	ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

New Jersey
ACCUTEST
Laboratories

05/05/03

Technical Report for

TRC Environmental Corporation, NJ

First Avenue Properties, Parking Lot East 39th Street, NY

28410-PL05-2430T

Accutest Job Number: N29654

Report to:

TRC Environmental Corporation, NJ

mburke@trcsolutions.com

ATTN: Mike D. Burke

Total number of pages in report: 19

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, MA, MD, NC, PA, RI, SC, VA

Sample Summary

TRC Environmental Corporation, NJ

Job No: N29654

First Avenue Properties, Parking Lot East 39th Street, NY
Project No: 28410-PL05-2430T

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
N29654-1	12/27/02	15:36	MB	12/31/02	SO	Soil	PL-RWP-VOC1
N29654-2	12/27/02	15:39	MB	12/31/02	SO	Soil	PL-RWP-VOC2
N29654-3	12/27/02	15:43	MB	12/31/02	SO	Soil	PL-RWP-VOC3
N29654-4	12/27/02	15:47	MB	12/31/02	SO	Soil	PL-RWP-VOC4
N29654-5	12/27/02	15:55	MB	12/31/02	SO	Soil	PL-RWP-VOC5
N29654-6	12/27/02	16:01	MB	12/31/02	SO	Soil	PL-RWP-VOC6
N29654-7	12/27/02	16:05	MB	12/31/02	SO	Soil	PL-RWP-VOC7
N29654-8	12/27/02	16:10	MB	12/31/02	SO	Soil	PL-RWP-VOC8
N29654-9	12/30/02	13:45	MB	12/31/02	SO	Soil	PLRWP-EP07

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Client Sample ID:	PL-RWP-VOC1		
Lab Sample ID:	N29654-1	Date Sampled:	12/27/02
Matrix:	SO - Soil	Date Received:	12/31/02
Method:	SW846 8260B	Percent Solids:	81.6
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G55329.D	1	01/01/03	SJM	n/a	n/a	VG3062
Run #2							

	Initial Weight
Run #1	4.2 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	15	7.3	ug/kg	
71-43-2	Benzene	ND	1.5	0.84	ug/kg	
78-93-3	2-Butanone (MEK)	ND	15	5.0	ug/kg	
104-51-8	n-Butylbenzene	ND	7.3	1.5	ug/kg	
135-98-8	sec-Butylbenzene	ND	7.3	1.4	ug/kg	
98-06-6	tert-Butylbenzene	ND	7.3	1.5	ug/kg	
75-15-0	Carbon disulfide	ND	7.3	1.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	7.3	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	7.3	1.1	ug/kg	
75-00-3	Chloroethane	ND	7.3	3.2	ug/kg	
67-66-3	Chloroform	ND	7.3	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	7.3	2.9	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.9	0.66	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.9	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.9	0.89	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.3	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	7.3	1.1	ug/kg	
75-35-4	1,1-Dichloroethene	ND	7.3	1.5	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	7.3	1.4	ug/kg	
142-28-9	1,3-Dichloropropane	ND	7.3	0.71	ug/kg	
100-41-4	Ethylbenzene	ND	1.5	1.4	ug/kg	
76-13-1	Freon 113	ND	7.3	1.2	ug/kg	
98-82-8	Isopropylbenzene	ND	7.3	1.5	ug/kg	
99-87-6	p-Isopropyltoluene	ND	7.3	1.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	3.0	1.5	0.49	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.3	3.7	ug/kg	
75-09-2	Methylene chloride	ND	7.3	6.9	ug/kg	
103-65-1	n-Propylbenzene	ND	7.3	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.3	2.9	ug/kg	
127-18-4	Tetrachloroethene	ND	7.3	1.5	ug/kg	
108-88-3	Toluene	ND	1.5	1.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.3	1.1	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC1		
Lab Sample ID:	N29654-1	Date Sampled:	12/27/02
Matrix:	SO - Soil	Date Received:	12/31/02
Method:	SW846 8260B	Percent Solids:	81.6
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-55-6	1,1,1-Trichloroethane	ND	7.3	1.2	ug/kg	
79-01-6	Trichloroethene	ND	7.3	1.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	7.3	4.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	7.3	1.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	7.3	1.3	ug/kg	
75-01-4	Vinyl chloride	ND	7.3	1.6	ug/kg	
1330-20-7	Xylene (total)	ND	2.9	1.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-124%
17060-07-0	1,2-Dichloroethane-D4	83%		62-130%
2037-26-5	Toluene-D8	94%		75-125%
460-00-4	4-Bromofluorobenzene	95%		67-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC2		
Lab Sample ID:	N29654-2	Date Sampled:	12/27/02
Matrix:	SO - Soil	Date Received:	12/31/02
Method:	SW846 8260B	Percent Solids:	86.8
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G55330.D	1	01/01/03	SJM	n/a	n/a	VG3062
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	5.6	ug/kg	
71-43-2	Benzene	ND	1.1	0.65	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	3.9	ug/kg	
104-51-8	n-Butylbenzene	ND	5.6	1.2	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.6	1.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.6	1.1	ug/kg	
75-15-0	Carbon disulfide	ND	5.6	0.88	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.6	0.97	ug/kg	
108-90-7	Chlorobenzene	ND	5.6	0.82	ug/kg	
75-00-3	Chloroethane	ND	5.6	2.5	ug/kg	
67-66-3	Chloroform	ND	5.6	0.93	ug/kg	
124-48-1	Dibromochloromethane	ND	5.6	2.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.3	0.51	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.3	0.78	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.3	0.69	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.6	0.88	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.6	0.84	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.6	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.6	1.1	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.6	0.55	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	1.1	ug/kg	
76-13-1	Freon 113	ND	5.6	0.90	ug/kg	
98-82-8	Isopropylbenzene	ND	5.6	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.6	1.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.38	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.6	2.9	ug/kg	
75-09-2	Methylene chloride	ND	5.6	5.3	ug/kg	
103-65-1	n-Propylbenzene	ND	5.6	0.97	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	2.3	ug/kg	
127-18-4	Tetrachloroethene	ND	5.6	1.1	ug/kg	
108-88-3	Toluene	ND	1.1	0.86	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	0.83	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC2		
Lab Sample ID:	N29654-2	Date Sampled:	12/27/02
Matrix:	SO - Soil	Date Received:	12/31/02
Method:	SW846 8260B	Percent Solids:	86.8
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-55-6	1,1,1-Trichloroethane	ND	5.6	0.92	ug/kg	
79-01-6	Trichloroethene	ND	5.6	1.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.6	3.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.6	0.94	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.6	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	1.2	ug/kg	
1330-20-7	Xylene (total)	ND	2.3	1.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-124%
17060-07-0	1,2-Dichloroethane-D4	83%		62-130%
2037-26-5	Toluene-D8	93%		75-125%
460-00-4	4-Bromofluorobenzene	97%		67-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC3		
Lab Sample ID:	N29654-3	Date Sampled:	12/27/02
Matrix:	SO - Soil	Date Received:	12/31/02
Method:	SW846 8260B	Percent Solids:	88.9
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G55331.D	1	01/01/03	SJM	n/a	n/a	VG3062
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	5.5	ug/kg	
71-43-2	Benzene	ND	1.1	0.64	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	3.8	ug/kg	
104-51-8	n-Butylbenzene	ND	5.5	1.1	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.5	1.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.5	1.1	ug/kg	
75-15-0	Carbon disulfide	ND	5.5	0.86	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.5	0.95	ug/kg	
108-90-7	Chlorobenzene	ND	5.5	0.80	ug/kg	
75-00-3	Chloroethane	ND	5.5	2.4	ug/kg	
67-66-3	Chloroform	ND	5.5	0.91	ug/kg	
124-48-1	Dibromochloromethane	ND	5.5	2.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.2	0.50	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.2	0.76	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.2	0.67	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.5	0.86	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.5	0.82	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.5	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.5	1.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.5	0.54	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	1.1	ug/kg	
76-13-1	Freon 113	ND	5.5	0.88	ug/kg	
98-82-8	Isopropylbenzene	ND	5.5	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.5	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.37	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.5	2.8	ug/kg	
75-09-2	Methylene chloride	ND	5.5	5.2	ug/kg	
103-65-1	n-Propylbenzene	ND	5.5	0.94	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	2.2	ug/kg	
127-18-4	Tetrachloroethene	ND	5.5	1.1	ug/kg	
108-88-3	Toluene	ND	1.1	0.84	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.5	0.81	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC3		
Lab Sample ID:	N29654-3	Date Sampled:	12/27/02
Matrix:	SO - Soil	Date Received:	12/31/02
Method:	SW846 8260B	Percent Solids:	88.9
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-55-6	1,1,1-Trichloroethane	ND	5.5	0.90	ug/kg	
79-01-6	Trichloroethene	ND	5.5	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.5	3.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.5	0.91	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.5	0.99	ug/kg	
75-01-4	Vinyl chloride	ND	5.5	1.2	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-124%
17060-07-0	1,2-Dichloroethane-D4	76%		62-130%
2037-26-5	Toluene-D8	95%		75-125%
460-00-4	4-Bromofluorobenzene	98%		67-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC4		
Lab Sample ID:	N29654-4	Date Sampled:	12/27/02
Matrix:	SO - Soil	Date Received:	12/31/02
Method:	SW846 8260B	Percent Solids:	71.0
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G55332.D	1	01/01/03	SJM	n/a	n/a	VG3062
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	14	7.0	ug/kg	
71-43-2	Benzene	ND	1.4	0.81	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	4.8	ug/kg	
104-51-8	n-Butylbenzene	ND	7.0	1.5	ug/kg	
135-98-8	sec-Butylbenzene	ND	7.0	1.4	ug/kg	
98-06-6	tert-Butylbenzene	ND	7.0	1.4	ug/kg	
75-15-0	Carbon disulfide	ND	7.0	1.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	7.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	7.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	7.0	3.1	ug/kg	
67-66-3	Chloroform	ND	7.0	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	7.0	2.8	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.8	0.64	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.8	0.97	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.8	0.85	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.0	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	7.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethene	ND	7.0	1.4	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	7.0	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	7.0	0.69	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	1.4	ug/kg	
76-13-1	Freon 113	ND	7.0	1.1	ug/kg	
98-82-8	Isopropylbenzene	ND	7.0	1.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	7.0	1.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	7.3	1.4	0.47	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.0	3.6	ug/kg	
75-09-2	Methylene chloride	ND	7.0	6.7	ug/kg	
103-65-1	n-Propylbenzene	ND	7.0	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.0	2.8	ug/kg	
127-18-4	Tetrachloroethene	ND	7.0	1.4	ug/kg	
108-88-3	Toluene	ND	1.4	1.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.0	1.0	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC4		
Lab Sample ID:	N29654-4	Date Sampled:	12/27/02
Matrix:	SO - Soil	Date Received:	12/31/02
Method:	SW846 8260B	Percent Solids:	71.0
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-55-6	1,1,1-Trichloroethane	ND	7.0	1.2	ug/kg	
79-01-6	Trichloroethene	ND	7.0	1.3	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	7.0	4.3	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	7.0	1.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	7.0	1.3	ug/kg	
75-01-4	Vinyl chloride	ND	7.0	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	2.8	1.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-124%
17060-07-0	1,2-Dichloroethane-D4	73%		62-130%
2037-26-5	Toluene-D8	96%		75-125%
460-00-4	4-Bromofluorobenzene	97%		67-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC5		
Lab Sample ID:	N29654-5	Date Sampled:	12/27/02
Matrix:	SO - Soil	Date Received:	12/31/02
Method:	SW846 8260B	Percent Solids:	73.4
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G55333.D	1	01/01/03	SJM	n/a	n/a	VG3062
Run #2							

	Initial Weight
Run #1	4.6 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	15	7.4	ug/kg	
71-43-2	Benzene	ND	1.5	0.86	ug/kg	
78-93-3	2-Butanone (MEK)	ND	15	5.1	ug/kg	
104-51-8	n-Butylbenzene	ND	7.4	1.5	ug/kg	
135-98-8	sec-Butylbenzene	ND	7.4	1.5	ug/kg	
98-06-6	tert-Butylbenzene	ND	7.4	1.5	ug/kg	
75-15-0	Carbon disulfide	ND	7.4	1.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	7.4	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	7.4	1.1	ug/kg	
75-00-3	Chloroethane	ND	7.4	3.2	ug/kg	
67-66-3	Chloroform	ND	7.4	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	7.4	3.0	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.0	0.67	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.0	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3.0	0.90	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.4	1.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	7.4	1.1	ug/kg	
75-35-4	1,1-Dichloroethene	ND	7.4	1.5	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	7.4	1.4	ug/kg	
142-28-9	1,3-Dichloropropane	ND	7.4	0.72	ug/kg	
100-41-4	Ethylbenzene	ND	1.5	1.4	ug/kg	
76-13-1	Freon 113	ND	7.4	1.2	ug/kg	
98-82-8	Isopropylbenzene	ND	7.4	1.5	ug/kg	
99-87-6	p-Isopropyltoluene	ND	7.4	1.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.5	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.4	3.8	ug/kg	
75-09-2	Methylene chloride	ND	7.4	7.0	ug/kg	
103-65-1	n-Propylbenzene	ND	7.4	1.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.4	3.0	ug/kg	
127-18-4	Tetrachloroethene	ND	7.4	1.5	ug/kg	
108-88-3	Toluene	ND	1.5	1.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.4	1.1	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC5		
Lab Sample ID:	N29654-5	Date Sampled:	12/27/02
Matrix:	SO - Soil	Date Received:	12/31/02
Method:	SW846 8260B	Percent Solids:	73.4
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-55-6	1,1,1-Trichloroethane	ND	7.4	1.2	ug/kg	
79-01-6	Trichloroethene	ND	7.4	1.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	7.4	4.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	7.4	1.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	7.4	1.3	ug/kg	
75-01-4	Vinyl chloride	ND	7.4	1.6	ug/kg	
1330-20-7	Xylene (total)	ND	3.0	1.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-124%
17060-07-0	1,2-Dichloroethane-D4	78%		62-130%
2037-26-5	Toluene-D8	95%		75-125%
460-00-4	4-Bromofluorobenzene	96%		67-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC6		
Lab Sample ID:	N29654-6	Date Sampled:	12/27/02
Matrix:	SO - Soil	Date Received:	12/31/02
Method:	SW846 8260B	Percent Solids:	84.8
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G55358.D	1	01/02/03	SJM	n/a	n/a	VG3063
Run #2							

	Initial Weight
Run #1	4.6 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	6.4	ug/kg	
71-43-2	Benzene	ND	1.3	0.74	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	4.4	ug/kg	
104-51-8	n-Butylbenzene	ND	6.4	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.4	1.3	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.4	1.3	ug/kg	
75-15-0	Carbon disulfide	ND	6.4	1.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.4	1.1	ug/kg	
108-90-7	Chlorobenzene	ND	6.4	0.93	ug/kg	
75-00-3	Chloroethane	ND	6.4	2.8	ug/kg	
67-66-3	Chloroform	ND	6.4	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.4	2.6	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.6	0.58	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.6	0.88	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.6	0.78	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.4	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.4	0.96	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.4	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.4	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.4	0.62	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	1.2	ug/kg	
76-13-1	Freon 113	ND	6.4	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	6.4	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.4	1.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.43	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.4	3.3	ug/kg	
75-09-2	Methylene chloride	ND	6.4	6.1	ug/kg	
103-65-1	n-Propylbenzene	ND	6.4	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.4	2.6	ug/kg	
127-18-4	Tetrachloroethene	ND	6.4	1.3	ug/kg	
108-88-3	Toluene	ND	1.3	0.98	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.4	0.95	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC6		
Lab Sample ID:	N29654-6	Date Sampled:	12/27/02
Matrix:	SO - Soil	Date Received:	12/31/02
Method:	SW846 8260B	Percent Solids:	84.8
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-55-6	1,1,1-Trichloroethane	ND	6.4	1.0	ug/kg	
79-01-6	Trichloroethene	ND	6.4	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.4	3.9	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.4	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.4	1.1	ug/kg	
75-01-4	Vinyl chloride	ND	6.4	1.4	ug/kg	
1330-20-7	Xylene (total)	ND	2.6	1.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		70-124%
17060-07-0	1,2-Dichloroethane-D4	72%		62-130%
2037-26-5	Toluene-D8	95%		75-125%
460-00-4	4-Bromofluorobenzene	89%		67-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC7		
Lab Sample ID:	N29654-7	Date Sampled:	12/27/02
Matrix:	SO - Soil	Date Received:	12/31/02
Method:	SW846 8260B	Percent Solids:	72.8
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G55359.D	1	01/02/03	SJM	n/a	n/a	VG3063
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	14	6.9	ug/kg	
71-43-2	Benzene	ND	1.4	0.79	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	4.7	ug/kg	
104-51-8	n-Butylbenzene	ND	6.9	1.4	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.9	1.4	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.9	1.4	ug/kg	
75-15-0	Carbon disulfide	ND	6.9	1.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.9	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	6.9	1.0	ug/kg	
75-00-3	Chloroethane	ND	6.9	3.0	ug/kg	
67-66-3	Chloroform	ND	6.9	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.9	2.7	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.7	0.62	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.7	0.95	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.7	0.83	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.9	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.9	1.0	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.9	1.4	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.9	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.9	0.67	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	1.3	ug/kg	
76-13-1	Freon 113	ND	6.9	1.1	ug/kg	
98-82-8	Isopropylbenzene	ND	6.9	1.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.9	1.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.46	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.9	3.5	ug/kg	
75-09-2	Methylene chloride	ND	6.9	6.5	ug/kg	
103-65-1	n-Propylbenzene	ND	6.9	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.9	2.7	ug/kg	
127-18-4	Tetrachloroethene	ND	6.9	1.4	ug/kg	
108-88-3	Toluene	ND	1.4	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.9	1.0	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC7		
Lab Sample ID:	N29654-7	Date Sampled:	12/27/02
Matrix:	SO - Soil	Date Received:	12/31/02
Method:	SW846 8260B	Percent Solids:	72.8
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-55-6	1,1,1-Trichloroethane	ND	6.9	1.1	ug/kg	
79-01-6	Trichloroethene	ND	6.9	1.3	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.9	4.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.9	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.9	1.2	ug/kg	
75-01-4	Vinyl chloride	ND	6.9	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	2.7	1.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-124%
17060-07-0	1,2-Dichloroethane-D4	76%		62-130%
2037-26-5	Toluene-D8	96%		75-125%
460-00-4	4-Bromofluorobenzene	91%		67-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC8		
Lab Sample ID:	N29654-8	Date Sampled:	12/27/02
Matrix:	SO - Soil	Date Received:	12/31/02
Method:	SW846 8260B	Percent Solids:	85.2
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G55363.D	1	01/02/03	SJM	n/a	n/a	VG3063
Run #2							

	Initial Weight
Run #1	4.6 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	6.4	ug/kg	
71-43-2	Benzene	ND	1.3	0.74	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	4.4	ug/kg	
104-51-8	n-Butylbenzene	ND	6.4	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.4	1.3	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.4	1.3	ug/kg	
75-15-0	Carbon disulfide	ND	6.4	1.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.4	1.1	ug/kg	
108-90-7	Chlorobenzene	ND	6.4	0.92	ug/kg	
75-00-3	Chloroethane	ND	6.4	2.8	ug/kg	
67-66-3	Chloroform	ND	6.4	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	6.4	2.6	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.6	0.58	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.6	0.88	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.6	0.77	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.4	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.4	0.95	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.4	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.4	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.4	0.62	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	1.2	ug/kg	
76-13-1	Freon 113	ND	6.4	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	6.4	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.4	1.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.43	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.4	3.3	ug/kg	
75-09-2	Methylene chloride	ND	6.4	6.0	ug/kg	
103-65-1	n-Propylbenzene	ND	6.4	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.4	2.6	ug/kg	
127-18-4	Tetrachloroethene	ND	6.4	1.3	ug/kg	
108-88-3	Toluene	ND	1.3	0.97	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.4	0.94	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC8		
Lab Sample ID:	N29654-8	Date Sampled:	12/27/02
Matrix:	SO - Soil	Date Received:	12/31/02
Method:	SW846 8260B	Percent Solids:	85.2
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-55-6	1,1,1-Trichloroethane	ND	6.4	1.0	ug/kg	
79-01-6	Trichloroethene	ND	6.4	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.4	3.9	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.4	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.4	1.1	ug/kg	
75-01-4	Vinyl chloride	ND	6.4	1.4	ug/kg	
1330-20-7	Xylene (total)	ND	2.6	1.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		70-124%
17060-07-0	1,2-Dichloroethane-D4	75%		62-130%
2037-26-5	Toluene-D8	96%		75-125%
460-00-4	4-Bromofluorobenzene	88%		67-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLRWP-EP07		
Lab Sample ID:	N29654-9	Date Sampled:	12/30/02
Matrix:	SO - Soil	Date Received:	12/31/02
		Percent Solids:	80.6
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	1110	1.2	mg/kg	1	01/06/03	01/09/03	EK	SW846 6010B	SW846 3050B

RL = Reporting Limit

New Jersey ACCUTEST Laboratories

05/05/03

Technical Report for

TRC Environmental Corporation, NJ

First Avenue Properties, Parking Lot East 39th Street, NY

Accutest Job Number: N30771

Report to:

TRC Environmental Corporation, NJ

mburke@trcsolutions.com

ATTN: Mike D. Burke

Total number of pages in report: 8

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, MA, MD, NC, PA, RI, SC, VA

Sample Summary

TRC Environmental Corporation, NJ

Job No: N30771

First Avenue Properties, Parking Lot East 39th Street, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
N30771-1	01/03/03	13:50	CG	01/16/03	SO	Soil	PLRWP-EP08
N30771-2	01/08/03	10:30	CG	01/16/03	SO	Soil	PLRWP-EP09
N30771-3	01/09/03	11:30	CG	01/16/03	SO	Soil	PLRWP-EP10
N30771-4	01/10/03	11:10	CG	01/16/03	SO	Soil	PLRWP-EP11
N30771-5	01/14/03	10:45	CG	01/16/03	SO	Soil	PLRWP-EP12
N30771-6	01/15/03	11:15	CG	01/16/03	SO	Soil	PLRWP-EP13

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Client Sample ID:	PLRWP-EP08		
Lab Sample ID:	N30771-1	Date Sampled:	01/03/03
Matrix:	SO - Soil	Date Received:	01/16/03
		Percent Solids:	91.9
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	3.1	1.1	mg/kg	1	01/17/03	01/18/03	KL	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PLRWP-EP09		
Lab Sample ID:	N30771-2	Date Sampled:	01/08/03
Matrix:	SO - Soil	Date Received:	01/16/03
		Percent Solids:	92.2
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	3.1	1.0	mg/kg	1	01/17/03	01/18/03	KL	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PLRWP-EP10		
Lab Sample ID:	N30771-3	Date Sampled:	01/09/03
Matrix:	SO - Soil	Date Received:	01/16/03
		Percent Solids:	96.2
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.7	1.1	mg/kg	1	01/17/03	01/18/03	KL	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PLRWP-EP11		
Lab Sample ID:	N30771-4	Date Sampled:	01/10/03
Matrix:	SO - Soil	Date Received:	01/16/03
		Percent Solids:	95.0
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	31.6	1.0	mg/kg	1	01/17/03	01/18/03	KL	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PLRWP-EP12		
Lab Sample ID:	N30771-5	Date Sampled:	01/14/03
Matrix:	SO - Soil	Date Received:	01/16/03
		Percent Solids:	95.9
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	12.6	1.1	mg/kg	1	01/17/03	01/18/03	KL	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PLRWP-EP13		
Lab Sample ID:	N30771-6	Date Sampled:	01/15/03
Matrix:	SO - Soil	Date Received:	01/16/03
		Percent Solids:	93.7
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	11.2	1.0	mg/kg	1	01/17/03	01/18/03	KL	SW846 6010B	SW846 3050B

RL = Reporting Limit

New Jersey
ACCUTEST
Laboratories

05/05/03

Technical Report for

TRC Environmental Corporation, NJ

First Avenue Properties, Parking Lot East 39th Street, NY

28410 PL05 2430T

Accutest Job Number: N31207

Report to:

TRC Environmental Corporation, NJ

mburke@trcsolutions.com

ATTN: Mike D. Burke

Total number of pages in report: 4

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, MA, MD, NC, PA, RI, SC, VA

Sample Summary

TRC Environmental Corporation, NJ

Job No: N31207

First Avenue Properties, Parking Lot East 39th Street, NY
Project No: 28410 PL05 2430T

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
N31207-1	01/16/03	13:10	CG	01/22/03	SO	Soil	PLRWP-EP07A
N31207-2	01/16/03	13:12	CG	01/22/03	SO	Soil	PLRWP-EP07B

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Client Sample ID:	PLRWP-EP07A		
Lab Sample ID:	N31207-1	Date Sampled:	01/16/03
Matrix:	SO - Soil	Date Received:	01/22/03
		Percent Solids:	85.3
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Lead	1470	1.2	mg/kg	1	01/23/03	01/23/03	ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PLRWP-EP07B		
Lab Sample ID:	N31207-2	Date Sampled:	01/16/03
Matrix:	SO - Soil	Date Received:	01/22/03
		Percent Solids:	96.3
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Lead	303	1.0	mg/kg	1	01/23/03	01/23/03	ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

Appendix E

ORC Design Software for Grid Applications Using Slurry Injection

US Version 3.0

Regenesis Technical Support: USA (949) 366-8000, www.regenesis.com

Site Name:
Location: 685 First Ave, NY, NY
Consultant: TRC Solutions

Site Conceptual Model/Extent of Plume Requiring Remediation

Width of plume (intersecting gw flow direction)	90	ft		
Length of plume (parallel to gw flow direction)	60	ft	=	5,400 sq. ft.
Depth to contaminated zone	20	ft		
Thickness of contaminated saturated zone	10	ft		
Nominal aquifer soil (gravel, sand, silty sand, silt, clay)	gravel			
Total porosity	0.3		Eff. porosity	0.25
Hydraulic conductivity	1	ft/day	=	3.5E-04 cm/sec
Hydraulic gradient	0.005	ft/ft		
Seepage velocity	7.3	ft/yr	=	0.020 ft/day
Treatment Zone Pore Volume	16,200	ft^3	=	121.192 gallons

Dissolved Phase Oxygen Demand:

Individual species that represent oxygen demand:	Contaminant Conc (mg/L)	Contaminant Mass (lb)	Stoich. (wt/wt) O_2/contam.	ORC (lb) (10% O_2)
benzene	0.01	0.0	3.1	0
toluene	0.06	0.1	3.1	2
ethylbenzene	0.01	0.0	3.2	0
xylenes	0.10	0.1	3.2	3
MTBE	5.00	5.1	2.7	136
dichloroethene	0.00	0.0	0.7	0
vinyl chloride	0.00	0.0	1.3	0
User added, also add stoichiometric demand	0.00	0.0	0.0	0
User added, also add stoichiometric demand	0.00	0.0	0.0	0
reduced metals: Fe (+2) and Mn(+2)	10.00	10.1	0.10	10
Measures of total oxygen demand				
Total Petroleum Hydrocarbons	10.00	10.1	3.1	313
Biological Oxygen Demand (BOD)	30.00	30.3	1	303
Chemical Oxygen Demand (COD)	60.00	60.6	1	606

Estimates for Sorbed Phase Oxygen Demand:

Soil bulk density	1.76	g/cm³ =	110 lb/cf
Fraction of organic carbon: foc	0.001	range: 0 to 0.01	

(Estimated using Soil Conc=foc*Koc*Cgw)
(Adjust Koc as nec. to provide realistic est.)

Individual species that represent oxygen demand:	Koc (L/kg)	Contaminant Conc (mg/kg)	Contaminant Mass (lb)	Stoich. O_2/contam.	ORC (lb) (10% O_2)
benzene	83	0.00	0.0	3.1	0
toluene	135	0.01	0.1	3.1	2
ethylbenzene	95	0.00	0.0	3.2	0
xylenes	240	0.02	0.1	3.2	5
MTBE	12	0.06	0.4	2.7	10
dichloroethene	80	0.00	0.0	0.7	0
vinyl chloride	2.5	0.00	0.0	1.3	0
User added, also add stoichiometric demand	0.0	0.00	0.0	0.0	0
User added, also add stoichiometric demand	0.0	0.00	0.0	0.0	0
Measures of total oxygen demand					
Total Petroleum Hydrocarbons	178	1.78	10.6	3.1	327
Biological Oxygen Demand (BOD): Use a multiple of dissolved phase ->	1.00		30.3	1	303
Chemical Oxygen Demand (COD): Use a multiple of dissolved phase ->	1.00		60.6	1	606

Summary of Estimated ORC Requirements

	ORC for Dissolved Phase (lbs)	ORC for Sorbed Phase (lbs)	Add Dem Factor (1 to 10x)	ORC Total w/ Add Dem Factor	ORC Cost at $ 10.00	
(•) Individual Species: Total BTEX, MTBE	152	16	5	842	$ 8,423	<-
( ) Total Petroleum Hydrocarbons	313	327	2	1,281	$ 12,813	
( ) Biological Oxygen Demand (BOD)	303	303	2	1,213	$ 12,126	
( ) Chemical Oxygen Demand (COD)	606	606	1	1,213	$ 12,126	

Select above measure (button) to specify required ORC quantity (in 30 lb increments) ------> 870 pounds ORC

Delivery Design for ORC Slurry

Spacing within rows (ft)	12.0	feet	
# points per row	8	points/row	
Spacing between rows (ft)	15.0	ft	
# of rows	4	rows	
Advective travel time bet. rows (days)	750	days	
Number of points in grid	32	points	
Required ORC per foot — Minimum Dose Override->	3.0	lbs/foot	
Total ORC — Minimum Dose Override->	960	lbs of ORC	

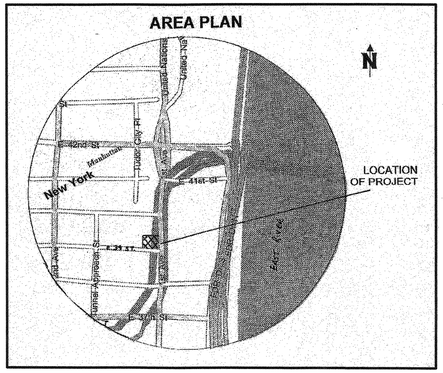
Slurry Mixing Volume for Injections

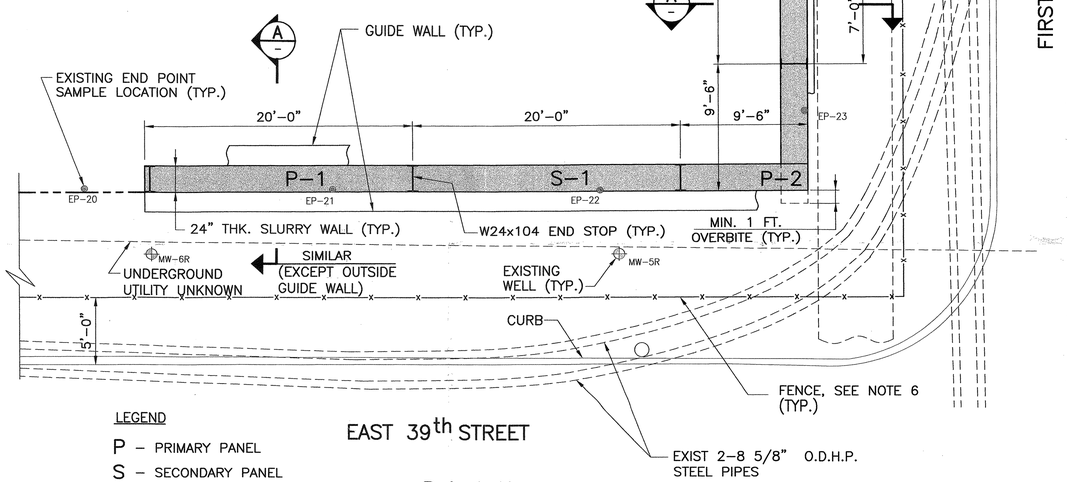
Pounds per location	30
Buckets per location	1.0
Design solids content (20-40% by wt. for injections)	25%
Volume of water required per hole (gal)	11
Total water for mixing all holes (gal)	345
Simple ORC Backfilling: min hole dia. for 67% slurry	2.9
Feasibility for slurry injection in sand: ok up to 15 lb/ft	(ok)
Feasibility for slurry injection in silt: ok up to 10 lb/ft	(ok)
Feasibility for slurry injection in clay: ok up to 5 lb/ft	(ok)

ORC Design for Excavation Applications

TRC applied 180 lbs of ORC as a 25% slurry mixture. The VOC impacted area during the RWP was 600 sf. Based on the analytics, Regenesis calculated 0.3 lbs of 25% ORC slurry applied for every square foot of excavation area (based on calculations provided in Appendix F of the Interim Remedial Measures Work Plan Supplement 2, dated October 2001.

Appendix F





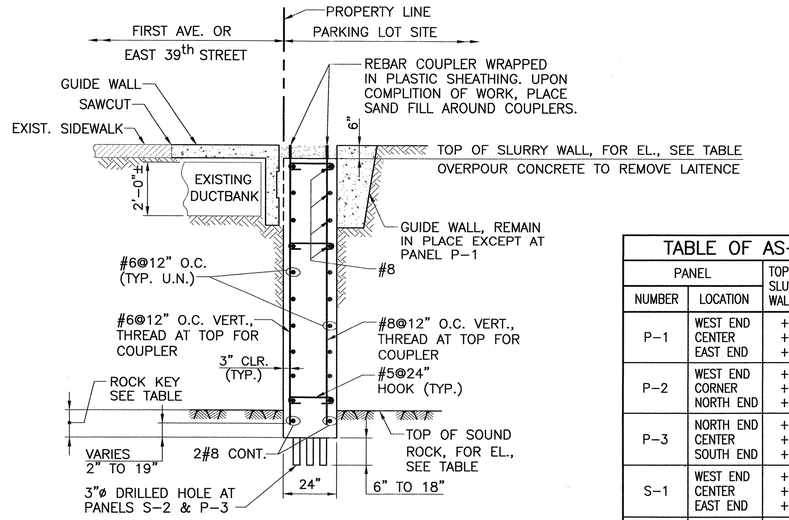
LEGEND

P – PRIMARY PANEL

S – SECONDARY PANEL

PLAN

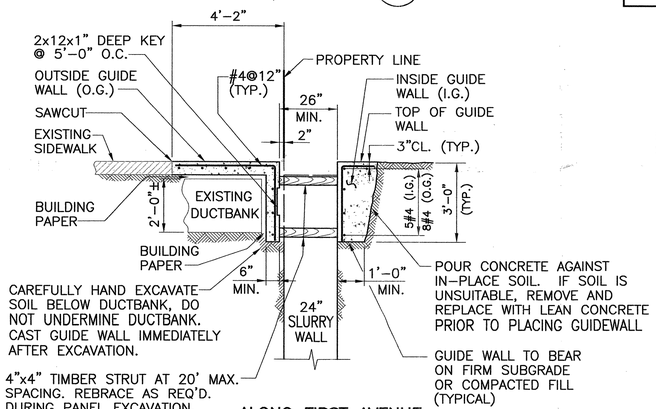
SCALE: 3/16"=1'-0"



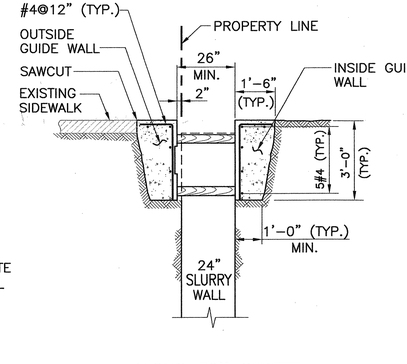
SECTION A

SCALE: 3/8"=1'-0"

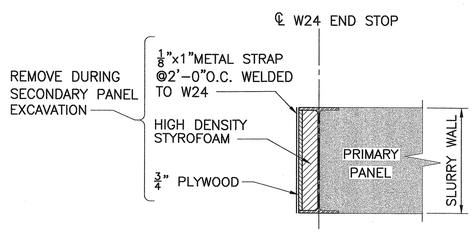
TABLE OF AS-BUILT SLURRY WALL DATA					
PANEL		TOP OF SLURRY WALL ELEV.	ELEV. OF TOP OF SOUND ROCK	ROCK QUALITY	DEPTH OF ROCK KEY (FEET)
NUMBER	LOCATION				
P-1	WEST END	+23.6	+12.2	CLASS 3-65	0.5
	CENTER	+23.7	+11.9		1.0
	EAST END	+23.9	+11.4		1.1
P-2	WEST END	+22.9	+12.7	CLASS 3-65	1.0
	CORNER	+22.8	+12.3		0.0
	NORTH END	+23.0	+12.7		2.0
P-3	NORTH END	+23.9	+16.0	CLASS 2-65	0.0
	CENTER	+23.8	+15.1		1.6
	SOUTH END	+23.6	+14.9		0.6
S-1	WEST END	+23.8	+10.9	CLASS 3-65	1.2
	CENTER	+23.6	+11.6		1.1
	EAST END	+23.0	+12.3		1.3
S-2	NORTH END	+23.2	+14.9	CLASS 2-65	0.6
	CENTER	+23.2	+13.7		1.0
	SOUTH END	+23.1	+12.5		1.4

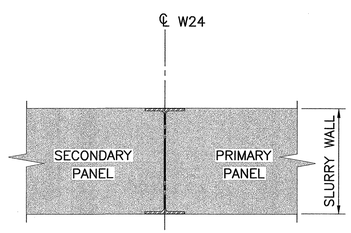


ALONG FIRST AVENUE



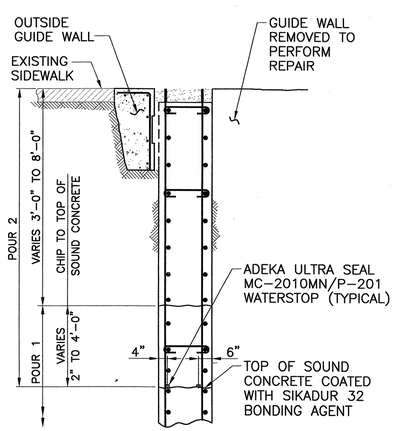
ALONG 39th STREET





DETAIL 1

SCALE: 3/4"=1'-0"



REPAIR AT PANEL P-1

3/8"=1'-0"

GUIDE WALL DETAIL

3/8"=1'-0"

NOTES:

1. FOR SLURRY WALL MATERIAL AND INSTALLATION REQUIREMENTS, REFER TO CONTRACT SPECIFICATION 02168.
2. UTILITY INFORMATION SHOWN HERE IS FROM "CON EDISON FIRST AVENUE PARKING LOT SUBSURFACE UTILITIES MAP", DWG. NO. SK-3190.
3. EXISTING END POINT SAMPLES, WELLS AND TOP OF ROCK SHOWN ON THIS DRAWING ARE FROM "FIGURE 3, EXCAVATION END POINT SAMPLE LOCATION AND RESULTS MAP", DATED 12/16/02, BY TRC CORPORATION, AS REPORTED IN TRC'S FINAL REPORT FOR INTERIM REMEDIAL MEASURES (IRM) WORK PLANS AND PARKING LOT REMEDIATION WORK PLAN (DECEMBER 2002).
4. PRIOR TO GUIDE WALL EXCAVATION, LOCALLY EXPOSE NEARBY UTILITIES TO VERIFY CLEARANCE. RECONSTRUCT PORTIONS OF SIDEWALK THAT WERE REMOVED TO VERIFY UTILITY CLEARANCE.
5. SLURRY WALL IS DESIGNED FOR LATERAL SOIL AND WATER LOADS WITH BRACING AT TOP AND A ROCK KEY AT BOTTOM. WALL IS DESIGNED TO CARRY A VERTICAL LOAD OF 80K/FT.
6. FENCE TO BE DESIGNED, FURNISHED AND INSTALLED BY CONTRACTOR CONFORMING TO NYCDOB AND NYCDOT REQUIREMENTS.

REV.	DATE	BY	DESCRIPTION
5	8-28-03	KHT	AS BUILT
4	5-22-03	KHT	ADDED FENCE
3	4-15-03	KHT	ISSUED FOR CONSTRUCTION
2	3-31-03	KHT	REVISED SLURRY WALL TOE DETAIL
1	2-26-03	KHT	REVISED PER OWNER REVIEW COMMENTS

PARKING LOT SITE
685 FIRST AVENUE
NEW YORK BLOCK: 945, LOT: 33 NEW YORK

TRC ENVIRONMENTAL CORP.
LYNDHURST NEW JERSEY

MUESER RUTLEDGE CONSULTING ENGINEERS
14 PENN PLAZA – 225 W. 34TH STREET, NY, NY 10122

SCALE	MADE BY I.Y.	DATE 1-22-03	FILE NO.
AS NOTED	CH'KD BY D.K.	DATE 1-22-03	9884

PERIMETER BARRIER WALL PLAN, SECTION AND DETAILS

DRAWING NO. SW-1

Appendix G

New Jersey
ACCUTEST
Laboratories

05/05/03

Technical Report for

TRC Environmental Corporation, NJ

First Avenue Properties, Parking Lot East 39th Street, NY

28410-PL03-2250T

Accutest Job Number: N17432

Report to:

TRC Environmental Corporation, NJ

mburke@trcsolutions.com

ATTN: Mike D. Burke

Total number of pages in report: 13

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, MA, MD, NC, PA, RI, SC, VA

Sample Summary

TRC Environmental Corporation, NJ

Job No: N17432

First Avenue Properties, Parking Lot East 39th Street, NY
Project No: 28410-PL03-2250T

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
N17432-1	06/28/02	12:35	MB	07/02/02	AQ	Field Blank Water	FB-6/28/02
N17432-2	06/28/02	13:00	MB	07/02/02	AQ	Ground Water	MW-3S
N17432-3	06/28/02	15:12	MB	07/02/02	AQ	Ground Water	MW-3R
N17432-4	06/28/02	15:12	MB	07/02/02	AQ	Ground Water	MW-33R
N17432-5	06/28/02	15:44	MB	07/02/02	AQ	Ground Water	MW-1R
N17432-6	06/28/02	16:09	MB	07/02/02	AQ	Ground Water	MW-4R
N17432-7	06/28/02	16:57	MB	07/02/02	AQ	Ground Water	MW-5R
N17432-8	06/28/02	17:19	MB	07/02/02	AQ	Ground Water	MW-6R
N17432-9	06/28/02	17:43	MB	07/02/02	AQ	Ground Water	MW-2R
N17432-10	06/28/02	18:15	MB	07/02/02	AQ	Ground Water	MW-7R
N17432-11	06/28/02	19:20	MB	07/02/02	AQ	Trip Blank Water	TRIP BLANK

Report of Analysis

Client Sample ID:	FB-6/28/02		
Lab Sample ID:	N17432-1	Date Sampled:	06/28/02
Matrix:	AQ - Field Blank Water	Date Received:	07/02/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58312.D	1	07/09/02	MKP	n/a	n/a	VO2835
Run #2							

	Purge Volume
Run #1	1.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	12.9	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		69-127%
2037-26-5	Toluene-D8	94%		82-119%
460-00-4	4-Bromofluorobenzene	96%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3S		
Lab Sample ID:	N17432-2	Date Sampled:	06/28/02
Matrix:	AQ - Ground Water	Date Received:	07/02/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58313.D	1	07/09/02	MKP	n/a	n/a	VO2835
Run #2	O58329.D	5	07/09/02	MKP	n/a	n/a	VO2834

	Purge Volume
Run #1	1.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	4.9	1.0	ug/l	
108-88-3	Toluene	5.9	1.0	ug/l	
100-41-4	Ethylbenzene	2.0	1.0	ug/l	
1330-20-7	Xylene (total)	17.2	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1720 [a]	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	103%	69-127%
2037-26-5	Toluene-D8	93%	101%	82-119%
460-00-4	4-Bromofluorobenzene	102%	102%	81-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3R		
Lab Sample ID:	N17432-3	Date Sampled:	06/28/02
Matrix:	AQ - Ground Water	Date Received:	07/02/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58314.D	1	07/09/02	MKP	n/a	n/a	VO2835
Run #2	O58333.D	5	07/09/02	MKP	n/a	n/a	VO2836

	Purge Volume
Run #1	1.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	69.8	1.0	ug/l	
108-88-3	Toluene	73.7	1.0	ug/l	
100-41-4	Ethylbenzene	68.6	1.0	ug/l	
1330-20-7	Xylene (total)	349	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1200 [a]	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	101%	69-127%
2037-26-5	Toluene-D8	92%	92%	82-119%
460-00-4	4-Bromofluorobenzene	96%	101%	81-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-33R		
Lab Sample ID:	N17432-4	Date Sampled:	06/28/02
Matrix:	AQ - Ground Water	Date Received:	07/02/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58334.D	1	07/09/02	MKP	n/a	n/a	VO2836
Run #2	O58371.D	5	07/10/02	MKP	n/a	n/a	VO2837

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	66.1	1.0	ug/l	
108-88-3	Toluene	72.2	1.0	ug/l	
100-41-4	Ethylbenzene	61.7	1.0	ug/l	
1330-20-7	Xylene (total)	322	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1060 [a]	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	100%	69-127%
2037-26-5	Toluene-D8	99%	97%	82-119%
460-00-4	4-Bromofluorobenzene	101%	102%	81-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R		
Lab Sample ID:	N17432-5	Date Sampled:	06/28/02
Matrix:	AQ - Ground Water	Date Received:	07/02/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58335.D	500	07/09/02	MKP	n/a	n/a	VO2836
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	8740	500	ug/l	
108-88-3	Toluene	18400	500	ug/l	
100-41-4	Ethylbenzene	2140	500	ug/l	
1330-20-7	Xylene (total)	13700	500	ug/l	
1634-04-4	Methyl Tert Butyl Ether	136000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		69-127%
2037-26-5	Toluene-D8	97%		82-119%
460-00-4	4-Bromofluorobenzene	97%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4R		
Lab Sample ID:	N17432-6	Date Sampled:	06/28/02
Matrix:	AQ - Ground Water	Date Received:	07/02/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58301.D	50	07/09/02	MKP	n/a	n/a	VO2835
Run #2	O58323.D	100	07/09/02	MKP	n/a	n/a	VO2834

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	115	50	ug/l	
108-88-3	Toluene	42.2	50	ug/l	J
100-41-4	Ethylbenzene	33.6	50	ug/l	J
1330-20-7	Xylene (total)	106	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	31300 [a]	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	93%	98%	69-127%
2037-26-5	Toluene-D8	98%	97%	82-119%
460-00-4	4-Bromofluorobenzene	100%	100%	81-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5R		
Lab Sample ID:	N17432-7	Date Sampled:	06/28/02
Matrix:	AQ - Ground Water	Date Received:	07/02/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58336.D	100	07/09/02	MKP	n/a	n/a	VO2836
Run #2	O58372.D	200	07/10/02	MKP	n/a	n/a	VO2837

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	3530	100	ug/l	
108-88-3	Toluene	3210	100	ug/l	
100-41-4	Ethylbenzene	1730	100	ug/l	
1330-20-7	Xylene (total)	20500	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	43700 [a]	200	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	99%	69-127%
2037-26-5	Toluene-D8	92%	98%	82-119%
460-00-4	4-Bromofluorobenzene	100%	102%	81-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6R		
Lab Sample ID:	N17432-8	Date Sampled:	06/28/02
Matrix:	AQ - Ground Water	Date Received:	07/02/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58337.D	50	07/09/02	MKP	n/a	n/a	VO2836
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	2190	50	ug/l	
108-88-3	Toluene	6300	50	ug/l	
100-41-4	Ethylbenzene	2630	50	ug/l	
1330-20-7	Xylene (total)	15400	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	9210	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		69-127%
2037-26-5	Toluene-D8	96%		82-119%
460-00-4	4-Bromofluorobenzene	103%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2R		
Lab Sample ID:	N17432-9	Date Sampled:	06/28/02
Matrix:	AQ - Ground Water	Date Received:	07/02/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58320.D	10	07/09/02	MKP	n/a	n/a	VO2834
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	38.6	10	ug/l	
108-88-3	Toluene	38.1	10	ug/l	
100-41-4	Ethylbenzene	163	10	ug/l	
1330-20-7	Xylene (total)	705	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2580	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		69-127%
2037-26-5	Toluene-D8	101%		82-119%
460-00-4	4-Bromofluorobenzene	100%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7R		
Lab Sample ID:	N17432-10	Date Sampled:	06/28/02
Matrix:	AQ - Ground Water	Date Received:	07/02/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58338.D	1	07/09/02	MKP	n/a	n/a	VO2836
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	6.1	1.0	ug/l	
100-41-4	Ethylbenzene	6.2	1.0	ug/l	
1330-20-7	Xylene (total)	32.5	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.6	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		69-127%
2037-26-5	Toluene-D8	95%		82-119%
460-00-4	4-Bromofluorobenzene	99%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	N17432-11	Date Sampled:	06/28/02
Matrix:	AQ - Trip Blank Water	Date Received:	07/02/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58339.D	1	07/09/02	MKP	n/a	n/a	VO2836
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	92%		69-127%
2037-26-5	Toluene-D8	91%		82-119%
460-00-4	4-Bromofluorobenzene	96%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST Laboratories

05/05/03

Technical Report for

TRC Environmental Corporation, NJ

First Avenue Properties, Parking Lot East 39th Street, NY

Accutest Job Number: N24437

Report to:

TRC Environmental Corporation, NJ

mburke@trcsolutions.com

ATTN: Mike D. Burke

Total number of pages in report: 13

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, MA, MD, NC, PA, RI, SC, VA

Sample Summary

TRC Environmental Corporation, NJ

First Avenue Properties, Parking Lot East 39th Street, NY

Job No: N24437

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
N24437-1	10/09/02	09:55	ME	10/11/02	AQ	Ground Water	PL-MW-3R
N24437-2	10/09/02	09:55	ME	10/11/02	AQ	Ground Water	PL-MW-33R
N24437-3	10/08/02	16:15	ME	10/11/02	AQ	Ground Water	PL-MW-3S
N24437-3D	10/08/02	16:15	ME	10/11/02	AQ	Ground Water	PL-MW-3S
N24437-3S	10/08/02	16:15	ME	10/11/02	AQ	Ground Water	PL-MW-3S
N24437-4	10/09/02	11:40	ME	10/11/02	AQ	Ground Water	PL-MW-2R
N24437-5	10/09/02	12:50	ME	10/11/02	AQ	Ground Water	PL-MW-5R
N24437-6	10/09/02	15:05	ME	10/11/02	AQ	Ground Water	PL-MW-4R
N24437-7	10/10/02	08:05	ME	10/11/02	AQ	Ground Water	PL-MW-7R
N24437-8	10/10/02	09:55	ME	10/11/02	AQ	Ground Water	PL-MW-1R
N24437-9	10/10/02	11:40	ME	10/11/02	AQ	Ground Water	PL-MW-6R
N24437-10	10/10/02	11:45	ME	10/11/02	AQ	Field Blank Water	PL-FB-10/10/02
N24437-11	10/10/02	11:45	ME	10/11/02	AQ	Trip Blank Water	TRIP BLANK

Report of Analysis

Client Sample ID:	PL-MW-3R		
Lab Sample ID:	N24437-1	Date Sampled:	10/09/02
Matrix:	AQ - Ground Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J78395.D	20	10/18/02	XC	n/a	n/a	VJ2674
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	30.3	20	ug/l	
108-88-3	Toluene	57.1	20	ug/l	
100-41-4	Ethylbenzene	82.6	20	ug/l	
1330-20-7	Xylene (total)	482	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4330	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		69-127%
2037-26-5	Toluene-D8	96%		82-119%
460-00-4	4-Bromofluorobenzene	108%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-33R		
Lab Sample ID:	N24437-2	Date Sampled:	10/09/02
Matrix:	AQ - Ground Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J78396.D	20	10/18/02	XC	n/a	n/a	VJ2674
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	26.9	20	ug/l	
108-88-3	Toluene	57.9	20	ug/l	
100-41-4	Ethylbenzene	78.6	20	ug/l	
1330-20-7	Xylene (total)	493	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4160	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		69-127%
2037-26-5	Toluene-D8	93%		82-119%
460-00-4	4-Bromofluorobenzene	109%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-3S		
Lab Sample ID:	N24437-3	Date Sampled:	10/08/02
Matrix:	AQ - Ground Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J78397.D	20	10/18/02	XC	n/a	n/a	VJ2674
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	20	ug/l	
108-88-3	Toluene	27.7	20	ug/l	
100-41-4	Ethylbenzene	ND	20	ug/l	
1330-20-7	Xylene (total)	73.4	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	6660	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		69-127%
2037-26-5	Toluene-D8	96%		82-119%
460-00-4	4-Bromofluorobenzene	112%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-2R		
Lab Sample ID:	N24437-4	Date Sampled:	10/09/02
Matrix:	AQ - Ground Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154974.D	10	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	31.8	10	ug/l	
108-88-3	Toluene	25.4	10	ug/l	
100-41-4	Ethylbenzene	111	10	ug/l	
1330-20-7	Xylene (total)	524	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2170	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	93%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	99%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-5R		
Lab Sample ID:	N24437-5	Date Sampled:	10/09/02
Matrix:	AQ - Ground Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154975.D	100	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	616	100	ug/l	
108-88-3	Toluene	678	100	ug/l	
100-41-4	Ethylbenzene	441	100	ug/l	
1330-20-7	Xylene (total)	7070	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	36400	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		83-118%
17060-07-0	1,2-Dichloroethane-D4	93%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	97%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-4R		
Lab Sample ID:	N24437-6	Date Sampled:	10/09/02
Matrix:	AQ - Ground Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154976.D	50	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	50	ug/l	
108-88-3	Toluene	ND	50	ug/l	
100-41-4	Ethylbenzene	ND	50	ug/l	
1330-20-7	Xylene (total)	92.9	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	15000	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	89%		69-127%
2037-26-5	Toluene-D8	97%		82-119%
460-00-4	4-Bromofluorobenzene	95%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-7R		
Lab Sample ID:	N24437-7	Date Sampled:	10/10/02
Matrix:	AQ - Ground Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154977.D	1	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.2	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		69-127%
2037-26-5	Toluene-D8	95%		82-119%
460-00-4	4-Bromofluorobenzene	100%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-1R		
Lab Sample ID:	N24437-8	Date Sampled:	10/10/02
Matrix:	AQ - Ground Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154978.D	250	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	7350	250	ug/l	
108-88-3	Toluene	16600	250	ug/l	
100-41-4	Ethylbenzene	1950	250	ug/l	
1330-20-7	Xylene (total)	16600	250	ug/l	
1634-04-4	Methyl Tert Butyl Ether	88500	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	91%		69-127%
2037-26-5	Toluene-D8	99%		82-119%
460-00-4	4-Bromofluorobenzene	101%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-6R		
Lab Sample ID:	N24437-9	Date Sampled:	10/10/02
Matrix:	AQ - Ground Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154979.D	20	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	1550	20	ug/l	
108-88-3	Toluene	3820	20	ug/l	
100-41-4	Ethylbenzene	2100	20	ug/l	
1330-20-7	Xylene (total)	11600	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5850	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	99%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-FB-10/10/02		
Lab Sample ID:	N24437-10	Date Sampled:	10/10/02
Matrix:	AQ - Field Blank Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154980.D	1	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.1	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	90%		69-127%
2037-26-5	Toluene-D8	97%		82-119%
460-00-4	4-Bromofluorobenzene	95%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	N24437-11	Date Sampled:	10/10/02
Matrix:	AQ - Trip Blank Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154981.D	1	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	89%		69-127%
2037-26-5	Toluene-D8	98%		82-119%
460-00-4	4-Bromofluorobenzene	98%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey
ACCUTEST
Laboratories

05/05/03

Technical Report for

TRC Environmental Corporation, NJ

First Avenue Properties, Parking Lot East 39th Street, NY

Accutest Job Number: N24437

Report to:

TRC Environmental Corporation, NJ

mburke@trcsolutions.com

ATTN: Mike D. Burke

Total number of pages in report: 13

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, MA, MD, NC, PA, RI, SC, VA

Sample Summary

TRC Environmental Corporation, NJ

First Avenue Properties, Parking Lot East 39th Street, NY

Job No: N24437

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
N24437-1	10/09/02	09:55	ME	10/11/02	AQ	Ground Water	PL-MW-3R
N24437-2	10/09/02	09:55	ME	10/11/02	AQ	Ground Water	PL-MW-33R
N24437-3	10/08/02	16:15	ME	10/11/02	AQ	Ground Water	PL-MW-3S
N24437-3D	10/08/02	16:15	ME	10/11/02	AQ	Ground Water	PL-MW-3S
N24437-3S	10/08/02	16:15	ME	10/11/02	AQ	Ground Water	PL-MW-3S
N24437-4	10/09/02	11:40	ME	10/11/02	AQ	Ground Water	PL-MW-2R
N24437-5	10/09/02	12:50	ME	10/11/02	AQ	Ground Water	PL-MW-5R
N24437-6	10/09/02	15:05	ME	10/11/02	AQ	Ground Water	PL-MW-4R
N24437-7	10/10/02	08:05	ME	10/11/02	AQ	Ground Water	PL-MW-7R
N24437-8	10/10/02	09:55	ME	10/11/02	AQ	Ground Water	PL-MW-1R
N24437-9	10/10/02	11:40	ME	10/11/02	AQ	Ground Water	PL-MW-6R
N24437-10	10/10/02	11:45	ME	10/11/02	AQ	Field Blank Water	PL-FB-10/10/02
N24437-11	10/10/02	11:45	ME	10/11/02	AQ	Trip Blank Water	TRIP BLANK

Report of Analysis

Client Sample ID:	PL-MW-3R		
Lab Sample ID:	N24437-1	Date Sampled:	10/09/02
Matrix:	AQ - Ground Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J78395.D	20	10/18/02	XC	n/a	n/a	VJ2674
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	30.3	20	ug/l	
108-88-3	Toluene	57.1	20	ug/l	
100-41-4	Ethylbenzene	82.6	20	ug/l	
1330-20-7	Xylene (total)	482	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4330	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		69-127%
2037-26-5	Toluene-D8	96%		82-119%
460-00-4	4-Bromofluorobenzene	108%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-33R		
Lab Sample ID:	N24437-2	Date Sampled:	10/09/02
Matrix:	AQ - Ground Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J78396.D	20	10/18/02	XC	n/a	n/a	VJ2674
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	26.9	20	ug/l	
108-88-3	Toluene	57.9	20	ug/l	
100-41-4	Ethylbenzene	78.6	20	ug/l	
1330-20-7	Xylene (total)	493	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4160	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		69-127%
2037-26-5	Toluene-D8	93%		82-119%
460-00-4	4-Bromofluorobenzene	109%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-3S		
Lab Sample ID:	N24437-3	Date Sampled:	10/08/02
Matrix:	AQ - Ground Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J78397.D	20	10/18/02	XC	n/a	n/a	VJ2674
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	20	ug/l	
108-88-3	Toluene	27.7	20	ug/l	
100-41-4	Ethylbenzene	ND	20	ug/l	
1330-20-7	Xylene (total)	73.4	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	6660	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		69-127%
2037-26-5	Toluene-D8	96%		82-119%
460-00-4	4-Bromofluorobenzene	112%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-2R		
Lab Sample ID:	N24437-4	Date Sampled:	10/09/02
Matrix:	AQ - Ground Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154974.D	10	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	31.8	10	ug/l	
108-88-3	Toluene	25.4	10	ug/l	
100-41-4	Ethylbenzene	111	10	ug/l	
1330-20-7	Xylene (total)	524	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2170	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	93%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	99%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-5R		
Lab Sample ID:	N24437-5	Date Sampled:	10/09/02
Matrix:	AQ - Ground Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154975.D	100	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	616	100	ug/l	
108-88-3	Toluene	678	100	ug/l	
100-41-4	Ethylbenzene	441	100	ug/l	
1330-20-7	Xylene (total)	7070	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	36400	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		83-118%
17060-07-0	1,2-Dichloroethane-D4	93%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	97%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-4R		
Lab Sample ID:	N24437-6	Date Sampled:	10/09/02
Matrix:	AQ - Ground Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154976.D	50	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	50	ug/l	
108-88-3	Toluene	ND	50	ug/l	
100-41-4	Ethylbenzene	ND	50	ug/l	
1330-20-7	Xylene (total)	92.9	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	15000	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	89%		69-127%
2037-26-5	Toluene-D8	97%		82-119%
460-00-4	4-Bromofluorobenzene	95%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-7R		
Lab Sample ID:	N24437-7	Date Sampled:	10/10/02
Matrix:	AQ - Ground Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154977.D	1	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.2	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		69-127%
2037-26-5	Toluene-D8	95%		82-119%
460-00-4	4-Bromofluorobenzene	100%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-1R		
Lab Sample ID:	N24437-8	Date Sampled:	10/10/02
Matrix:	AQ - Ground Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154978.D	250	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	7350	250	ug/l	
108-88-3	Toluene	16600	250	ug/l	
100-41-4	Ethylbenzene	1950	250	ug/l	
1330-20-7	Xylene (total)	16600	250	ug/l	
1634-04-4	Methyl Tert Butyl Ether	88500	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	91%		69-127%
2037-26-5	Toluene-D8	99%		82-119%
460-00-4	4-Bromofluorobenzene	101%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-6R		
Lab Sample ID:	N24437-9	Date Sampled:	10/10/02
Matrix:	AQ - Ground Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154979.D	20	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	1550	20	ug/l	
108-88-3	Toluene	3820	20	ug/l	
100-41-4	Ethylbenzene	2100	20	ug/l	
1330-20-7	Xylene (total)	11600	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5850	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	99%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-FB-10/10/02		
Lab Sample ID:	N24437-10	Date Sampled:	10/10/02
Matrix:	AQ - Field Blank Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154980.D	1	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.1	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	90%		69-127%
2037-26-5	Toluene-D8	97%		82-119%
460-00-4	4-Bromofluorobenzene	95%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	N24437-11	Date Sampled:	10/10/02
Matrix:	AQ - Trip Blank Water	Date Received:	10/11/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154981.D	1	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	89%		69-127%
2037-26-5	Toluene-D8	98%		82-119%
460-00-4	4-Bromofluorobenzene	98%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST Laboratories

05/05/03

Technical Report for

TRC Environmental Corporation, NJ

First Avenue Properties, Parking Lot East 39th Street, NY

28410-PL05-2430T

Accutest Job Number: N29280

Report to:

TRC Environmental Corporation, NJ

mburke@trcsolutions.com

ATTN: Mike D. Burke

Total number of pages in report: 12

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, MA, MD, NC, PA, RI, SC, VA

Sample Summary

TRC Environmental Corporation, NJ

Job No: N29280

First Avenue Properties, Parking Lot East 39th Street, NY
Project No: 28410-PL05-2430T

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
N29280-1	12/17/02	13:50	LW	12/19/02	AQ	Ground Water	MW-7R
N29280-2	12/17/02	15:50	LW	12/19/02	AQ	Ground Water	MW-3S
N29280-3	12/17/02	15:55	LW	12/19/02	AQ	Ground Water	MW-31S
N29280-4	12/17/02	09:30	LW	12/19/02	AQ	Field Blank Water	FB.12/18/02
N29280-5	12/17/02	08:45	LW	12/19/02	AQ	Ground Water	MW-1R
N29280-6	12/17/02	09:10	LW	12/19/02	AQ	Ground Water	MW-4R
N29280-7	12/17/02	13:17	LW	12/19/02	AQ	Ground Water	MW-2R
N29280-8	12/17/02	13:30	LW	12/19/02	AQ	Ground Water	MW-3R
N29280-9	12/17/02	13:48	LW	12/19/02	AQ	Ground Water	MW-6R
N29280-10	12/17/02	14:05	LW	12/19/02	AQ	Ground Water	MW-5R

Report of Analysis

Client Sample ID:	MW-7R		
Lab Sample ID:	N29280-1	Date Sampled:	12/17/02
Matrix:	AQ - Ground Water	Date Received:	12/19/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42502.D	1	12/27/02	DTM	n/a	n/a	VS1477
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	1.0	1.0	0.34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	15.1	1.0	0.29	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	114%		69-127%
2037-26-5	Toluene-D8	103%		82-119%
460-00-4	4-Bromofluorobenzene	103%		81-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3S		
Lab Sample ID:	N29280-2	Date Sampled:	12/17/02
Matrix:	AQ - Ground Water	Date Received:	12/19/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42503.D	10	12/27/02	DTM	n/a	n/a	VS1477
Run #2	S42625.D	50	12/31/02	DTM	n/a	n/a	VS1483

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5.5	10	3.7	ug/l	J
108-88-3	Toluene	4.5	10	4.1	ug/l	J
100-41-4	Ethylbenzene	ND	10	4.4	ug/l	
1330-20-7	Xylene (total)	8.3	10	3.4	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	4830 [a]	50	14	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	94%	83-118%
17060-07-0	1,2-Dichloroethane-D4	117%	89%	69-127%
2037-26-5	Toluene-D8	102%	100%	82-119%
460-00-4	4-Bromofluorobenzene	102%	97%	81-121%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31S		
Lab Sample ID:	N29280-3	Date Sampled:	12/17/02
Matrix:	AQ - Ground Water	Date Received:	12/19/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42508.D	20	12/27/02	DTM	n/a	n/a	VS1477
Run #2	S42626.D	50	12/31/02	DTM	n/a	n/a	VS1483

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	20	7.5	ug/l	
108-88-3	Toluene	ND	20	8.1	ug/l	
100-41-4	Ethylbenzene	ND	20	8.8	ug/l	
1330-20-7	Xylene (total)	ND	20	6.9	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4740 [a]	50	14	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	94%	83-118%
17060-07-0	1,2-Dichloroethane-D4	117%	89%	69-127%
2037-26-5	Toluene-D8	101%	100%	82-119%
460-00-4	4-Bromofluorobenzene	104%	98%	81-121%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB.12/18/02		
Lab Sample ID:	N29280-4	Date Sampled:	12/17/02
Matrix:	AQ - Field Blank Water	Date Received:	12/19/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42501.D	1	12/27/02	DTM	n/a	n/a	VS1477
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	111%		69-127%
2037-26-5	Toluene-D8	102%		82-119%
460-00-4	4-Bromofluorobenzene	105%		81-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R		
Lab Sample ID:	N29280-5	Date Sampled:	12/17/02
Matrix:	AQ - Ground Water	Date Received:	12/19/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42627.D	250	12/31/02	DTM	n/a	n/a	VS1483
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	857	250	93	ug/l	
108-88-3	Toluene	2650	250	100	ug/l	
100-41-4	Ethylbenzene	325	250	110	ug/l	
1330-20-7	Xylene (total)	7100	250	86	ug/l	
1634-04-4	Methyl Tert Butyl Ether	37400	250	72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	92%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	96%		81-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4R		
Lab Sample ID:	N29280-6	Date Sampled:	12/17/02
Matrix:	AQ - Ground Water	Date Received:	12/19/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42602.D	25	12/30/02	DTM	n/a	n/a	VS1482
Run #2	S42505.D	200	12/27/02	DTM	n/a	n/a	VS1477

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	25	9.3	ug/l	
108-88-3	Toluene	ND	25	10	ug/l	
100-41-4	Ethylbenzene	ND	25	11	ug/l	
1330-20-7	Xylene (total)	ND	25	8.6	ug/l	
1634-04-4	Methyl Tert Butyl Ether	16300 [a]	200	58	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	87%	117%	69-127%
2037-26-5	Toluene-D8	101%	100%	82-119%
460-00-4	4-Bromofluorobenzene	96%	105%	81-121%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2R		
Lab Sample ID:	N29280-7	Date Sampled:	12/17/02
Matrix:	AQ - Ground Water	Date Received:	12/19/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42506.D	20	12/27/02	DTM	n/a	n/a	VS1477
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	21.3	20	7.5	ug/l	
108-88-3	Toluene	28.6	20	8.1	ug/l	
100-41-4	Ethylbenzene	123	20	8.8	ug/l	
1330-20-7	Xylene (total)	593	20	6.9	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2560	20	5.8	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	120%		69-127%
2037-26-5	Toluene-D8	103%		82-119%
460-00-4	4-Bromofluorobenzene	97%		81-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3R		
Lab Sample ID:	N29280-8	Date Sampled:	12/17/02
Matrix:	AQ - Ground Water	Date Received:	12/19/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42507.D	10	12/27/02	DTM	n/a	n/a	VS1477
Run #2	S42628.D	25	12/31/02	DTM	n/a	n/a	VS1483

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	20.4	10	3.7	ug/l	
108-88-3	Toluene	21.7	10	4.1	ug/l	
100-41-4	Ethylbenzene	33.8	10	4.4	ug/l	
1330-20-7	Xylene (total)	258	10	3.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3890 [a]	25	7.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	118%	94%	69-127%
2037-26-5	Toluene-D8	100%	101%	82-119%
460-00-4	4-Bromofluorobenzene	97%	97%	81-121%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6R		
Lab Sample ID:	N29280-9	Date Sampled:	12/17/02
Matrix:	AQ - Ground Water	Date Received:	12/19/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42629.D	50	12/31/02	DTM	n/a	n/a	VS1483
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	619	50	19	ug/l	
108-88-3	Toluene	1320	50	20	ug/l	
100-41-4	Ethylbenzene	559	50	22	ug/l	
1330-20-7	Xylene (total)	3470	50	17	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5260	50	14	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		69-127%
2037-26-5	Toluene-D8	102%		82-119%
460-00-4	4-Bromofluorobenzene	95%		81-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5R		
Lab Sample ID:	N29280-10	Date Sampled:	12/17/02
Matrix:	AQ - Ground Water	Date Received:	12/19/02
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42630.D	50	12/31/02	DTM	n/a	n/a	VS1483
Run #2	S42535.D	250	12/28/02	DTM	n/a	n/a	VS1478

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	50	19	ug/l	
108-88-3	Toluene	30.4	50	20	ug/l	J
100-41-4	Ethylbenzene	53.7	50	22	ug/l	
1330-20-7	Xylene (total)	501	50	17	ug/l	
1634-04-4	Methyl Tert Butyl Ether	20900 [a]	250	72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	92%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	89%	69-127%
2037-26-5	Toluene-D8	101%	100%	82-119%
460-00-4	4-Bromofluorobenzene	96%	95%	81-121%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey
ACCUTEST
Laboratories

05/05/03

Technical Report for

TRC Environmental Corporation, NJ

First Avenue Properties, Parking Lot East 39th Street, NY

Accutest Job Number: N35692

Report to:

TRC Environmental Corporation, NJ

mburke@trcsolutions.com

ATTN: Mike D. Burke

Total number of pages in report: 13

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, MA, MD, NC, PA, RI, SC, VA

Sample Summary

TRC Environmental Corporation, NJ

First Avenue Properties, Parking Lot East 39th Street, NY

Job No: N35692

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
N35692-1	03/26/03	16:25	MB	03/28/03	AQ	Ground Water	PL-MW-7R
N35692-2	03/27/03	10:47	MB	03/28/03	AQ	Ground Water	PL-MW-2R
N35692-3	03/27/03	13:18	MB	03/28/03	AQ	Ground Water	PL-MW-3S
N35692-4	03/27/03	13:23	MB	03/28/03	AQ	Ground Water	PL-MW-33S
N35692-5	03/28/03	10:24	MB	03/28/03	AQ	Ground Water	PL-MW-3R
N35692-6	03/28/03	10:49	MB	03/28/03	AQ	Ground Water	PL-MW-1R
N35692-6D	03/28/03	10:49	MB	03/28/03	AQ	Ground Water	PL-MW-1R
N35692-6S	03/28/03	10:49	MB	03/28/03	AQ	Ground Water	PL-MW-1R
N35692-7	03/28/03	11:36	MB	03/28/03	AQ	Ground Water	WS-MW-2R
N35692-8	03/28/03	13:20	MB	03/28/03	AQ	Ground Water	PL-MW-4R
N35692-9	03/28/03	13:46	MB	03/28/03	AQ	Ground Water	PL-MW-6R
N35692-10	03/28/03	14:00	MB	03/28/03	AQ	Ground Water	PL-MW-5R
N35692-11	03/28/03	14:24	MB	03/28/03	AQ	Field Blank Water	PL-FB-3/28/03

Report of Analysis

Client Sample ID:	PL-MW-7R		
Lab Sample ID:	N35692-1	Date Sampled:	03/26/03
Matrix:	AQ - Ground Water	Date Received:	03/28/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68734.D	1	04/02/03	CBD	n/a	n/a	VK2309
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.73	1.0	0.29	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		81-120%
17060-07-0	1,2-Dichloroethane-D4	109%		68-130%
2037-26-5	Toluene-D8	112%		83-116%
460-00-4	4-Bromofluorobenzene	109%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-2R		
Lab Sample ID:	N35692-2	Date Sampled:	03/27/03
Matrix:	AQ - Ground Water	Date Received:	03/28/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68739.D	10	04/02/03	CBD	n/a	n/a	VK2309
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	19.4	10	3.7	ug/l	
108-88-3	Toluene	13.5	10	4.1	ug/l	
100-41-4	Ethylbenzene	46.5	10	4.4	ug/l	
1330-20-7	Xylene (total)	258	10	3.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3780	10	2.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		81-120%
17060-07-0	1,2-Dichloroethane-D4	105%		68-130%
2037-26-5	Toluene-D8	113%		83-116%
460-00-4	4-Bromofluorobenzene	109%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-3S		
Lab Sample ID:	N35692-3	Date Sampled:	03/27/03
Matrix:	AQ - Ground Water	Date Received:	03/28/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68735.D	1	04/02/03	CBD	n/a	n/a	VK2309
Run #2	K68779.D	5	04/03/03	CBD	n/a	n/a	VK2311

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.6	1.0	0.37	ug/l	
108-88-3	Toluene	2.7	1.0	0.41	ug/l	
100-41-4	Ethylbenzene	0.81	1.0	0.44	ug/l	J
1330-20-7	Xylene (total)	12.7	1.0	0.34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	790 [a]	5.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%	112%	81-120%
17060-07-0	1,2-Dichloroethane-D4	106%	105%	68-130%
2037-26-5	Toluene-D8	111%	111%	83-116%
460-00-4	4-Bromofluorobenzene	106%	105%	83-119%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-33S		
Lab Sample ID:	N35692-4	Date Sampled:	03/27/03
Matrix:	AQ - Ground Water	Date Received:	03/28/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68736.D	1	04/02/03	CBD	n/a	n/a	VK2309
Run #2	K68780.D	5	04/03/03	CBD	n/a	n/a	VK2311

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4.0	1.0	0.37	ug/l	
108-88-3	Toluene	3.0	1.0	0.41	ug/l	
100-41-4	Ethylbenzene	0.80	1.0	0.44	ug/l	J
1330-20-7	Xylene (total)	13.4	1.0	0.34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	937 [a]	5.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%	111%	81-120%
17060-07-0	1,2-Dichloroethane-D4	107%	105%	68-130%
2037-26-5	Toluene-D8	112%	111%	83-116%
460-00-4	4-Bromofluorobenzene	108%	102%	83-119%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-3R		
Lab Sample ID:	N35692-5	Date Sampled:	03/28/03
Matrix:	AQ - Ground Water	Date Received:	03/28/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68740.D	10	04/02/03	CBD	n/a	n/a	VK2309
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	20.9	10	3.7	ug/l	
108-88-3	Toluene	34.4	10	4.1	ug/l	
100-41-4	Ethylbenzene	62.9	10	4.4	ug/l	
1330-20-7	Xylene (total)	342	10	3.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2280	10	2.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		81-120%
17060-07-0	1,2-Dichloroethane-D4	104%		68-130%
2037-26-5	Toluene-D8	114%		83-116%
460-00-4	4-Bromofluorobenzene	109%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-1R		
Lab Sample ID:	N35692-6	Date Sampled:	03/28/03
Matrix:	AQ - Ground Water	Date Received:	03/28/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68744.D	25	04/02/03	CBD	n/a	n/a	VK2309
Run #2	K68743.D	250	04/02/03	CBD	n/a	n/a	VK2309

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1020	25	9.3	ug/l	
108-88-3	Toluene	2180	25	10	ug/l	
100-41-4	Ethylbenzene	284	25	11	ug/l	
1330-20-7	Xylene (total)	3320	25	8.6	ug/l	
1634-04-4	Methyl Tert Butyl Ether	45600 [a]	250	72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%	112%	81-120%
17060-07-0	1,2-Dichloroethane-D4	104%	106%	68-130%
2037-26-5	Toluene-D8	111%	113%	83-116%
460-00-4	4-Bromofluorobenzene	107%	108%	83-119%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WS-MW-2R		
Lab Sample ID:	N35692-7	Date Sampled:	03/28/03
Matrix:	AQ - Ground Water	Date Received:	03/28/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68737.D	1	04/02/03	CBD	n/a	n/a	VK2309
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.67	1.0	0.29	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		81-120%
17060-07-0	1,2-Dichloroethane-D4	106%		68-130%
2037-26-5	Toluene-D8	111%		83-116%
460-00-4	4-Bromofluorobenzene	110%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-4R		
Lab Sample ID:	N35692-8	Date Sampled:	03/28/03
Matrix:	AQ - Ground Water	Date Received:	03/28/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68738.D	1	04/02/03	CBD	n/a	n/a	VK2309
Run #2	K68781.D	5	04/03/03	CBD	n/a	n/a	VK2311

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.1	1.0	0.37	ug/l	
108-88-3	Toluene	0.65	1.0	0.41	ug/l	J
100-41-4	Ethylbenzene	0.79	1.0	0.44	ug/l	J
1330-20-7	Xylene (total)	2.7	1.0	0.34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1210 [a]	5.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%	112%	81-120%
17060-07-0	1,2-Dichloroethane-D4	106%	106%	68-130%
2037-26-5	Toluene-D8	112%	112%	83-116%
460-00-4	4-Bromofluorobenzene	107%	107%	83-119%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-6R		
Lab Sample ID:	N35692-9	Date Sampled:	03/28/03
Matrix:	AQ - Ground Water	Date Received:	03/28/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68741.D	10	04/02/03	CBD	n/a	n/a	VK2309
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	237	10	3.7	ug/l	
108-88-3	Toluene	921	10	4.1	ug/l	
100-41-4	Ethylbenzene	454	10	4.4	ug/l	
1330-20-7	Xylene (total)	3470	10	3.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2460	10	2.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		81-120%
17060-07-0	1,2-Dichloroethane-D4	105%		68-130%
2037-26-5	Toluene-D8	113%		83-116%
460-00-4	4-Bromofluorobenzene	107%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-5R		
Lab Sample ID:	N35692-10	Date Sampled:	03/28/03
Matrix:	AQ - Ground Water	Date Received:	03/28/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68742.D	100	04/02/03	CBD	n/a	n/a	VK2309
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	63.8	100	37	ug/l	J
108-88-3	Toluene	169	100	41	ug/l	
100-41-4	Ethylbenzene	234	100	44	ug/l	
1330-20-7	Xylene (total)	2050	100	34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	19800	100	29	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		81-120%
17060-07-0	1,2-Dichloroethane-D4	103%		68-130%
2037-26-5	Toluene-D8	112%		83-116%
460-00-4	4-Bromofluorobenzene	106%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-FB-3/28/03		
Lab Sample ID:	N35692-11	Date Sampled:	03/28/03
Matrix:	AQ - Field Blank Water	Date Received:	03/28/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68728.D	1	04/02/03	CBD	n/a	n/a	VK2309
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	0.55	1.0	0.41	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.9	1.0	0.29	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		81-120%
17060-07-0	1,2-Dichloroethane-D4	105%		68-130%
2037-26-5	Toluene-D8	112%		83-116%
460-00-4	4-Bromofluorobenzene	105%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST Laboratories

08/26/03

Technical Report for

TRC Environmental Corporation, NJ

First Avenue Properties, Parking Lot East 39th Street, NY

Accutest Job Number: N41282

Report to:

TRC Environmental Corporation, NJ

lwasiowich@trcsolutions.com

ATTN: Lisa Wasiowich

Total number of pages in report: 15

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, MA, MD, NC, PA, RI, SC, VA

Sample Summary

TRC Environmental Corporation, NJ

First Avenue Properties, Parking Lot East 39th Street, NY

Job No: N41282

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
N41282-1	06/09/03	16:21	MB	06/12/03	AQ	Ground Water	PL-MW-7R
N41282-2	06/09/03	08:46	MB	06/12/03	AQ	Ground Water	PL-MW-2R
N41282-3	06/09/03	19:32	MB	06/12/03	AQ	Ground Water	PL-MW-3S
N41282-4	06/09/03	09:34	MB	06/12/03	AQ	Ground Water	PL-MW-33S
N41282-5	06/10/03	09:25	MB	06/12/03	AQ	Field Blank Water	PL-FB-6/10/03
N41282-6	06/11/03	09:24	MB	06/12/03	AQ	Ground Water	PL-MW-3R
N41282-7	06/11/03	09:41	MB	06/12/03	AQ	Ground Water	PL-MW-4R
N41282-8	06/11/03	10:14	MB	06/12/03	AQ	Ground Water	PL-MW-1R
N41282-8D	06/11/03	10:14	MB	06/12/03	AQ	Water Dup/MSD	PL-MW-1R
N41282-8S	06/11/03	10:14	MB	06/12/03	AQ	Water Matrix Spike	PL-MW-1R
N41282-9	06/11/03	11:23	MB	06/12/03	AQ	Ground Water	PL-MW-6R
N41282-10	06/11/03	11:38	MB	06/12/03	AQ	Ground Water	PL-MW-5R
N41282-11	06/11/03	12:57	MB	06/12/03	AQ	Ground Water	WS-MW-2R

Sample Summary
(continued)

TRC Environmental Corporation, NJ

First Avenue Properties, Parking Lot East 39th Street, NY

Job No: N41282

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
N41282-12	06/11/03	14:30	MB	06/12/03	AQ	Trip Blank Water	TRIP BLANK

Report of Analysis

Client Sample ID:	PL-MW-7R		
Lab Sample ID:	N41282-1	Date Sampled:	06/09/03
Matrix:	AQ - Ground Water	Date Received:	06/12/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68315.D	1	06/18/03	MKP	n/a	n/a	VI2653
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		81-120%
17060-07-0	1,2-Dichloroethane-D4	105%		68-130%
2037-26-5	Toluene-D8	102%		83-116%
460-00-4	4-Bromofluorobenzene	103%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-2R		
Lab Sample ID:	N41282-2	Date Sampled:	06/09/03
Matrix:	AQ - Ground Water	Date Received:	06/12/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68316.D	5	06/18/03	MKP	n/a	n/a	VI2653
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	16.0	5.0	1.1	ug/l	
108-88-3	Toluene	18.9	5.0	1.3	ug/l	
100-41-4	Ethylbenzene	86.6	5.0	1.1	ug/l	
1330-20-7	Xylene (total)	383	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1890	5.0	1.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		81-120%
17060-07-0	1,2-Dichloroethane-D4	103%		68-130%
2037-26-5	Toluene-D8	102%		83-116%
460-00-4	4-Bromofluorobenzene	99%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-3S		
Lab Sample ID:	N41282-3	Date Sampled:	06/09/03
Matrix:	AQ - Ground Water	Date Received:	06/12/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68317.D	1	06/18/03	MKP	n/a	n/a	VI2653
Run #2	I68423.D	5	06/20/03	MKP	n/a	n/a	VI2658

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5.2	1.0	0.21	ug/l	
108-88-3	Toluene	6.2	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	2.0	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	21.0	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	891 [a]	5.0	1.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	100%	81-120%
17060-07-0	1,2-Dichloroethane-D4	106%	100%	68-130%
2037-26-5	Toluene-D8	101%	101%	83-116%
460-00-4	4-Bromofluorobenzene	102%	101%	83-119%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-33S		
Lab Sample ID:	N41282-4	Date Sampled:	06/09/03
Matrix:	AQ - Ground Water	Date Received:	06/12/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68318.D	1	06/18/03	MKP	n/a	n/a	VI2653
Run #2	I68424.D	2.5	06/20/03	MKP	n/a	n/a	VI2658

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.8	1.0	0.21	ug/l	
108-88-3	Toluene	4.3	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	1.5	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	14.9	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	802 [a]	2.5	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	100%	81-120%
17060-07-0	1,2-Dichloroethane-D4	104%	101%	68-130%
2037-26-5	Toluene-D8	102%	101%	83-116%
460-00-4	4-Bromofluorobenzene	102%	100%	83-119%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-FB-6/10/03		
Lab Sample ID:	N41282-5	Date Sampled:	06/10/03
Matrix:	AQ - Field Blank Water	Date Received:	06/12/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68425.D	1	06/20/03	MKP	n/a	n/a	VI2658
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		81-120%
17060-07-0	1,2-Dichloroethane-D4	101%		68-130%
2037-26-5	Toluene-D8	102%		83-116%
460-00-4	4-Bromofluorobenzene	99%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-3R		
Lab Sample ID:	N41282-6	Date Sampled:	06/11/03
Matrix:	AQ - Ground Water	Date Received:	06/12/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68320.D	2	06/18/03	MKP	n/a	n/a	VI2653
Run #2	I68426.D	5	06/20/03	MKP	n/a	n/a	VI2658

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	14.2	2.0	0.43	ug/l	
108-88-3	Toluene	26.9	2.0	0.51	ug/l	
100-41-4	Ethylbenzene	26.3	2.0	0.46	ug/l	
1330-20-7	Xylene (total)	160	2.0	0.40	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1340 [a]	5.0	1.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	100%	81-120%
17060-07-0	1,2-Dichloroethane-D4	105%	104%	68-130%
2037-26-5	Toluene-D8	101%	105%	83-116%
460-00-4	4-Bromofluorobenzene	104%	100%	83-119%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-4R		
Lab Sample ID:	N41282-7	Date Sampled:	06/11/03
Matrix:	AQ - Ground Water	Date Received:	06/12/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68321.D	20	06/18/03	MKP	n/a	n/a	VI2653
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	20	4.3	ug/l	
108-88-3	Toluene	ND	20	5.1	ug/l	
100-41-4	Ethylbenzene	ND	20	4.6	ug/l	
1330-20-7	Xylene (total)	ND	20	4.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	7450	20	4.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		81-120%
17060-07-0	1,2-Dichloroethane-D4	104%		68-130%
2037-26-5	Toluene-D8	102%		83-116%
460-00-4	4-Bromofluorobenzene	104%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-1R		
Lab Sample ID:	N41282-8	Date Sampled:	06/11/03
Matrix:	AQ - Ground Water	Date Received:	06/12/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68322.D	50	06/18/03	MKP	n/a	n/a	VI2653
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1350	50	11	ug/l	
108-88-3	Toluene	4060	50	13	ug/l	
100-41-4	Ethylbenzene	266	50	11	ug/l	
1330-20-7	Xylene (total)	3640	50	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	18200	50	11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		81-120%
17060-07-0	1,2-Dichloroethane-D4	105%		68-130%
2037-26-5	Toluene-D8	102%		83-116%
460-00-4	4-Bromofluorobenzene	103%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-6R		
Lab Sample ID:	N41282-9	Date Sampled:	06/11/03
Matrix:	AQ - Ground Water	Date Received:	06/12/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68325.D	5	06/18/03	MKP	n/a	n/a	VI2653
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	294	5.0	1.1	ug/l	
108-88-3	Toluene	764	5.0	1.3	ug/l	
100-41-4	Ethylbenzene	493	5.0	1.1	ug/l	
1330-20-7	Xylene (total)	2560	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	797	5.0	1.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		81-120%
17060-07-0	1,2-Dichloroethane-D4	105%		68-130%
2037-26-5	Toluene-D8	103%		83-116%
460-00-4	4-Bromofluorobenzene	102%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-5R		
Lab Sample ID:	N41282-10	Date Sampled:	06/11/03
Matrix:	AQ - Ground Water	Date Received:	06/12/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68326.D	20	06/18/03	MKP	n/a	n/a	VI2653
Run #2	I68427.D	50	06/20/03	MKP	n/a	n/a	VI2658

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	20	4.3	ug/l	
108-88-3	Toluene	ND	20	5.1	ug/l	
100-41-4	Ethylbenzene	ND	20	4.6	ug/l	
1330-20-7	Xylene (total)	25.5	20	4.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	16000 [a]	50	11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	99%	81-120%
17060-07-0	1,2-Dichloroethane-D4	104%	102%	68-130%
2037-26-5	Toluene-D8	102%	100%	83-116%
460-00-4	4-Bromofluorobenzene	103%	104%	83-119%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WS-MW-2R		
Lab Sample ID:	N41282-11	Date Sampled:	06/11/03
Matrix:	AQ - Ground Water	Date Received:	06/12/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68327.D	1	06/18/03	MKP	n/a	n/a	VI2653
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		81-120%
17060-07-0	1,2-Dichloroethane-D4	104%		68-130%
2037-26-5	Toluene-D8	103%		83-116%
460-00-4	4-Bromofluorobenzene	102%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	N41282-12	Date Sampled:	06/11/03
Matrix:	AQ - Trip Blank Water	Date Received:	06/12/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68328.D	1	06/18/03	MKP	n/a	n/a	VI2653
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		81-120%
17060-07-0	1,2-Dichloroethane-D4	105%		68-130%
2037-26-5	Toluene-D8	104%		83-116%
460-00-4	4-Bromofluorobenzene	100%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey
ACCUTEST
Laboratories

01/28/04

Technical Report for

TRC Environmental Corporation, NJ

First Avenue Properties, Parking Lot 685 First Avenue, New York, NY

28410 PL05 2420T

Accutest Job Number: N57403

Report to:

TRC Environmental Corporation, NJ

lwasiowich@trcsolutions.com

ATTN: Lisa Wasiowich

Total number of pages in report: **21**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, MA, MD, NC, PA, RI, SC, VA

Sections: 1 2 3

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Sample Summary

TRC Environmental Corporation, NJ

Job No: N57403

First Avenue Properties, Parking Lot 685 First Avenue, New York, NY
Project No: 28410 PL05 2420T

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
N57403-1	01/13/04	09:35		01/14/04	AIR	Air	PL-SG-16 (SUMMA A241)
N57403-2	01/13/04	09:39		01/14/04	AIR	Air	PL-SG-14 (SUMMA A326)
N57403-3	01/13/04	10:33		01/14/04	AIR	Air	PL-SG-15 (SUMMA A212)
N57403-4	01/13/04	10:51		01/14/04	AIR	Air	PL-SG-13 (SUMMA A189)
N57403-5	01/13/04	11:25		01/14/04	AIR	Air	PL-SG-12 (SUMMA A320)
N57403-6	01/13/04	11:53		01/14/04	AIR	Air	PL-SG-10 (SUMMA A253)
N57403-7	01/13/04	12:26		01/14/04	AIR	Air	PL-SG-11 (SUMMA A187)
N57403-8	01/13/04	13:41		01/14/04	AIR	Air	PL-SG-9 (SUMMA A186)
N57403-9	01/13/04	14:39		01/14/04	AIR	Air	PL-SG-18 (SUMMA A205)
N57403-10	01/13/04	14:59		01/14/04	AIR	Air	AMBIENT BACKGROUND (SUMMA A291)
N57403-11	01/13/04	15:17		01/14/04	AIR	Air	PL-SG-17 (A245)
N57403-12	01/13/04	00:00		01/14/04	AIR	Air	UNUSED (SUMMA A141FC)

Report of Analysis

Client Sample ID:	PL-SG-16 (SUMMA A241)		
Lab Sample ID:	N57403-1	Date Sampled:	01/13/04
Matrix:	AIR - Air Summa ID: A241	Date Received:	01/14/04
Method:	TO-15	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20005.D	1	01/20/04	WG	n/a	n/a	VQ797
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	1.3	0.20	ppbv		4.2	0.64	ug/m3
108-88-3	92.14	Toluene	5.0	0.20	ppbv		19	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	1.4	0.20	ppbv		6.1	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	6.5	0.20	ppbv		28	0.87	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	2.3	0.20	ppbv		8.3	0.72	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-SG-14 (SUMMA A326)		
Lab Sample ID:	N57403-2	Date Sampled:	01/13/04
Matrix:	AIR - Air Summa ID: A326	Date Received:	01/14/04
Method:	TO-15	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20007.D	1	01/20/04	WG	n/a	n/a	VQ797
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	0.90	0.20	ppbv		2.9	0.64	ug/m3
108-88-3	92.14	Toluene	1.7	0.20	ppbv		6.4	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	0.27	0.20	ppbv		1.2	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.1	0.20	ppbv		4.8	0.87	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.50	0.20	ppbv		1.8	0.72	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-SG-15 (SUMMA A212)		
Lab Sample ID:	N57403-3	Date Sampled:	01/13/04
Matrix:	AIR - Air Summa ID: A212	Date Received:	01/14/04
Method:	TO-15	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20012.D	1	01/20/04	WG	n/a	n/a	VQ797
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	1.8	0.20	ppbv		5.8	0.64	ug/m3
108-88-3	92.14	Toluene	2.4	0.20	ppbv		9.0	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	0.40	0.20	ppbv		1.7	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.6	0.20	ppbv		6.9	0.87	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-SG-13 (SUMMA A189)		
Lab Sample ID:	N57403-4	Date Sampled:	01/13/04
Matrix:	AIR - Air Summa ID: A189	Date Received:	01/14/04
Method:	TO-15	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20022.D	4	01/20/04	WG	n/a	n/a	VQ798
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	1.6	0.80	ppbv		5.1	2.6	ug/m3
108-88-3	92.14	Toluene	2.3	0.80	ppbv		8.7	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	0.55	0.80	ppbv	J	2.4	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	2.8	0.80	ppbv		12	3.5	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	ppbv		ND	2.9	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-SG-12 (SUMMA A320)		
Lab Sample ID:	N57403-5	Date Sampled:	01/13/04
Matrix:	AIR - Air Summa ID: A320	Date Received:	01/14/04
Method:	TO-15	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20019.D	1	01/20/04	WG	n/a	n/a	VQ798
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	1.3	0.20	ppbv		4.2	0.64	ug/m3
108-88-3	92.14	Toluene	2.4	0.20	ppbv		9.0	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	0.41	0.20	ppbv		1.8	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.5	0.20	ppbv		6.5	0.87	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.75	0.20	ppbv		2.7	0.72	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-SG-10 (SUMMA A253)		
Lab Sample ID:	N57403-6	Date Sampled:	01/13/04
Matrix:	AIR - Air Summa ID: A253	Date Received:	01/14/04
Method:	TO-15	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20034.D	1	01/21/04	WG	n/a	n/a	VQ798
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	0.55	0.20	ppbv		1.8	0.64	ug/m3
108-88-3	92.14	Toluene	1.2	0.20	ppbv		4.5	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	0.19	0.20	ppbv	J	0.83	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.80	0.20	ppbv		3.5	0.87	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.21	0.20	ppbv		0.76	0.72	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	119%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-SG-11 (SUMMA A187)		
Lab Sample ID:	N57403-7	Date Sampled:	01/13/04
Matrix:	AIR - Air Summa ID: A187	Date Received:	01/14/04
Method:	TO-15	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20035.D	2	01/21/04	WG	n/a	n/a	VQ798
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	0.38	0.40	ppbv	J	1.2	1.3	ug/m3
108-88-3	92.14	Toluene	0.75	0.40	ppbv		2.8	1.5	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.40	ppbv		ND	1.7	ug/m3
1330-20-7	106.2	Xylenes (total)	0.64	0.40	ppbv		2.8	1.7	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.40	ppbv		ND	1.4	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-SG-9 (SUMMA A186)		
Lab Sample ID:	N57403-8	Date Sampled:	01/13/04
Matrix:	AIR - Air Summa ID: A186	Date Received:	01/14/04
Method:	TO-15	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20026.D	1	01/20/04	WG	n/a	n/a	VQ798
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	0.76	0.20	ppbv		2.4	0.64	ug/m3
108-88-3	92.14	Toluene	1.5	0.20	ppbv		5.7	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	0.34	0.20	ppbv		1.5	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.2	0.20	ppbv		5.2	0.87	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.19	0.20	ppbv	J	0.69	0.72	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-SG-18 (SUMMA A205)		
Lab Sample ID:	N57403-9	Date Sampled:	01/13/04
Matrix:	AIR - Air Summa ID: A205	Date Received:	01/14/04
Method:	TO-15	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20025.D	1	01/20/04	WG	n/a	n/a	VQ798
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	0.59	0.20	ppbv		1.9	0.64	ug/m3
108-88-3	92.14	Toluene	0.46	0.20	ppbv		1.7	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.19	0.20	ppbv	J	0.83	0.87	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.28	0.20	ppbv		1.0	0.72	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AMBIENT BACKGROUND (SUMMA A291)		
Lab Sample ID:	N57403-10	Date Sampled:	01/13/04
Matrix:	AIR - Air Summa ID: A291	Date Received:	01/14/04
Method:	TO-15	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20024.D	1	01/20/04	WG	n/a	n/a	VQ798
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	0.93	0.20	ppbv		3.0	0.64	ug/m3
108-88-3	92.14	Toluene	2.0	0.20	ppbv		7.5	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	0.24	0.20	ppbv		1.0	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.2	0.20	ppbv		5.2	0.87	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.11	0.20	ppbv	J	0.40	0.72	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@177238 16:15 28-Jan-2004

Report of Analysis

Client Sample ID:	PL-SG-17 (A245)		
Lab Sample ID:	N57403-11	Date Sampled:	01/13/04
Matrix:	AIR - Air Summa ID: A245	Date Received:	01/14/04
Method:	TO-15	Percent Solids:	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20011.D	1	01/20/04	WG	n/a	n/a	VQ797
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	0.26	0.20	ppbv		0.83	0.64	ug/m3
108-88-3	92.14	Toluene	0.24	0.20	ppbv		0.90	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.12	0.20	ppbv	J	0.52	0.87	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF COUNTY

Page 1 of 2

2235 Route 130, Dayton NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: N57403

Client / Reporting Information

Company Name: TRC Environmental Corp
Address: 1200 Wall Street West Suite 200
City: Lyndhurst State: NJ Zip: 07071
Project Contact: Mike Skirka E-mail: mskirka@trcsolutions.com
Phone #: (201) 933-5541 ext. 137
Sampler's Name: Michael Burke

Project Information

Project Name: 1st Avenue Properties - Parking Lot
Street: 685 First Avenue
City: New York State: NY
Project #: 28410 - PL05 - 24201
Fax #: (201) 933-5601
Client Purchase Order #:

Requested Analysis: BTEX (TO-14), MTBE (TO-14)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA #	Date	Time	Sampled By	Matrix	# of bottles	Preserved: NONE	BTEX (TO-14)	MTBE (TO-14)	LAB USE ONLY
-1	PL-SG-16	Summa A241	1/13/04	[illegible]	MB	AIR	1	X	X	X	
-2	PL-SG-14	Summa A326	1/13/04	[illegible]	MB	AIR	1	X	X	X	
-3	PL-SG-15	Summa A212	1/13/04	[illegible]	MB	AIR	1	X	X	X	
-4	PL-SG-13	Summa A189	1/13/04	[illegible]	MB	AIR	1	X	X	X	
-5	PL-SG-12	Summa A320	1/13/04	[illegible]	MB	AIR	1	X	X	X	
-6	PL-SG-10	Summa A253	1/13/04	[illegible]	MB	AIR	1	X	X	X	
7	PL-SG-11	Summa A187	1/13/04	[illegible]	MB	AIR	1	X	X	X	
-8	PL-SG-9	Summa A186	1/13/04	[illegible]	MB	AIR	1	X	X	X	
-9	PL-SG-18	Summa A205	1/13/04	[illegible]	MB	AIR	1	X	X	X	
-10	Ambient Background	Summa A291	1/13/04	[illegible]	MB	AIR	1	X	X	X	

Turnaround Time (Business Days) — Approved By: / Date:

- ☐ Std. 15 Business Days
- ☐ 10 Day RUSH
- ☒ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ Other

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ NJ Reduced
- ☐ NJ Full
- ☐ Other
- ☐ FULL CLP
- ☐ NYASP Category A
- ☒ NYASP Category B
- ☐ State Forms
- ☐ EDD Format

Commercial "A" = Results Only

Comments / Remarks

Returned w/ 12 flow controllers

[illegible] SUMMA A141FC UNUSED.
RB 1-14-04

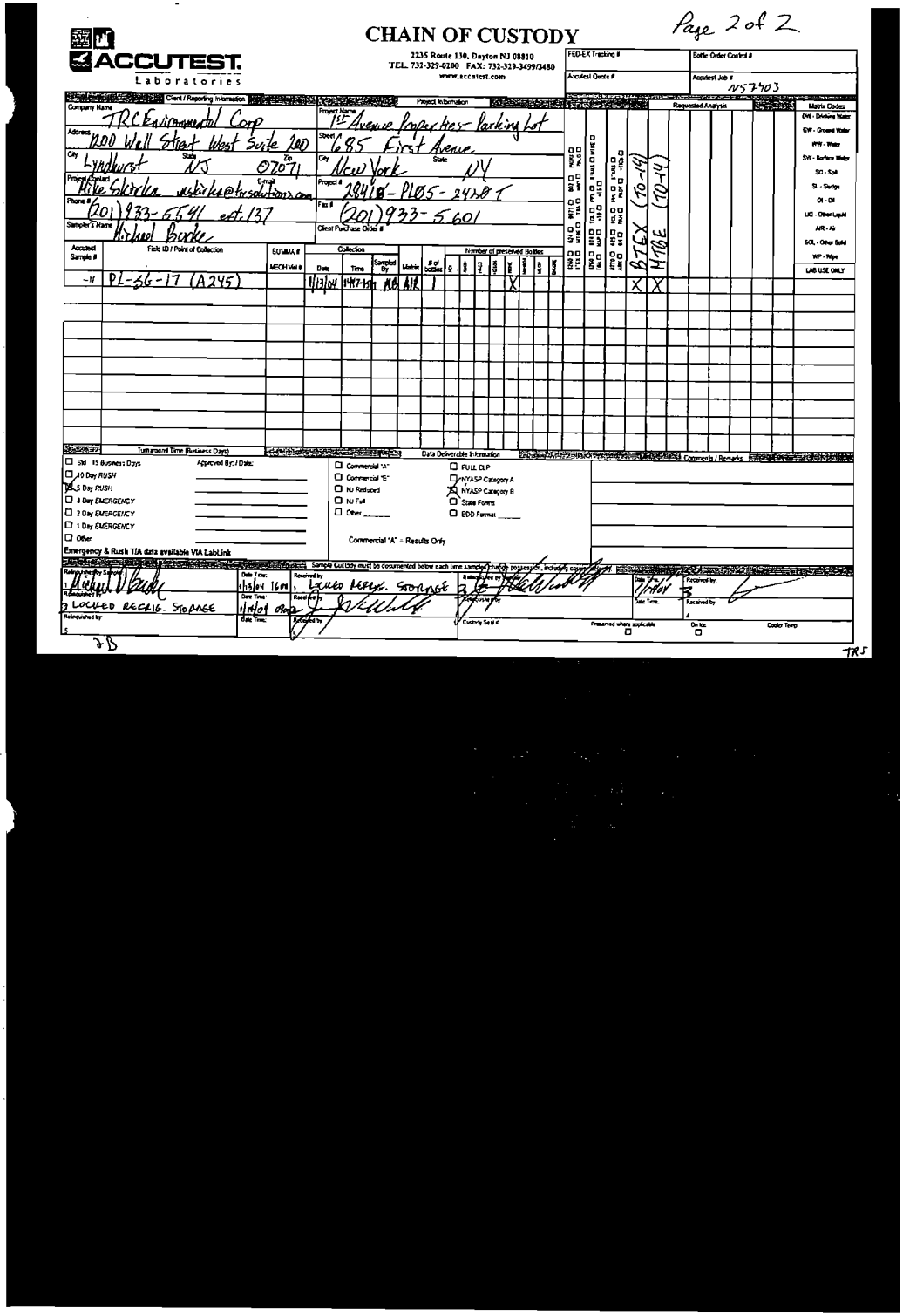
Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by	Date Time	Received by	Relinquished by	Date Time	Received by
1 Michael Burke (signature)	1/13/04 1600	1 LOCKED REFRIG STORAGE	3 (signature)	1/14/04	3 (signature)
2 LOCKED REFRIG. STORAGE	1/14/04 0900	2 (signature)	4		4
5		5 (signature)	Custody Seal #	Preserved where applicable ☐	On Ice ☐ Cooler Temp

7B

TRS

N57403: Chain of Custody
Page 1 of 6



CHAIN OF CUSTODY

Page 2 of 2

ACCUTEST Laboratories

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www.accutest.com

FED-EX Tracking #

Bottle Order Control #

Accutest Quote #

Accutest Job # N57403

Client / Reporting Information

Company Name: TRC Environmental Corp
Address: 1200 Wall Street West Suite 200
City: Lyndhurst State: NJ Zip: 07071
Project Contact: Mike Sikorka E-mail: msikorka@trcsolutions.com
Phone #: (201) 933-5541 ext. 137
Sampler's Name: Michael Burke

Project Information

Project Name: 1st Avenue Properties - Parking Lot
Street: 1685 First Avenue
City: New York State: NY
Project #: 284108-P105-24208
Fax #: (201) 933-5601
Client Purchase Order #

Requested Analysis

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MECH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Number of preserved Bottles	BTEX (10-14)	MTBE (10-14)
-11	PL-36-17 (A245)		1/13/04	1417-1517	MB	AIR	1	X	X	X

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

LAB USE ONLY

Turnaround Time (Business Days)

- ☐ Std. 15 Business Days
- ☐ 10 Day RUSH
- ☒ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ Other

Approved By: / Date:

Emergency & Rush TIA data available VIA LabLink

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ NJ Reduced
- ☐ NJ Full
- ☐ Other
- ☐ FULL CLP
- ☐ NYASP Category A
- ☒ NYASP Category B
- ☐ State Forms
- ☐ EDD Format

Commercial "A" = Results Only

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler	Date / Time	Received by	Relinquished by	Date / Time	Received by
1 Michael Burke	1/13/04 1600	2 LOCKED REFRIG. STORAGE	3	1/14/04	4
Relinquished by	Date Time	Received by	Custody Seal #	Preserved where applicable ☐	On Ice ☐ Cooler Temp
5	Date Time:	6			

TRS

N57403: Chain of Custody
Page 2 of 6

ACCUTEST. NYASP/CLP Sample Log-In Summary

N57403

Lab Name: Accutest Page 1 of 1

Received by (Print Name): A. Vega Log-in Date: 1/9/04

Received by (Signature):

Case Number:	N/A
SDG Number:	N/A
SAS Number:	N/A

REMARKS:		NYSDEC SAMPLE #	CORRESPONDING SAMPLE TAG #	CORRESPONDING ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ET
1. Custody Seal(s)	Present/Absent* Intact/Broken	N/A		N57403	
2. Custody Seal Numbers:	n/a	N/A			
3. Chain-of-Custody Records	Present/Absent*	N/A			
4. Contract Lab Sample Inform. Sheet (CLSIS)	Present/Absent*	N/A			
5. Airbill	Airbill/Sticker Present/Absent*	N/A			
6. Airbill No.:	[illegible]	N/A			
7. Sample Tags Sample Tag Nos.	Present/Absent* Listed/Not Listed on Chain-of-Custody	N/A			
8. Sample Condition	Intact/Broken*/ Leaking	N/A			
9. Does information on custody rec., CLSIS, & sample tags agree	[illegible] Yes/No*	N/A			
10. Date received at Lab:	1/9/04	N/A			
11. Time Received:	1050	N/A			
Sample Transfer					
Fraction:	See Internal				
Area #:					
By:					
On:	Chain-of-Custody				

* Contract BTSR and attach record of resolution

Reviewed By: Logbook No.: N/A

Date: Logbook Page No.: N/A

Form: SM10-02
Rev. Date: 8/21/03

N57403: Chain of Custody
Page 3 of 6

CHAIN OF CUSTODY

ACCUTEST Laboratories

2235 Route 130, Dayton NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking # | Bottle Order Control #
Accutest Quote # | Accutest Job # N57403

Client / Reporting Information

Company Name: TRC Environmental Corp
Address: 1200 Wall Street West Suite 200
City: Lyndhurst State: NJ Zip: 07071
Project Contact: Mike Skirka E-mail: mskirka@trcsolutions.com
Phone #: (201) 933-5541 ext. 137
Sampler's Name: Michael Burke

Project Information

Project Name: 1st Avenue Properties - Parking Lot
Street: 685 First Avenue
City: New York State: NY
Project #: 28410 - PL05 - 24201
Fax #: (201) 933-5601
Client Purchase Order #

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Number of preserved Bottles: HCl, MeOH, HNO3, H2SO4, NONE, NaHSO4, MeOH, EnCore	BTEX (TO-14)	MTBE (TO-14)
-1	PL-SG-16 (Summa A241)		1/13/04	0824-0924	MB	AIR	1	X	X	X
-2	PL-SG-14 (Summa A326)		1/13/04	0922-1022	MB	AIR	1	X	X	X
-3	PL-SG-15 (Summa A212)		1/13/04	1003-1103	MB	AIR	1	X	X	X
-4	PL-SG-13 (Summa A189)		1/13/04	1035-1135	MB	AIR	1	X	X	X
-5	PL-SG-12 (Summa A320)		1/13/04	1059-1159	MB	AIR	1	X	X	X
-6	PL-SG-10 (Summa A253)		1/13/04	1123-1223	MB	AIR	1	X	X	X
-7	PL-SG-11 (Summa A187)		1/13/04	1155-1255	MB	AIR	1	X	X	X
-8	PL-SG-9 (Summa A186)		1/13/04	1309-1409	MB	AIR	1	X	X	X
-9	PL-SG-18 (Summa A205)		1/13/04	1426-1526	MB	AIR	1	X	X	X
-10	Ambient Background (Summa A291)		1/13/04	1459-1559	MB	AIR	1	X	X	X

Turnaround Time (Business Days)

- [ ] Std. 15 Business Days — Approved By: / Date:
- [ ] 10 Day RUSH
- [X] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] Other

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] NJ Reduced
- [ ] NJ Full
- [ ] Other
- [ ] FULL CLP
- [ ] NYASP Category A
- [X] NYASP Category B
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results Only

Comments / Remarks

Returned w/ 12 Flow controllers
Returned SUMMA A141FC UNUSED.
RMB 1-14-04

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
1 Richard Burke	1/13/04 1600	1 LOCKED REFRIG. STORAGE	3	1/14/04	3
2 LOCKED REFRIG. STORAGE	1/14/04 0900	2	4		4
5		6	Custody Seal #	Preserved where applicable ☐	On Ice ☐ Cooler Temp.

JB TRS

N57403: Chain of Custody
Page 4 of 6

Page 2 of 2

CHAIN OF CUSTODY

ACCUTEST Laboratories

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www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: N57403

Client / Reporting Information

Company Name: TRC Environmental Corp
Address: 200 Wall Street West Suite 200
City: Lyndhurst State: NJ Zip: 07071
Project Contact: Mike Skirka E-mail: mskirka@trcsolutions.com
Phone #: (201) 933-6541 ext. 137
Sampler's Name: Michael Burke

Project Information

Project Name: 1st Avenue Properties - Parking Lot
Street: 685 First Avenue
City: New York State: NY
Project #: 284108-P105-2430T
Fax #: (201) 933-5601
Client Purchase Order #:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Time	Sampled By	Matrix	# of bottles	Number of preserved Bottles	Requested Analysis	LAB USE ONLY
-11	PL-SG-17 (A245)		1/13/04	1447-1534	MB	AIR	1	NONE	BTEX (10-14), MTBE (10-14)	

Turnaround Time (Business Days)

- ☐ Std. 15 Business Days
- ☐ 10 Day RUSH
- ☒ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ Other

Approved By: / Date:

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ NJ Reduced
- ☐ NJ Full
- ☐ Other
- ☐ FULL CLP
- ☐ NYASP Category A
- ☒ NYASP Category B
- ☐ State Forms
- ☐ EDD Format

Commercial "A" = Results Only

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
1 Michael Burke	1/13/04 1600	1 LOCKED REFRIG. STORAGE	3	1/14/04	3
2 LOCKED REFRIG. STORAGE	1/14/04 0900	2	4		4
5		5	Custody Seal #	Preserved where applicable ☐	On Ice ☐ Cooler Temp.

SB

TRS

3.1 B

N57403: Chain of Custody
Page 5 of 6

ACCUTEST.

NYASP/CLP Sample Log-In Summary

N57403

Lab Name: Accutest Page 1 of 1

Received by (Print Name): M. Vogan Log-in Date: 1/14/04

Received by (Signature):

Case Number: N/A
SDG Number: N/A
SAS Number: N/A

REMARKS:

1. Custody Seal(s) Present/(Absent)* Intact/Broken
2. Custody Seal Numbers: N/A
3. Chain-of-Custody Records (Present)/Absent*
4. Contract Lab Sample Inform. Sheet (CLSIS) Present/(Absent)*
5. Airbill (Airbill)/Sticker Present/(Absent)*
6. Airbill No.: source - Some
7. Sample Tags (Present)/Absent* Sample Tag Nos. Listed/(Not Listed on Chain-of-Custody no #'s)
8. Sample Condition (Intact)/Broken*/ Leaking
9. Does Information on custody rec., CLSIS, & sample tags agree coc & label info's agree Yes/No*
10. Date received at Lab: 1/14/04
11. Time Received: 1050

Sample Transfer

Fraction: See Internal
Area #:
By:
On: Chain of Custody

NYSDEC SAMPLE #	CORRESPONDING: SAMPLE TAG #	CORRESPONDING: ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ET
N/A		N57403	
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			

* Contract BTSR and attach record of resolution

Reviewed By:
Date:

Logbook No.: N/A
Logbook Page No.: N/A

Form: SM10-02
Rev. Date: 8/21/03

3.1

N57403: Chain of Custody
Page 6 of 6

Appendix H

SOIL GAS RISK SCREENING
685 FIRST AVENUE
New York, New York

Prepared by

TRC Environmental Corporation
Windsor, Connecticut

April, 2004

1.0 INTRODUCTION

In accordance with the NYSDEC letter of January 5, 2004, a soil gas investigation was conducted at the 685 First Avenue Site (Parking Lot Property) after the completion of remediation at the Site. Further evaluation of potential exposure by hypothetical future residents who may be exposed to vapors that may migrate into a hypothetical residential building constructed at the Site was conducted using the screening criteria provided in the US Environmental Protection Agency's (EPA's) *Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance)* (EPA, 2002). These screening criteria were developed by EPA to be protective of human receptors exposed to compounds in indoor air under a residential exposure scenario. A residential exposure scenario assumes 24-hour exposure for 350 days per year for 30 years, which is EPA's reasonable maximum exposure for residential land use. This exposure scenario is more conservative than an exposure scenario protective of an office worker, who is assumed to be exposed to indoor air in an office for 8 hours per day for 250 days per year for 25 years.

2.0 SOIL GAS SAMPLE RESULTS

Eleven soil gas samples were collected. Ten samples, SG-9 through SG-18, were collected at the Site. One sample, ABZ, was collected to characterize background air concentrations.

2.1 Sample Results – Site

Benzene was identified in 10 of 10 samples at concentrations ranging from 0.26 to 1.8 parts per billion by volume (ppbv) (or 0.83 to 5.8 micrograms per cubic meter (ug/m^3)). Ethylbenzene was identified in 7 of 10 samples at concentrations ranging from 0.16 to 1.4 ppbv (or 0.83 to 6.1 ug/m^3). Toluene was identified in 10 of 10 samples at concentrations ranging from 0.24 to 5 ppbv (or 0.9 to 19 ug/m^3). Total xylenes was identified in 10 of 10 samples at concentrations ranging from 0.19 to 6.5 ppbv (or 0.52 to 28 ug/m^3). Methyl tert-

butyl ether was identified in six of 10 samples at concentrations ranging from 0.19 to 2.3 ppbv (or 0.69 to 8.3 ug/m^3). Sample results are shown on Table 1.

2.2 Sample Results – Background

Concentrations of BTEX and MTBE were detected in the background sample ABZ. Benzene was detected at 0.93 ppbv (or 3 ug/m^3). Ethylbenzene was detected at 0.24 ppbv (or 1.0 ug/m^3). Toluene was detected at 2.0 ppbv (or 7.5 ug/m^3). Methyl tert-butyl ether was detected at an estimated value of 0.11 ppbv (or 0.40 ug/m^3). Concentrations of BTEX detected in the background sample were within the range of detected concentrations at the site. The MTBE concentration was below the range of concentrations detected on-Site.

3.0 SCREENING APPROACH

The soil gas screening was conducted in two steps. The first step consisted of screening the maximum concentration of each compound against EPA's generic, conservative screening criteria provided in Table 2a of the Subsurface Vapor Intrusion Guidance (EPA, 2002). The next step consisted of screening soil gas concentrations exceeding the generic criteria by less than a factor of 50 against more site-specific soil gas screening criteria that take into account soil type and depth of the soil gas samples (EPA, 2002).

3.1 Step 1 - Generic Screening

The initial screening was conducted using EPA's generic soil gas screening criteria that are protective at a cancer risk level of 1E-06, the most stringent level, and a noncancer hazard quotient of 1. EPA developed the generic screening by determining an acceptable indoor air concentration, then calculating a soil gas concentration by multiplying the indoor air concentration by an attenuation factor. EPA used a soil gas-to-indoor air attenuation factor of 0.1 for the generic screening criteria. This corresponds to an indoor air concentration that is 0.1 times the soil gas concentration. This attenuation factor was selected by EPA based on empirical data to represent a generally reasonable upper-bound value for shallow soil gas samples (i.e., less than five feet bgs).

The maximum concentration of each compound was below the generic soil gas screening criteria except for benzene. The maximum soil gas concentration for benzene was

1.8 ppbv (or 5.8 ug/m^3) and the generic screening criterion was 0.98 ppbv (or 3.1 ug/m^3). This benzene soil gas concentration corresponds to an estimated cancer risk of 1.8E-06, which is only slightly above the most stringent target cancer risk level. The average soil gas concentration for benzene, reported as 0.94 ppbv (or 3.0 ug/m^3), was below the screening criterion.

3.2 Step 2 – Semi-Site Specific Screening

EPA recommends screening soil gas samples that exceed the generic screening criteria against semi-site specific criteria if soil gas concentrations of a compound are less than 50 times the generic screening criteria (EPA, 2002). These screening criteria are provided in Table 3a of the Subsurface Vapor Intrusion Guidance (EPA 2002). The maximum concentration of benzene detected in the soil gas samples only slightly exceeded the generic screening criteria and was well below a concentration that would result in exceeding the ambient air concentration of benzene detected in the background sample. Therefore, the maximum benzene soil gas concentration was screened against EPA's semi-site specific screening criteria which EPA calculated using soil gas-to-indoor air attenuation factors that take into account soil type and soil gas sample depth. Using Figure 3a of the guidance, an attenuation factor was selected that corresponded to the site-specific soil type and depth of soil gas samples. The soil type at the Site is sand, and the soil gas samples were collected at four feet bgs. The corresponding attenuation factor is 2E-03 (EPA, 2002). The semi-site specific screening criterion for benzene is 49 ppbv (or 160 ug/m3). The maximum concentration of benzene in soil gas, 1.8 ppbv (o 5.8 ug/m^3) is well below this screening criterion.

4.0 CONCLUSION

Low levels of BTEX and MTBE were detected in shallow soil gas samples collected at the site in January 2004. A screening was conducted to evaluate the risk posed by potential migration of vapors from groundwater into a hypothetical building using current EPA guidance (EPA 2002). The screening shows that residual concentrations of BTEX and MTBE detected in the soil gas samples are below the screening criteria protective of residential exposure to vapors in indoor air.

5.0 REFERENCES

EPA 2002. Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance). US Environmental Protection Agency, Office of Solid Waste and Emergency Response. November.

Table 1
Soil Gas Screening
685 First Avenue, New York City, New York

	Minimum Concentration	Maximum Concentration	Average Concentration	EPA Screening Value Cancer Risk 1.00E-06		Background Concentration
				Generic	a= 2E-03	
Compound (ppbv)						
Benzene	0.26	1.8	0.944	0.98	49	0.93
Ethylbenzene	0.16	1.4	0.433	5.1		0.24
Toluene	0.24	5	1.795	1100		2
Xylene (total)	0.19	6.5	1.753	16000		1.2
Methyl Tert Butyl Ether	0.19	2.3	0.583	8300		0.11 J
Compound (ug/m^3)						
Benzene	0.83	5.8	3.033	3.1	160	3
Ethylbenzene	0.83	6.1	1.897	22		1
Toluene	0.9	19	6.77	4000		7.5
Xylene (total)	0.52	28	7.105	70000		5.2
Methyl Tert Butyl Ether	0.69	8.3	2.099	30000		0.4 J

a	Attenuation factor
ppbv	Parts per billion by volume
ug/m^3	Micrograms per cubic meter

Qualifiers

J	Compound is present below the reporting limit; the assoicated numerical value is an estimated quantity

Appendix I

Summary of QA/QC Program - Soil

A QA/QC program for the Parking Lot Remediation Program was instituted to ensure that the analytical and project objectives were met. The QA/QC program consisted of the development of the Quality Assurance Project Plan (QAPP), which detailed the data quality objectives (DQOs) for each analytical parameter for the entire investigation. During the program, the collection of QC samples was monitored by the TRC Project QA Officer to ensure that the field QC samples were collected at the proper frequency. Finally, the QA/QC program included data validation for a percentage of the analytical data, as outlined in the QAPP. That is, only those samples collected for the purpose of characterizing the subsurface, delineating impacted areas, and/or documenting no further action, as in the case of meeting cleanup criteria or action levels, were validated. For the Parking Lot data, 100% of the data generated for the endpoint soil samples was validated.

The results of the data validation were summarized in Data Usability Summary Reports (DUSRs). These DUSRs appear in this appendix and include a discussion on each qualified result, the potential bias and the effect on the data usability. Also included with each DUSR is a summary of the qualified report forms and copies of any QC summary forms for exceedances discussed in the DUSR. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008* (October 1999) and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA 540/R-94/013* (February 1994), modified as necessary to accommodate the SW-846 methodologies used, the project specific QC criteria detailed in the QAPP, and Region II validation actions from *Region II Standard Operating Procedures (SOPs) for CLP Organic Data Review* (Revision 11, June 1996) and *Evaluation of Metals for the CLP Program* (Revision 11, January 1992). An abridged version of the laboratory analytical results is included as Appendix D of this RWP. The full laboratory analytical data package is available from TRC upon request.

The following soil samples were included in the validation:
VOCs: PL-RWP-VOC1, PL-RWP-VOC2, PL-RWP-VOC3, PL-RWP-VOC4, PL-RWP-VOC5, PL-RWP-VOC6, PL-RWP-VOC7, PL-RWP-VOC8
Lead: PL-RWP-EP1, PL-RWP-EP2, PL-RWP-EP3, PL-RWP-EP4, PL-RWP-EP5, PL-RWP-EP6, PL-RWP-EP07, PL-RWP-EP07A, PL-RWP-EP07B, PL-RWP-EP08, PL-RWP-EP09, PL-RWP-EP10, PL-RWP-EP11, PL-RWP-EP12, PL-RWP-EP13

The results of the data validation were used to determine if project objectives had been met. The results of the data validation provided a quantitative evaluation of the DQOs: precision, accuracy, completeness, and sensitivity. For each analytical parameter, DQOs were established prior to the onset of the program for both field and analytical accuracy, precision, sensitivity and completeness. In order for the successful achievement of the project objectives, all DQOs must be met. Actual sample and QC sample results were compared to project DQOs to determine whether results could be used to fulfill project objectives for this sampling event. The assessment of these DQOs and the usability of the data as a result of this assessment are discussed in detail below.

Precision

Field Precision

Field precision was measured by the collection of field duplicates. As per the QAPP, field duplicates were scheduled to be collected at a frequency of one for every 20 samples per matrix per parameter. Field duplicates were collected by taking two aliquots of the same sample, containerizing the samples, and submitting them to the laboratory for analysis as two separate samples. The relative percent difference (RPD) criterion was 50 percent for solid samples when the concentration for the sample and the duplicate was greater than or equal to five times the quantitation limit. For this program, which includes all samples collected under the Parking Lot Remediation Program to date, field duplicate samples were collected at the proper frequency. Field duplicate samples collected from the Parking Lot site were as follows:

- PL-RWP-EP2: Lead

It should be noted that this evaluation only focuses on those field duplicate samples which were included in the validation. The RPD of lead in the field duplicate pair was within the acceptance criteria, indicating acceptable overall sampling and analytical precision.

Analytical Precision

Analytical precision was measured by the analyses of matrix spike/matrix spike duplicate (MS/MSD) samples for organic parameters and laboratory duplicate samples for inorganic parameters. Method precision objectives were summarized in Table 4 of the QAPP in terms of RPDs. As per the QAPP, MS/MSDs or duplicate samples were scheduled to be analyzed at a frequency of at least one for every 20 samples per matrix per parameter. For this program which includes all samples collected under the Parking Lot Remediation Program to date, MS/MSD or duplicate analyses were performed at the project-specified frequency. MS/MSD and duplicate analyses were performed on the following samples from the Parking Lot site:

- PL-RWP-VOC7: VOCs
- PL-RWP-EP6: lead
- PL-RWP-EP07: lead
- PL-RWP-EP07B: lead
- PL-RWP-EP08: lead

It should be noted that this evaluation only focuses on those MS/MSDs or laboratory duplicates which were included in the validation. The RPDs of all target analytes in the MS/MSD and/or laboratory duplicates were within the acceptance criteria, indicating acceptable analytical precision. None of the results were qualified or deemed unusable on the basis of the laboratory duplicate or MS/MSD results.

Accuracy

Field Accuracy

Accuracy in the field is routinely assessed through the collection and analysis of field blanks for all parameters. As per the QAPP, trip blanks were not required for VOC soil analyses.

Field blanks are used to evaluate the potential contamination of samples from the sampling equipment, cleanliness of sample containers, sample handling and collection procedures. Field blanks are collected by pouring deionized water through (or over) sample collection equipment after the initial decontamination procedure and prior to use.

As per the QAPP, field blanks were scheduled to be collected at a frequency of one per 20 samples per matrix per parameter.

The sampling frequency requirement was not met. There were no field blanks submitted with these samples. The lack of field blanks results in more conservative data, since the results cannot necessarily be attributed to blank contamination. The overall usability of the data was not affected by this deviation.

Laboratory Accuracy

Accuracy in the laboratory was assessed through the evaluation of cooler temperatures, holding times, calibrations, laboratory method blanks, surrogate spike recoveries, laboratory control spikes (LCSs), MS/MSD recoveries, internal standards, and target compound identification.

Cooler Temperatures and Holding Times

All samples were received at the method-specified temperature. All samples were prepared and/or analyzed within the required holding times. None of the Parking Lot data required qualification on the basis of cooler temperatures or holding times.

Calibrations

None of the Parking Lot data required qualification on the basis of calibrations.

Laboratory Method Blanks

Laboratory blanks were used to evaluate the potential contamination of samples from the preparation and analytical procedures. Laboratory blanks were prepared and/or analyzed along with each batch of field samples. Laboratory blanks were scheduled to be prepared and analyzed at a frequency of one per 20 samples per matrix per parameter per day of digestion and/or analysis. Laboratory blanks were evaluated against their associated field samples to determine if a laboratory condition contributed to false positives or high bias in the field samples. The laboratory blank results did not indicate a laboratory contamination problem. Target analytes were not detected in any of the laboratory

blanks. None of the Parking Lot data required qualification on the basis of the laboratory blanks.

Surrogate Spike Recoveries

Surrogate spike compounds were added to each sample undergoing VOC analysis to assess method performance. All surrogate recoveries for the soil samples were within the acceptance limits. None of the Parking Lot data required qualification on the basis of the surrogate spike recoveries.

MS Recoveries

MS compounds were added to select samples prior to preparation and/or analysis to assess the overall effect of the sample matrix on the performance of the method. As per the QAPP, MSs were scheduled to be performed at a frequency of one per 20 samples per matrix per parameter and MSDs were scheduled to be performed at a frequency of one per 20 samples per matrix per organic parameters. For this program which includes all samples collected under the Parking Lot Remediation Program to date, MS and/or MSD analyses were performed at the project-specified frequency. MS and/or MSD analyses were performed on the following samples from the Parking Lot site:

- PL-RWP-VOC7: VOCs
- PL-RWP-EP6: lead
- PL-RWP-EP07: lead
- PL-RWP-EP07B: lead
- PL-RWP-EP08: lead

It should be noted that this evaluation only focuses on those MS and/or MSDs which were included in the validation. The recoveries of spiked analytes were evaluated in the MS and MSD samples. Based on these recoveries, the following biases may exist:

- The results for lead may be biased low in samples PL-RWP-EP07A and PL-RWP-EP07B.

The result for lead in sample PL-RWP-EP07A exceeded the project action level for lead; the overall decision made using the lead result was not affected by the potential low bias. The result for lead in sample PL-RWP-EP07B was below the project action level but not

by a significant amount. Caution should be used when using this value for decision-making purposes as the result could potentially be higher due to the low bias.

LCS Analyses

LCSs consisted of clean soil spiked with all target analytes prior to preparation and/or analysis at the mid-range of the calibration using a secondary source standard different from that used for calibration. The LCS is used to provide an independent assessment of the overall efficiency of the analytical method. The recoveries of all spiked analytes were within the acceptance limits.

None of the Parking Lot data required qualification on the basis of LCS recoveries.

Internal Standards

Internal standard compounds were added to each sample undergoing VOC analysis to assess method performance. None of the Parking Lot data required qualification on the basis of internal standard recoveries.

Target Compound Identification

All criteria were met for target compound identification. None of the Parking Lot data required qualification on the basis of the compound identification criteria.

Sensitivity

Sensitivity was assessed by the evaluation of analytical quantitation limits. Quantitation limits were established at the onset of the Parking Lot Remediation Program and were based upon action levels, instrument sensitivity and information provided by the laboratory. However, these values should be considered target values only, as actual quantitation limits were affected by numerous factors, including percent moisture in the samples, matrix interferences, and sample dilutions.

The quantitation limits were evaluated for each parameter and matrix to determine if these limits were at or below the required quantitation limits. The quantitation limits of all soil samples met the project requirements, with the following exceptions:

- The quantitation limits for acetone and 2-butanone exceeded the project-required quantitation limits. Since the elevated quantitation limits were still below the project action levels, the usability of the data was not adversely affected.

Completeness

Completeness is defined as the measure of the amount of valid data obtained from a measurement system compared to the amount that was expected. For the data associated with the Parking Lot Remediation Program, completeness was assessed by comparing (1) the number of samples successfully analyzed to the number submitted, and (2) the number of valid measurements to the number of measurements obtained. Completeness was calculated according to the following equation:

$$\% \text{ Completeness} = \frac{\text{\# of Valid Results}}{\text{\# of Expected Results}} \times 100$$

The field completeness objective (defined by [1] above) was greater than 90 percent. This goal was achieved. All samples submitted for laboratory analysis for the requested parameters were successfully analyzed (thereby 100 percent completeness).

The laboratory completeness objective (defined by [2] above) was greater than 95 percent. This goal was achieved. None of the data was deemed unusable (thereby 100 percent completeness).

Overall Summary

In general, the data were found to be valid and usable for decision-making purposes. The laboratory followed the analytical protocols set forth in the various methods.

Out of the total population of 328 individual results for soil samples, none were rejected.

Through the data validation process, several analyte results were qualified as estimated (J/UJ). The qualifiers (J or UJ) flagged the positive and nondetect analyte results as estimated due to a QC measure found outside of control limits. Out of the total population of 328 individual results, only 4.3 percent (or 14 individual results) were qualified as estimated.

In general, the results for the Parking Lot soil samples are usable for project objectives with the following caution:

- Caution should be used when using the lead result in sample PL-RWP-EP07B to meet project objectives and for decision-making purposes. This result is below the project action level by a minimal amount and may actually be higher due to the low bias which exists due to the QC nonconformance.

Summary of QA/QC Program - Groundwater

A QA/QC program for the groundwater sampling program was instituted to ensure that the analytical and project objectives were met. The QA/QC program consisted of the development of the Quality Assurance Project Plan (QAPP), which detailed the data quality objectives (DQOs) for each analytical parameter for the entire investigation. During the program, the collection of QC samples was monitored by the TRC Project QA Officer to ensure that the field QC samples were collected at the proper frequency. Finally, the QA/QC program included data validation for a percentage of the analytical data, as outlined in the QAPP. That is, only those samples collected for the purpose of characterizing the subsurface, delineating impacted areas, and/or documenting no further action, as in the case of meeting cleanup criteria or action levels, were validated. For the Parking Lot data, 100% of the data generated for the groundwater samples was validated.

The results of the data validation were summarized in Data Usability Summary Reports (DUSRs). These DUSRs appear in this appendix and include a discussion on each qualified result, the potential bias and the effect on the data usability. Also included with each DUSR is a summary of the qualified report forms and copies of any QC summary forms for exceedances discussed in the DUSR. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008* (October 1999), modified as necessary to accommodate the SW-846 methodology used, the project specific QC criteria detailed in the QAPP, and Region II validation actions from *Region II Standard Operating Procedures (SOPs) for CLP Organic Data Review* (Revision 11, June 1996). An abridged version of the laboratory analytical results is included as Appendix G of this RWP. The full laboratory analytical data package is available from TRC upon request.

The following groundwater samples were each collected during five separate rounds of sampling (June 2002, October 2002, December 2002, March 2003, and June 2003). All samples were analyzed for volatile organic compounds (VOCs) and data from all rounds were included in the validation:

PL-MW-1R, PL-MW-2R, PL-MW-3R, PL-MW-3S, PL-MW-4R, PL-MW-5R, PL-MW-6R, PL-MW-7R
Sample WS-MW-2R was included in the March 2003 and June 2003 sampling rounds only.

The results of the data validation were used to determine if project objectives had been met. The results of the data validation provided a quantitative evaluation of the DQOs: precision, accuracy, completeness, and sensitivity. For each analytical parameter, DQOs were established prior to the onset of the program for both field and analytical accuracy, precision, sensitivity and completeness. In order for the successful achievement of the project objectives, all DQOs must be met. Actual sample and QC sample results were compared to project DQOs to determine whether results could be used to fulfill project objectives for this sampling event. The assessment of these DQOs and the usability of the data as a result of this assessment are discussed in detail below.

Precision

Field Precision

Field precision was measured by the collection of field duplicates. As per the QAPP, field duplicates were scheduled to be collected at a frequency of one for every 20 samples per matrix per parameter. Field duplicates were collected by taking two aliquots of the same sample, containerizing the samples, and submitting them to the laboratory for analysis as two separate samples. The relative percent difference (RPD) criterion was 30 percent for aqueous samples when the concentration for the sample and the duplicate was greater than or equal to five times the quantitation limit. For this program, field duplicate samples were collected at the proper frequency. Field duplicate samples collected from the Parking Lot site were as follows:

- PL-MW-3R (June 2002 and October 2002)
- PL-MW-3S (December 2002, March 2003, and June 2003)

With the exception of the June 2003 sampling round, the RPDs of the VOCs were within the acceptance criteria in all field duplicate pairs, indicating acceptable overall sampling and analytical precision.

The results for the compounds with high RPDs were qualified as estimated (J) in the associated samples. Potential uncertainty exists for these results in the associated samples. It should be noted that the RPDs were just slightly above the acceptance criteria. In the case of the field duplicate pair for sample PL-MW-3S from June 2003, both the original and field duplicate samples exhibited results for VOCs which exceeded

the project action levels or data quality levels (DQLs) established in Table 1 of the QAPP; the high RPDs most likely did not affect the overall usability of these results. In addition, the results for this sample were generally consistent with previous sampling rounds. Based on these observations, the qualifications have a minor effect on the usability of the data. None of the results were deemed unusable on the basis of the field duplicate results.

Analytical Precision

Analytical precision was measured by the analyses of matrix spike/matrix spike duplicate (MS/MSD) samples. Method precision objectives were summarized in Table 4 of the QAPP in terms of RPDs. As per the QAPP, MS/MSDs were scheduled to be analyzed at a frequency of at least one for every 20 samples per matrix per parameter. For this program, MS/MSD analyses were performed at the proper frequency. MS/MSD analyses were performed on the following samples from the Parking Lot site:

- PL-MW-2R (June 2002)
- PL-MW-4R (June 2002 and December 2002)
- PL-MW-3S (October 2002)
- PL-MW-31S (December 2002)
- PL-MW-5R (December 2002)
- PL-MW-1R (March 2003 and June 2003)

Based on the RPDs, the following issues were discovered.

- RPDs for benzene, toluene, ethylbenzene, and xylenes in the MS/MSD analyses associated with sample PL-MW-4R (June 2002) exceeded the acceptance criteria.

Potential uncertainty exists for the above-listed results in sample PL-MW-4R. In the case of sample PL-MW-4R, the results for all affected VOCs were significantly above the project action levels. Therefore, it is doubtful that the high RPDs affected the overall decision-making in this sample. None of the results were deemed unusable on the basis of the MS/MSD results.

Accuracy

Field Accuracy

Accuracy in the field was assessed through the collection and analysis of field blanks and trip blanks.

Field blanks are used to evaluate the potential contamination of samples from the sampling equipment, cleanliness of sample containers, sample handling and collection procedures. Field blanks are collected by pouring deionized water through (or over) sample collection equipment after the initial decontamination procedure and prior to use. As per the QAPP, field blanks were scheduled to be collected at a frequency of one per 20 samples per matrix per parameter. This frequency requirement was met for the Parking Lot groundwater sampling program.

Trip blanks were used to evaluate the potential for VOC contamination of samples due to contaminant migration during sample shipment and storage. Trip blanks consisted of 40 mL VOA vials filled with distilled water; these blanks remained with the samples during shipping and storage. Trip blanks were scheduled to be submitted to the laboratory for analysis at a frequency of one per cooler when VOC groundwater samples were shipped. This frequency requirement was not met for the Parking Lot groundwater sampling program. A trip blank was not submitted with samples from the December 2002 and March 2003 sampling events. The lack of trip blanks for these sampling rounds results in more conservative data, since the results cannot necessarily be attributed to blank contamination. The overall usability of the data was not affected by this deviation.

Field blank and trip blank results were evaluated to determine if high levels of contaminants or uncommon contaminants were detected and the percentage of samples affected. Contamination in blanks indicates that false positives may exist in samples associated with the affected blanks; these false positives may lead to a high bias for these compounds. Select sample results were negated on the basis of this comparison, in accordance with the data validation guidelines.

Target compounds were not detected in the trip blanks associated with the groundwater samples. The field blanks associated with the June 2002, October 2002, and March 2003 groundwater samples detected a low concentration of MTBE. The MTBE results in one

groundwater sample (PL-MW-7R) during the June 2002, October 2002, and March 2003 sampling rounds and in sample WS-MW-2R in the March 2003 sampling round were qualified as nondetects during data validation due to the blank contamination. The field blank associated with the March 2003 groundwater samples also detected a low concentration of toluene. The toluene results in four groundwater samples (PL-MW-2R, PL-MW-3S, PL-MW-4R, and PL-MW-5R) from the March 2003 sampling round were qualified as nondetects during data validation due to the blank contamination. The elevated quantitation limits for MTBE and toluene in the affected samples did not affect the overall usability of the data since the new quantitation limits were still below or equal to the associated project action limits. Data quality for the other groundwater samples was not affected by the MTBE and toluene contamination since the levels in the samples exceeded 5x the amount detected in the blank.

In general, the results of the field blanks did not indicate any systematic pattern of contamination indicative of improperly cleaned equipment or poor sampling techniques. In addition, the results of the trip blank did not indicate that contaminant migration during shipment and storage was a problem for samples collected during the investigation. Therefore, the overall usability of the data was not adversely affected on the basis of the field blank or trip blank evaluations.

Laboratory Accuracy

Accuracy in the laboratory was assessed through the evaluation of cooler temperatures, holding times, calibrations, laboratory method blanks, surrogate spike recoveries, laboratory control spikes (LCSs), MS/MSD recoveries, internal standards, and target compound identification.

Cooler Temperatures and Holding Times

All samples were received at the method-specified temperature. All samples were analyzed within the required holding times. None of the Parking Lot data required qualification on the basis of cooler temperatures or holding times.

Calibrations

None of the Parking Lot data required qualification on the basis of calibrations.

Laboratory Method Blanks

Laboratory blanks were used to evaluate the potential contamination of samples from the analytical procedures. Laboratory blanks were analyzed along with each batch of field samples. Laboratory blanks were scheduled to be analyzed at a frequency of one per 20 samples per matrix per parameter per day of analysis. Laboratory blanks were evaluated against their associated field samples to determine if a laboratory condition contributed to false positives or high bias in the field samples. The laboratory blank results did not indicate a laboratory contamination problem. Target compounds were not detected in any of the laboratory blanks. None of the Parking Lot data required qualification on the basis of the laboratory blanks.

Surrogate Spike Recoveries

Surrogate spike compounds were added to each sample undergoing VOC analysis to assess method performance. All surrogate recoveries for the groundwater samples were within the acceptance limits. None of the Parking Lot data required qualification on the basis of the surrogate spike recoveries.

MS Recoveries

MS compounds were added to select samples prior to preparation and/or analysis to assess the overall effect of the sample matrix on the performance of the method. As per the QAPP, MS/MSDs were scheduled to be performed at a frequency of one per 20 samples per matrix. For this program, MS/MSD analyses were performed at the proper frequency. MS/MSD analyses were performed on the following samples from the Parking Lot site:

- PL-MW-2R (June 2002)
- PL-MW-4R (June 2002 and December 2002)
- PL-MW-3S (October 2002)
- PL-MW-31S (December 2002)
- PL-MW-5R (December 2002)
- PL-MW-1R (March 2003 and June 2003)

The recoveries of spiked compounds were evaluated in the MS and MSD samples. Based on these recoveries, the following biases may exist:

- The result for methyl-tertbutyl ether (MTBE) may be biased low in sample PL-MW-4R (June 2002).

Since the positive result for MTBE in sample PL-MW-4R (June 2002) exceeded the project action level, the potential low bias did not adversely affect the overall decision-making process.

LCS Analyses

LCSs consisted of clean water spiked with all target compounds prior to analysis at the mid-range of the calibration using a secondary source standard different from that used for calibration. The LCS is used to provide an independent assessment of the overall efficiency of the analytical method. The recoveries of all spiked compounds were within the acceptance limits.

None of the Parking Lot data required qualification on the basis of LCS recoveries.

Internal Standards

Internal standard compounds were added to each sample undergoing VOC analysis to assess method performance. None of the Parking Lot data required qualification on the basis of internal standard recoveries.

Target Compound Identification

All criteria were met for target compound identification. None of the Parking Lot data required qualification on the basis of the compound identification criteria.

Sensitivity

Sensitivity was assessed by the evaluation of analytical quantitation limits. Quantitation limits were established at the onset of the program and were based upon action levels, instrument sensitivity and information provided by the laboratory. However, these values should be considered target values only, as actual quantitation limits were affected by numerous factors, including matrix interferences and sample dilutions.

The quantitation limits were evaluated for each parameter and matrix to determine if these limits were at or below the required quantitation limits. Samples PL-MW-3S (October 2002 and December 2002), PL-MW-4R (October 2002, December 2002, and June 2003), and PL-MW-5R (December 2002 and June 2003) exhibited quantitation limits which exceeded the project requirements due to dilutions which were necessary due to concentrations of select target compounds which would have exceeded the calibration range if analyzed undiluted. Results for select compounds in groundwater samples may not be usable for specific project objectives (i.e., documenting no further action) due to the elevated quantitation limits.

Potential uncertainty exists for reported results which were below the lowest calibration standard or quantitation limit. These results were qualified as estimated (J) by the laboratory but are still usable for project objectives.

Completeness

Completeness is defined as the measure of the amount of valid data obtained from a measurement system compared to the amount that was expected. For the Parking Lot data associated with the groundwater sampling program, completeness was assessed by comparing (1) the number of samples successfully analyzed to the number submitted, and (2) the number of valid measurements to the number of measurements obtained. Completeness was calculated according to the following equation:

$$\% \text{ Completeness} = \frac{\text{\# of Valid Results}}{\text{\# of Expected Results}} \times 100$$

The field completeness objective (defined by [1] above) was greater than 90 percent. This goal was achieved. All samples submitted for laboratory analysis for the requested parameters were successfully analyzed (thereby 100 percent completeness).

The laboratory completeness objective (defined by [2] above) was greater than 95 percent. This goal was achieved. None of the data was deemed unusable (thereby 100 percent completeness).

Data Usability Summary Report

Site: First Avenue/Parking Lot
Laboratory: Accutest, Dayton, NJ
Case No.: N29559
Reviewer: Lorie MacKinnon/TRC Environmental Corporation
Date: January 23, 2003

Samples Reviewed and Evaluation Summary

Lead: 7/Soils/ PL-RWP-EP3, PL-RWP-EP2, PL-RWP-EP22, PL-RWP-EP1, PL-RWP-EP4, PL-RWP-EP5, PL-RWP-EP6

The above-listed samples were analyzed for lead by SW-846 method 6010B. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA 540/R-94/013* (February 1994), modified as necessary to accommodate the non-CLP methodology used, the project specific QC criteria detailed in the Quality Assurance Project Plan (QAPP), and Region II validation actions.

The inorganic data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times and Sample Preservation
* • Instrument Calibration
* • Contract Required Detection Limit (CRDL) Standard Recoveries
* • Blank Analysis Results
* • Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
* • Matrix Spike Results
* • Laboratory Duplicate Results
* • Field Duplicate Results
* • Laboratory Control Sample (LCS) Results
• ICP Serial Dilution Analysis Results
* • Detection Limits Results
* • Sample Quantitation Results

* - All criteria were met for this parameter.

Overall Evaluation of Data and Potential Usability Issues

Qualifications were not required as a result of sampling error. Qualifications applied to the data as a result of analytical error are discussed below.

•The positive results for lead in all samples were qualified as estimated (J) due to the high percent difference (%D) in the ICP serial dilution analysis. These results are usable for project objectives as estimated values which may have a minor effect on the data usability.

All results are usable for project objectives.

The validation recommendations listed above were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP Category B deliverables.

Holding Times and Sample Preservation

All criteria were met.

Instrument Calibration

All criteria were met.

CRDL Standard Recoveries

All criteria were met.

Blank Analysis Results

All metals instrument and method blank results were found to be less than the CRDL or quantitation limit (QL).

ICP ICS Results

All criteria were met.

Matrix Spike Results

The laboratory performed a matrix spike analysis on sample PL-RWP-EP6. All criteria were met.

Laboratory Duplicate Results

The laboratory performed a duplicate analysis on sample PL-RWP-EP6. All criteria were met.

Field Duplicate Results

Samples PL-RWP-EP2 and PL-RWP-EP22 were submitted as the field duplicate pair with this sample set. The following table summarizes the relative percent difference (RPD) of the detected analyte which was within the acceptance criteria.

Parameter	PL-RWP-EP2 (mg/kg)	PL-RWP-EP22 (mg/kg)	RPD (%)
Lead	15.4	16.8	8.7

LCS Results

All criteria were met.

ICP Serial Dilution Analysis Results

An ICP serial dilution analysis was performed on sample PL-RWP-EP6. The following table lists the analyte which exhibited a %D outside of the control limit of 10 for an original concentration greater than 10x the instrument detection limit (IDL) and the resulting validation action.

Analyte	%D	Actions
Lead	10.3%	Estimate (J) the positive results for lead in all samples.

Detection Limits Results

All detection limits were found to be less than or equal to the project required quantitation limits.

Sample Quantitation Results

Sample calculations were spot-checked; no discrepancies were noted.

Qualified Form Is

Report of Analysis

Client Sample ID:	PL-RWP-EP3		
Lab Sample ID:	N29559-1	**Date Sampled:**	12/24/02
Matrix:	SO - Soil	**Date Received:**	12/27/02
		Percent Solids:	87.0
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	104 J	1.1	mg/kg	1	12/28/02	12/31/02 ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PL-RWP-EP2		
Lab Sample ID:	N29559-2	**Date Sampled:**	12/24/02
Matrix:	SO - Soil	**Date Received:**	12/27/02
		Percent Solids:	78.5
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	15.4 J	1.3	mg/kg	1	12/28/02	12/31/02 ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PL-RWP-EP22		
Lab Sample ID:	N29559-3	**Date Sampled:**	12/24/02
Matrix:	SO - Soil	**Date Received:**	12/27/02
		Percent Solids:	77.6
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	16.8 J	1.3	mg/kg	1	12/28/02	12/31/02 ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PL-RWP-EP1		
Lab Sample ID:	N29559-4	**Date Sampled:**	12/24/02
Matrix:	SO - Soil	**Date Received:**	12/27/02
		Percent Solids:	80.2
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	54.1 J	1.3	mg/kg	1	12/28/02	12/31/02 ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PL-RWP-EP4		
Lab Sample ID:	N29559-5	**Date Sampled:**	12/24/02
Matrix:	SO - Soil	**Date Received:**	12/27/02
		Percent Solids:	68.1
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	209 J	1.5	mg/kg	1	12/28/02	12/31/02 ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PL-RWP-EP5		
Lab Sample ID:	N29559-6	**Date Sampled:**	12/24/02
Matrix:	SO - Soil	**Date Received:**	12/27/02
		Percent Solids:	73.8
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	20.2 J	1.3	mg/kg	1	12/28/02	12/31/02 ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PL-RWP-EP6		
Lab Sample ID:	N29559-7	**Date Sampled:**	12/26/02
Matrix:	SO - Soil	**Date Received:**	12/27/02
		Percent Solids:	91.9
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	9.1 J	1.1	mg/kg	1	12/28/02	12/31/02 ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

QC Nonconformance Documentation

Login Number: N29559
Account: TRCNJ - TRC Environmental Corporation, NJ
Project: First Avenue Properties, Parking Lot East 39th Street, NY

QC Batch ID: MP20651
Matrix Type: SOLID

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/28/02

Metal	N29559-7 Original	SDL 1:5	RPD	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	83.9	92.5	10.3 (a)	0-10
Magnesium			*	
Manganese				
Molybdenum				
Nickel				
Palladium				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP20651: N29559-1, N29559-2, N29559-3, N29559-4, N29559-5, N29559-6, N29559-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Data Usability Summary Report

Site: First Avenue/Parking Lot
Laboratory: Accutest, Dayton, NJ
Case No.: N30771
Reviewer: Lorie MacKinnon/TRC Environmental Corporation
Date: February 19, 2003

Samples Reviewed and Evaluation Summary

Lead: 6/Soil/ PL-RWP-EP08, PL-RWP-EP09, PL-RWP-EP10, PL-RWP-EP11, PL-RWP-EP12, PL-RWP-EP13

The above-listed samples were analyzed for lead by SW-846 method 6010B. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA 540/R-01/008* (July 2002), modified as necessary to accommodate the non-CLP methodology used, the project specific QC criteria detailed in the Quality Assurance Project Plan (QAPP), and Region II validation actions.

The inorganic data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times and Sample Preservation
* • Instrument Calibration
• Contract Required Detection Limit (CRDL) Standard Recoveries
* • Blank Analysis Results
* • Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
* • Matrix Spike Results
* • Laboratory Duplicate Results
* • Field Duplicate Results
* • Laboratory Control Sample (LCS) Results
• ICP Serial Dilution Analysis Results
* • Detection Limits Results
* • Sample Quantitation Results

* - All criteria were met for this parameter.

Overall Evaluation of Data and Potential Usability Issues

Qualifications were not required as a result of sampling error. Qualifications applied to the data as a result of analytical error are discussed below.

•The positive results for lead in samples PL-RWP-EP08, PL-RWP-EP09, PL-RWP-EP11, PL-RWP-EP12, and PL-RWP-EP13 were qualified as estimated (J) due to the high percent difference (%D) in the ICP serial dilution analysis. These results are usable for project objectives as estimated values

which may have a minor effect on the data usability.

All results are usable for project objectives.

The validation recommendations listed above were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP Category B deliverables.

Holding Times and Sample Preservation

All criteria were met.

Instrument Calibration

All criteria were met.

CRDL Standard Recoveries

The following table lists the recoveries which were outside the control limits in the CRDL standard and the resulting validation actions. Based on Region II validation guidelines, the affected analyte level range is determined by the true value of the CRDL standard ± 2x the CRDL.

Analyte	Recovery (%)	Associated Samples	Actions
Lead	138.3, 133.3	All samples	No validation actions were required. The associated results for lead were greater than the affected range.

Blank Analysis Results

All metals instrument and method blank results were found to be less than the CRDL or quantitation limit (QL).

ICP ICS Results

All criteria were met.

Matrix Spike Results

The laboratory performed a matrix spike analysis on sample PL-RWP-EP08. All criteria were met.

Laboratory Duplicate Results

The laboratory performed a duplicate analysis on sample PL-RWP-EP08. All criteria were met.

Field Duplicate Results

Samples PL-RWP-EP2 and PL-RWP-EP22 were submitted as the field duplicate pair with this sample set and reported in N29559. The following table summarizes the relative percent difference (RPD) of the detected analyte, which was within the acceptance criteria.

Parameter	PL-RWP-EP2 (mg/kg)	PL-RWP-EP22 (mg/kg)	RPD (%)
Lead	15.4	16.8	8.7

LCS Results

All criteria were met.

ICP Serial Dilution Analysis Results

An ICP serial dilution analysis was performed on sample PL-RWP-EP08. The following table lists the analytes which exhibited %Ds outside of the control limits of 10 for original concentrations greater than 10x the instrument detection limit (IDL) and the resulting validation actions.

Analyte	%D	Actions
Lead	18.2%	Estimate (J) the positive results for lead greater than 10x the IDL in samples PL-RWP-EP08, PL-RWP-EP09, PL-RWP-EP11, PL-RWP-EP12, and PL-RWP-EP13.

Detection Limits Results

All detection limits were found to be less than or equal to the project required quantitation limits.

Sample Quantitation Results

Sample calculations were spot-checked; no discrepancies were noted.

Qualified Form Is

Report of Analysis

Client Sample ID:	PLRWP-EP08		
Lab Sample ID:	N30771-1	**Date Sampled:**	01/03/03
Matrix:	SO - Soil	**Date Received:**	01/16/03
		Percent Solids:	91.9
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	3.1 J	1.1	mg/kg	1	01/17/03	01/18/03 KL	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PLRWP-EP09		
Lab Sample ID:	N30771-2	**Date Sampled:**	01/08/03
Matrix:	SO - Soil	**Date Received:**	01/16/03
		Percent Solids:	92.2
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	3.1J	1.0	mg/kg	1	01/17/03	01/18/03 KL	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PLRWP-EP10		
Lab Sample ID:	N30771-3	**Date Sampled:**	01/09/03
Matrix:	SO - Soil	**Date Received:**	01/16/03
		Percent Solids:	96.2
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	2.7	1.1	mg/kg	1	01/17/03	01/18/03 KL	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PLRWP-EP11		
Lab Sample ID:	N30771-4	**Date Sampled:**	01/10/03
Matrix:	SO - Soil	**Date Received:**	01/16/03
		Percent Solids:	95.0
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	31.6 J	1.0	mg/kg	1	01/17/03	01/18/03 KL	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PLRWP-EP12		
Lab Sample ID:	N30771-5	**Date Sampled:**	01/14/03
Matrix:	SO - Soil	**Date Received:**	01/16/03
		Percent Solids:	95.9
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	12.6 J	1.1	mg/kg	1	01/17/03	01/18/03	KL	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PLRWP-EP13		
Lab Sample ID:	N30771-6	**Date Sampled:**	01/15/03
Matrix:	SO - Soil	**Date Received:**	01/16/03
		Percent Solids:	93.7
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	11.2 J	1.0	mg/kg	1	01/17/03	01/18/03	KL	SW846 6010B	SW846 3050B

RL = Reporting Limit

QC Nonconformance Documentation

Login Number: N30771
Account: TRCNJ - TRC Environmental Corporation, NJ
Project: First Avenue Properties, Parking Lot East 39th Street, NY

File ID: IT0117M4.ASC Date Analyzed: 01/17/03 Methods: EPA 200.7, SW846 6010B
QC Limits: 50 to 150 % Recovery Run ID: MA11491 Units: ug/l

Metal	CRIB True	CRIB Results	% Rec	CRIB Results	% Rec	CRIB Results	% Rec
Aluminum	400						
Antimony	10						
Arsenic	10						
Barium	400						
Beryllium	10						
Cadmium	8.0						
Calcium	5000						
Chromium	20						
Cobalt	100						
Copper	50						
Iron	200						
Lead	6.0	8.3	138.3	8.0	133.3	6.9	115.0
Magnesium	5000						
Manganese	30						
Molybdenum	10						
Nickel	80						
Palladium	100						
Potassium	5000						
Selenium	10						
Silicon	400						
Silver	20						
Sodium	5000						
Thallium	20						
Tin	20						
Vanadium	100						
Zinc	40						

(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: N30771
Account: TRCNJ - TRC Environmental Corporation, NJ
Project: First Avenue Properties, Parking Lot East 39th Street, NY

QC Batch ID: MP20774
Matrix Type: SOLID

Methods: SW846 6010B
Units: ug/l

Prep Date: 01/17/03

Metal	N30771-1 Original	SDL 1:5	RPD	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron				
Lead	28.3	33.5	18.2 (a)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Palladium				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP20774: N30771-1, N30771-2, N30771-3, N30771-4, N30771-5, N30771-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Data Usability Summary Report

Site: First Avenue/Parking Lot
Laboratory: Accutest, Dayton, NJ
Case No.: N31207
Reviewer: Lorie MacKinnon/TRC Environmental Corporation
Date: February 19, 2003

Samples Reviewed and Evaluation Summary

Lead: 2/Soil/ PL-RWP-EP07A, PL-RWP-EP07B

The above-listed samples were analyzed for lead by SW-846 method 6010B. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA 540/R-01/008* (July 2002), modified as necessary to accommodate the non-CLP methodology used, the project specific QC criteria detailed in the Quality Assurance Project Plan (QAPP), and Region II validation actions.

The inorganic data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times and Sample Preservation
* • Instrument Calibration
• Contract Required Detection Limit (CRDL) Standard Recoveries
* • Blank Analysis Results
* • Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
• Matrix Spike Results
* • Laboratory Duplicate Results
* • Field Duplicate Results
* • Laboratory Control Sample (LCS) Results
* • ICP Serial Dilution Analysis Results
* • Detection Limits Results
* • Sample Quantitation Results

* - All criteria were met for this parameter.

Overall Evaluation of Data and Potential Usability Issues

Qualifications were not required as a result of sampling error. Qualifications applied to the data as a result of analytical error are discussed below.

•The positive results for lead in samples PL-RWP-EP07A and PL-RWP-EP07B were qualified as estimated (J) due to low recovery in the matrix spike analysis. These results may be biased low. These results are usable for project objectives as estimated values which may have a minor effect on the data usability.

All results are usable for project objectives.

The validation recommendations listed above were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP Category B deliverables.

Holding Times and Sample Preservation

All criteria were met.

Instrument Calibration

All criteria were met.

CRDL Standard Recoveries

The following table lists the recoveries which were outside the control limits in the CRDL standard and the resulting validation actions. Based on Region II validation guidelines, the affected analyte level range is determined by the true value of the CRDL standard ± 2x the CRDL.

Analyte	Recovery (%)	Associated Samples	Actions
Lead	126.7	All samples	No validation actions were required. The associated results for lead were greater than the affected range.

Blank Analysis Results

All metals instrument and method blank results were found to be less than the CRDL or quantitation limit (QL).

ICP ICS Results

All criteria were met.

Matrix Spike Results

The laboratory performed a matrix spike analysis on sample PL-RWP-EP07B. The percent recovery of lead (-40) was below the control limits. It should be noted that a laboratory duplicate analysis was also performed on this sample and the relative percent difference (RPD) for lead was 57. When calculated with the laboratory duplicate lead result, the matrix spike recovery was 88%. As the extremely poor matrix spike recovery was most likely due to sample non-homogeneity, technical

judgement was used to estimate (J), rather than reject, the positive results for lead in samples PL-RWP-EP07A and PL-RWP-EP07B.

Laboratory Duplicate Results

The laboratory performed a duplicate analysis on sample PL-RWP-EP07B. All criteria were met.

Field Duplicate Results

Samples PL-RWP-EP2 and PL-RWP-EP22 were submitted as the field duplicate pair with this sample set and reported in N29559. The following table summarizes the RPD of the detected analyte, which was within the acceptance criteria.

Parameter	PL-RWP-EP2 (mg/kg)	PL-RWP-EP22 (mg/kg)	RPD (%)
Lead	15.4	16.8	8.7

LCS Results

All criteria were met.

ICP Serial Dilution Analysis Results

An ICP serial dilution analysis was performed on sample PL-RWP-EP07B. All criteria were met.

Detection Limits Results

All detection limits were found to be less than or equal to the project required quantitation limits.

Sample Quantitation Results

Sample calculations were spot-checked; no discrepancies were noted.

Qualified Form Is

Report of Analysis

Client Sample ID:	PLRWP-EP07A		
Lab Sample ID:	N31207-1	**Date Sampled:**	01/16/03
Matrix:	SO - Soil	**Date Received:**	01/22/03
		Percent Solids:	85.3
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Lead	1470 J	1.2	mg/kg	1	01/23/03	01/23/03	ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PLRWP-EP07B		
Lab Sample ID:	N31207-2	**Date Sampled:**	01/16/03
Matrix:	SO - Soil	**Date Received:**	01/22/03
		Percent Solids:	96.3
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Lead	303 J	1.0	mg/kg	1	01/23/03	01/23/03	ND	SW846 6010B	SW846 3050B

RL = Reporting Limit

QC Nonconformance Documentation

Login Number: N31207
Account: TRCNJ - TRC Environmental Corporation, NJ
Project: First Avenue Properties, Parking Lot East 39th Street, NY

File ID: IT012303M1.ASC Date Analyzed: 01/23/03 Methods: EPA 200.7, SW846 6010B
QC Limits: 50 to 150 % Recovery Run ID: MA11515 Units: ug/l

Metal	CRIB True	CRIB Results	% Rec
Aluminum	400		
Antimony	10		
Arsenic	10		
Barium	400		
Beryllium	10		
Cadmium	8.0		
Calcium	5000		
Chromium	20		
Cobalt	100		
Copper	50		
Iron	200		
Lead	6.0	7.6	126.7
Magnesium	5000		
Manganese	30		
Molybdenum	10		
Nickel	80		
Palladium	100		
Potassium	5000		
Selenium	10		
Silicon	400		
Silver	20		
Sodium	5000		
Thallium	20		
Tin	20		
Vanadium	100		
Zinc	40		

(*) Outside of QC limits
(anr) Analyte not requested

Data Usability Summary Report

Site: First Avenue/Parking Lot
Laboratory: Accutest, Dayton, NJ
Case No.: N29654
Reviewer: Lorie MacKinnon/TRC Environmental Corporation
Date: February 19, 2003

Samples Reviewed and Evaluation Summary

Lead: 1/Soil/ PL-RWP-EP07

The above-listed sample was analyzed for lead by SW-846 method 6010B. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA 540/R-01/008* (July 2002), modified as necessary to accommodate the non-CLP methodology used, the project specific QC criteria detailed in the Quality Assurance Project Plan (QAPP), and Region II validation actions.

The inorganic data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times and Sample Preservation
* • Instrument Calibration
* • Contract Required Detection Limit (CRDL) Standard Recoveries
* • Blank Analysis Results
* • Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
* • Matrix Spike Results
* • Laboratory Duplicate Results
* • Field Duplicate Results
* • Laboratory Control Sample (LCS) Results
* • ICP Serial Dilution Analysis Results
* • Detection Limits Results
* • Sample Quantitation Results

* - All criteria were met for this parameter.

Overall Evaluation of Data and Potential Usability Issues

Qualifications were not required as a result of sampling or analytical error.

All results are usable for project objectives.

The validation review was based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP Category B deliverables.

Holding Times and Sample Preservation

All criteria were met.

Instrument Calibration

All criteria were met.

CRDL Standard Recoveries

All criteria were met.

Blank Analysis Results

All metals instrument and method blank results were found to be less than the CRDL or quantitation limit (QL).

ICP ICS Results

All criteria were met.

Matrix Spike Results

The laboratory performed a matrix spike analysis on sample PL-RWP-EP07. The recovery of lead was outside of the control limits of 75 - 125% in the matrix spike analysis performed; however, since the sample level was greater than four times the spiking level, no validation actions were required.

Laboratory Duplicate Results

The laboratory performed a duplicate analysis on sample PL-RWP-EP07. All criteria were met.

Field Duplicate Results

Samples PL-RWP-EP2 and PL-RWP-EP22 were submitted as the field duplicate pair with this sample set and reported in N29559. The following table summarizes the relative percent difference (RPD) of the detected analyte, which was within the acceptance criteria.

Parameter	PL-RWP-EP2 (mg/kg)	PL-RWP-EP22 (mg/kg)	RPD (%)
Lead	15.4	16.8	8.7

LCS Results

All criteria were met.

ICP Serial Dilution Analysis Results

An ICP serial dilution analysis was performed on sample PL-RWP-EP07. All criteria were met.

Detection Limits Results

All detection limits were found to be less than or equal to the project required quantitation limits.

Sample Quantitation Results

Sample calculations were spot-checked; no discrepancies were noted.

Qualified Form Is

Report of Analysis

Client Sample ID:	PLRWP-EP07		
Lab Sample ID:	N29654-9	**Date Sampled:**	12/30/02
Matrix:	SO - Soil	**Date Received:**	12/31/02
		Percent Solids:	80.6
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	1110	1.2	mg/kg	1	01/06/03	01/09/03 EK	SW846 6010B	SW846 3050B

RL = Reporting Limit

QC Nonconformance Documentation

Login Number: N29654
Account: TRCNJ - TRC Environmental Corporation, NJ
Project: First Avenue Properties, Parking Lot East 39th Street, NY

QC Batch ID: MP20687
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 01/06/03 01/06/03

Metal	N29654-9 Original	DUP	RPD	QC Limits	N29654-9 Original	MS	Spikelot MPIRS1	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	1110	1710	42.6*(a)	0-20	1110	1460	124	282.1(b)	75-125
Magnesium									
Manganese									
Molybdenum									
Nickel									
Palladium									
Potassium									
Selenium									
Silicon									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

< 100%

sample x 4X spike

Associated samples MP20687: N29654-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) High rpd due to possible sample nonhomogeneity.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery

Data Usability Summary Report

Site: First Avenue Properties, Parking Lot
Laboratory: Accutest, Dayton, NJ
Case No.: N29654
Reviewer: Lorie MacKinnon/TRC Environmental Corporation
Date: February 19, 2003

Samples Reviewed and Evaluation Summary

VOC:	8/Soil/	PL-RWP-VOC1, PL-RWP-VOC2, PL-RWP-VOC3, PL-RWP-VOC4, PL-RWP-VOC5, PL-RWP-VOC6, PL-RWP-VOC7, PL-RWP-VOC8

The above-listed samples were analyzed for site-specific volatile organic compounds (VOCs) by SW-846 method 8260B. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008* (October 1999), modified as necessary to accommodate the non-CLP methodology used, the project specific QC criteria detailed in the Quality Assurance Project Plan (QAPP), and Region II validation actions.

The organic data were evaluated based on the following parameters:

*	•	Overall Evaluation of Data and Potential Usability Issues
*	•	Data Completeness
*	•	Holding Times and Sample Preservation
*	•	Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
*	•	Initial and Continuing Calibrations
*	•	Blanks
*	•	Surrogate Recoveries
	•	Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
*	•	Internal Standards
*	•	Laboratory Control Sample (LCS) Results
NA	•	Field Duplicate Results
	•	Sample Quantitation and Reported Quantitation Limits
*	•	Moisture Content
*	•	Target Compound Identification

* - All criteria were met.
NA - A field duplicate pair was not associated with this sample set.

Overall Evaluation of Data and Potential Usability Issues

Qualification of the data as a result of sampling or analytical error was not required.

First Avenue, Parking Lot N29654

All results are usable for project objectives.

The validation review was based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP Category B deliverables.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All criteria were met.

Blanks

Target analytes were not detected in the laboratory method blanks.

Surrogate Recoveries

All criteria were met. It should be noted that the acceptance limits are laboratory-derived and were recently updated. The new acceptance limits were used to evaluate the data instead of the QAPP-specified limits.

MS/MSD Results

Sample PL-RWP-VOC7 was designated for MS/MSD analyses with this sample set. The percent recoveries of acetone (215, 234) and 2-butanone (162, 181) exceeded the acceptance criteria. Qualification of the data on the basis of the MS/MSD nonconformances is not required.

Internal Standards

All criteria were met.

First Avenue, Parking Lot N29654

LCS Results

All criteria were met.

Field Duplicate Results

A field duplicate pair was not associated with this sample set.

Sample Quantitation and Reported Quantitation Limits

Sample calculations were spot-checked; there were no errors noted.

It should be noted that the quantitation limits for acetone and 2-butanone exceeded the project-required quantitation limits. These elevated quantitation limits were still below the project action levels.

Moisture Content

All criteria were met.

Target Compound Identification

All criteria were met.

Qualified Form Is

Report of Analysis

Client Sample ID:	PL-RWP-VOC1		
Lab Sample ID:	N29654-1	**Date Sampled:**	12/27/02
Matrix:	SO - Soil	**Date Received:**	12/31/02
Method:	SW846 8260B	**Percent Solids:**	81.6
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G55329.D	1	01/01/03	SJM	n/a	n/a	VG3062
Run #2							

	Initial Weight
Run #1	4.2 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	15	7.3	ug/kg	
71-43-2	Benzene	ND	1.5	0.84	ug/kg	
78-93-3	2-Butanone (MEK)	ND	15	5.0	ug/kg	
104-51-8	n-Butylbenzene	ND	7.3	1.5	ug/kg	
135-98-8	sec-Butylbenzene	ND	7.3	1.4	ug/kg	
98-06-6	tert-Butylbenzene	ND	7.3	1.5	ug/kg	
75-15-0	Carbon disulfide	ND	7.3	1.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	7.3	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	7.3	1.1	ug/kg	
75-00-3	Chloroethane	ND	7.3	3.2	ug/kg	
67-66-3	Chloroform	ND	7.3	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	7.3	2.9	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.9	0.66	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.9	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.9	0.89	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.3	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	7.3	1.1	ug/kg	
75-35-4	1,1-Dichloroethene	ND	7.3	1.5	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	7.3	1.4	ug/kg	
142-28-9	1,3-Dichloropropane	ND	7.3	0.71	ug/kg	
100-41-4	Ethylbenzene	ND	1.5	1.4	ug/kg	
76-13-1	**Freon 113**	ND	7.3	1.2	ug/kg	
98-82-8	Isopropylbenzene	ND	7.3	1.5	ug/kg	
99-87-6	p-Isopropyltoluene	ND	7.3	1.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	3.0	1.5	0.49	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.3	3.7	ug/kg	
75-09-2	Methylene chloride	ND	7.3	6.9	ug/kg	
103-65-1	n-Propylbenzene	ND	7.3	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.3	2.9	ug/kg	
127-18-4	Tetrachloroethene	ND	7.3	1.5	ug/kg	
108-88-3	Toluene	ND	1.5	1.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.3	1.1	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC1		
Lab Sample ID:	N29654-1	**Date Sampled:**	12/27/02
Matrix:	SO - Soil	**Date Received:**	12/31/02
Method:	SW846 8260B	**Percent Solids:**	81.6
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-55-6	1,1,1-Trichloroethane	ND	7.3	1.2	ug/kg	
79-01-6	Trichloroethene	ND	7.3	1.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	7.3	4.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	7.3	1.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	7.3	1.3	ug/kg	
75-01-4	Vinyl chloride	ND	7.3	1.6	ug/kg	
1330-20-7	Xylene (total)	ND	2.9	1.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-124%
17060-07-0	1,2-Dichloroethane-D4	83%		62-130%
2037-26-5	Toluene-D8	94%		75-125%
460-00-4	4-Bromofluorobenzene	95%		67-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC2		
Lab Sample ID:	N29654-2	**Date Sampled:**	12/27/02
Matrix:	SO - Soil	**Date Received:**	12/31/02
Method:	SW846 8260B	**Percent Solids:**	86.8
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G55330.D	1	01/01/03	SJM	n/a	n/a	VG3062
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	5.6	ug/kg	
71-43-2	Benzene	ND	1.1	0.65	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	3.9	ug/kg	
104-51-8	n-Butylbenzene	ND	5.6	1.2	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.6	1.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.6	1.1	ug/kg	
75-15-0	Carbon disulfide	ND	5.6	0.88	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.6	0.97	ug/kg	
108-90-7	Chlorobenzene	ND	5.6	0.82	ug/kg	
75-00-3	Chloroethane	ND	5.6	2.5	ug/kg	
67-66-3	Chloroform	ND	5.6	0.93	ug/kg	
124-48-1	Dibromochloromethane	ND	5.6	2.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.3	0.51	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.3	0.78	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.3	0.69	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.6	0.88	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.6	0.84	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.6	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.6	1.1	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.6	0.55	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	1.1	ug/kg	
76-13-1	**Freon 113**	ND	5.6	0.90	ug/kg	
98-82-8	Isopropylbenzene	ND	5.6	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.6	1.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.38	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.6	2.9	ug/kg	
75-09-2	Methylene chloride	ND	5.6	5.3	ug/kg	
103-65-1	n-Propylbenzene	ND	5.6	0.97	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	2.3	ug/kg	
127-18-4	Tetrachloroethene	ND	5.6	1.1	ug/kg	
108-88-3	Toluene	ND	1.1	0.86	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	0.83	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC2		
Lab Sample ID:	N29654-2	**Date Sampled:**	12/27/02
Matrix:	SO - Soil	**Date Received:**	12/31/02
Method:	SW846 8260B	**Percent Solids:**	86.8
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-55-6	1,1,1-Trichloroethane	ND	5.6	0.92	ug/kg	
79-01-6	Trichloroethene	ND	5.6	1.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.6	3.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.6	0.94	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.6	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	1.2	ug/kg	
1330-20-7	Xylene (total)	ND	2.3	1.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-124%
17060-07-0	1,2-Dichloroethane-D4	83%		62-130%
2037-26-5	Toluene-D8	93%		75-125%
460-00-4	4-Bromofluorobenzene	97%		67-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC3		
Lab Sample ID:	N29654-3	**Date Sampled:**	12/27/02
Matrix:	SO - Soil	**Date Received:**	12/31/02
Method:	SW846 8260B	**Percent Solids:**	88.9
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G55331.D	1	01/01/03	SJM	n/a	n/a	VG3062
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	5.5	ug/kg	
71-43-2	Benzene	ND	1.1	0.64	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	3.8	ug/kg	
104-51-8	n-Butylbenzene	ND	5.5	1.1	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.5	1.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.5	1.1	ug/kg	
75-15-0	Carbon disulfide	ND	5.5	0.86	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.5	0.95	ug/kg	
108-90-7	Chlorobenzene	ND	5.5	0.80	ug/kg	
75-00-3	Chloroethane	ND	5.5	2.4	ug/kg	
67-66-3	Chloroform	ND	5.5	0.91	ug/kg	
124-48-1	Dibromochloromethane	ND	5.5	2.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.2	0.50	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.2	0.76	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.2	0.67	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.5	0.86	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.5	0.82	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.5	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.5	1.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.5	0.54	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	1.1	ug/kg	
76-13-1	**Freon 113**	ND	5.5	0.88	ug/kg	
98-82-8	Isopropylbenzene	ND	5.5	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.5	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.37	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.5	2.8	ug/kg	
75-09-2	Methylene chloride	ND	5.5	5.2	ug/kg	
103-65-1	n-Propylbenzene	ND	5.5	0.94	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	2.2	ug/kg	
127-18-4	Tetrachloroethene	ND	5.5	1.1	ug/kg	
108-88-3	Toluene	ND	1.1	0.84	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.5	0.81	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC3		
Lab Sample ID:	N29654-3	**Date Sampled:**	12/27/02
Matrix:	SO - Soil	**Date Received:**	12/31/02
Method:	SW846 8260B	**Percent Solids:**	88.9
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-55-6	1,1,1-Trichloroethane	ND	5.5	0.90	ug/kg	
79-01-6	Trichloroethene	ND	5.5	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.5	3.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.5	0.91	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.5	0.99	ug/kg	
75-01-4	Vinyl chloride	ND	5.5	1.2	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-124%
17060-07-0	1,2-Dichloroethane-D4	76%		62-130%
2037-26-5	Toluene-D8	95%		75-125%
460-00-4	4-Bromofluorobenzene	98%		67-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC4		
Lab Sample ID:	N29654-4	**Date Sampled:**	12/27/02
Matrix:	SO - Soil	**Date Received:**	12/31/02
Method:	SW846 8260B	**Percent Solids:**	71.0
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G55332.D	1	01/01/03	SJM	n/a	n/a	VG3062
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	14	7.0	ug/kg	
71-43-2	Benzene	ND	1.4	0.81	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	4.8	ug/kg	
104-51-8	n-Butylbenzene	ND	7.0	1.5	ug/kg	
135-98-8	sec-Butylbenzene	ND	7.0	1.4	ug/kg	
98-06-6	tert-Butylbenzene	ND	7.0	1.4	ug/kg	
75-15-0	Carbon disulfide	ND	7.0	1.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	7.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	7.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	7.0	3.1	ug/kg	
67-66-3	Chloroform	ND	7.0	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	7.0	2.8	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.8	0.64	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.8	0.97	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.8	0.85	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.0	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	7.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethene	ND	7.0	1.4	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	7.0	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	7.0	0.69	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	1.4	ug/kg	
76-13-1	**Freon 113**	ND	7.0	1.1	ug/kg	
98-82-8	Isopropylbenzene	ND	7.0	1.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	7.0	1.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	7.3	1.4	0.47	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.0	3.6	ug/kg	
75-09-2	Methylene chloride	ND	7.0	6.7	ug/kg	
103-65-1	n-Propylbenzene	ND	7.0	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.0	2.8	ug/kg	
127-18-4	Tetrachloroethene	ND	7.0	1.4	ug/kg	
108-88-3	Toluene	ND	1.4	1.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.0	1.0	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC4		
Lab Sample ID:	N29654-4	**Date Sampled:**	12/27/02
Matrix:	SO - Soil	**Date Received:**	12/31/02
Method:	SW846 8260B	**Percent Solids:**	71.0
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-55-6	1,1,1-Trichloroethane	ND	7.0	1.2	ug/kg	
79-01-6	Trichloroethene	ND	7.0	1.3	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	7.0	4.3	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	7.0	1.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	7.0	1.3	ug/kg	
75-01-4	Vinyl chloride	ND	7.0	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	2.8	1.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-124%
17060-07-0	1,2-Dichloroethane-D4	73%		62-130%
2037-26-5	Toluene-D8	96%		75-125%
460-00-4	4-Bromofluorobenzene	97%		67-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC5		
Lab Sample ID:	N29654-5	**Date Sampled:**	12/27/02
Matrix:	SO - Soil	**Date Received:**	12/31/02
Method:	SW846 8260B	**Percent Solids:**	73.4
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G55333.D	1	01/01/03	SJM	n/a	n/a	VG3062
Run #2							

	Initial Weight
Run #1	4.6 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	15	7.4	ug/kg	
71-43-2	Benzene	ND	1.5	0.86	ug/kg	
78-93-3	2-Butanone (MEK)	ND	15	5.1	ug/kg	
104-51-8	n-Butylbenzene	ND	7.4	1.5	ug/kg	
135-98-8	sec-Butylbenzene	ND	7.4	1.5	ug/kg	
98-06-6	tert-Butylbenzene	ND	7.4	1.5	ug/kg	
75-15-0	Carbon disulfide	ND	7.4	1.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	7.4	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	7.4	1.1	ug/kg	
75-00-3	Chloroethane	ND	7.4	3.2	ug/kg	
67-66-3	Chloroform	ND	7.4	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	7.4	3.0	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.0	0.67	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.0	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3.0	0.90	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.4	1.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	7.4	1.1	ug/kg	
75-35-4	1,1-Dichloroethene	ND	7.4	1.5	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	7.4	1.4	ug/kg	
142-28-9	1,3-Dichloropropane	ND	7.4	0.72	ug/kg	
100-41-4	Ethylbenzene	ND	1.5	1.4	ug/kg	
76-13-1	**Freon 113**	ND	7.4	1.2	ug/kg	
98-82-8	Isopropylbenzene	ND	7.4	1.5	ug/kg	
99-87-6	p-Isopropyltoluene	ND	7.4	1.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.5	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.4	3.8	ug/kg	
75-09-2	Methylene chloride	ND	7.4	7.0	ug/kg	
103-65-1	n-Propylbenzene	ND	7.4	1.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.4	3.0	ug/kg	
127-18-4	Tetrachloroethene	ND	7.4	1.5	ug/kg	
108-88-3	Toluene	ND	1.5	1.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.4	1.1	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC5		
Lab Sample ID:	N29654-5	**Date Sampled:**	12/27/02
Matrix:	SO - Soil	**Date Received:**	12/31/02
Method:	SW846 8260B	**Percent Solids:**	73.4
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-55-6	1,1,1-Trichloroethane	ND	7.4	1.2	ug/kg	
79-01-6	Trichloroethene	ND	7.4	1.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	7.4	4.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	7.4	1.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	7.4	1.3	ug/kg	
75-01-4	Vinyl chloride	ND	7.4	1.6	ug/kg	
1330-20-7	Xylene (total)	ND	3.0	1.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-124%
17060-07-0	1,2-Dichloroethane-D4	78%		62-130%
2037-26-5	Toluene-D8	95%		75-125%
460-00-4	4-Bromofluorobenzene	96%		67-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC6		
Lab Sample ID:	N29654-6	**Date Sampled:**	12/27/02
Matrix:	SO - Soil	**Date Received:**	12/31/02
Method:	SW846 8260B	**Percent Solids:**	84.8
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G55358.D	1	01/02/03	SJM	n/a	n/a	VG3063
Run #2							

	Initial Weight
Run #1	4.6 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	6.4	ug/kg	
71-43-2	Benzene	ND	1.3	0.74	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	4.4	ug/kg	
104-51-8	n-Butylbenzene	ND	6.4	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.4	1.3	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.4	1.3	ug/kg	
75-15-0	Carbon disulfide	ND	6.4	1.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.4	1.1	ug/kg	
108-90-7	Chlorobenzene	ND	6.4	0.93	ug/kg	
75-00-3	Chloroethane	ND	6.4	2.8	ug/kg	
67-66-3	Chloroform	ND	6.4	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.4	2.6	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.6	0.58	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.6	0.88	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.6	0.78	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.4	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.4	0.96	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.4	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.4	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.4	0.62	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	1.2	ug/kg	
76-13-1	**Freon 113**	ND	6.4	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	6.4	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.4	1.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.43	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.4	3.3	ug/kg	
75-09-2	Methylene chloride	ND	6.4	6.1	ug/kg	
103-65-1	n-Propylbenzene	ND	6.4	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.4	2.6	ug/kg	
127-18-4	Tetrachloroethene	ND	6.4	1.3	ug/kg	
108-88-3	Toluene	ND	1.3	0.98	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.4	0.95	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC6		
Lab Sample ID:	N29654-6	**Date Sampled:**	12/27/02
Matrix:	SO - Soil	**Date Received:**	12/31/02
Method:	SW846 8260B	**Percent Solids:**	84.8
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-55-6	1,1,1-Trichloroethane	ND	6.4	1.0	ug/kg	
79-01-6	Trichloroethene	ND	6.4	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.4	3.9	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.4	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.4	1.1	ug/kg	
75-01-4	Vinyl chloride	ND	6.4	1.4	ug/kg	
1330-20-7	Xylene (total)	ND	2.6	1.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		70-124%
17060-07-0	1,2-Dichloroethane-D4	72%		62-130%
2037-26-5	Toluene-D8	95%		75-125%
460-00-4	4-Bromofluorobenzene	89%		67-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC7		
Lab Sample ID:	N29654-7	**Date Sampled:**	12/27/02
Matrix:	SO - Soil	**Date Received:**	12/31/02
Method:	SW846 8260B	**Percent Solids:**	72.8
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G55359.D	1	01/02/03	SJM	n/a	n/a	VG3063
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	14	6.9	ug/kg	
71-43-2	Benzene	ND	1.4	0.79	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	4.7	ug/kg	
104-51-8	n-Butylbenzene	ND	6.9	1.4	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.9	1.4	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.9	1.4	ug/kg	
75-15-0	Carbon disulfide	ND	6.9	1.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.9	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	6.9	1.0	ug/kg	
75-00-3	Chloroethane	ND	6.9	3.0	ug/kg	
67-66-3	Chloroform	ND	6.9	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.9	2.7	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.7	0.62	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.7	0.95	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.7	0.83	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.9	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.9	1.0	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.9	1.4	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.9	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.9	0.67	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	1.3	ug/kg	
76-13-1	**Freon 113**	ND	6.9	1.1	ug/kg	
98-82-8	Isopropylbenzene	ND	6.9	1.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.9	1.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.46	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.9	3.5	ug/kg	
75-09-2	Methylene chloride	ND	6.9	6.5	ug/kg	
103-65-1	n-Propylbenzene	ND	6.9	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.9	2.7	ug/kg	
127-18-4	Tetrachloroethene	ND	6.9	1.4	ug/kg	
108-88-3	Toluene	ND	1.4	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.9	1.0	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC7		
Lab Sample ID:	N29654-7	**Date Sampled:**	12/27/02
Matrix:	SO - Soil	**Date Received:**	12/31/02
Method:	SW846 8260B	**Percent Solids:**	72.8
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-55-6	1,1,1-Trichloroethane	ND	6.9	1.1	ug/kg	
79-01-6	Trichloroethene	ND	6.9	1.3	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.9	4.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.9	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.9	1.2	ug/kg	
75-01-4	Vinyl chloride	ND	6.9	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	2.7	1.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-124%
17060-07-0	1,2-Dichloroethane-D4	76%		62-130%
2037-26-5	Toluene-D8	96%		75-125%
460-00-4	4-Bromofluorobenzene	91%		67-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC8		
Lab Sample ID:	N29654-8	**Date Sampled:**	12/27/02
Matrix:	SO - Soil	**Date Received:**	12/31/02
Method:	SW846 8260B	**Percent Solids:**	85.2
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G55363.D	1	01/02/03	SJM	n/a	n/a	VG3063
Run #2							

	Initial Weight
Run #1	4.6 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	6.4	ug/kg	
71-43-2	Benzene	ND	1.3	0.74	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	4.4	ug/kg	
104-51-8	n-Butylbenzene	ND	6.4	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.4	1.3	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.4	1.3	ug/kg	
75-15-0	Carbon disulfide	ND	6.4	1.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.4	1.1	ug/kg	
108-90-7	Chlorobenzene	ND	6.4	0.92	ug/kg	
75-00-3	Chloroethane	ND	6.4	2.8	ug/kg	
67-66-3	Chloroform	ND	6.4	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	6.4	2.6	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.6	0.58	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.6	0.88	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.6	0.77	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.4	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.4	0.95	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.4	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.4	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.4	0.62	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	1.2	ug/kg	
76-13-1	**Freon 113**	ND	6.4	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	6.4	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.4	1.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.43	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.4	3.3	ug/kg	
75-09-2	Methylene chloride	ND	6.4	6.0	ug/kg	
103-65-1	n-Propylbenzene	ND	6.4	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.4	2.6	ug/kg	
127-18-4	Tetrachloroethene	ND	6.4	1.3	ug/kg	
108-88-3	Toluene	ND	1.3	0.97	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.4	0.94	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-RWP-VOC8		
Lab Sample ID:	N29654-8	**Date Sampled:**	12/27/02
Matrix:	SO - Soil	**Date Received:**	12/31/02
Method:	SW846 8260B	**Percent Solids:**	85.2
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-55-6	1,1,1-Trichloroethane	ND	6.4	1.0	ug/kg	
79-01-6	Trichloroethene	ND	6.4	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.4	3.9	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.4	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.4	1.1	ug/kg	
75-01-4	Vinyl chloride	ND	6.4	1.4	ug/kg	
1330-20-7	Xylene (total)	ND	2.6	1.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		70-124%
17060-07-0	1,2-Dichloroethane-D4	75%		62-130%
2037-26-5	Toluene-D8	96%		75-125%
460-00-4	4-Bromofluorobenzene	88%		67-141%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

QC Nonconformance Documentation

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: N29654
Account: TRCNJ TRC Environmental Corporation, NJ
Project: First Avenue Properties, Parking Lot East 39th Street, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
N29654-7MS	G55360.D	1	01/02/03	SJM	n/a	n/a	VG3063
N29654-7MSD	G55361.D	1	01/02/03	SJM	n/a	n/a	VG3063
N29654-7	G55359.D	1	01/02/03	SJM	n/a	n/a	VG3063

The QC reported here applies to the following samples: **Method:** SW846 8260B

N29654-6, N29654-7, N29654-8

CAS No.	Compound	N29654-7 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		68.7	148	215* [a]	161	234* [a]	8	29-170/39
71-43-2	Benzene	ND		68.7	58.4	85	60.1	88	3	50-140/21
78-93-3	2-Butanone (MEK)	ND		68.7	111	162* [a]	124	181* [a]	11	38-158/36
104-51-8	n-Butylbenzene	ND		68.7	50.5	74	52.5	76	4	45-148/27
135-98-8	sec-Butylbenzene	ND		68.7	49.2	72	51.4	75	4	40-149/25
98-06-6	tert-Butylbenzene	ND		68.7	52.0	76	54.6	79	5	45-143/24
75-15-0	Carbon disulfide	ND		68.7	57.3	83	60.2	88	5	41-138/25
56-23-5	Carbon tetrachloride	ND		68.7	53.9	78	53.9	78	0	51-140/22
108-90-7	Chlorobenzene	ND		68.7	57.3	83	60.7	88	6	56-138/22
75-00-3	Chloroethane	ND		68.7	60.4	88	64.2	93	6	42-135/26
67-66-3	Chloroform	ND		68.7	57.0	83	59.3	86	4	58-133/20
124-48-1	Dibromochloromethane	ND		68.7	57.9	84	61.1	89	5	53-141/23
95-50-1	1,2-Dichlorobenzene	ND		68.7	55.3	81	56.9	83	3	46-142/26
541-73-1	1,3-Dichlorobenzene	ND		68.7	54.9	80	57.4	84	4	44-145/27
106-46-7	1,4-Dichlorobenzene	ND		68.7	53.6	78	56.5	82	5	42-145/28
75-34-3	1,1-Dichloroethane	ND		68.7	61.0	89	64.0	93	5	57-137/20
107-06-2	1,2-Dichloroethane	ND		68.7	60.8	89	63.5	92	4	53-137/21
75-35-4	1,1-Dichloroethene	ND		68.7	54.2	79	57.0	83	5	52-132/24
156-60-5	trans-1,2-Dichloroethene	ND		68.7	56.8	83	58.8	86	3	52-139/23
142-28-9	1,3-Dichloropropane	ND		68.7	59.7	87	62.7	91	5	58-137/23
100-41-4	Ethylbenzene	ND		68.7	54.4	79	56.6	82	4	53-140/24
76-13-1	Freon 113	ND		68.7	49.3	72	50.9	74	3	43-134/25
98-82-8	Isopropylbenzene	ND		68.7	54.5	79	56.7	83	4	53-140/23
99-87-6	p-Isopropyltoluene	ND		68.7	50.2	73	52.2	76	4	42-148/25
1634-04-4	Methyl Tert Butyl Ether	ND		68.7	64.8	94	67.9	99	5	56-136/20
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		68.7	67.6	98	71.0	103	5	55-144/25
75-09-2	Methylene chloride	ND		68.7	58.9	86	63.6	93	8	53-135/22
103-65-1	n-Propylbenzene	ND		68.7	51.1	74	53.5	78	5	47-144/25
79-34-5	1,1,2,2-Tetrachloroethane	ND		68.7	56.0	82	58.4	85	4	44-138/28
127-18-4	Tetrachloroethene	ND		68.7	59.5	87	63.6	93	7	40-159/33
108-88-3	Toluene	ND		68.7	57.1	83	59.0	86	3	48-143/20
120-82-1	1,2,4-Trichlorobenzene	ND		68.7	60.9	89	59.1	86	3	41-148/31
71-55-6	1,1,1-Trichloroethane	ND		68.7	54.0	79	55.1	80	2	53-137/21
79-01-6	Trichloroethene	ND		68.7	54.3	79	56.6	82	4	49-148/22
96-18-4	1,2,3-Trichloropropane	ND		68.7	64.9	94	69.2	101	6	46-139/30
95-63-6	1,2,4-Trimethylbenzene	ND		68.7	52.1	76	54.1	79	4	41-150/28

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: N29654
Account: TRCNJ TRC Environmental Corporation, NJ
Project: First Avenue Properties, Parking Lot East 39th Street, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
N29654-7MS	G55360.D	1	01/02/03	SJM	n/a	n/a	VG3063
N29654-7MSD	G55361.D	1	01/02/03	SJM	n/a	n/a	VG3063
N29654-7	G55359.D	1	01/02/03	SJM	n/a	n/a	VG3063

The QC reported here applies to the following samples: **Method:** SW846 8260B

N29654-6, N29654-7, N29654-8

CAS No.	Compound	N29654-7 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-67-8	1,3,5-Trimethylbenzene	ND		68.7	51.5	75	52.9	77	3	40-148/26
75-01-4	Vinyl chloride	ND		68.7	56.2	82	58.0	84	3	46-135/24
1330-20-7	Xylene (total)	ND		206	167	81	176	85	5	51-144/23

CAS No.	Surrogate Recoveries	MS	MSD	N29654-7	Limits
1868-53-7	Dibromofluoromethane	91%	90%	87%	70-124%
17060-07-0	1,2-Dichloroethane-D4	90%	90%	76%	62-130%
2037-26-5	Toluene-D8	96%	94%	96%	75-125%
460-00-4	4-Bromofluorobenzene	86%	84%	91%	67-141%

(a) Outside control limits due to matrix interference.

Data Usability Summary Report

Site:	First Avenue Properties, Parking Lot
Laboratory:	Accutest, Dayton, NJ
Case No.:	N17432
Reviewer:	Elizabeth Denly/TRC Environmental Corporation
Date:	August 8, 2002

Samples Reviewed and Evaluation Summary

VOC:	9/Groundwater/	MW-1R, MW-2R, MW-3R, MW-33R, MW-3S, MW-4R, MW-5R, MW-6R, MW-7R (Groundwater field duplicate pair: MW-3R/MW-33R)
	1/Trip Blank/	Trip Blank
	1/Field Blank/	FB-6/28/02

The above listed samples were analyzed for benzene, toluene, ethyl benzene, xylenes (BTEX), and methyl t-butylether (MTBE) by SW-846 method 8260B. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008* (October 1999), modified as necessary to accommodate the non-CLP methodology used, the project specific QC criteria detailed in the Quality Assurance Project Plan (QAPP), and Region II validation actions.

The organic data were evaluated based on the following parameters:

	• Overall Evaluation of Data and Potential Usability Issues
*	• Data Completeness
*	• Holding Times and Sample Preservation
*	• Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
*	• Initial and Continuing Calibrations
	• Blanks
*	• Surrogate Recoveries
	• Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
*	• Internal Standards
*	• Laboratory Control Sample (LCS) Results
*	• Field Duplicate Results
	• Sample Quantitation and Reported Quantitation Limits
*	• Target Compound Identification

* - All criteria were met.

Overall Evaluation of Data and Potential Usability Issues

Qualifications of the data as a result of sampling error are discussed below.

> The positive result for methyl t-butylether (MTBE) in sample MW-7R was qualified as a nondetect (U) at the reported concentration due to field blank contamination. This result can be used for project objectives with an elevated quantitation limit which may have a minor impact on the data usability.

Qualifications applied to the data as a result of analytical error are discussed below.

> Potential uncertainty exists for select results which were below the lowest calibration standard and quantitation limit. These results were qualified as estimated (J) in the associated samples by the laboratory. These results can be used for project objectives as estimated values which may have a minor impact on the data usability.

All results are usable for project objectives.

The validation recommendations listed above were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP Category B deliverables.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All criteria were met.

Blanks

Target analytes were not detected in the laboratory method blanks or the trip blank.

The following table summarizes the field blank contamination.

Compound	Type of Blank	Concentration (ug/L)	Blank Action Level (ug/L)	QL (ug/L)	Affected Samples
MTBE	Field blank	12.9	64.5	1.0	MW-7R

QL - Quantitation Limit

Blank Actions

If the sample concentration ≤ QL and ≤ blank action level, qualify the result as not detected (U) at the QL.
If the sample concentration > QL and ≤ blank action level, qualify the result as not detected (U) at the reported value.
If the sample concentration > blank action level, report the value unqualified.

The positive result for MTBE in sample MW-7R was qualified as a nondetect (U) at the reported concentration due to field blank contamination.

Surrogate Recoveries

All criteria were met.

MS/MSD Results

MS/MSD analyses were performed on samples MW-2R and MW-4R. The recoveries and relative percent differences (RPDs) of all target analytes were within the acceptance criteria in the MS/MSD performed on sample MW-2R. The following table summarizes the recoveries and/or RPDs which were outside of the acceptance criteria in the MS/MSD performed on sample MW-4R. Qualification of the data on the basis of these MS/MSD nonconformances was not required.

Compound	MSD %Recovery	RPD	QC Limits
MTBE	44	-	48-139
Benzene	-	18	10
Ethyl benzene	-	17	11
Toluene	-	15	11
Xylene (total)	-	16	11

Internal Standards

All criteria were met.

LCS Results

All criteria were met.

Field Duplicate Results

Samples MW-3R and MW-33R were submitted as the field duplicate pair with this sample set. The following table summarizes the RPDs of the detected analytes, all of which were within the acceptance criteria.

Compound	MW-3R (ug/L)	MW-33R (ug/L)	RPD (%)
Benzene	69.8	66.1	5.4
Toluene	73.7	72.2	2.0
Ethyl benzene	68.6	61.7	10.6
Xylenes (total)	349	322	8.0
MTBE	1200	1060	12.4

Sample Quantitation and Reported Quantitation Limits

Sample calculations were spot-checked; there were no errors noted.

Results were reported which were below the lowest calibration standard level and quantitation limit. These results were qualified as estimated (J) by the laboratory; in all cases these results were greater than the method detection limit.

Due to levels of target analytes which would have exceeded the calibration range if analyzed undiluted, the following samples were initially analyzed on dilution: MW-1R (500-fold), MW-2R (10-fold), MW-4R (50-fold), MW-5R (100-fold), and MW-6R (50-fold). Quantitation limits were not adversely affected as all analytes were detected in these samples.

Samples MW-3S (5-fold), MW-3R (5-fold) , MW-33R (5-fold), MW-4R (100-fold), and MW-5R (200-fold) were analyzed at an additional dilution due to the concentrations of select target analytes which exceeded the calibration range in the initial diluted or undiluted analysis. The laboratory combined the results of both analyses in order to report the lowest possible quantitation limits and all results within the calibration range.

Target Compound Identification

All criteria were met.

Qualified Form Is

Report of Analysis

Client Sample ID:	FB-6/28/02		
Lab Sample ID:	N17432-1	**Date Sampled:**	06/28/02
Matrix:	AQ - Field Blank Water	**Date Received:**	07/02/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58312.D	1	07/09/02	MKP	n/a	n/a	VO2835
Run #2							

	Purge Volume
Run #1	1.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	12.9	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		69-127%
2037-26-5	Toluene-D8	94%		82-119%
460-00-4	4-Bromofluorobenzene	96%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3S		
Lab Sample ID:	N17432-2	**Date Sampled:**	06/28/02
Matrix:	AQ - Ground Water	**Date Received:**	07/02/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58313.D	1	07/09/02	MKP	n/a	n/a	VO2835
Run #2	O58329.D	5	07/09/02	MKP	n/a	n/a	VO2834

	Purge Volume
Run #1	1.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	4.9	1.0	ug/l	
108-88-3	Toluene	5.9	1.0	ug/l	
100-41-4	Ethylbenzene	2.0	1.0	ug/l	
1330-20-7	Xylene (total)	17.2	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1720 [a]	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	103%	69-127%
2037-26-5	Toluene-D8	93%	101%	82-119%
460-00-4	4-Bromofluorobenzene	102%	102%	81-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3R		
Lab Sample ID:	N17432-3	**Date Sampled:**	06/28/02
Matrix:	AQ - Ground Water	**Date Received:**	07/02/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58314.D	1	07/09/02	MKP	n/a	n/a	VO2835
Run #2	O58333.D	5	07/09/02	MKP	n/a	n/a	VO2836

	Purge Volume
Run #1	1.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	69.8	1.0	ug/l	
108-88-3	Toluene	73.7	1.0	ug/l	
100-41-4	Ethylbenzene	68.6	1.0	ug/l	
1330-20-7	Xylene (total)	349	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1200 [a]	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	101%	69-127%
2037-26-5	Toluene-D8	92%	92%	82-119%
460-00-4	4-Bromofluorobenzene	96%	101%	81-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-33R		
Lab Sample ID:	N17432-4	**Date Sampled:**	06/28/02
Matrix:	AQ - Ground Water	**Date Received:**	07/02/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58334.D	1	07/09/02	MKP	n/a	n/a	VO2836
Run #2	O58371.D	5	07/10/02	MKP	n/a	n/a	VO2837

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	66.1	1.0	ug/l	
108-88-3	Toluene	72.2	1.0	ug/l	
100-41-4	Ethylbenzene	61.7	1.0	ug/l	
1330-20-7	Xylene (total)	322	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1060 [a]	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	100%	69-127%
2037-26-5	Toluene-D8	99%	97%	82-119%
460-00-4	4-Bromofluorobenzene	101%	102%	81-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R		
Lab Sample ID:	N17432-5	**Date Sampled:**	06/28/02
Matrix:	AQ - Ground Water	**Date Received:**	07/02/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58335.D	500	07/09/02	MKP	n/a	n/a	VO2836
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	8740	500	ug/l	
108-88-3	Toluene	18400	500	ug/l	
100-41-4	Ethylbenzene	2140	500	ug/l	
1330-20-7	Xylene (total)	13700	500	ug/l	
1634-04-4	Methyl Tert Butyl Ether	136000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		69-127%
2037-26-5	Toluene-D8	97%		82-119%
460-00-4	4-Bromofluorobenzene	97%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4R		
Lab Sample ID:	N17432-6	**Date Sampled:**	06/28/02
Matrix:	AQ - Ground Water	**Date Received:**	07/02/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58301.D	50	07/09/02	MKP	n/a	n/a	VO2835
Run #2	O58323.D	100	07/09/02	MKP	n/a	n/a	VO2834

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	115	50	ug/l	
108-88-3	Toluene	42.2	50	ug/l	J
100-41-4	Ethylbenzene	33.6	50	ug/l	J
1330-20-7	Xylene (total)	106	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	31300 [a]	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	93%	98%	69-127%
2037-26-5	Toluene-D8	98%	97%	82-119%
460-00-4	4-Bromofluorobenzene	100%	100%	81-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5R		
Lab Sample ID:	N17432-7	**Date Sampled:**	06/28/02
Matrix:	AQ - Ground Water	**Date Received:**	07/02/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58336.D	100	07/09/02	MKP	n/a	n/a	VO2836
Run #2	O58372.D	200	07/10/02	MKP	n/a	n/a	VO2837

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	3530	100	ug/l	
108-88-3	Toluene	3210	100	ug/l	
100-41-4	Ethylbenzene	1730	100	ug/l	
1330-20-7	Xylene (total)	20500	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	43700 [a]	200	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	99%	69-127%
2037-26-5	Toluene-D8	92%	98%	82-119%
460-00-4	4-Bromofluorobenzene	100%	102%	81-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6R		
Lab Sample ID:	N17432-8	**Date Sampled:**	06/28/02
Matrix:	AQ - Ground Water	**Date Received:**	07/02/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58337.D	50	07/09/02	MKP	n/a	n/a	VO2836
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	2190	50	ug/l	
108-88-3	Toluene	6300	50	ug/l	
100-41-4	Ethylbenzene	2630	50	ug/l	
1330-20-7	Xylene (total)	15400	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	9210	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		69-127%
2037-26-5	Toluene-D8	96%		82-119%
460-00-4	4-Bromofluorobenzene	103%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2R		
Lab Sample ID:	N17432-9	**Date Sampled:**	06/28/02
Matrix:	AQ - Ground Water	**Date Received:**	07/02/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58320.D	10	07/09/02	MKP	n/a	n/a	VO2834
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	38.6	10	ug/l	
108-88-3	Toluene	38.1	10	ug/l	
100-41-4	Ethylbenzene	163	10	ug/l	
1330-20-7	Xylene (total)	705	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2580	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		69-127%
2037-26-5	Toluene-D8	101%		82-119%
460-00-4	4-Bromofluorobenzene	100%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7R		
Lab Sample ID:	N17432-10	**Date Sampled:**	06/28/02
Matrix:	AQ - Ground Water	**Date Received:**	07/02/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58338.D	1	07/09/02	MKP	n/a	n/a	VO2836
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	6.1	1.0	ug/l	
100-41-4	Ethylbenzene	6.2	1.0	ug/l	
1330-20-7	Xylene (total)	32.5	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.6	1.0	ug/l	U

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		69-127%
2037-26-5	Toluene-D8	95%		82-119%
460-00-4	4-Bromofluorobenzene	99%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	N17432-11	**Date Sampled:**	06/28/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/02/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O58339.D	1	07/09/02	MKP	n/a	n/a	VO2836
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	92%		69-127%
2037-26-5	Toluene-D8	91%		82-119%
460-00-4	4-Bromofluorobenzene	96%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

QC Nonconformance Documentation

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: N17432
Account: TRCNJ TRC Environmental Corporation, NJ
Project: First Avenue Properties, Parking Lot East 39th Street, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
N17432-6MS	O58302.D	50	07/09/02	MKP	n/a	n/a	VO2835
N17432-6MSD	O58303.D	50	07/09/02	MKP	n/a	n/a	VO2835
N17432-6	O58301.D	50	07/09/02	MKP	n/a	n/a	VO2835

The QC reported here applies to the following samples: **Method:** SW846 8260B

N17432-1, N17432-2, N17432-3, N17432-6

CAS No.	Compound	N17432-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	115		2500	2740	105	2280	87	18* [a]	61-135/10
100-41-4	Ethylbenzene	33.6	J	2500	2710	107	2290	90	17* [a]	63-139/11
1634-04-4	Methyl Tert Butyl Ether	25600		2500	28400	112	26700	44* [b]	6	48-139/10
108-88-3	Toluene	42.2	J	2500	2690	106	2320	91	15* [a]	61-138/11
1330-20-7	Xylene (total)	106		7500	8210	108	6980	92	16* [a]	62-139/11

CAS No.	Surrogate Recoveries	MS	MSD	N17432-6	Limits
1868-53-7	Dibromofluoromethane	94%	90%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	93%	93%	69-127%
2037-26-5	Toluene-D8	99%	97%	98%	82-119%
460-00-4	4-Bromofluorobenzene	93%	93%	100%	81-121%

(a) Outside control limits.
(b) Outside control limits due to high level in sample relative to spike amount.

Data Usability Summary Report

Site: First Avenue Properties, Parking Lot
Laboratory: Accutest, Dayton, NJ
Case No.: N24437
Reviewer: Lorie MacKinnon/TRC Environmental Corporation
Date: November 14, 2002

Samples Reviewed and Evaluation Summary

VOC:	9/Groundwater/	PL-MW-3R, PL-MW-33R, PL-MW-3S, PL-MW-2R, PL-MW-5R, PL-MW-4R, PL-MW-7R, PL-MW-1R, PL-MW-6R
	1/Field Blank/	PL-FB-10/10/02
	1/Trip Blank/	Trip Blank

The above-listed samples were analyzed for site-specific volatile organic compounds (VOCs) by SW-846 method 8260B. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008* (October 1999), modified as necessary to accommodate the non-CLP methodology used, the project specific QC criteria detailed in the Quality Assurance Project Plan (QAPP), and Region II validation actions.

The organic data were evaluated based on the following parameters:

	•	Overall Evaluation of Data and Potential Usability Issues
*	•	Data Completeness
*	•	Holding Times and Sample Preservation
*	•	Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
*	•	Initial and Continuing Calibrations
	•	Blanks
*	•	Surrogate Recoveries
*	•	Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
*	•	Internal Standards
*	•	Laboratory Control Sample (LCS) Results
*	•	Field Duplicate Results
	•	Sample Quantitation and Reported Quantitation Limits
*	•	Target Compound Identification

* - All criteria were met.

Overall Evaluation of Data and Potential Usability Issues

Qualifications applied to the data as a result of sampling error are discussed below.

- The positive result for methyl tert butyl ether in sample PL-MW-7R was qualified as nondetect (U) at the reported value due to field blank contamination. This result can be used for project objectives with an elevated quantitation limit which may have a minor impact on the data usability.

Qualification of the data as a result of analytical error was not required.

All results are usable for project objectives.

The validation recommendation listed above was based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP Category B deliverables.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All criteria were met.

Blanks

Target analytes were not detected in the laboratory method blanks or the trip blank.

The following table summarizes the field blank contamination associated with the VOC analysis.

Compound	Type of Blank	Concentration (ug/L)	Blank Action Level (ug/L)	QL (ug/L)	Affected Samples
Methyl tert butyl ether	Field blank	3.1	15.5	1.0	PL-MW-7R

QL - Quantitation Limit

Blank Actions

If the sample concentration ≤ QL and ≤ blank action level, qualify the result as not detected (U) at the QL.
If the sample concentration > QL and ≤ blank action level, qualify the result as not detected (U) at the reported value.
If the sample concentration > blank action level, report the value unqualified.

The positive result for methyl tert butyl ether in sample PL-MW-7R was qualified as a nondetect (U) at the reported value due to contamination detected in the field blank.

Surrogate Recoveries

All criteria were met.

MS/MSD Results

Sample PL-MW-3S was designated for MS/MSD analyses with this sample set. The percent recoveries of methyl tert butyl ether (45/46) were outside of the control limits in the MS/MSD performed on sample PL-MW-3S; however, the concentration detected in the unspiked sample was greater than four times the spiking level. Qualification of the data on the basis of these MS/MSD nonconformances is not required.

Internal Standards

All criteria were met.

LCS Results

All criteria were met.

Field Duplicate Results

Samples PL-MW-3R and PL-MW-33R were submitted as the field duplicate pair with this sample set. The following table summarizes the relative percent differences (RPDs) of the detected analytes, all of which were within the acceptance criteria.

Compound	PL-MW-3R (µg/L)	PL-MW-33R (µg/L)	RPD (%)
Benzene	30.3	26.9	11.9
Toluene	57.1	57.9	1.4
Ethyl benzene	82.6	78.6	5.0
Xylene	482	493	2.2
Methyl tert butyl ether	4330	4160	4.0

First Avenue, Parking Lot N24437

Sample Quantitation and Reported Quantitation Limits

Sample calculations were spot-checked; there were no errors noted.

Due to levels of target analytes which would have exceeded the calibration range if analyzed undiluted., the following dilutions were performed. Quantitation limits were elevated accordingly by the laboratory.

Sample	Dilution performed
PL-MW-3R	20-fold
PL-MW-33R	20-fold
PL-MW-3S	20-fold
PL-MW-2R	10-fold
PL-MW-5R	100-fold
PL-MW-4R	50-fold
PL-MW-1R	250-fold
PL-MW-6R	20-fold

Target Compound Identification

All criteria were met.

Qualified Form Is

Report of Analysis

Client Sample ID:	PL-MW-3R		
Lab Sample ID:	N24437-1	**Date Sampled:**	10/09/02
Matrix:	AQ - Ground Water	**Date Received:**	10/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J78395.D	20	10/18/02	XC	n/a	n/a	VJ2674
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	30.3	20	ug/l	
108-88-3	Toluene	57.1	20	ug/l	
100-41-4	Ethylbenzene	82.6	20	ug/l	
1330-20-7	Xylene (total)	482	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4330	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		69-127%
2037-26-5	Toluene-D8	96%		82-119%
460-00-4	4-Bromofluorobenzene	108%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-33R		
Lab Sample ID:	N24437-2	**Date Sampled:**	10/09/02
Matrix:	AQ - Ground Water	**Date Received:**	10/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J78396.D	20	10/18/02	XC	n/a	n/a	VJ2674
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	26.9	20	ug/l	
108-88-3	Toluene	57.9	20	ug/l	
100-41-4	Ethylbenzene	78.6	20	ug/l	
1330-20-7	Xylene (total)	493	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4160	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		69-127%
2037-26-5	Toluene-D8	93%		82-119%
460-00-4	4-Bromofluorobenzene	109%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-3S		
Lab Sample ID:	N24437-3	**Date Sampled:**	10/08/02
Matrix:	AQ - Ground Water	**Date Received:**	10/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J78397.D	20	10/18/02	XC	n/a	n/a	VJ2674
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	20	ug/l	
108-88-3	Toluene	27.7	20	ug/l	
100-41-4	Ethylbenzene	ND	20	ug/l	
1330-20-7	Xylene (total)	73.4	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	6660	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		69-127%
2037-26-5	Toluene-D8	96%		82-119%
460-00-4	4-Bromofluorobenzene	112%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-2R		
Lab Sample ID:	N24437-4	**Date Sampled:**	10/09/02
Matrix:	AQ - Ground Water	**Date Received:**	10/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154974.D	10	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	31.8	10	ug/l	
108-88-3	Toluene	25.4	10	ug/l	
100-41-4	Ethylbenzene	111	10	ug/l	
1330-20-7	Xylene (total)	524	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2170	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	93%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	99%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-5R		
Lab Sample ID:	N24437-5	**Date Sampled:**	10/09/02
Matrix:	AQ - Ground Water	**Date Received:**	10/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154975.D	100	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	616	100	ug/l	
108-88-3	Toluene	678	100	ug/l	
100-41-4	Ethylbenzene	441	100	ug/l	
1330-20-7	Xylene (total)	7070	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	36400	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		83-118%
17060-07-0	1,2-Dichloroethane-D4	93%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	97%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-4R		
Lab Sample ID:	N24437-6	**Date Sampled:**	10/09/02
Matrix:	AQ - Ground Water	**Date Received:**	10/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154976.D	50	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	50	ug/l	
108-88-3	Toluene	ND	50	ug/l	
100-41-4	Ethylbenzene	ND	50	ug/l	
1330-20-7	Xylene (total)	92.9	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	15000	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	89%		69-127%
2037-26-5	Toluene-D8	97%		82-119%
460-00-4	4-Bromofluorobenzene	95%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-7R		
Lab Sample ID:	N24437-7	**Date Sampled:**	10/10/02
Matrix:	AQ - Ground Water	**Date Received:**	10/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154977.D	1	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.2	1.0	ug/l	U ✓

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		69-127%
2037-26-5	Toluene-D8	95%		82-119%
460-00-4	4-Bromofluorobenzene	100%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-1R		
Lab Sample ID:	N24437-8	**Date Sampled:**	10/10/02
Matrix:	AQ - Ground Water	**Date Received:**	10/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154978.D	250	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	7350	250	ug/l	
108-88-3	Toluene	16600	250	ug/l	
100-41-4	Ethylbenzene	1950	250	ug/l	
1330-20-7	Xylene (total)	16600	250	ug/l	
1634-04-4	Methyl Tert Butyl Ether	88500	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	91%		69-127%
2037-26-5	Toluene-D8	99%		82-119%
460-00-4	4-Bromofluorobenzene	101%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-6R		
Lab Sample ID:	N24437-9	**Date Sampled:**	10/10/02
Matrix:	AQ - Ground Water	**Date Received:**	10/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154979.D	20	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	1550	20	ug/l	
108-88-3	Toluene	3820	20	ug/l	
100-41-4	Ethylbenzene	2100	20	ug/l	
1330-20-7	Xylene (total)	11600	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5850	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	99%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-FB-10/10/02		
Lab Sample ID:	N24437-10	**Date Sampled:**	10/10/02
Matrix:	AQ - Field Blank Water	**Date Received:**	10/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154980.D	1	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.1	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	90%		69-127%
2037-26-5	Toluene-D8	97%		82-119%
460-00-4	4-Bromofluorobenzene	95%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	N24437-11	**Date Sampled:**	10/10/02
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L154981.D	1	10/18/02	LLK	n/a	n/a	VL2279
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	89%		69-127%
2037-26-5	Toluene-D8	98%		82-119%
460-00-4	4-Bromofluorobenzene	98%		81-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

QC Nonconformance Documentation

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: N24437
Account: TRCNJ TRC Environmental Corporation, NJ
Project: First Avenue Properties, Parking Lot East 39th Street, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
N24437-3MS	J78406.D	20	10/18/02	XC	n/a	n/a	VJ2674
N24437-3MSD	J78407.D	20	10/18/02	XC	n/a	n/a	VJ2674
N24437-3	J78397.D	20	10/18/02	XC	n/a	n/a	VJ2674

The QC reported here applies to the following samples: **Method:** SW846 8260B

N24437-1, N24437-2, N24437-3

CAS No.	Compound	N24437-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		1000	935	94	976	98	4	61-135/10
100-41-4	Ethylbenzene	ND		1000	964	96	996	100	3	63-139/11
1634-04-4	Methyl Tert Butyl Ether	6660		1000	7110	45* [a]	7120	46* [a]	0	48-139/10
108-88-3	Toluene	27.7		1000	990	96	974	95	2	61-138/11
1330-20-7	Xylene (total)	73.4		3000	3050	99	3100	101	2	62-139/11

CAS No.	Surrogate Recoveries	MS	MSD	N24437-3	Limits
1868-53-7	Dibromofluoromethane	102%	103%	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	103%	103%	69-127%
2037-26-5	Toluene-D8	97%	96%	96%	82-119%
460-00-4	4-Bromofluorobenzene	96%	95%	112%	81-121%

(a) Outside control limits due to high level in sample relative to spike amount.

Data Usability Summary Report

Site: First Avenue Properties, Parking Lot
Laboratory: Accutest, Dayton, NJ
Case No.: N29280
Reviewer: Elizabeth Denly/TRC Environmental Corporation
Date: January 20, 2003

Samples Reviewed and Evaluation Summary

VOC:	9/Groundwater/	MW-3R, MW-3S, MW-31S, MW-2R, MW-5R, MW-4R, MW-7R, MW-1R, MW-6R
	1/Field Blank/	FB, 12/18/02

The above-listed samples were analyzed for site-specific volatile organic compounds (VOCs) by SW-846 method 8260B. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008* (October 1999), modified as necessary to accommodate the non-CLP methodology used, the project specific QC criteria detailed in the Quality Assurance Project Plan (QAPP), and Region II validation actions.

The organic data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
* ■ Data Completeness
* ■ Holding Times and Sample Preservation
* ■ Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
* ■ Initial and Continuing Calibrations
* ■ Blanks
* ■ Surrogate Recoveries
* ■ Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
* ■ Internal Standards
* ■ Laboratory Control Sample (LCS) Results
* ■ Field Duplicate Results
- Sample Quantitation and Reported Quantitation Limits
- Target Compound Identification

* - All criteria were met.

Overall Evaluation of Data and Potential Usability Issues

There were no qualifications applied to the data as a result of sampling error.

Qualification of the data as a result of analytical error is discussed below.

- Potential uncertainty exists for select results which were below the lowest calibration standard and quantitation limit. These results were qualified as estimated (J) in the associated samples by the laboratory. These results can be used for project objectives as estimated values which may have a minor impact on the data usability.

All results are usable for project objectives.

The validation recommendation listed above was based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP Category B deliverables with the following exception:

The GC/MS tune and continuing calibration standard associated with samples FB, 12/18/02, MW-7R, MW-3S, MW-4RDL, MW-2R, MW-3R, and MW-31S were not provided. Upon request during validation, this information was submitted by the laboratory.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All criteria were met.

Blanks

Target analytes were not detected in the laboratory method blanks or the field blank. A trip blank was not submitted with the samples in this data set. No validation action was required on this basis.

Surrogate Recoveries

All criteria were met.

MS/MSD Results

MS/MSD analyses were performed on samples MW-31S, MW-4R, and MW-5R. All criteria were met.

Internal Standards

All criteria were met.

LCS Results

All criteria were met.

Field Duplicate Results

Samples MW-3S and MW-31S were submitted as the field duplicate pair with this sample set. The following table summarizes the relative percent differences (RPDs) of the detected analytes, all of which were either within the acceptance criteria or not calculable (NC) due to a nondetect result in the field duplicate sample.

Compound	MW-3S (µg/L)	MW-31S (µg/L)	RPD (%)
Benzene	5.5	20 U	NC
Toluene	4.5	20 U	NC
Xylene (total)	8.3	20 U	NC
Methyl tert butyl ether	4830	4740	1.9

Sample Quantitation and Reported Quantitation Limits

Sample calculations were spot-checked; there were no errors noted.

Results were reported which were below the lowest calibration standard level and quantitation limit. These results were qualified as estimated (J) by the laboratory.

Due to levels of target analytes which would have exceeded the calibration range if analyzed undiluted, the following dilutions were performed. Quantitation limits were elevated accordingly by the laboratory.

First Avenue, Parking Lot N29280

Sample	Dilution performed
MW-3S	10-fold
MW-31S	20-fold
MW-4R	25-fold
MW-3R	10-fold
MW-5R	50-fold
MW-1R	250-fold
MW-2R	20-fold
MW-6R	50-fold

In addition to the dilutions above, samples MW-3S (50-fold), MW-31S (50-fold), MW-4R (200-fold), MW-3R (25-fold), and MW-5R (250-fold) were analyzed at additional dilutions, as listed, due to the concentrations of methyl tert-butylether which exceeded the calibration range in the initial diluted analysis. The laboratory combined the results of both diluted analyses in order to report the lowest possible quantitation limits and all results within the calibration range.

Due to the dilutions, project-required quantitation limits and project action levels were not achieved for ethylbenzene in sample MW-3S, benzene, toluene, ethylbenzene, and xylenes in samples MW-31S and MW-4R, and benzene in sample MW-5R. The dilutions did not adversely affect the quantitation limits of the target analytes in the remaining samples which were diluted since all target analytes were detected in these samples.

Target Compound Identification

The laboratory reported the presence of xylenes in sample MW-4R. However, review of the raw data did not indicate the presence of xylenes in this sample. The laboratory was contacted during validation about this issue. A revised report form for sample MW-4R was issued by the laboratory with the xylenes reported as a nondetect, which is consistent with the raw data for this sample.

Qualified Form Is

Report of Analysis

Client Sample ID:	MW-7R		
Lab Sample ID:	N29280-1	**Date Sampled:**	12/17/02
Matrix:	AQ - Ground Water	**Date Received:**	12/19/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42502.D	1	12/27/02	DTM	n/a	n/a	VS1477
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	1.0	1.0	0.34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	15.1	1.0	0.29	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	114%		69-127%
2037-26-5	Toluene-D8	103%		82-119%
460-00-4	4-Bromofluorobenzene	103%		81-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3S		
Lab Sample ID:	N29280-2	**Date Sampled:**	12/17/02
Matrix:	AQ - Ground Water	**Date Received:**	12/19/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42503.D	10	12/27/02	DTM	n/a	n/a	VS1477
Run #2	S42625.D	50	12/31/02	DTM	n/a	n/a	VS1483

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5.5 J	10	3.7	ug/l	J
108-88-3	Toluene	4.5 J	10	4.1	ug/l	J
100-41-4	Ethylbenzene	ND	10	4.4	ug/l	
1330-20-7	Xylene (total)	8.3 J	10	3.4	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	4830 [a]	50	14	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	94%	83-118%
17060-07-0	1,2-Dichloroethane-D4	117%	89%	69-127%
2037-26-5	Toluene-D8	102%	100%	82-119%
460-00-4	4-Bromofluorobenzene	102%	97%	81-121%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31S		
Lab Sample ID:	N29280-3	**Date Sampled:**	12/17/02
Matrix:	AQ - Ground Water	**Date Received:**	12/19/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42508.D	20	12/27/02	DTM	n/a	n/a	VS1477
Run #2	S42626.D	50	12/31/02	DTM	n/a	n/a	VS1483

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	20	7.5	ug/l	
108-88-3	Toluene	ND	20	8.1	ug/l	
100-41-4	Ethylbenzene	ND	20	8.8	ug/l	
1330-20-7	Xylene (total)	ND	20	6.9	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4740 [a]	50	14	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	94%	83-118%
17060-07-0	1,2-Dichloroethane-D4	117%	89%	69-127%
2037-26-5	Toluene-D8	101%	100%	82-119%
460-00-4	4-Bromofluorobenzene	104%	98%	81-121%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB.12/18/02		
Lab Sample ID:	N29280-4	**Date Sampled:**	12/17/02
Matrix:	AQ - Field Blank Water	**Date Received:**	12/19/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42501.D	1	12/27/02	DTM	n/a	n/a	VS1477
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	111%		69-127%
2037-26-5	Toluene-D8	102%		82-119%
460-00-4	4-Bromofluorobenzene	105%		81-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R		
Lab Sample ID:	N29280-5	**Date Sampled:**	12/17/02
Matrix:	AQ - Ground Water	**Date Received:**	12/19/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42627.D	250	12/31/02	DTM	n/a	n/a	VS1483
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	857	250	93	ug/l	
108-88-3	Toluene	2650	250	100	ug/l	
100-41-4	Ethylbenzene	325	250	110	ug/l	
1330-20-7	Xylene (total)	7100	250	86	ug/l	
1634-04-4	Methyl Tert Butyl Ether	37400	250	72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	92%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	96%		81-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4R		
Lab Sample ID:	N29280-6	**Date Sampled:**	12/17/02
Matrix:	AQ - Ground Water	**Date Received:**	12/19/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42602.D	25	12/30/02	DTM	n/a	n/a	VS1482
Run #2	S42505.D	200	12/27/02	DTM	n/a	n/a	VS1477

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	25	9.3	ug/l	
108-88-3	Toluene	ND	25	10	ug/l	
100-41-4	Ethylbenzene	ND	25	11	ug/l	
1330-20-7	Xylene (total)	ND	25	8.6	ug/l	
1634-04-4	Methyl Tert Butyl Ether	16300 [a]	200	58	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	87%	117%	69-127%
2037-26-5	Toluene-D8	101%	100%	82-119%
460-00-4	4-Bromofluorobenzene	96%	105%	81-121%

(a) Result is from Run# 2

Report of Analysis

Client Sample ID:	MW-2R		
Lab Sample ID:	N29280-7	**Date Sampled:**	12/17/02
Matrix:	AQ - Ground Water	**Date Received:**	12/19/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42506.D	20	12/27/02	DTM	n/a	n/a	VS1477
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	21.3	20	7.5	ug/l	
108-88-3	Toluene	28.6	20	8.1	ug/l	
100-41-4	Ethylbenzene	123	20	8.8	ug/l	
1330-20-7	Xylene (total)	593	20	6.9	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2560	20	5.8	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	120%		69-127%
2037-26-5	Toluene-D8	103%		82-119%
460-00-4	4-Bromofluorobenzene	97%		81-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3R		
Lab Sample ID:	N29280-8	**Date Sampled:**	12/17/02
Matrix:	AQ - Ground Water	**Date Received:**	12/19/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42507.D	10	12/27/02	DTM	n/a	n/a	VS1477
Run #2	S42628.D	25	12/31/02	DTM	n/a	n/a	VS1483

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	20.4	10	3.7	ug/l	
108-88-3	Toluene	21.7	10	4.1	ug/l	
100-41-4	Ethylbenzene	33.8	10	4.4	ug/l	
1330-20-7	Xylene (total)	258	10	3.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3890 [a]	25	7.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	118%	94%	69-127%
2037-26-5	Toluene-D8	100%	101%	82-119%
460-00-4	4-Bromofluorobenzene	97%	97%	81-121%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6R		
Lab Sample ID:	N29280-9	**Date Sampled:**	12/17/02
Matrix:	AQ - Ground Water	**Date Received:**	12/19/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42629.D	50	12/31/02	DTM	n/a	n/a	VS1483
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	619	50	19	ug/l	
108-88-3	Toluene	1320	50	20	ug/l	
100-41-4	Ethylbenzene	559	50	22	ug/l	
1330-20-7	Xylene (total)	3470	50	17	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5260	50	14	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		69-127%
2037-26-5	Toluene-D8	102%		82-119%
460-00-4	4-Bromofluorobenzene	95%		81-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5R		
Lab Sample ID:	N29280-10	**Date Sampled:**	12/17/02
Matrix:	AQ - Ground Water	**Date Received:**	12/19/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S42630.D	50	12/31/02	DTM	n/a	n/a	VS1483
Run #2	S42535.D	250	12/28/02	DTM	n/a	n/a	VS1478

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	50	19	ug/l	
108-88-3	Toluene	30.4 J	50	20	ug/l	J
100-41-4	Ethylbenzene	53.7	50	22	ug/l	
1330-20-7	Xylene (total)	501	50	17	ug/l	
1634-04-4	Methyl Tert Butyl Ether	20900 [a]	250	72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	92%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	89%	69-127%
2037-26-5	Toluene-D8	101%	100%	82-119%
460-00-4	4-Bromofluorobenzene	96%	95%	81-121%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

QC Nonconformance Documentation

-not applicable to this case number-

Data Usability Summary Report

Site: First Avenue Properties, Parking Lot
Laboratory: Accutest, Dayton, NJ
Case No.: N35692
Reviewer: Elizabeth Denly/TRC Environmental Corporation
Date: April 14, 2003

Samples Reviewed and Evaluation Summary

VOC:	10/Groundwater/	PL-MW-1R, PL-MW-2R, PL-MW-3S, PL-MW-33S, PL-MW-3R, PL-MW-4R, PL-MW-5R, PL-MW-6R, PL-MW-7R, WS-MW-2R
	1/Field Blank/	PL-FB-3/28/03

The above-listed samples were analyzed for site-specific volatile organic compounds (VOCs) by SW-846 method 8260B. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008* (October 1999), modified as necessary to accommodate the non-CLP methodology used, the project specific QC criteria detailed in the Quality Assurance Project Plan (QAPP), and Region II validation actions.

The organic data were evaluated based on the following parameters:

	■	Overall Evaluation of Data and Potential Usability Issues
*	■	Data Completeness
*	■	Holding Times and Sample Preservation
*	■	Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
*	■	Initial and Continuing Calibrations
	■	Blanks
*	■	Surrogate Recoveries
*	■	Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
*	■	Internal Standards
*	■	Laboratory Control Sample (LCS) Results
*	■	Field Duplicate Results
	■	Sample Quantitation and Reported Quantitation Limits
*	■	Target Compound Identification

* - All criteria were met.

Overall Evaluation of Data and Potential Usability Issues

Qualification of the data as a result of sampling error is discussed below.

•The positive results for toluene in samples PL-MW-2R, PL-MW-3S, PL-MW-4R, and PL-MW-5R and methyl-t-butylether (MTBE) in samples PL-MW-7R and WS-MW-2R were qualified as nondetects (U) due to field blank contamination. These results can still be used for project objectives. This qualification may have a minor impact on the data usability.

Qualification of the data as a result of analytical error is discussed below.

•Potential uncertainty exists for select results which were below the lowest calibration standard and quantitation limit. These results were qualified as estimated (J) in the associated samples by the laboratory. These results can be used for project objectives as estimated values which may have a minor impact on the data usability.

All results are usable for project objectives.

The validation recommendation listed above was based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP Category B deliverables.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All criteria were met.

Blanks

Target analytes were not detected in the laboratory method blanks. A trip blank was not submitted with the samples in this data set. No validation action was required on this basis. Target analytes were detected in the associated field blank. The following table summarizes the contaminants detected in the field blank and the associated blank action levels.

First Avenue, Parking Lot N35692

Compound	Amount Detected (ug/L)	Action Level (ug/L)	Affected Samples
Toluene	0.55	2.75	PL-MW-2R, PL-MW-3S, PL-MW-4R, PL-MW-5R
MTBE	4.9	24.5	PL-MW-7R, WS-MW-2R

Validation Actions:

If the sample concentration ≤ QL and ≤ blank action level, qualify the result as not detected (U) at the QL.
If the sample concentration > QL and ≤ blank action level, qualify the result as not detected (U) at the reported value.
If the sample concentration > blank action level, report the value unqualified.

Based on the blank action levels, the positive results for toluene in samples PL-MW-2R, PL-MW-3S, PL-MW-4R, and PL-MW-5R and MTBE in samples PL-MW-7R and WS-MW-2R were qualified as nondetects (U).

Surrogate Recoveries

All criteria were met.

MS/MSD Results

Sample PL-MW-1R was submitted for MS/MSD analyses with this sample set. All criteria were met.

Internal Standards

All criteria were met.

LCS Results

All criteria were met.

Field Duplicate Results

Samples MW-3S and MW-33S were submitted as the field duplicate pair with this sample set. The following table summarizes the relative percent differences (RPDs) of the detected analytes, all of which were either within the acceptance criteria or not calculable (NC) due to a nondetect result in the original sample.

First Avenue, Parking Lot N35692

Compound	MW-3S (µg/L)	MW-33S (µg/L)	RPD (%)
Benzene	3.6	4.0	10.5
Toluene	2.7 U	3.0	NC
Ethylbenzene	0.81	0.80	1.2
Xylene (total)	12.7	13.4	5.4
Methyl tert butyl ether	790	937	17.0

Sample Quantitation and Reported Quantitation Limits

Sample calculations were spot-checked; there were no errors noted.

Results were reported which were below the lowest calibration standard level and quantitation limit. These results were qualified as estimated (J) by the laboratory.

Due to levels of target analytes which would have exceeded the calibration range if analyzed undiluted, the following dilutions were performed. Quantitation limits were elevated accordingly by the laboratory.

Sample	Dilution performed
PL-MW-2R	10-fold
PL-MW-3R	10-fold
PL-MW-1R	25-fold
PL-MW-6R	10-fold
PL-MW-5R	100-fold

In addition to the dilutions above, samples PL-MW-3S (5-fold), PL-MW-33S (5-fold), PL-MW-1R (250-fold), and PL-MW-4R (5-fold) were analyzed at additional dilutions, as listed, due to the concentrations of methyl tert-butylether which exceeded the calibration range in the initial analysis. The laboratory combined the results of both analyses in order to report the lowest possible quantitation limits and all results within the calibration range.

The dilutions did not adversely affect the quantitation limits of the target analytes in any of the samples which were diluted since all target analytes were detected in these samples. However, the quantitation limit of toluene in samples PL-MW-2R, PL-MW-3S, PL-MW-4R, and PL-MW-5R was elevated due to field blank contamination. The elevated quantitation limits were still below the project action level and therefore did not adversely affect the overall data usability.

The presence of MTBE in sample WS-MW-2R may be due to carryover from sample PL-MW-3S. This result was subsequently qualified as a nondetect due to field blank contamination; no further validation action on the basis of potential carryover was therefore required.

Target Compound Identification

All criteria were met.

Qualified Form Is

Report of Analysis

Client Sample ID:	PL-MW-7R		
Lab Sample ID:	N35692-1	**Date Sampled:**	03/26/03
Matrix:	AQ - Ground Water	**Date Received:**	03/28/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68734.D	1	04/02/03	CBD	n/a	n/a	VK2309
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.0 ~~0.79~~	1.0	0.29	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		81-120%
17060-07-0	1,2-Dichloroethane-D4	109%		68-130%
2037-26-5	Toluene-D8	112%		83-116%
460-00-4	4-Bromofluorobenzene	109%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-2R		
Lab Sample ID:	N35692-2	**Date Sampled:**	03/27/03
Matrix:	AQ - Ground Water	**Date Received:**	03/28/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68739.D	10	04/02/03	CBD	n/a	n/a	VK2309
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	19.4	10	3.7	ug/l	
108-88-3	Toluene	13.5	10	4.1	ug/l	J
100-41-4	Ethylbenzene	46.5	10	4.4	ug/l	
1330-20-7	Xylene (total)	258	10	3.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3780	10	2.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		81-120%
17060-07-0	1,2-Dichloroethane-D4	105%		68-130%
2037-26-5	Toluene-D8	113%		83-116%
460-00-4	4-Bromofluorobenzene	109%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-3S		
Lab Sample ID:	N35692-3	**Date Sampled:**	03/27/03
Matrix:	AQ - Ground Water	**Date Received:**	03/28/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68735.D	1	04/02/03	CBD	n/a	n/a	VK2309
Run #2	K68779.D	5	04/03/03	CBD	n/a	n/a	VK2311

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.6	1.0	0.37	ug/l	
108-88-3	Toluene	2.7 J	1.0	0.41	ug/l	
100-41-4	Ethylbenzene	0.81 J	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	12.7	1.0	0.34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	790	5.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%	112%	81-120%
17060-07-0	1,2-Dichloroethane-D4	106%	105%	68-130%
2037-26-5	Toluene-D8	111%	111%	83-116%
460-00-4	4-Bromofluorobenzene	106%	105%	83-119%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	PL-MW-33S		
Lab Sample ID:	N35692-4	**Date Sampled:**	03/27/03
Matrix:	AQ - Ground Water	**Date Received:**	03/28/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68736.D	1	04/02/03	CBD	n/a	n/a	VK2309
Run #2	K68780.D	5	04/03/03	CBD	n/a	n/a	VK2311

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4.0	1.0	0.37	ug/l	
108-88-3	Toluene	3.0	1.0	0.41	ug/l	
100-41-4	Ethylbenzene	0.80 J	1.0	0.44	ug/l	J
1330-20-7	Xylene (total)	13.4	1.0	0.34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	937 a	5.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%	111%	81-120%
17060-07-0	1,2-Dichloroethane-D4	107%	105%	68-130%
2037-26-5	Toluene-D8	112%	111%	83-116%
460-00-4	4-Bromofluorobenzene	108%	102%	83-119%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-3R		
Lab Sample ID:	N35692-5	**Date Sampled:**	03/28/03
Matrix:	AQ - Ground Water	**Date Received:**	03/28/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68740.D	10	04/02/03	CBD	n/a	n/a	VK2309
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	20.9	10	3.7	ug/l	
108-88-3	Toluene	34.4	10	4.1	ug/l	
100-41-4	Ethylbenzene	62.9	10	4.4	ug/l	
1330-20-7	Xylene (total)	342	10	3.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2280	10	2.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		81-120%
17060-07-0	1,2-Dichloroethane-D4	104%		68-130%
2037-26-5	Toluene-D8	114%		83-116%
460-00-4	4-Bromofluorobenzene	109%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-1R		
Lab Sample ID:	N35692-6	**Date Sampled:**	03/28/03
Matrix:	AQ - Ground Water	**Date Received:**	03/28/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68744.D	25	04/02/03	CBD	n/a	n/a	VK2309
Run #2	K68743.D	250	04/02/03	CBD	n/a	n/a	VK2309

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1020	25	9.3	ug/l	
108-88-3	Toluene	2180	25	10	ug/l	
100-41-4	Ethylbenzene	284	25	11	ug/l	
1330-20-7	Xylene (total)	3320	25	8.6	ug/l	
1634-04-4	Methyl Tert Butyl Ether	45600 a	250	72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%	112%	81-120%
17060-07-0	1,2-Dichloroethane-D4	104%	106%	68-130%
2037-26-5	Toluene-D8	111%	113%	83-116%
460-00-4	4-Bromofluorobenzene	107%	108%	83-119%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	WS-MW-2R		
Lab Sample ID:	N35692-7	**Date Sampled:**	03/28/03
Matrix:	AQ - Ground Water	**Date Received:**	03/28/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68737.D	1	04/02/03	CBD	n/a	n/a	VK2309
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.0 ~~0.67~~ J	1.0	0.29	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		81-120%
17060-07-0	1,2-Dichloroethane-D4	106%		68-130%
2037-26-5	Toluene-D8	111%		83-116%
460-00-4	4-Bromofluorobenzene	110%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-4R		
Lab Sample ID:	N35692-8	**Date Sampled:**	03/28/03
Matrix:	AQ - Ground Water	**Date Received:**	03/28/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68738.D	1	04/02/03	CBD	n/a	n/a	VK2309
Run #2	K68781.D	5	04/03/03	CBD	n/a	n/a	VK2311

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.1	1.0	0.37	ug/l	
108-88-3	Toluene	1.0 ~~0.65~~ U	1.0	0.41	ug/l	U
100-41-4	Ethylbenzene	0.79 J	1.0	0.44	ug/l	J
1330-20-7	Xylene (total)	2.7	1.0	0.34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1210	5.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%	112%	81-120%
17060-07-0	1,2-Dichloroethane-D4	106%	106%	68-130%
2037-26-5	Toluene-D8	112%	112%	83-116%
460-00-4	4-Bromofluorobenzene	107%	107%	83-119%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found ~~in~~ associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-6R		
Lab Sample ID:	N35692-9	**Date Sampled:**	03/28/03
Matrix:	AQ - Ground Water	**Date Received:**	03/28/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68741.D	10	04/02/03	CBD	n/a	n/a	VK2309
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	237	10	3.7	ug/l	
108-88-3	Toluene	921	10	4.1	ug/l	
100-41-4	Ethylbenzene	454	10	4.4	ug/l	
1330-20-7	Xylene (total)	3470	10	3.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2460	10	2.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		81-120%
17060-07-0	1,2-Dichloroethane-D4	105%		68-130%
2037-26-5	Toluene-D8	113%		83-116%
460-00-4	4-Bromofluorobenzene	107%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PL-MW-5R		
Lab Sample ID:	N35692-10	**Date Sampled:**	03/28/03
Matrix:	AQ - Ground Water	**Date Received:**	03/28/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68742.D	100	04/02/03	CBD	n/a	n/a	VK2309
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	63.8 J	100	37	ug/l	J
108-88-3	Toluene	169 U	100	41	ug/l	
100-41-4	Ethylbenzene	234	100	44	ug/l	
1330-20-7	Xylene (total)	2050	100	34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	19800	100	29	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		81-120%
17060-07-0	1,2-Dichloroethane-D4	103%		68-130%
2037-26-5	Toluene-D8	112%		83-116%
460-00-4	4-Bromofluorobenzene	106%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PL-FB-3/28/03		
Lab Sample ID:	N35692-11	**Date Sampled:**	03/28/03
Matrix:	AQ - Field Blank Water	**Date Received:**	03/28/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K68728.D	1	04/02/03	CBD	n/a	n/a	VK2309
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	0.55 J	1.0	0.41	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.9	1.0	0.29	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		81-120%
17060-07-0	1,2-Dichloroethane-D4	105%		68-130%
2037-26-5	Toluene-D8	112%		83-116%
460-00-4	4-Bromofluorobenzene	105%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

QC Nonconformance Documentation

Data Usability Summary Report

Site: First Avenue Properties, Parking Lot
Laboratory: Accutest, Dayton, NJ
Case No.: N41282
Reviewer: Elizabeth Denly/TRC Environmental Corporation
Date: July 8, 2003

Samples Reviewed and Evaluation Summary

VOC:	10/Groundwater/	PL-MW-1R, PL-MW-2R, PL-MW-3S, PL-MW-33S, PL-MW-3R, PL-MW-4R, PL-MW-5R, PL-MW-6R, PL-MW-7R, WS-MW-2R
	1/Field Blank/	PL-FB-3/28/03
	1/Trip Blank/	Trip Blank

The above-listed samples were collected on June 9, 10, and 11, 2003 and analyzed for site-specific volatile organic compounds (VOCs) by SW-846 method 8260B. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008* (October 1999), modified as necessary to accommodate the non-CLP methodology used, the project specific QC criteria detailed in the Quality Assurance Project Plan (QAPP), and Region II validation actions.

The organic data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- * Data Completeness
- * Holding Times and Sample Preservation
- * Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- * Initial and Continuing Calibrations
- * Blanks
- * Surrogate Recoveries
- * Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- * Internal Standards
- * Laboratory Control Sample (LCS) Results
- Field Duplicate Results
- Sample Quantitation and Reported Quantitation Limits
- * Target Compound Identification

* - All criteria were met.

First Avenue, Parking Lot N41282

Overall Evaluation of Data and Potential Usability Issues

Qualification of the data as a result of sampling error is discussed below.

•The positive results for benzene, toluene, and xylene (total) in samples PL-MW-3S and PL-MW-33S were qualified as estimated (J) due to high relative percent differences (RPDs) in the evaluation of the field duplicate pair. These results are usable for project objectives as estimated values. This qualification may have a minor impact on the data usability.

Qualification of the data as a result of analytical error was not required. All results are usable for project objectives.

The validation recommendation listed above was based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP Category B deliverables.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All criteria were met.

Blanks

Target analytes were not detected in the laboratory method blanks, field blank, or trip blank.

Surrogate Recoveries

All criteria were met.

MS/MSD Results

Sample PL-MW-1R was submitted for MS/MSD analyses with this sample set. All criteria were met.

Internal Standards

All criteria were met.

LCS Results

All criteria were met.

Field Duplicate Results

Samples PL-MW-3S and PL-MW-33S were submitted as the field duplicate pair with this sample set. The following table summarizes the RPDs of the detected analytes. Positive results for benzene, toluene and xylene (total) were qualified as estimated (J) due to RPDs which exceeded the acceptance criteria.

Compound	PL-MW-3S (ug/L)	PL-MW-33S (ug/L)	RPD (%)
Benzene	5.2	3.8	31.1
Toluene	6.2	4.3	36.2
Ethylbenzene	2.0	1.5	28.6
Xylene (total)	21.0	14.9	34.0
Methyl tert-butyl ether	891	802	10.5

Sample Quantitation and Reported Quantitation Limits

Sample calculations were spot-checked; there were no errors noted.

Due to concentrations of one or more target compounds which would have exceeded the calibration range if analyzed undiluted, the following dilutions were performed. Quantitation limits were elevated accordingly by the laboratory.

Sample	Dilution performed
PL-MW-2R	5-fold
PL-MW-3R	2-fold and 5-fold
PL-MW-3S	1-fold and 5-fold
PL-MW-33S	1-fold and 2.5-fold
PL-MW-4R	20-fold

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Sample	Dilution performed
PL-MW-1R	50-fold
PL-MW-6R	5-fold
PL-MW-5R	20-fold and 50-fold

Samples PL-MW-3S (5-fold), PL-MW-33S (2.5-fold), PL-MW-3R (5-fold), and PL-MW-5R (50-fold) were analyzed at additional dilutions, as listed, due to the concentrations of methyl tert-butylether which exceeded the calibration range in the initial analysis. The laboratory combined the results of both analyses in order to report the lowest possible quantitation limits and all results within the calibration range.

The dilutions listed above did not adversely affect the quantitation limits of the target compounds in samples PL-MW-2R, PL-MW-3R, PL-MW-1R, and PL-MW-6R since all target compounds were detected above the quantitation limits in these samples. However, the results for benzene, toluene, and ethylbenzene in samples PL-MW-4R and PL-MW-5R and xylene (total) in sample PL-MW-4R were nondetects; these quantitation limits were therefore elevated and above the project action limits due to the dilutions performed.

Target Compound Identification

All criteria were met.

Qualified Form Is

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Report of Analysis

Client Sample ID:	PL-MW-7R		
Lab Sample ID:	N41282-1	**Date Sampled:**	06/09/03
Matrix:	AQ - Ground Water	**Date Received:**	06/12/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68315.D	1	06/18/03	MKP	n/a	n/a	VI2653
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		81-120%
17060-07-0	1,2-Dichloroethane-D4	105%		68-130%
2037-26-5	Toluene-D8	102%		83-116%
460-00-4	4-Bromofluorobenzene	103%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-2R		
Lab Sample ID:	N41282-2	**Date Sampled:**	06/09/03
Matrix:	AQ - Ground Water	**Date Received:**	06/12/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68316.D	5	06/18/03	MKP	n/a	n/a	VI2653
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	16.0	5.0	1.1	ug/l	
108-88-3	Toluene	18.9	5.0	1.3	ug/l	
100-41-4	Ethylbenzene	86.6	5.0	1.1	ug/l	
1330-20-7	Xylene (total)	383	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1890	5.0	1.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		81-120%
17060-07-0	1,2-Dichloroethane-D4	103%		68-130%
2037-26-5	Toluene-D8	102%		83-116%
460-00-4	4-Bromofluorobenzene	99%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	PL-MW-3S		
Lab Sample ID:	N41282-3	**Date Sampled:**	06/09/03
Matrix:	AQ - Ground Water	**Date Received:**	06/12/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68317.D	1	06/18/03	MKP	n/a	n/a	VI2653
Run #2	I68423.D	5	06/20/03	MKP	n/a	n/a	VI2658

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5.2 J	1.0	0.21	ug/l	
108-88-3	Toluene	6.2 J	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	2.0	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	21.0 J	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	891	5.0	1.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	100%	81-120%
17060-07-0	1,2-Dichloroethane-D4	106%	100%	68-130%
2037-26-5	Toluene-D8	101%	101%	83-116%
460-00-4	4-Bromofluorobenzene	102%	101%	83-119%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-33S		
Lab Sample ID:	N41282-4	**Date Sampled:**	06/09/03
Matrix:	AQ - Ground Water	**Date Received:**	06/12/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68318.D	1	06/18/03	MKP	n/a	n/a	VI2653
Run #2	I68424.D	2.5	06/20/03	MKP	n/a	n/a	VI2658

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.8 J	1.0	0.21	ug/l	
108-88-3	Toluene	4.3 J	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	1.5	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	14.9 J	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	802	2.5	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	100%	81-120%
17060-07-0	1,2-Dichloroethane-D4	104%	101%	68-130%
2037-26-5	Toluene-D8	102%	101%	83-116%
460-00-4	4-Bromofluorobenzene	102%	100%	83-119%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	PL-FB-6/10/03		
Lab Sample ID:	N41282-5	**Date Sampled:**	06/10/03
Matrix:	AQ - Field Blank Water	**Date Received:**	06/12/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68425.D	1	06/20/03	MKP	n/a	n/a	VI2658
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		81-120%
17060-07-0	1,2-Dichloroethane-D4	101%		68-130%
2037-26-5	Toluene-D8	102%		83-116%
460-00-4	4-Bromofluorobenzene	99%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	PL-MW-3R		
Lab Sample ID:	N41282-6	**Date Sampled:**	06/11/03
Matrix:	AQ - Ground Water	**Date Received:**	06/12/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68320.D	2	06/18/03	MKP	n/a	n/a	VI2653
Run #2	I68426.D	5	06/20/03	MKP	n/a	n/a	VI2658

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	14.2	2.0	0.43	ug/l	
108-88-3	Toluene	26.9	2.0	0.51	ug/l	
100-41-4	Ethylbenzene	26.3	2.0	0.46	ug/l	
1330-20-7	Xylene (total)	160	2.0	0.40	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1340 [a]	5.0	1.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	100%	81-120%
17060-07-0	1,2-Dichloroethane-D4	105%	104%	68-130%
2037-26-5	Toluene-D8	101%	105%	83-116%
460-00-4	4-Bromofluorobenzene	104%	100%	83-119%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	PL-MW-4R		
Lab Sample ID:	N41282-7	**Date Sampled:**	06/11/03
Matrix:	AQ - Ground Water	**Date Received:**	06/12/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68321.D	20	06/18/03	MKP	n/a	n/a	VI2653
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	20	4.3	ug/l	
108-88-3	Toluene	ND	20	5.1	ug/l	
100-41-4	Ethylbenzene	ND	20	4.6	ug/l	
1330-20-7	Xylene (total)	ND	20	4.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	7450	20	4.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		81-120%
17060-07-0	1,2-Dichloroethane-D4	104%		68-130%
2037-26-5	Toluene-D8	102%		83-116%
460-00-4	4-Bromofluorobenzene	104%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	PL-MW-1R		
Lab Sample ID:	N41282-8	**Date Sampled:**	06/11/03
Matrix:	AQ - Ground Water	**Date Received:**	06/12/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68322.D	50	06/18/03	MKP	n/a	n/a	VI2653
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1350	50	11	ug/l	
108-88-3	Toluene	4060	50	13	ug/l	
100-41-4	Ethylbenzene	266	50	11	ug/l	
1330-20-7	Xylene (total)	3640	50	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	18200	50	11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		81-120%
17060-07-0	1,2-Dichloroethane-D4	105%		68-130%
2037-26-5	Toluene-D8	102%		83-116%
460-00-4	4-Bromofluorobenzene	103%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PL-MW-6R		
Lab Sample ID:	N41282-9	**Date Sampled:**	06/11/03
Matrix:	AQ - Ground Water	**Date Received:**	06/12/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68325.D	5	06/18/03	MKP	n/a	n/a	VI2653
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	294	5.0	1.1	ug/l	
108-88-3	Toluene	764	5.0	1.3	ug/l	
100-41-4	Ethylbenzene	493	5.0	1.1	ug/l	
1330-20-7	Xylene (total)	2560	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	797	5.0	1.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		81-120%
17060-07-0	1,2-Dichloroethane-D4	105%		68-130%
2037-26-5	Toluene-D8	103%		83-116%
460-00-4	4-Bromofluorobenzene	102%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	PL-MW-5R		
Lab Sample ID:	N41282-10	**Date Sampled:**	06/11/03
Matrix:	AQ - Ground Water	**Date Received:**	06/12/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68326.D	20	06/18/03	MKP	n/a	n/a	VI2653
Run #2	I68427.D	50	06/20/03	MKP	n/a	n/a	VI2658

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	20	4.3	ug/l	
108-88-3	Toluene	ND	20	5.1	ug/l	
100-41-4	Ethylbenzene	ND	20	4.6	ug/l	
1330-20-7	Xylene (total)	25.5	20	4.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	16000 a	50	11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	99%	81-120%
17060-07-0	1,2-Dichloroethane-D4	104%	102%	68-130%
2037-26-5	Toluene-D8	102%	100%	83-116%
460-00-4	4-Bromofluorobenzene	103%	104%	83-119%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WS-MW-2R		
Lab Sample ID:	N41282-11	**Date Sampled:**	06/11/03
Matrix:	AQ - Ground Water	**Date Received:**	06/12/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68327.D	1	06/18/03	MKP	n/a	n/a	VI2653
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		81-120%
17060-07-0	1,2-Dichloroethane-D4	104%		68-130%
2037-26-5	Toluene-D8	103%		83-116%
460-00-4	4-Bromofluorobenzene	102%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	N41282-12	**Date Sampled:**	06/11/03
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/12/03
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot East 39th Street, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68328.D	1	06/18/03	MKP	n/a	n/a	VI2653
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		81-120%
17060-07-0	1,2-Dichloroethane-D4	105%		68-130%
2037-26-5	Toluene-D8	104%		83-116%
460-00-4	4-Bromofluorobenzene	100%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

QC Nonconformance Documentation

- not applicable to this case number

Summary of QA/QC Program

A QA/QC program for the Parking Lot soil vapor sample investigation was instituted to ensure that the analytical and project objectives were met. The QA/QC program included data validation for 100% of the analytical data.

The results of the data validation were summarized in a Data Usability Summary Report (DUSR). This DUSR appears in this appendix and includes a discussion on each qualified result, the potential bias and the effect on the data usability. Also included with the DUSR is a summary of the qualified report forms and copies of any QC summary forms for exceedances discussed in the DUSR. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008* (October 1999), modified as necessary to accommodate the EPA methodologies used, the project-specific QC criteria detailed in the QAPP, and Region II validation actions from Region II Standard Operating Procedure (SOP), *Validating Canisters of Volatile Organics in Ambient Air* (HW-18, Revision 0, August 1995). An abridged version of the laboratory analytical results is included as Appendix D of this RWP. The full laboratory analytical data package is available from TRC upon request.

The following soil vapor samples were included in the validation:
PL-SG-9, PL-SG-10, PL-SG-11, PL-SG-12, PL-SG-13, PL-SG-14, PL-SG-15, PL-SG-16, PL-SG-17, PL-SG-18, AMBIENT BACKGROUND
All samples were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tert butyl ether (MTBE) by EPA Method TO-14.

The results of the data validation were used to determine if project objectives had been met. The results of the data validation provided a quantitative evaluation of the DQOs: precision, accuracy, completeness, and sensitivity. For each analytical parameter, DQOs were established prior to the onset of the program for accuracy, precision, sensitivity and completeness. In order for the successful achievement of the project objectives, all DQOs must be met. Actual sample and QC sample results were compared to project DQOs to determine whether results could be used to fulfill project objectives for this sampling event. The assessment of these DQOs and the usability of the data as a result of this assessment are discussed in detail below.

Precision

Precision was measured by the analysis of laboratory duplicates. Method precision objectives were based on laboratory-derived criteria in terms of relative percent differences (RPDs). As per the EPA method, laboratory duplicate analyses were scheduled to be analyzed at a frequency of at least one for every day of analysis. For this program, laboratory duplicate analyses were performed at the method-specified frequency. Laboratory duplicate analyses were performed on the following samples from the Parking Lot site:

- PL-SG-12
- PL-SG-16

With the exception of MTBE in sample PL-SG-12, the RPDs of all target compounds in the laboratory duplicate analyses were within the acceptance criteria, indicating acceptable analytical precision. The RPD for MTBE in the laboratory duplicate analysis of sample PL-SG-12 slightly exceeded the acceptance criteria. Data usability was not adversely affected by this slight exceedance.

Precision was also measured by the analyses of laboratory control sample (LCS) duplicates. All criteria were met for the RPDs of the spiked compounds in the LCS/LCS Duplicates.

Accuracy

Field Accuracy

Field accuracy associated with the soil vapor matrix was not measured during this program. Field blanks were not submitted to the laboratory. The usability of the soil vapor data is not affected by the lack of this QC measurement. In general, results are considered conservative and cannot be attributed to potential blank contamination without this measurement.

Laboratory Accuracy

Accuracy in the laboratory was assessed through the evaluation of holding times, calibrations, laboratory method blanks, surrogate spike recoveries, laboratory control spikes (LCSs), internal standards, and target compound identification.

Holding Times

All samples were analyzed within the required holding time.

Calibrations

All criteria were met.

Laboratory Method Blanks

Laboratory blanks were used to evaluate the potential contamination of samples from the preparation and analytical procedures. Laboratory blanks were prepared and/or analyzed along with each batch of field samples. Laboratory blanks were scheduled to be prepared and analyzed at a frequency of one per day of analysis. Laboratory blanks were evaluated against their associated field samples to determine if a laboratory condition contributed to false positives or high bias in the field samples. The laboratory blank results did not indicate a laboratory contamination problem. Target compounds were not detected in any of the laboratory blanks.

Surrogate Spike Recoveries

Surrogate spike compounds were added to each sample undergoing analysis to assess method performance. All surrogate recoveries were within the acceptance limits.

LCS Analyses

LCSs consisted of clean SUMMA® canisters spiked with all target compounds prior to analysis at the mid-range of the calibration using a secondary source standard different from that used for calibration. The LCS is used to provide an independent assessment of

the overall efficiency of the analytical method. The recoveries of all spiked compounds were within the acceptance limits in all LCSs.

Internal Standards

Internal standard compounds were added to each sample undergoing analysis to assess method performance. All criteria were met.

Target Compound Identification

All criteria were met for target compound identification.

Sensitivity

Sensitivity was assessed by the evaluation of analytical quantitation limits. The quantitation limits were evaluated for each parameter to determine if these limits were at or below the method-required quantitation limits. The quantitation limits of all samples met the project requirements, with the following exceptions:

- The quantitation limits for ethylbenzene and MTBE were elevated by a factor of two in sample PL-SG-11 and the quantitation limit for MTBE was elevated by a factor of four in sample PL-SG-13. The elevated quantitation limits were due to the presence of elevated levels of non-target analytes. Since there were no project action limits established for the soil vapor samples, the overall effect on the data usability is minor.

Potential uncertainty exists for reported results which were below the lowest calibration standard or quantitation limit. These results were qualified as estimated (J) by the laboratory but are still usable for project objectives.

Completeness

Completeness is defined as the measure of the amount of valid data obtained from a measurement system compared to the amount that was expected. For the data associated with the Parking Lot investigation, completeness was assessed by comparing (1) the number of samples successfully analyzed to the number submitted, and (2) the number of valid measurements to the number of measurements obtained. Completeness was calculated according to the following equation:

$$\% \text{ Completeness} = \frac{\text{\# of Valid Results}}{\text{\# of Expected Results}} \times 100$$

The field completeness objective (defined by [1] above) was greater than 90 percent. This goal was achieved. All samples submitted for laboratory analysis for the requested parameters were successfully analyzed (thereby 100 percent completeness).

The laboratory completeness objective (defined by [2] above) was greater than 95 percent. This goal was achieved. No data points were deemed unusable (thereby 100 percent completeness).

Overall Summary

In general, the data were found to be valid and usable for decision-making purposes. The laboratory followed the analytical protocols set forth in the various methods.

Out of the total population of 55 individual results for soil vapor samples, none were rejected.

Through the data validation process, analyte results were qualified as estimated (J/UJ). The qualifiers (J or UJ) flagged the positive and nondetect analyte results as estimated due to a QC measure found outside of control limits. Out of the total population of 55 individual results, 1.8 percent (or 1 individual result) was qualified as estimated.

In general, the results for the Parking Lot soil vapor samples are usable for project objectives with no limitations.

Data Usability Summary Report

Site: First Avenue Properties, Parking Lot
Laboratory: Accutest, Dayton, NJ
Case No.: N57403
Reviewer: Elizabeth Denly/TRC Environmental Corporation
Date: January 26, 2004

Samples Reviewed and Evaluation Summary

BTEX/MTBE:	11/Soil Vapor/	PL-SG-9, PL-SG-10, PL-SG-11, PL-SG-12, PL-SG-13, PL-SG-14, PL-SG-15, PL-SG-16, PL-SG-17, PL-SG-18, AMBIENT BACKGROUND

The above-listed samples were collected on January 13, 2004 and analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tert butyl ether (MTBE) by EPA Method TO-14. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008* (October 1999), modified as necessary to accommodate the non-CLP methodology used, the project specific QC criteria detailed in the Quality Assurance Project Plan (QAPP), and Region II validation actions.

The organic data were evaluated based on the following parameters:

	■	Overall Evaluation of Data and Potential Usability Issues
*	■	Data Completeness
*	■	Holding Times and Sample Preservation
*	■	Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
*	■	Initial and Continuing Calibrations
*	■	Blanks
*	■	Surrogate Recoveries
	■	Laboratory Duplicate Results
*	■	Internal Standards
*	■	Laboratory Control Sample (LCS) Results
NA	■	Field Duplicate Results
	■	Sample Quantitation and Reported Quantitation Limits
*	■	Target Compound Identification

*	-	All criteria were met.
NA	-	Not Applicable; a field duplicate pair was not submitted with this sample set.

First Avenue, Parking Lot N57403

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives.

Qualification of the data as a result of sampling error was not required. Qualification of the data as a result of analytical error is discussed below.

- Potential uncertainty exists for select results which were below the lowest calibration standard and quantitation limit. These results were qualified as estimated (J) in the associated samples by the laboratory. These results can be used for project objectives as estimated values which may have a minor impact on the data usability.

- The positive result for MTBE in sample PL-SG-12 was qualified as estimated (J) due to a high relative percent difference (RPD) in the evaluation of the laboratory duplicate analysis. This result is usable for project objectives as an estimated value. This qualification may have a minor impact on the data usability.

The validation recommendation listed above was based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP Category B deliverables.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All criteria were met.

Blanks

Target compounds were not detected in the laboratory method blanks or the SUMMA® canister certification analyses.

Surrogate Recoveries

All criteria were met.

First Avenue, Parking Lot N57403

Laboratory Duplicate Results

Duplicate analyses were performed on samples PL-SG-12 and PL-SG-16. The RPDs of the detected compounds were within the acceptance criteria in the duplicate analysis of sample PL-SG-16. The RPD of MTBE (17) exceeded the acceptance criterion in the duplicate analysis of sample PL-SG-12. The positive result for MTBE was qualified as estimated (J) in sample PL-SG-12.

Internal Standards

All criteria were met.

LCS Results

All criteria were met.

Field Duplicate Results

A field duplicate pair was not submitted with this sample set. No validation action was required on this basis.

Sample Quantitation and Reported Quantitation Limits

Sample calculations were spot-checked; there were no errors noted.

Select results were reported which were below the lowest calibration standard level and quantitation limit. These results were qualified as estimated (J) by the laboratory.

Samples PL-SG-11 (2-fold) and PL-SG-13 (4-fold) were analyzed on dilution due to the elevated concentrations of non-target compounds. Quantitation limits were elevated accordingly by the laboratory.

Target Compound Identification

All criteria were met.

Qualified Form Is

Accutest Laboratories

Report of Analysis

Client Sample ID:	PL-SG-16 (SUMMA A241)		
Lab Sample ID:	N57403-1	**Date Sampled:**	01/13/04
Matrix:	AIR - Air Summa ID: A241	**Date Received:**	01/14/04
Method:	TO-15	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20005.D	1	01/20/04	WG	n/a	n/a	VQ797
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	1.3	0.20	ppbv		4.2	0.64	ug/m3
108-88-3	92.14	Toluene	5.0	0.20	ppbv		19	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	1.4	0.20	ppbv		6.1	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	6.5	0.20	ppbv		28	0.87	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	2.3	0.20	ppbv		8.3	0.72	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PL-SG-14 (SUMMA A326)		
Lab Sample ID:	N57403-2	**Date Sampled:**	01/13/04
Matrix:	AIR - Air Summa ID: A326	**Date Received:**	01/14/04
Method:	TO-15	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20007.D	1	01/20/04	WG	n/a	n/a	VQ797
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	0.90	0.20	ppbv		2.9	0.64	ug/m3
108-88-3	92.14	Toluene	1.7	0.20	ppbv		6.4	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	0.27	0.20	ppbv		1.2	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.1	0.20	ppbv		4.8	0.87	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.50	0.20	ppbv		1.8	0.72	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PL-SG-15 (SUMMA A212)		
Lab Sample ID:	N57403-3	**Date Sampled:**	01/13/04
Matrix:	AIR - Air Summa ID: A212	**Date Received:**	01/14/04
Method:	TO-15	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20012.D	1	01/20/04	WG	n/a	n/a	VQ797
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	1.8	0.20	ppbv		5.8	0.64	ug/m3
108-88-3	92.14	Toluene	2.4	0.20	ppbv		9.0	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	0.40	0.20	ppbv		1.7	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.6	0.20	ppbv		6.9	0.87	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PL-SG-13 (SUMMA A189)		
Lab Sample ID:	N57403-4	**Date Sampled:**	01/13/04
Matrix:	AIR - Air Summa ID: A189	**Date Received:**	01/14/04
Method:	TO-15	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20022.D	4	01/20/04	WG	n/a	n/a	VQ798
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	1.6	0.80	ppbv		5.1	2.6	ug/m3
108-88-3	92.14	Toluene	2.3	0.80	ppbv		8.7	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	0.55 J	0.80	ppbv	J	2.4 J	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	2.8	0.80	ppbv		12	3.5	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	ppbv		ND	2.9	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PL-SG-12 (SUMMA A320)		
Lab Sample ID:	N57403-5	**Date Sampled:**	01/13/04
Matrix:	AIR - Air Summa ID: A320	**Date Received:**	01/14/04
Method:	TO-15	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20019.D	1	01/20/04	WG	n/a	n/a	VQ798
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	1.3	0.20	ppbv		4.2	0.64	ug/m3
108-88-3	92.14	Toluene	2.4	0.20	ppbv		9.0	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	0.41	0.20	ppbv		1.8	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.5	0.20	ppbv		6.5	0.87	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.75 J	0.20	ppbv		2.7 J	0.72	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PL-SG-10 (SUMMA A253)		
Lab Sample ID:	N57403-6	**Date Sampled:**	01/13/04
Matrix:	AIR - Air Summa ID: A253	**Date Received:**	01/14/04
Method:	TO-15	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20034.D	1	01/21/04	WG	n/a	n/a	VQ798
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	0.55	0.20	ppbv		1.8	0.64	ug/m3
108-88-3	92.14	Toluene	1.2	0.20	ppbv		4.5	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	0.19 J	0.20	ppbv	J	0.83 J	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.80	0.20	ppbv		3.5	0.87	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.21	0.20	ppbv		0.76	0.72	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	119%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PL-SG-11 (SUMMA A187)		
Lab Sample ID:	N57403-7	**Date Sampled:**	01/13/04
Matrix:	AIR - Air Summa ID: A187	**Date Received:**	01/14/04
Method:	TO-15	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20035.D	2	01/21/04	WG	n/a	n/a	VQ798
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	0.38 J	0.40	ppbv	J	1.2 J	1.3	ug/m3
108-88-3	92.14	Toluene	0.75	0.40	ppbv		2.8	1.5	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.40	ppbv		ND	1.7	ug/m3
1330-20-7	106.2	Xylenes (total)	0.64	0.40	ppbv		2.8	1.7	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.40	ppbv		ND	1.4	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PL-SG-9 (SUMMA A186)		
Lab Sample ID:	N57403-8	**Date Sampled:**	01/13/04
Matrix:	AIR - Air Summa ID: A186	**Date Received:**	01/14/04
Method:	TO-15	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20026.D	1	01/20/04	WG	n/a	n/a	VQ798
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	0.76	0.20	ppbv		2.4	0.64	ug/m3
108-88-3	92.14	Toluene	1.5	0.20	ppbv		5.7	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	0.34	0.20	ppbv		1.5	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.2	0.20	ppbv		5.2	0.87	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.19 J	0.20	ppbv	J	0.69 J	0.72	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PL-SG-18 (SUMMA A205)		
Lab Sample ID:	N57403-9	**Date Sampled:**	01/13/04
Matrix:	AIR - Air Summa ID: A205	**Date Received:**	01/14/04
Method:	TO-15	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20025.D	1	01/20/04	WG	n/a	n/a	VQ798
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	0.59	0.20	ppbv		1.9	0.64	ug/m3
108-88-3	92.14	Toluene	0.46	0.20	ppbv		1.7	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.19 J	0.20	ppbv	J	0.83 J	0.87	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.28	0.20	ppbv		1.0	0.72	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AMBIENT BACKGROUND (SUMMA A291)		
Lab Sample ID:	N57403-10	**Date Sampled:**	01/13/04
Matrix:	AIR - Air Summa ID: A291	**Date Received:**	01/14/04
Method:	TO-15	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20024.D	1	01/20/04	WG	n/a	n/a	VQ798
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	0.93	0.20	ppbv		3.0	0.64	ug/m3
108-88-3	92.14	Toluene	2.0	0.20	ppbv		7.5	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	0.24	0.20	ppbv		1.0	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.2	0.20	ppbv		5.2	0.87	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.11 J	0.20	ppbv	✓	0.40 J	0.72	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PL-SG-17 (A245)		
Lab Sample ID:	N57403-11	**Date Sampled:**	01/13/04
Matrix:	AIR - Air Summa ID: A245	**Date Received:**	01/14/04
Method:	TO-15	**Percent Solids:**	n/a
Project:	First Avenue Properties, Parking Lot 685 First Avenue, New York, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20011.D	1	01/20/04	WG	n/a	n/a	VQ797
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78.11	Benzene	0.26	0.20	ppbv		0.83	0.64	ug/m3
108-88-3	92.14	Toluene	0.24	0.20	ppbv		0.90	0.75	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.12 J	0.20	ppbv	J	0.52 J	0.87	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		78-124%

(a) Matrix spikes are not analyzed by this procedure.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

QC Nonconformance Documentation

Duplicate Summary

Job Number: N57403
Account: TRCNJ TRC Environmental Corporation, NJ
Project: First Avenue Properties, Parking Lot 685 First Avenue, New York, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
N57403-5DUP	Q20018.D	2	01/20/04	WG	n/a	n/a	VQ798
N57403-5 [a]	Q20019.D	1	01/20/04	WG	n/a	n/a	VQ798

The QC reported here applies to the following samples: **Method:** TO-15

N57403-4, N57403-5, N57403-6, N57403-7, N57403-8, N57403-9, N57403-10

CAS No.	Compound	N57403-5 ppbv	Q	DUP ppbv	Q	RPD	Limits
71-43-2	Benzene	1.3		1.4		7	14
100-41-4	Ethylbenzene	0.41		0.48		16	17
1634-04-4	Methyl Tert Butyl Ether	0.75		0.89		17* [b]	16
108-88-3	Toluene	2.4		2.6		8	13
1330-20-7	Xylenes (total)	1.5		1.7		13	16

CAS No.	Surrogate Recoveries	DUP	N57403-5	Limits
460-00-4	4-Bromofluorobenzene	102%	97%	78-124%

(a) Matrix spikes are not analyzed by this procedure.
(b) Outside control limits.

Appendix J

NYSDEC SPILL REPORT FORM

DEC REGION# 2 (Long Island City) SPILL NUMBER 9809889

SPILL NAME: E 39TH ST PARKING LOT DEC LEAD: O'CONNELL

C ER'S NAME: RICHARD ROACH NOTIFIER'S NAME: MR MCHUGH

CALLER'S AGENCY: CON ED NOTIFIER'S AGENCY: CON ED

CALLER'S PHONE: (212) 580-6764 EXT. NOTIFIER'S PHONE: (212) 338-3352 EXT.

SPILL DATE: 11/05/1998 TIME: 15:25

CALL RECEIVED DATE: 11/05/1998 TIME: 16:17 RECEIVED BY CID #: 322

	Material Spilled	Mat. Class	Am't Spilled	Units	Am't Recovered
1)	GASOLINE	(Pet)-Haz-Other-Unk.	2	(Gal) Lbs	Unknown
2)		Pet-Haz-Other-Unk.		Gal - Lbs	
3)		Pet-Haz-Other-Unk.		Gal - Lbs	
4)		Pet-Haz-Other-Unk.		Gal - Lbs	

SPILL LOCATION

PLACE: E 39TH ST PARKING LOT

STREET: 320 E 40TH ST

T/C/V: MANHATTEN CO: NEW YORK

CONTACT: RICHARD ROACH

PHONE: (212) 580-6764 EXT.

POTENTIAL SPILLER

NAME: CON ED

STREET: 4 IRVING PLACE

CITY: MANHATTAN

STATE: NY ZIP:

CONTACT:

PHONE: EXT.

SPILL CAUSE

Human Error | Tank Test Failure* | (Tank Failure)

Tr Accident | Housekeeping | Tank Overfill

Eq ent Failure | Deliberate | Other

Vandalism | Abandoned Drums | Unknown

SPILL SOURCE

Gas Station | Private Dwelling | Non-Maj Facility

Passenger Vehicle | Vessel | (Comm/Indust)

Comm. Vehicle | Railroad Car | Non-Comm/Instit

Tank Truck | Major Facility | Unknown

RESOURCE AFFECTED

(On Land) | Groundwater | Air

In Sewer | Surface Water** |

**WATERBODY:

SPILL REPORTED BY

(Responsible Party) | Tank Tester | Local Agency

Affected Persons | DEC | Federal Gov't

Police Department | Citizen | Other

Fire Department | Health Dept. |

CALLER REMARKS: leak from underground fuel tank - spill being cleaned up - tank is being removed

*PBS Number	Tank Number	Tank Size	Test Method	Leak Rate

RIMARY CONTACT CALLED DATE: TIME: hrs. REACHED DATE: TIME: hrs.

ECONDARY CONT. CALLED DATE: TIME: hrs. FAXED BY CID#:

PIN #	T & A	Cost Center	ISR to Central Office
Cleanup Ceased	Meets St'ds NO	Last Inspection	Penalty NO
R II	ENF-INIT	INVES-COM	CAP
UST Trust Eligible YES	Site: A (B) C D E	Resp. Party 1 2 (3) 4 5 6	Reg Close Date 03/13/2003

reated on 11/05/1998 Last Updated on 03/13/2003 Is Updated? YES EDO DATA INPUT [ ]

ate Printed: 03/13/2003

Spill Number: 9809889 **Spill Name:** E 39TH ST PARKING LOT **Printed on:** 03/13/2003

DEC REMARKS

2/16/99: On site with Joe Floryshak, Jerry Mele and Ken Toumey (Con Ed). Con Ed m want to remove all contaminated woil for slae of property. Joe Floryshak s[illegible] that soil is still contaminated at least on south wall of excavation. Con Ed checked old blueprints - property used to be owned by UPS. It was a service station but pumps were west of where Con Ed's pumps were. POssible contamination may have come from UPS system. Unkown where their tanks were.

Con Ed is to talk to their real estate people and see if they are willing/prepared to excavate entire site becuase entire site may be contaminated. Told them that whoever disposes of soil must do it according to contamination levels. I explained that DEC could not determine what would be needed to inactivate/close spill until we see analytical data. Con Ed may want to do Geoprobes throughout the site to get an idea of what they are dealing with and what quantity of material they would have to dispose of if they are going to remove all contaminated woil. (CAE)

8/2/99: Con Ed submits Subsurface Investigation Rpeort for the site. Results indicate that contaminated soils (above STARS guidance values) remain in southeast portion of the site. Con Ed's plan is to continue soil removal in this area.

12/10/99: Plan is to install 3 wells on the property and one on sidewalk. Wells will be monitored for one year. For product, start weekly - if none found move to monthly then quarterly. For dissolved, do initial analysis then quarterly. If excavation for property development occurs before annual monitoring is completed, DEC will want to monitor the excavation. Free product or dors may start entering the excavation. If so, some type of vapor barrier m be necessary for new building. Alos, orinetation of fractures may provide in on where further investigation should take place. (CAE)

12/16/99:letter to Con Ed outlining requirements for additional investigation:
1) Conduct sensitive receptor survey (1/4 mile radius).
2) Determine extent of contamination beyond southeast corner of property.
3) Investigate bedrock fracture contamination (see plan above - wells are to be installed into bedrock).

1/1/00: Transferred from Engelhardt to O'Connell.

1/13/00: Con Ed submits work plan based on above requirements.

2/22/00: E-mail to Joe Floryshak approving worplan with following comments:
"1. Will the core be a fixed core or rotating core? Care should be taken to maintain the orientation of the core during removal.
2. The single core should be taken in the source area (i.e., where the tanks were previously removed).
3. Since all of the overburden was removed previously and the current overburden consists of clean fill, it is not necessary to collect soil samples during the installation of these 3 wells." (JHO)

3/29/00: Met with Jaques Whitford Co. (consultant) on site - they are installing bedrock wells. One core was taken in source area - approx 6" to 8" of decomposed bedrock with slight odor, low PID hit. Competant (but fractured) be ock to bottom of core. No evidence of contamination. Fractures don't appear

Spill Number: 9809889 **Spill Name:** E 39TH ST PARKING LOT **Printed on:** 03/13/2003

DEC REMARKS (Continued)

t[illegible]be water bearing. Core is to be shipped to White PLains office for further a[illegible]ysis. They installed a well in this location.

They are in process of installing air-rotary boring/well at first downgradient location. Thus far no evidence of contamination. There is perched water above the bedrock - no odor or PID hits. (JHO)

4/20/00: call from Joe Floryshak - deep well (MW-3R, downgradient) along 39th St. checked today - found free product (gasoline). He will discuss with consultant and put together proposal for further delineation and remediation. (JHO)

7/18/00: Con Ed submits Site Investigation Report (SIR). Includes results of Sensitive Receptor Survey (possible vapor migration into subsurface sturtures, i.e., basements manholes, etc.); results of bailing and monitoring efforts on well MW-3R (decrease of product thickness with time, also baildown tests reveal low hydraulic conductivity of bedrock fractures); and resutls of soil and groundwater monitoring (residual soil and groundwater contamination extend off-site to the southeast). The SIR did not contain any recommendations for further remedial actions. (JHO)

Mid-2000: Con Edison transfers "ownership" of the property to TRC Environmental for the purposes of entering the Voluntary Cleanup Program. TRC continues remedial activities, including additional soil/source removal and free product recovery (minimal), as well as application of Oxygen Releasing Compound (ORC) to speed remediation of impacted groundwater. This effort was ov[illegible]seen by Albany DER staff (Tom Gibbons).

3/12/03: Tom Gibbons issues letter to TRC indicating that remedial objectives for the property under the VCA have been met. Close out.

New York State Department of Environmental Conservation
Division of Environmental Remediation
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625 Broadway, Albany, New York 12233-7015
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Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

March 20, 2003

Mr. Michael Skirka
TRC Environmental Corporation
1200 Wall Street West, 2nd Floor
Lyndhurst, New Jersey 07071

Dear Mr. Skirka:

Voluntary Cleanup Project
First Avenue Properties VCP Sites
Parking Lot, 685 First Avenue, ID # V00429-2
Proposed Barrier Wall

The New York State Department of Environmental Conservation (NYSDEC) has reviewed TRC's March 7, 2003 letter requesting that NYSDEC approve a plan to construct a barrier wall along the southeastern corner of the parking lot. The purpose of this barrier wall is to eliminate any potential for residual offsite contamination (petroleum-impacted soil) beneath the sidewalk to impact clean onsite soil and interfere with future site development. While the NYSDEC is not requiring the construction of this proposed barrier wall and it is not a requirement of the approved Remedial Action Work Plan for this property, the Department finds the plan acceptable.

If you have any question, don't hesitate to call me at (518) 402-9622.

Sincerely,

Thomas Gibbons
Project Manager
Bureau of Eastern Remedial Action
Division of Environmental Remediation

cc: R. Cozzy/File

ec: M. Lesser
T. Gibbons
G. Laccetti/K. Anders (DOH)
J. O'Connell (Reg. 2)

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Erin M. Crotty
Commissioner

January 24, 2003

Mr. Michael Skirka
TRC Environmental Corporation
1200 Wall Street West, 2nd Floor
Lyndhurst, New Jersey 07071

Dear Mr. Skirka:

Voluntary Cleanup Project
First Avenue Properties VCP Sites
Parking Lot, 685 First Avenue, ID # V00429-2
Groundwater Monitoring

This letter follows up on our discussions at the First Avenue Properties Site on January 16, 2003 and your subsequent e-mail on January 20, 2003 concerning two issues:

1. The need to install an additional bedrock monitoring well within the new VOC area identified by TRC during recent excavation activities at the Parking Lot; and

2. The sampling schedule for MW-2R, located at Waterside Generating Station.

The New York State Department of Environmental Conservation (NYSDEC) has reevaluated the groundwater monitoring network for the Parking Lot and considers the existing monitoring points to be adequate to monitor impacts from all affected areas within the Site. As such, additional monitoring wells in the new VOC area will not be necessary. With respect to the frequency of monitoring downgradient of the Parking Lot at MW-2R, located at the Waterside Generating Station, the NYSDEC considers a quarterly monitoring schedule to be sufficient to identify any potential offsite impacts.

If you have any questions, don't hesitate to call me at (518) 402-9622.

Sincerely,

Thomas Gibbons
Project Manager
Bureau of Eastern Remedial Action
Division of Environmental Remediation

cc: R. Cozzy/File
T. Gibbons
G. Laccetti/K. Anders (DOH)

ec: J. O'Connell

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Erin M. Crotty
Commissioner

March 14, 2003

Mr. Michael Skirka
TRC Environmental Corporation
1200 Wall Street West, 2nd Floor
Lyndhurst, New Jersey 07071

Dear Mr. Skirka:

Voluntary Cleanup Project
First Avenue Properties VCP Sites
Parking Lot, 685 First Avenue, ID # V00429-2
End Point Samples

The New York State Department of Environmental Conservation (NYSDEC) received your February 21, 2003 memo with an attached map (Figure 3) showing results of the end point sampling for the recently completed parking lot remediation. Based on this data, NYSDEC considers the soil removal activities to be complete and the remedial objectives for this site to have been met. Once the final remediation report has been submitted and approved by the Department, the site will be ready for unrestricted use down to the development depth as described in Section 1 of the "Final Report for Interim Remedial Measures Work Plans and Parking Lot Remediation Work Plan" dated December 2002.

If you have any questions, don't hesitate to call me at (518) 402-9622.

Sincerely,

Thomas Gibbons
Project Manager
Bureau of Eastern Remedial Action
Division of Environmental Remediation

cc: R. Cozzy/File
T. Gibbons

ec: J. O'Connell
G. Laccetti/K. Anders (DOH)

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Erin M. Crotty
Commissioner

June 22, 2004

Mr. Michael Skirka
TRC Environmental Corporation
1200 Wall Street West, 2nd Floor
Lyndhurst, New Jersey 07071

RE: Voluntary Cleanup Project
First Avenue Properties VCP Sites
Parking Lot, 685 First Avenue, ID # V00429-2
Final Report and OM&M Work Plan

Dear Mr. Skirka:

In response to TRC's June 16, 2004 request, the New York State Department of Environmental Conservation (NYSDEC) is writing this letter to clarify its April 2, 2004 letter for the Parking Lot Site at 685 First Avenue as it relates to future development. Our April 2nd letter states the following:

> "if development occurs before NYSDEC-required OM&M activities are completed, prior to commencement of development activities at the site and the abandonment of onsite wells, the Volunteer must submit a proposal for the placement of alternate locations for off-site injection and monitoring wells, if such wells are needed at that time, to continue groundwater remedial efforts."

To further clarify the above, in the event that site development commences prior to the cessation of OM&M activities at the site, additional offsite monitoring and injection wells would be installed. Accordingly, we suggest that, as part of its final OM&M revisions to address NYSDEC's April 2nd comments, TRC include in the revised OM&M Plan the general locations for placement of alternate off-site monitoring and injection wells, if such wells are ultimately needed. NYSDEC recommends that offsite injection wells/Geoprobe points be located between current offsite wells MW-5R and MW-6R just south of the property line in the 39th Street sidewalk. Additional offsite monitoring wells, if required, will be installed between MW-5R and MW-6R and on the Waterside property on the east side of First Avenue. No other feasible monitoring/injection locations exist downgradient of the groundwater plume area due to infrastructure constraints. If development is scheduled to begin before NYSDEC-required OM&M activities are completed, TRC can then abandon all on-site wells and place the off-site wells in the general locations identified in the approved OM&M Plan. The abandonment of existing onsite wells and installation of the new wells can then be completed without the need for any further OM&M Work Plan revisions. NYSDEC would simply require letter notification that the development is going to commence, that the onsite wells will be abandoned and that the injection/monitoring wells will be installed off-site in the general locations specified in the approved OM&M Plan. In that way, on site development can proceed prior to or concurrent with the installation of the off-site replacement wells.

I hope this letter provides the clarification that all parties require. If you have any further concerns, please do not hesitate to call me at (518) 402-9768.

Sincerely,

Thomas Gibbons
Project Manager
Remedial Bureau B, Section D
Division of Environmental Remediation

cc: R. Cozzy/File
T. Gibbons
K. Anders (DOH)

ec: P. D. Smith
D. D'Ambrosio (DEE, Tarrytown)
G. Laccetti/K. Anders (DOH)
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Erin M. Crotty
Commissioner

April 2, 2004

Mr. Michael Skirka
TRC Environmental Corporation
1200 Wall Street West, 2nd Floor
Lyndhurst, New Jersey 07071

RE: Voluntary Cleanup Project
First Avenue Properties VCP Sites
Parking Lot, 685 First Avenue, ID # V00429-2
Final Report and OM&M Work Plan

Dear Mr. Skirka:

The New York State Department of Environmental Conservation (NYSDEC), along with the New York State Department of Health (NYSDOH), have completed its review of the Final Report for Parking Lot Remediation Work Plan (October 2003), the report's addendum entitled Parking Lot Soil Vapor Sampling Results (January 30, 2004; email), and the Operations, Maintenance and Monitoring (OM+M) Work Plan (October 2003) for the above-referenced site. The State finds these documents acceptable with the following provisions:

Final Report for Parking Lot Remediation Work Plan

The report states that a deed restriction will be required, providing that any groundwater removed from the site must be properly treated if removed and may be subject to use restrictions.

Final Report for Parking Lot Remediation Work Plan and Operations, Maintenance and Monitoring (OM+M) Work Plan

In order to manage groundwater at the site during ongoing monitoring well sampling and future development activities, please modify Section 4.2, Page 4-2 of the Final Report and Section 3.2, Page 3-3 of the OM+M Plan to state: A deed restriction will be imposed, to provide that any groundwater must be properly treated for disposal, if removed from the site, and groundwater may be subject to use restrictions.

Revise each report to indicate that: Monitoring wells will not be used as injection wells for ORC application; Monitoring wells may be used for the passive application of ORC thru diffusion socks, and that the ORC socks will be removed from the monitoring wells at least one week prior to sampling. Further revise the reports to indicate 1) that future development of the site may require the abandonment of existing groundwater monitoring wells and the loss of access for ORC injection via separate Geoprobe injection points, and 2) that if development occurs before NYSDEC-required OM+M

activities are completed, prior to commencement of development activities at the site and the abandonment of on-site wells, the Volunteer must submit a proposal for the placement of alternate locations for off-site injection and monitoring wells, if such wells are needed at that time to continue groundwater remedial efforts.

Revise Section 5.0 of the OM+M Plan to state that operations, maintenance and monitoring activities must continue until the State determines that the remedial goals for the site, as presented in the Interim Remedial Measures (IRM) Work Plans and Parking Lot Remediation Work Plan (December 2002) and Section 1.2 of the OM+M Plan, have been achieved.

If you have any question, don't hesitate to call me at (518) 402-9768.

Sincerely,

Thomas Gibbons
Project Manager
Remedial Bureau B, Section D
Division of Environmental Remediation

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