Metropolitan Avenue Site

QUEENS COUNTY, NEW YORK

Site Management Plan

NYSDEC VCP Number: V-00500-2

Prepared for:

NYCSCA
30-30 Thomson Avenue
Long Island City, New York 11101-3045
NYCSCA Job No.: 16032
NYCSCA LLW No.: 12545

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LIST OF ACRONYMS

Acronym	Definition
NYS	New York State
VCP	Voluntary Cleanup Program
NYSDEC	New York State Department of Environmental Conservation
VCA	Voluntary Cleanup Agreement
AS/SVE	Air Sparging/Soil Vapor Extraction
SMP	Site Management Plan
NYCSCA	New York City School Construction Authority
SoMP	Soil Management Plan
IC	Institutional Control
EC	Engineering Control
ESA	Environmental Site Assessment
RECs	Recognized Environmental Conditions
USTs	Underground Storage Tanks
NYCDOT	New York City Department of Transportation
AKRF	AKRF, Inc.
ACM	Asbestos-Containing Material
Weston	Roy F. Weston of New York, Inc.
FER	Final Engineering Report
COC	Contaminant of Concern
TCA	1,1,1-trichloroethane
PCE	Tetrachloroethane
AOC	Area of Concern
VOCs	Volatile Organic Compounds
LIRR	Long Island Rail Road
RSCOs	Recommended Soil Cleanup Objectives
TAGM	Technical Administrative Guidance Memorandum
RAWP	Remedial Action Workplan
RI	Remedial Investigation
RAO	Remedial Action Objective
SSDS	Sub Slab Depressurization System
ESI	Environmental Site Investigation
TAL	Target Analyte List
TCL	Target Compound List
PCBs	Polychlorinated Biphenyls
STARS	Spill Technology and Remediation Series

Acronym	Definition
ppb	Parts per billion
BMS	Building Management System
MNA	Monitored Natural Attenuation
CAMP	Community Air Monitoring Program
OM&M	Operation, Maintenance and Monitoring
NYSDOH	New York State Department of Health
HASP	Health and Safety Plan
QAPP	Quality Assurance Project Plan
DUSR	Data Usability Summary Report
NYCDOE	New York City Department of Education

SITE MANAGEMENT PLAN

1.0 INTRODUCTION AND DESCRIPTION OF REMEDIAL PROGRAM

1.1 INTRODUCTION

This document is required for fulfillment of Remedial Action at the Metropolitan Avenue Site (hereafter referred to as the "Site") under the New York State (NYS) Voluntary Cleanup Program (VCP) administered by New York State Department of Environmental Conservation (NYSDEC). The Site was remediated in accordance with the Voluntary Cleanup Agreement (VCA) Index# W2-0897-01-08, Site # V-00500-2, which was issued on June 27, 2002. A copy of this document will be maintained in the school custodian's office for the life of the school in addition to the offices of the NYSDEC, public repositories, and the New York City School Construction Authority (NYCSCA).

The proposed redevelopment plan and end use is an educational campus consisting of two (2) New York City Public Schools.

The educational campus will consist of a 5-story building to be constructed in the center of the Site. A sub slab depressurization system and gas vapor barrier will be installed beneath the basement of the building at a depth of approximately 16 feet below grade surface (bgs). A play area will be located on the eastern portion of the Site and an athletic field will be located on the western portion of the Site.

1.1.1 General

FC Metropolitan Associates, L.P., c/o Forest City Ratner Companies entered into a VCA with the NYSDEC to develop an 8.25-acre property located at 87-01 69th Avenue and 92-34 Metropolitan Avenue in Forest Hills, Queens County, New York into an educational campus. This VCA required the FC Metropolitan Associates, L.P., c/o Forest

City Ratner, to investigate and remediate contaminated media at the Site. The boundary of this 8.25-acre VCP Site is more fully described in Appendix A – Metes and Bounds Survey. A map of the Site location is shown in Figure 1. The Site boundary is shown in Appendix B.

After completion of the remedial work described in the Remedial Action Work Plan, some contamination was left in the subsurface at this Site, which is hereafter referred to as 'residual contamination.' This Site Management Plan (SMP) was prepared to manage this residual contamination at the Site in perpetuity or until extinguishment of the Environmental Easement in accordance with 6 NYCRR Part 375. Remedial actions on the Site began in August 2000 with the excavation of soils contaminated with volatile organic compounds (VOCs) associated with a former warehouse drain located in the central portion of the Site. Under the VCP, an air sparging/soil vapor extraction (AS/SVE) system was designed and constructed to remediate any residual VOCs in soil and groundwater contaminated with VOCs that had migrated into the groundwater from the former warehouse drain. The remedial system operated from April 2005 to March 2007 at which time, the system was shut down. Post-remediation monitoring was completed between April and July 2007, and verified that the remedial action objectives established in the RAWP had been achieved at the Site. On September 7, 2007, the NYSDEC approved the permanent decommissioning and dismantling of the remedial system at the Site.

All reports associated with the Site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in New York State.

This SMP was prepared by Shaw Environmental & Infrastructure, Inc. (Shaw), on behalf of the NYCSCA, in accordance with the requirements in NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, dated December 2002, and the guidelines provided by NYSDEC. This SMP addresses the means for implementation of Institutional Controls (ICs) and Engineering Controls (ECs), which are required by the Environmental Easement for the Site.

1.1.2 Purpose

The Site contains residual contamination left after completion of the Remedial Action performed under the VCP. ECs have been incorporated into the Site remedy to provide proper management of residual contamination in the future to ensure protection of public health and the environment. A site-specific Environmental Easement will be

recorded with the Queens County Clerk that provides an enforceable means to ensure the continued and proper management of residual contamination and protection of public health and the environment. It requires strict adherence to all Engineering Controls and all Institutional Controls placed on this Site by NYSDEC, by the grantor of the Environmental Easement and any and all successors and assigns of the grantor. ICs provide restrictions on Site usage and mandate operation, maintenance, monitoring and reporting measures for all ECs and ICs. This SMP includes all methods necessary to ensure compliance with all ECs and ICs required by the Environmental Easement for residual contamination at the Site. The SMP has been approved by the NYSDEC, and compliance with this Plan is required by the grantor of the Environmental Easement and grantor's successors and assigns. This plan is subject to change by NYSDEC.

Site management is the last phase of the remedial process and is triggered by the approval of the Final Engineering Report and issuance of the Certificate of Completion (COC) by NYSDEC. The SMP continues in perpetuity or until extinguished in accordance with 6NYCRR Part 375. It is the responsibility of the Environmental Easement grantor, and its successors and assigns to ensure that all Site Management responsibilities under this plan are performed.

The SMP provides a detailed description of all procedures required to manage residual contamination at the Site following the completion of the Remedial Action in accordance with the NYS VCA with the NYSDEC. In the case of the Metropolitan Avenue Site, this includes: (1) development, implementation, and management of all Engineering and Institutional Controls; (2) development and implementation of monitoring systems and a Monitoring Plan; (3) development of a plan to operate and maintain all collection systems; and, (4) submittal of Site Management Reports, performance of inspections and certification of results, and demonstration of proper communication of Site information to NYSDEC. To address these needs, this SMP includes four plans: (1) an Engineering and Institutional Control Plan for implementation and management of EC/ICs; (2) a Monitoring Plan for implementation of Site Monitoring; (3) an Operation and Maintenance Plan for implementation of collection systems; and, (4) a Site Management Reporting Plan for submittal of data, information, recommendations, and certifications to NYSDEC.

Site Management activities, reporting, and EC/IC certification will be scheduled on a certification period basis. The certification period will be annually.

Important notes regarding this SMP are as follows:

- This SMP defines site-specific implementation procedures as required by the Environmental Easement. The penalty for failure to implement the SMP is revocation of the COC;
- At the time this report was prepared, the SMP and all Site documents related to Remedial Investigation (RI) and Remedial Action are maintained at the NYSDEC Region 2 offices in Long Island City. At the time of SMP submission in September 2007, the Site documents can also be found in the repositories established for this project, including:

Queensboro Public Library

Business Science and Technology Division

89-11 Merrick Boulevard

Jamaica, New York 11432

Telephone: 718/990-00751

Hours: Monday – Friday, 10 AM to 9 PM

Hours: Saturday, 10 AM to 5:30 PM

Hours: Sunday, 12 PM to 5 PM

Community Board No. 6 Office

73-05 Yellowstone Boulevard

Forest Hills, New York 11375

Telephone: 718/263-9250 (call in advance)

Hours: Monday – Friday, 9 AM to 5 PM

1.2 SITE BACKGROUND

1.2.1 Site Location and Description

The Site is located in the County of Queens (New York City), New York and is identified as Block 3886 and Lots 800 and 830 on the Queens County Tax Map. The Site

is an approximately 8.25-acre area bounded by Sybilla Street, 69th Avenue, 70th Avenue, Ursula Place, residential properties and commercial properties to the north; railroad tracks for the Long Island Rail Road (LIRR) and commercial properties to the south; 70th Road and commercial properties to the east; and railroad tracks for the LIRR and commercial properties to the west (see Figure 2). The boundary of the Site is more fully described in Appendix A – Metes and Bounds Survey.

1.2.2 Site History

Past Uses

The property at 87-01 69th Avenue was at one time the site of a warehouse and office facility for the HJ Heinz Company, which operated a food distributorship. The Heinz facility was initially identified on a Sanborn Fire Insurance Map (Sanborn) from 1950. At one time, the property contained two structures; one which served as a warehouse building (southern structure), while the other served as an office building (northern structure). The office building also served as a vehicle maintenance area associated with a funeral escort service. Both structures were of single-story brick construction with poured concrete floors. The buildings and floor slabs have since been demolished and removed.

The property located at 92-34 Metropolitan Avenue was at one time the site of All-County Lumber. The property is a small trapezoidal-shaped parcel located at the northern tip of the former HJ Heinz property. This property at one time contained three structures which served as the main lumber/hardware store, and two open storage sheds. The storage sheds appear to have been used for piping and lumber storage. A Sanborn Fire Insurance map from 1936 identifies the Central Foundry Company occupying the property of what is presently known as the All-County Lumber property. It is reported that the Central Foundry Company sold plumbing materials and supplies. A 1995 Sanborn Fire Insurance Map designates the property as a lumberyard. The time frame in which the Central Foundry Company became the All-County Lumber Company is not known.

A portion of the Site was also used by a coal supply company. Activities such as fuel storage in both aboveground and underground storage tanks and vehicle maintenance occurred at the Site.

Past Ownership

Forest City Ratner Companies had owned the Site from May 7, 1997 to March 17, 2003. The NYCSCA acquired the Site from Forest City Ratner Companies in March 17, 2003 and is the current owner of the Site.

Phase I and Phase II Reports

As previously documented in the Remedial Action Workplan (RAWP), AKRF, Inc. (AKRF) performed a Phase I Environmental Site Assessment (ESA) at the property in February 1996. The following recognized environmental conditions (RECs) were identified:

- Historical industrial use of surrounding areas.
- Underground storage tanks (USTs) and known leaking USTs on surrounding properties.
- Adjacent New York City Department of Transportation (NYCDOT) garage and asphalt plant and large pile of asphalt-making materials.
- Presence of existing groundwater monitoring wells.
- Known and potential presence of on-site aboveground and underground storage tanks.
- Suspect asbestos-containing material (ACM) in the former Heinz Co. structures and in the basement of the All-County Lumber building.

Based on the RECs identified in the Phase I ESA, AKRF recommended the following:

- Locate, redevelop, and sample any existing monitoring wells.
- Perform tightness testing of the fuel oil tanks and clean up any spills.
- Close an unregistered 5,000-gallon fuel oil tank.

- Conduct electromagnetic study to determine the location of USTs.
- Conduct a comprehensive Phase II Environmental Site Investigation (ESI) of soil and groundwater.

The Phase II ESIs that were completed by AKRF from May 1995 to August 1996 and by Roy F. Weston of New York, Inc. (Weston) from January 1998 to March 1998 are summarized in Section 2.1 of the Final Engineering Report (FER) prepared by Shaw for NYCSCA dated August 2007.

Sanborn Maps

All Sanborn maps available for the Site were reviewed prior to preparation of the RAWP. Sanborn map coverage of the Site was available for the following years: 1936, 1950, 1980, 1982, 1985, 1986, 1988, 1990, 1991, 1992, 1993, 1994, and 1995. The following lists the prior usage of the Site based on a review of the Sanborn maps.

- **1936:** The northern portion of the property contained three (3) structures associated with Central Foundry Company plumbers' supplies, including two (2) buildings for iron pipe storage and one (1) office. One (1) gasoline tank was identified as being located on this portion of the property. Sanborn map coverage was not available for the central and southern portion of the Site.
- **1950:** The northern portion of the property remained unchanged with the exception of the reference to the gasoline tank which is no longer present. The central and southern portions of the Site contained two (2) structures associated with H. J. Heinz Co. food products, including one (1) warehouse building and one (1) office.
- **1980, 1982, 1985, 1986, 1988, 1990 - 1994:** The Site usage remained unchanged.
- **1995:** The northern portion of the Site was designated as a lumberyard and contained the three (3) previously existing structures. The central and southern portions of the Site remained unchanged.

1.2.3 Geological Conditions

The following sections describe the geology and hydrogeology of the Site.

Geology

No imported fill material has been identified at the Site. Review of boring logs indicate that at one location (SCA-9), fill was documented from 0 – 4 feet bgs. This

material is characterized as sand, gravel and cobbles with broken cement pieces to a depth of 4 feet bgs. This material is not considered to be imported fill, but rather represents the remnants of the demolition of the former Heinz warehouse.

Based on multiple boring logs completed throughout the Site, soils are generally characterized as sands and gravels to a depth of approximately 150 feet bgs where a gray clay is encountered. Boring logs documenting the Site geology are provided in Appendix C. This description is consistent with published literature, which includes classifications of loamy sands and sands in the surficial soils across the Site (Soil Conservation Services STATSGO). A geologic cross section is shown in Figure 3.

Based on the review of the available information including the historic topographic maps, the Site is not a filled former wetland or surface water body.

Hydrogeology

The Site is located within the Brooklyn-Queens Sole Source Aquifer System. Based on Site-specific field investigations, groundwater was encountered at depths of 50 to 65 feet bgs based on surface topographic variations. The groundwater surface corresponds to the top of a predominantly sand and gravel aquifer of glacial origin. This aquifer is approximately 100 feet thick and occurs as a regional formation over much of Queens and adjacent areas. The bottom of the aquifer corresponding to a depth of approximately 150 feet bgs, is bounded by a gray clay as noted above.

Groundwater flow at the Site is in a southerly direction. The horizontal hydraulic gradient is calculated to be approximately 0.002 ft/ft. Based on groundwater elevation data obtained during the February 2003 monitoring event from the different cluster well locations, vertically downward gradients were generally characterized between the shallow and deeper portions of the aquifer; however, there are also minor vertically upward gradients characterized at some locations. For example, at the 9S/9I/9D well cluster location a downward vertical gradient was characterized between the shallow (9S) and intermediate (9I) wells and very slightly upward vertical gradient was characterized between the deep (9D) and intermediate (9I) well. At the 14S/14I/14D cluster location, the groundwater elevation in the deep aquifer well (14D) was higher than the corresponding shallow (14S) and intermediate (14I) groundwater elevations. Overall, however, downward vertical gradients predominate between the shallow and deeper portions of the aquifer.

A groundwater flow direction map is shown in Figure 4.

1.3 DESCRIPTION OF REMEDIAL INVESTIGATION FINDINGS

The SMP and all Site documents, including the Remedial Investigation and Remedial Action Work Plan, are maintained by the NYSDEC (or successor agency). At the time of publication, these reports could be found at the Region 2 NYSDEC offices in Long Island City, New York.

1.3.1 Summary of Remedial Investigation Findings

The following remedial investigations were performed at the Site between May 1995 and January 2003:

- Phase II ESI performed by AKRF from May 1995 to August 1996;
- Phase II ESI performed by Weston from January 1998 to March 1998;
- Supplemental Phase II ESI performed by Weston from October 1999 to January 2000;
- Pre-Design Groundwater Investigation performed by Shaw Environmental, Inc. (Shaw, formerly IT Corp.) in August 2001;
- Off-Site Groundwater Investigation performed by Shaw in August 2002;
- Supplemental Off-Site Groundwater Investigation performed by Shaw in January 2003.

During the course of these investigations, a total of two (2) geophysical surveys were performed; a total of 28 soil borings and 36 test pits were installed; 36 groundwater monitoring wells were installed; 24 geoprobe wells were installed; and 146 soil gas probes were installed. In addition, following completion of Weston's Supplemental Phase II ESI in January 2000, it was determined that a source area of TCA-contaminated soils was located in the vicinity of the previous Heinz Company warehouse. In August 2000, AKRF directed Brookside Environmental to excavate this area of contaminated soils. Personnel from Weston were also on-site to monitor the excavation work. Approximately 436 tons of TCA-contaminated soil was excavated from the vicinity of the drain system for the warehouse.

Additional information regarding these investigations and the contaminated soil removal activities can be found in the RAWP and in the FER.

Conceptual Model of On-Site and Off-Site Contamination

During historical operations at the Site, TCA and PCE were released into the floor drainage system of the former Heinz warehouse facility that led to the municipal sewer system. This release contaminated underlying soils and migrated downward into the groundwater table beneath the Site which as approximately 50 - 60 feet bgs. Approximately 436 tons of soil, encompassing an area of approximately 400 square feet was removed from the Site. The floor drainage system of the former building also was removed as part of soil remediation.

Because of downward vertical gradients, contamination has been noted in both the shallow and deeper portions of the aquifer. Groundwater beneath the Site flows in a southerly direction and contamination has migrated in the downgradient direction of groundwater flow. As anticipated, contaminant concentrations in groundwater have historically been the highest beneath the source area (i.e. soils within the immediate vicinity of the former building's floor drainage system) and have decreased significantly in the downgradient direction of groundwater flow. Groundwater flows at a rate of only several feet/year and in the process, advection and dispersion are the predominant natural attenuation mechanisms reducing contaminant concentrations in the downgradient groundwater flow regime at the Site. The Supplemental Off-Site Groundwater Investigation and Qualitative Off-Site Exposure Assessment by Shaw listed a receptor to Site contamination, as the Jamaica well field which is located approximately 6,000 feet to the southeast of the Site. Natural attenuation mechanisms will attenuate Site contamination to non detect levels well before reaching the Jamaica water supply area. Please note that this subject well was not in service in 2006. As stated in the Supplemental Off-Site Groundwater Investigation and Qualitative Off-Site Exposure Assessment, there are no other exposure pathways for groundwater contamination migrating off-site.

Upgradient sources of contamination have been documented and contamination from these upgradient sources (Home Depot and the Heidelberg Eastern Bldg/90-30 Metropolitan Avenue) is migrating onto the Metropolitan Avenue Site. This is evident by the low level detection of PCE in particular in monitoring wells that are installed

upgradient of the source area of contamination on the Metropolitan Avenue Site. It is anticipated that there will be continued migration of low level concentrations of VOCs onto the Site from adjacent properties for the foreseeable future.

Areas of Concern

Areas of concerns (AOCs) at the Site were limited to: TCA-contaminated soils, groundwater and soil vapor contaminated with TCA and PCE.

As previously indicated, TCA-contaminated soil associated with the former warehouse drainage system, as well as the drainage piping, was removed from the central portion of the Site in August 2000 according to prior reports by AKRF and Roy F. Weston. The contaminated soils were localized and limited to, the northern side of the former warehouse.

Groundwater contaminated with TCA and PCE was characterized at the Site in the shallow, intermediate, and deep aquifer zones. The shallow, intermediate and deep aquifer zones correspond to the following depths below the water table: 0 - 10 feet, 40 - 60 feet and 90 – 100 feet respectively. Concentrations of TCA were highest in the shallow aquifer zone, with significant reduction in concentration in the intermediate and deep aquifer zones, as well as in the downgradient direction of groundwater flow. PCE concentrations were highest in the shallow and intermediate aquifer zones with significant concentration reduction in the deep aquifer zone and the downgradient direction of groundwater flow.

Soil vapor contaminated with VOCs have been detected across the Site based on historical investigations completed by Weston (1999). Soil gas survey results depict higher concentrations beneath the Site within the vicinity of the former source area. Figures depicting the distribution of VOCs in soil vapor included in the RAWP.

Below is a summary of Remedial Investigation findings:

1.3.1.1 Soil

Based on the findings of the soil borings and test pits installed at the Site between May 1995 and January 2000, the major contaminants identified in Site soils include VOCs in particular, TCA and PCE. Detected TCA concentrations ranged from 0.6 parts per billion (ppb) to 82,000 ppb while detected PCE concentrations ranged from 0.6 ppb to 9,100 ppb in soil across the Site. NYSDEC Technical Administrative Guidance

Memorandum (TAGM) Recommended Soil Cleanup Objectives (RSCOs) for PCE and TCA are 1,400 ppb and 800 ppb, respectively.

As discussed above, there is no indication of imported fill materials on the Site. Soil sampling completed by Weston and others in the 1990s indicates sporadic exceedances of several other VOCs (e.g. xylenes); typical PAHs (e.g. benzo(a)pyrene) and several metals such as nickel and zinc. Copies of the soil boring and test pit sampling data tables are included in the RAWP. Sampling locations from these historical investigations are either not depicted on scaled maps or there is no areal reference of the test locations relative to other Site features. As such, accurate spider maps could not be prepared. In any event, exceedances are minor and sporadic and there is no indication of significant contamination at the Site.

Following the excavation of contaminated soils from the northern side of the former Heinz warehouse, detected TCA concentrations in soils ranged from 1.3 ppb to 620 ppb and detected PCE concentrations ranged from 0.8 ppb to 220 ppb. Residual detections of VOCs were below the NYSDEC TAGM RSCOs.

1.3.1.2 On-Site and Off-Site Groundwater

Based on the findings of the groundwater investigations completed at the Site between May 1995 and January 2003, prior to remediation, the major contaminants identified in Site groundwater are VOCs in particular, TCA and PCE. Detected TCA concentrations range from 0.6 ppb to 1,400 ppb while detected PCE concentrations ranged from 0.72 ppb to 1,100 ppb in groundwater across the Site.

The Off-Site Groundwater Investigation and Qualitative Off-Site Exposure Assessment completed by Shaw in November 2002 consisted of the installation of 14 new monitoring wells at multiple depths within the aquifer, water level measurements and groundwater sampling and analysis. Twelve of the 14 monitoring wells were installed at off-site downgradient locations. The Supplemental Off-Site Groundwater Investigation and Qualitative Off-Site Exposure Assessment completed by Shaw in January 2003 included the installation and sampling of nine (9) additional monitoring wells, including three (3) off-site and downgradient groundwater monitoring wells. The entire groundwater monitoring well array, including these additional on-site and off-site wells were sampled as part of establishing baseline conditions prior to remediation in January 2003. Detected TCA and PCE concentrations in the off-site wells for the

baseline sampling performed in January 2003 range from 61 ppb to 370 ppb for TCA and from 2.5 ppb to 7.2 ppb for PCE.

The groundwater quality standard for both TCA and PCE is 5 ppb. Table 1 summarizes the exceedances of VOCs in on Site and off-site wells from the January 2003 groundwater sampling event. Figure 5 contains a spider map that depicts the VOC exceedances for the January 2003 groundwater sampling event. Also evident from the data is the presence of VOCs, in particular PCE, in monitoring wells along the upgradient property line. Low levels (approximately 30 - 50 ppb) of PCE have historically been detected in these wells. These detections originate from upgradient sources as described in Section 1.3.1, above.

Copies of the groundwater sampling data tables are included in the RAWP.

Figures 6A – 6F depict concentrations of isopleths of the PCE and TCA in the shallow, intermediate and deep portions of the aquifer prior to remediation and demonstrate downgradient migration of these constituents from the original source area (drain system of the former Heinz warehouse) which is monitored by the SCA-9 well cluster, located downgradient of the original source area.

1.3.1.3 On-Site and Off-Site Soil Vapor

Based on the findings of the soil vapor investigation completed at the Site by others from October 1999 to January 2000, the major contaminants identified in Site soil vapor include VOCs in particular, TCA and PCE. Detected TCA concentrations range from 28 ppb to 58,076 ppb while detected PCE concentrations ranged from 27 ppb to 631 ppb in soil vapor across the Site. The higher concentrations of VOCs were detected in the vicinity of the source area.

In April 2005, Shaw collected soil vapor samples at on-site and off-site locations to establish baseline conditions for soil vapor prior to remediation. Table 2 provides a summary of detected VOCs in soil vapor prior to remediation and during remediation. The results of the soil vapor investigations completed between October 1999 to January 2000 by others are provided in the RAWP.

1.3.2 Summary of Remedial Investigation Findings for Off-Site Properties

In addition to the multiple remedial investigations performed at the Site property, investigations have also been completed for two (2) adjacent and upgradient properties:

the Woodhaven Lanes Bowling Alley property and the Home Depot property.

Woodhaven Lanes Bowling Alley

The Woodhaven Lanes Bowling Alley is located northwest of the Site. Investigations conducted on this adjacent property have identified PCE contamination in the groundwater. Historically, the concentrations of PCE in the groundwater downgradient from the Woodhaven Lanes Bowling Alley were reported as high as 33,000 ppb. Investigations performed at the Woodhaven Lanes Bowling Alley property and immediate surrounding properties did not identify a source of the PCE on this property. In the late summer and fall of 2000, the NYSDEC performed additional investigations to determine the PCE source area which included groundwater sampling of some wells on the Site property. Based on the NYSDEC investigation, the following conclusions can be inferred with regard to the Woodhaven Lanes property: 1) the groundwater beneath the Site is being minimally impacted by the PCE contaminant plume at the Woodhaven Lanes Bowling Alley; and, 2) levels of PCE in the groundwater at the northern end of the Site have decreased over time, indicating that continued migration of PCE onto the Site is not occurring.

Home Depot Property

The Home Depot property is located immediately west of the Site. The current Home Depot was constructed in the mid-1990s. Prior to Home Depot, the property was utilized for industrial and commercial purposes since 1914. Investigations performed at the Home Depot property identified the presence of substantial PCE contamination in both soil and groundwater. Concentrations of PCE in the soil and groundwater in August 1998 were reported as high as 8,000,000 ppb and 24,000 ppb, respectively. Remedial activities performed at the Home Depot property between April 1999 and October 1999 included the following: excavation and removal of 4,500 cubic yards (CY) of PCE-contaminated soil and installation of an AS/SVE system to remediate soil and groundwater. Since the Home Depot remedial measures were implemented, there has been considerable improvement in groundwater quality as evidenced in the March 2001 groundwater sampling event during which PCE was detected below 10 ppb. Groundwater data for the Site property during August 2001 also found a decline in PCE concentrations. The presence of low concentrations of PCE at the eastern boundary of the Home Depot property suggests that the migration of significant levels of PCE onto the Site is unlikely.

Additional information regarding the off-site remedial investigations is included in the RAWP.

1.4 DESCRIPTION OF REMEDIAL ACTIONS

Following completion of Weston's Supplemental Phase II ESI in January 2000, a source area of TCA-contaminated soils was identified within the footprint of the previous Heinz Company warehouse, and corresponded to soils within the immediate vicinity of the former building' underground piping to the municipal sewer. In August 2000, AKRF directed Brookside Environmental to excavate contaminated soils and to remove the piping of the former building. Personnel from Weston were also on-site to monitor the excavation work. Approximately 436 tons of TCA-contaminated soil was excavated from the vicinity of the sanitary waste drainage system for the warehouse. Nineteen (19) trucks transported the contaminated soils from the Site on August 30, 2000 and September 7, 8 and 14, 2000 to a disposal facility, EQ located in Belleville, Michigan. Both AKRF and Weston collected post-excavation soil samples following the completion of the excavation activities for VOC analysis.

A total of 14 post-excavation soil samples were collected by AKRF and 10 post-excavation soil samples were collected by Weston. Laboratory analytical results for the post-excavation soil samples that were collected by AKRF contained TCA and PCE slightly above the standards for 2 of the 14 samples. Laboratory analytical results for the post-excavation soil samples that were collected by Weston did not contain any exceedances of VOCs.

As discussed previously, VOC (TCA and PCE)-contaminated source area soils were removed from the Site in the area of the former drain system on the Heinz warehouse. The soil removal activities were completed in April 2000. The discharge of contamination into the subsurface resulted in the migration of the contamination into the underlying groundwater. A remedy to remediate the groundwater contamination (including any residual soil contamination) was presented in the NYSDEC-approved RAWP (November 2002) and Remedial Design Report (January 3003). The Site has been remediated in accordance with the scope of work presented in these documents.

Below is a summary of the Remedial Actions completed at the Site in accordance with the RAWP:

1. Installation of an air sparging and soil vapor extraction (AS/SVE) system that encompasses the areas of contaminated soils and

groundwater (above background) beneath the Site;

2. Operation of the AS/SVE treatment system to achieve asymptotic conditions or background, to the extent possible for TCA and PCE in groundwater;

3. Monitoring of groundwater and soil gas at the Site during remediation;

4. Monitoring of groundwater during post-remediation to assess the effectiveness of the treatment system and verify natural attenuation of any residual groundwater contamination;

5. Monitoring of soil gas during remediation to assess the effectiveness of the treatment system.

Additional remedial actions specified in the RAWP that will be implemented under the SMP include the following: installation of a flexible vapor membrane barrier and a passive ventilation system (now an active system) into the new school's construction plan.

In addition, the following remedial measures will also be implemented:

1. Construction and maintenance of an engineered composite cover system consisting of asphalt covered roads, concrete and covered sidewalks, a resilient track surface, synthetic turf, rubber surfacing and concrete building slabs to prevent human exposure to residual contaminated soils remaining under the Site, and;

2. Recording of an Environmental Easement to prevent future exposure to any residual contamination remaining at the Site (a copy of the Environmental Easement is provided in Appendix D).

The approved RAWP is included in Appendix E; this is a digital file of the RAWP.

1.4.1 On-Site and Off-Site Treatment Systems

Construction of the AS/SVE remedial system was completed between August 2004 and January 2005. The system was installed as described in Shaw's Remedial Design Report dated January 2003 and Shaw's Operation, Maintenance, and Monitoring (OM&M) Manual dated January 2003. The system consisted of a series of air sparging wells and soil vapor extraction wells that were designed to cleanup subsurface

contamination at the Site. A series of groundwater monitoring wells and vapor monitoring points were also installed to monitor the cleanup activities and the VOC vapor concentrations.

Routine operation of the remedial system began in April 2005. In July 2006, a review of the groundwater sampling data resulted in recommendations to optimize system performance including installation of additional air sparge wells to remediate contamination that was potentially migrating off-site. Operation of the treatment system was terminated in March 2007, and post-remediation monitoring completed during April 2007 through July 2007 has verified attainment of remedial action objectives established for the Site.

On March 7, 2007 a meeting was held with the NYSDEC and New York State Department of Health (NYSDOH) to discuss the progress of the Site remedy and to request an interim shutdown of the remedial system and the commencement of post-remediation monitoring to verify attainment of the RAOs established for the Site. Interim shutdown of the remedial system was approved by the NYSDEC on March 7, 2007, and interim shutdown procedures were completed on March 8, 2007 in accordance with the OM&M Manual.

On September 7, 2007, the NYSDEC approved the permanent decommissioning and dismantling of the remedial system at the Site.

1.4.2 Residual Contamination

Residual contamination remaining on-site consists of native soils with sporadic exceedances of TAGM RSCOs for some SVOCs and metals, and groundwater with low levels of PCE and to a lesser extent TCA.

Post-remediation monitoring of groundwater was completed on a monthly basis during April 2007, May 2007, June 2007 and July 2007. Figure 7 depicts groundwater data for periods prior to, during and post-remediation at the Site. Post-remediation soil vapor sampling was conducted in July 2007. Figure 8 depicts soil vapor data for periods prior to, during and post-remediation at the Site. Figure 9 depicts a spider map of exceedances for the groundwater sampling performed in July 2007 which was the final post-remediation sampling round. In support of Figure 9, Figures 10A – 10F depict TCA and PCE concentrations in the shallow, intermediate and deep portions of the aquifer for the July 2007 sampling event.

The demarcation layer for native soils relates to the composite cover and is as follows (refer to Figures 11 and 11A for Site cover locations and details):

- A physical layer consisting of two-feet of environmentally clean fill for landscaped areas,
- ¾ inches of environmentally clean crushed stone with geotextile fabric for synthetic turf athletic field,
- Five-inch of environmentally clean aggregate base with filter fabric for the proposed rubberized play area east of school building,
- Four-inch of asphalt base course for the proposed asphalt west of athletic field,
- Six inches of environmentally clean aggregate base for concrete sidewalks, and
- Five inches of reinforced concrete for the basement floor slab of the school building.

A contour map showing the elevation of the native soil layer/demarcation layer as it correlates to the school building and the composite cover systems has been prepared and is depicted on Figure 12.

1.4.3 Engineering and Institutional Controls

Since residual contamination is present at this Site, Engineering Controls and Institutional Controls will be implemented to protect public health and the environment in the future. To address this residual contamination, the Site has three (3) primary Engineering Control Systems. These are: (1) a vapor barrier beneath the School Building and (2) an active sub slab depressurization system (SSDS) beneath the School Building, and (3), a composite cover system consisting of asphalt covered roads, concrete covered sidewalks, a resilient track surface, synthetic turf, rubber surfacing, and concrete building slabs will be constructed as a barrier to subsurface soils.

A series of Institutional Controls are required to implement, maintain and monitor these Engineering Controls. The Environmental Easement requires compliance with these Institutional Controls. These Institutional and Engineering Controls consist of the following:

- Compliance with the Environmental Easement by the Grantee and the Grantee's successors and adherence of all elements of the SMP is required;
- All Engineering Controls must be operated and maintained as specified in this SMP;
- All Engineering Controls on the Controlled Property (the Site) must be inspected and certified at a frequency and in a manner defined in this SMP;
- Data and information pertinent to Site Management for the Controlled Property must be reported at the frequency and in a manner defined in this SMP;
- Groundwater and soil vapor monitoring must be performed as defined in this SMP;
- Groundwater monitor wells and soil vapor monitoring probes must be protected and replaced as necessary to ensure continued functioning in the manner specified in this SMP.

The Site has a series of Institutional Controls in the form of Site restrictions. Adherence to these Institutional Controls is required under the Environmental Easement. Site restrictions that apply to the Site are:

- Vegetable gardens and farming on the Site are prohibited;
- Use of groundwater underlying the Site is prohibited without treatment rendering it safe for the intended use;
- All future activities on the Site that will disturb residual contaminated material are prohibited unless they are conducted in accordance with the soil management provisions of this SMP;
- The Site may be used for a New York City Public School only provided the long-term Engineering and Institutional Controls included in the SMP remain in use.

These EC/ICs should:

- Prevent ingestion of groundwater with contamination levels that exceed drinking water standards;
- Prevent contact with or inhalation of volatiles from contaminated groundwater;
- Restore groundwater to pre-disposal/pre-release conditions, to the extent practicable;

- Prevent the discharge of contaminants to the subsurface;
- Prevent ingestion/direct contact with contaminated soil; and,
- Prevent inhalation of or exposure to contaminants volatilizing from contaminated soil.

2.0 ENGINEERING AND INSTITUTIONAL CONTROL PLAN

2.1 INTRODUCTION

2.1.1 General

Remedial activities completed at the Site were conducted in accordance with the NYSDEC-approved RAWP for the Metropolitan Avenue Site (November 2002). The remedial goals included remediation of any residual VOCs in soils to achieve cleanup levels consistent with TAGM levels; attainment of asymptotic or background concentrations of PCE and TCA in Site groundwater; and to provide added assurance that residual vapors will not impact the school.

A summary of the remedial strategies and EC/ICs implemented at the Site are as follows:

- Construction of a vapor barrier and active sub slab depressurization system to mitigate the migration of any residual VOC vapors into the school building.
- Maintenance of an engineered composite cover system comprised of asphalt covered roads, concrete covered sidewalks, a resilient track surface, synthetic turf, rubber surfacing, and concrete building slabs.
- Registration of an Environmental Easement, including Institutional Controls, to prevent future exposure to any contamination remaining at the Site (a copy of the Environmental Easement is provided in Appendix D).

Since residual VOCs are present in groundwater and soil vapor beneath the Site, and there are sporadic exceedances of VOCs, PAHs and metals in soils, EC/ICs are required to protect human health and the environment. This Engineering and Institutional Control Plan describes the procedures for the implementation and management of all EC/ICs at the Site. The EC/IC Plan is one component of the SMP and is subject to revision by NYSDEC.

2.1.2 Purpose

The purpose of this Plan is to provide:

- A description of all EC/ICs on the Site;
- The basic operation and intended role of each implemented EC/IC;
- A description of the key components of the ICs created as stated in the Environmental Easement;
- A description of the features that should be evaluated during each annual inspection and compliance certification period;
- A description of plans and procedures to be followed for implementation of EC/ICs, such as the implementation of the Soil Management Plan for the safe handling of residual contamination that may be disturbed during maintenance or redevelopment work on the Site; and
- Any other provisions necessary to identify or establish methods for implementing the EC/ICs required by the Site remedy, as determined by the NYSDEC.

2.2 ENGINEERING CONTROL COMPONENTS

2.2.1 Engineering Control Systems

2.2.1.1 Composite Cover System

A composite cover system was not a requirement of the RAWP; however, installation of a composite cover system at the Site will prevent exposure to subsurface native soils.

The composite cover system will be comprised of asphalt-covered roads, concrete-covered sidewalks, two feet of environmentally clean fill at landscaped areas, and a concrete building floor slab. In addition, recreational areas will be constructed which will consist of a resilient track surface, synthetic turf, and rubber surfacing. Figure 11 shows the location of each of the principal cover types to be built at the Site. Details of the principal cover types are provided in Figure 11A. A Soil Management Plan is included in Appendix F of the SMP, and outlines the procedures required in the event the composite cover system is disturbed. The Soil Management Plan is also discussed in

detail in Section 2.3.2 of the SMP. Issues related to maintenance of this cover are provided in the Monitoring Plan included in Section 4 of the SMP.

2.2.1.2 Vapor Barrier

A 60 mil vapor barrier will be installed beneath the school building as an added precaution to prevent any residual soil gas vapors from entering the school building in the future. The fluid applied vapor barrier will consist of Liquid Boot® or an approved NYCSCA equivalent which will be installed above the gravel layer containing the SSDS. Specifications and drawings regarding the installation of the vapor barrier are included in Appendix G of this SMP.

2.2.1.3 Sub Slab Depressurization System (SSDS)

A SSDS will also be installed beneath the school as an added precaution to prevent any residual soil gas vapors from entering the school building in the future. The SSDS will be installed beneath the vapor barrier and will be operated in an active mode until such time as it can be demonstrated to the satisfaction of the NYSDOH, that the system can be converted to the passive mode. Specifications and drawings regarding the installation of the SSDS are included as Appendix H of this SMP.

Procedures for operating and maintaining the SSDS system are documented in the Operation and Maintenance Plan (Section 4 of this SMP). Procedures for monitoring the system are included in the Monitoring Plan (Section 3 of this SMP). The Monitoring Plan also addresses severe condition inspections in the event that a severe condition, which may affect controls at the Site, has occurred.

2.2.2 Criteria for Completion of Remediation/Termination of Remedial Systems

2.2.2.1 Vapor Barrier

The vapor barrier is a permanent control which will be installed beneath the school building as an added precaution to prevent any residual soil gas vapors from entering the school building in the future. The vapor barrier will be placed above the gravel layer containing the SSDS. There is no monitoring or maintenance associated with the vapor barrier.

2.2.2.2 Sub Slab Depressurization System (SSDS)

An active SSDS system will also be installed beneath the school building as an added precaution to prevent any residual soil gas vapors from entering the school

building in the future. The SSDS will be installed beneath the vapor barrier and will be operated in an active mode until such time as it can be demonstrated to the satisfaction of the NYSDEC and the NYSDOH, that the system can be converted to the passive mode.

The active SSDS will not be discontinued without written approval by NYSDEC and NYSDOH. A proposal to discontinue the active SSDS may be submitted by the property owner based on confirmatory data that justifies such request. Systems will remain in place and operational until permission to discontinue use is granted in writing by NYSDEC and NYSDOH.

2.2.2.3 Composite Cover System

The composite cover system is also a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in perpetuity.

2.2.2.4 Monitored Natural Attenuation

Groundwater monitoring activities to assess natural attenuation will continue, as determined by NYSDOH and NYSDEC, until residual groundwater concentrations are found to be below NYSDEC standards or to verify continued asymptotic conditions over an extended period. Monitoring will continue until permission to discontinue is granted in writing by NYSDEC and NYSDOH. Monitoring activities are outlined in the Monitoring Plan of the SMP.

2.3 INSTITUTIONAL CONTROLS COMPONENTS

2.3.1 Institutional Controls

A series of Institutional Controls are required under the SMP to: (1) implement, maintain and monitor Engineering Control systems and (2) prevent future exposure to residual contamination by controlling disturbances of the subsurface contamination. Adherence to these Institutional Controls on the Site (Controlled Property) is required under the Environmental Easement and will be implemented under this Site Management Plan. These Institutional Controls are:

- Compliance with the Environmental Easement by the Grantor and the Grantor's successors and assigns with all elements of this SMP;

- All Engineering Controls must be operated and maintained as specified in this SMP;
- A composite cover system consisting of asphalt covered roads, concrete covered sidewalks, a resilient track surface, synthetic turf, rubber surfacing, two feet of environmentally clean fill at landscaped areas, and a concrete building floor slab must be inspected, certified and maintained as required in this SMP;
- A soil vapor mitigation system consisting of a vapor barrier and an active SSDS under all enclosed building structures must be inspected, certified, operated and maintained as required in this SMP;
- All Engineering Controls on the Site must be inspected and certified at a frequency and in a manner defined in the SMP;
- Data and information pertinent to Site Management for the Site must be reported at the frequency and in a manner defined in this SMP;
- Groundwater and soil vapor monitoring must be performed as defined in this SMP;
- Groundwater monitor wells and soil vapor monitoring points must be protected and replaced as necessary to ensure the devices function in the manner specified in this SMP, and;
- Engineering Controls may not be discontinued without an amendment or the extinguishment of this Environmental Easement.

The Site has a series of Institutional Controls in the form of Site restrictions. Adherence to these Institutional Controls is required by the Environmental Easement. Site restrictions that apply to the Site are:

- Vegetable gardens and farming on the Site are prohibited;
- The use of the groundwater underlying the Site is prohibited without treatment rendering it safe for intended purpose;
- All future activities on the Site that will disturb underlying soils are prohibited unless they are conducted in accordance with the soil management provisions in this SMP;
- The Site may only be used for a school campus provided that the long-term Engineering and Institutional Controls included in this SMP are employed;

- The Site may not be used for purposes other than a school without an amendment or the extinguishment of this Environmental Easement approved in writing by the NYSDEC, and;
- Grantor agrees to submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Site are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Site at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow. This annual statement must be certified by an expert that the NYSDEC finds acceptable.

2.3.2 Soil/Materials Management Plan

The Site has been fully remediated for use as a school. Any future intrusive work that will disturb the residual contamination and modifications or repairs to the composite cover system will be performed in compliance with the Soil Management Plan (SoMP), which is included in this SMP. Intrusive construction work must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) prepared for the Site. The Soil Management Plan is presented in Appendix F. The HASP and the CAMP will be prepared by the approved general contractor and approved by the SCA or other designated entity prior to any intrusive work associated with Site development. For future activities after Site development, the HASP and CAMP will need to be approved by NYCDOE.

The HASP and CAMP are the responsibility of the property owner and should be in compliance with DER-10 Technical Guide and 29 CFR 1910 and 1926, and all other applicable Federal, State and local regulations. Any intrusive construction work must be certified as compliant with the SMP and included in the periodic inspection and certification reports submitted under the Site Management Reporting Plan (See Section 5). The SoMP also includes details on the inspection of the cover systems.

2.3.2.1 Material Screening Methods

Soils already have been screened and sampled for on-site reuse and/or off-site disposal by the installation of nineteen soil borings at the Site. The majority of these

borings were installed in areas of proposed excavation, including the footprint of the proposed school building. No evidence of odorous or contaminated soils was encountered during the installation of the soil borings. Laboratory results of representative soil samples from these borings revealed that levels of VOCs and SVOCs in the soil met the criteria for on-site reuse (see Section 2.3.2.6). The FER presents the scope and results of this soil characterization sampling.

As a result of the soil characterization sampling conducted prior to Site development, there is no need for performing material screening during the planned excavation of soils. Lastly, if necessary to further characterize soils for off-site disposal or on-site reuse, the Contractor will collect additional soil characterization samples; at which time, a qualified environmental professional will perform the screening and assessment of excavated soils.

2.3.2.2 Stockpile Methods

Stockpiling of excavated soil is not anticipated during construction; rather, excavated soils are planned to be directly loaded onto trucks for off-site disposal or on-site reuse. In the unlikely event that stockpiling occurs at the Site, material stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by NYSDEC.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

A dedicated water truck will be available on-Site for dust control.

2.3.2.3 Materials Excavation and Load Out

The Site Engineer or a qualified environmental professional under his/her supervision will oversee all invasive work and the excavation and load-out of all excavated material.

The owner of the Site and its contractors are solely responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the Site will be investigated by the contractor and the Site Engineer. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the Site.

Loaded vehicles leaving the Site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

All transportation vehicles shall be inspected prior to leaving the Site to ensure that no material adheres to the wheels, undercarriage, tailgates, covers or other areas of transport vehicles. All vehicles shall be cleaned by washing tires, undercarriage, and any other contaminated parts prior to leaving the Site.

Locations where vehicles enter or exit the Site shall be inspected daily for evidence of off-site sediment tracking.

The contractor and the Site Engineer will be responsible for ensuring that all egress points for truck and equipment transport from the Site will be clean of dirt and other materials derived from the Site during Site remediation and development. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to Site-derived materials.

The Applicant and associated parties preparing the remedial documents submitted to the State, and parties performing this work, are completely responsible for the safe performance of all invasive work, the structural integrity of excavations, and for structures that may be affected by excavations (such as building foundations and bridge footings).

The Site Engineer will ensure that Site development activities will not interfere with, or otherwise impair or compromise, remedial activities performed under the Remedial Action Work Plan.

Each hotspot and structure to be remediated (i.e., USTs, vaults and associated piping, transformers, etc.) will be removed and end-point remedial performance sampling

completed before excavations related to Site development commence proximal to the hotspot or structure.

All primary contaminant sources (including but not limited to tanks and hotspots) identified during Site Characterization, Remedial Investigation, and Remedial Action will be surveyed by a surveyor licensed to practice in the State of New York. The survey information will be shown on maps to be reported in the Annual Site Management Report.

2.3.2.4 Materials Transport Off-Site

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

A preliminary out-bound truck transport route has been established as follows: 70th Road from Site, Left onto Sybilla, Right onto 69th Road, and 69th Road to Metropolitan Avenue. The preliminary in-bound truck transport route is the same as the outbound route. The preliminary proposed in-bound and out-bound truck route to the Site is shown in Figure 13. Any subsequent changes to the preliminary out-bound and in-bound truck transport route will be submitted in writing to the NYSDEC. This is the most appropriate route and takes into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport.

Trucks will be prohibited from idling for longer than specified by New York City Department of Transportation (NYSDOT) in the neighborhood outside the project Site. As much as feasible and practical, trucks also will be prohibited from stopping in the neighborhood outside the project Site.

Egress points for truck and equipment transport from the Site will be kept clean of dirt and other materials during Site remediation and development.

As much as feasible and practical, queuing of trucks will be performed on-site in order to minimize off-site disturbance. Off-site queuing will be prohibited.

Material transported by trucks exiting the Site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

All trucks will be washed prior to leaving the Site. Truck wash waters will be collected and disposed of off-site in an appropriate manner.

2.3.2.5 Materials Disposal Off-Site

The final disposal locations will be identified and reported to NYSDEC in the Annual Site Management Report. All material excavated and removed from the Site will be disposed in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations.

The following documentation will be obtained and reported by the Site Engineer for each disposal location used in this project to fully demonstrate and document that the disposal of material derived from the Site conforms with all applicable laws: (1) a letter from the Site Engineer to the receiving facility describing the material to be disposed and requesting formal written acceptance of the material. The letter will provide the project identity and the name and phone number of the Site Engineer. The letter will include as an attachment a summary of all chemical data for the material being transported; and (2) a letter from all receiving facilities stating it is in receipt of the correspondence (above) and is approved to accept the material.

Material that does not meet the Part 375 Track One Soil Cleanup Objectives (SCOs) are prohibited from being disposed at Part 360-16 Registration Facilities (also known as Soil Recycling Facilities).

Soils that are contaminated but non-hazardous and are being removed from the Site are considered by the Division of Solid & Hazardous Materials (DSHM) in NYSDEC to be Construction and Demolition (C/D) materials with contamination not typical of virgin soils. These soils may be sent to a permitted Part 360 landfill. They may be sent to a permitted C/D processing facility without permit modifications only upon prior notification of NYSDEC Region 2 DSHM. This material is prohibited from being sent or redirected to a Part 360-16 Registration Facility. In this case, as dictated by

DSHM, special procedures will include, at a minimum, a letter to the C/D facility that provides a detailed explanation that the material is derived from a DER remediation Site, that the soil material is contaminated and that it must not be redirected to on-site or off-site Soil Recycling Facilities. The letter will provide the project identity and the name and phone number of the Site Engineer. The letter will include as an attachment a summary of all chemical data for the material being transported.

The Annual Site Management Report will include an accounting of the destination of all material removed from the Site during work performed under this plan, including excavated soil, contaminated soil, historic fill, solid waste, and hazardous waste, non-regulated material, and fluids. Documentation associated with disposal of all material must also include records and approvals for receipt of the material. This information will also be presented in a tabular form in the Annual Site Management Report.

Bill of Lading system or equivalent will be used for off-site movement of nonhazardous wastes and contaminated soils or other subsurface materials. This information will be reported in the Annual Site Management Report.

In the unlikely event that hazardous wastes derived from on-Site, the hazardous waste will be stored, transported, and disposed of in full compliance with applicable local, State, and Federal regulations.

Appropriately licensed haulers will be used for material removed from this Site and will be in full compliance with all applicable local, State and Federal regulations.

Waste characterization will be performed for off-site disposal in a manner suitable to the receiving facility and in conformance with applicable permits. Sampling and analytical methods, sampling frequency, analytical results and QA/QC will be reported. All data available for material to be disposed at a given facility must be submitted to the disposal facility with suitable explanation prior to shipment and receipt.

2.3.2.6 Materials Reuse On-Site

Material that has been tested and found to contain levels of organic compounds and inorganic analytes that do not exceed Part 375-6.3 Unrestricted Use meeting the

gradation requirements described in the SMP may be reused on the Site, and is referred to as "Environmentally Clean Fill and Backfill." Environmentally Clean Fill shall contain no particles exceeding four inches in the largest diameter. No more than 30 percent of the material shall be retained on a ¾ inch sieve. The material passing the ¾ inch sieve shall contain, by weight, no more than 40 percent passing the No. 100 sieve and 12 percent passing the No. 200 sieve.

The following restrictions of reuse of on-site materials also will apply:

- Concrete crushing or processing on-site may be conducted with appropriate dust suppression measures and community air monitoring; concrete crushing or processing without dust suppression measures and community air monitoring is prohibited.
- Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the Site is prohibited for reuse on-site.
- On-site material removed for grading or other purposes will not be reused within a cover soil layer, within landscaping berms or as backfill for subsurface utility lines.
- Concrete pavement, asphalt pavement, resilient track surface, and/or rubber surfacing material that are removed during construction activities cannot be re-used.

To determine suitability for reuse on Site, materials will be sampled at a frequency of one composite sample for every 500 cubic yards of material. The composite sample will be analyzed for full Part 375 parameters to determine if the material meets the criteria for Environmental Clean Fill.

2.3.2.7 Fluids Management

All liquids to be removed from the Site, including dewatering fluids, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Liquids discharged into the New York City sewer system will be addressed through approval by NYCDEP.

Dewatered fluids will not be recharged back to the land surface or subsurface of the Site. Dewatering fluids will be managed off-site.

Discharge of water generated during remedial construction to surface waters (i.e. a local pond, stream or river) is prohibited without a SPDES permit.

2.3.2.8 Demarcation

After the completion of Site development activities, a final land survey will be performed by a New York State licensed surveyor. The survey will define the top elevation of the composite covers for the Site. Based upon the thickness of each cover, the elevation of residual contaminated soils will be established.

The final land survey, along with the thickness of each cover, will establish the grade of the residual contaminated soils. A map showing the survey results will be included in the Annual Site Management Report and updates to the Site Management Plan.

2.3.2.9 Backfill from Off-Site Sources

All materials proposed for import onto the Site will be approved by the Site Engineer and will be in compliance with provisions in this SMP. Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the Site. All imported soils will meet the definition of Environmentally Clean Fill as specified in Section 2.3.2.6. Non-compliant soils will not be imported onto the Site without prior approval by NYSDEC. Nothing in the approved SMP or its approval by NYSDEC should be construed as an approval for this purpose.

Soils that meet ‘exempt’ fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this Site, will not be imported onto the Site without prior approval by NYSDEC. Nothing in this SMP should be construed as an approval for this purpose.

Solid waste will not be imported onto the Site.

Trucks entering the Site with imported soils will be securely covered with tight fitting covers.

2.3.2.10 Stormwater Pollution Prevention

Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.

Silt fencing or hay bales will be installed around the entire perimeter of the remedial construction area.

2.3.2.11 Contingency Plan

If underground tanks or other previously unidentified contaminant sources are found during on-site development related construction, sampling will be performed on product, sediment and surrounding soils, etc. Chemical analytical work will be for full scan parameters (Target Analyte List (TAL) metals; Target Compound List (TCL) volatiles and semi-volatiles, TCL pesticides and polychlorinated biphenyls (PCBs)). These analyses will not be limited to Spill Technology and Remediation Series (STARS) parameters where tanks are identified without prior approval by NYSDEC. Analyses will not be otherwise limited without NYSDEC approval.

Identification of unknown or unexpected contaminated media identified by screening during invasive Site work will be promptly communicated by phone to

NYSDEC's Project Manager. These findings will be also included in daily and periodic electronic media reports.

2.3.2.12 Community Air Monitoring Plan

The Contractor hired by SCA will prepare and implement a CAMP consistent with the NYSDOH requirements for a Generic Community Air Monitoring Plan. The fixed and mobile monitoring stations will be established as specified in the NYSDOH Generic CAMP. Exceedances observed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers.

2.3.2.13 Odor, Dust and Nuisance Control Plan

2.3.2.13.1 Odor Control Plan

Based upon results of extensive soil characterization sampling, odorous soils are not anticipated to be encountered at the Site.

In the unlikely event of nuisance odors, this odor control plan is capable of controlling emissions of nuisance odors off-site. Odor control methods will be implemented during Site disturbance activities to control emissions of nuisance odors from excavations or stockpiles. The specific odor control method to be utilized will be an odor suppressing foam. If nuisance odors are identified, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. Implementation of all odor controls, including the halt of work, will be the responsibility of the Controlled Property owner's Site Engineer, who is responsible for certifying the Annual Site Management Report.

All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, procedures will include: (a) limiting the area of open excavations; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

2.3.2.13.2 Dust Control Plan

Dust suppression methods that address dust management during invasive on-site work, will include, at a minimum, the items listed below:

- Dust suppression will be achieved though the use of a dedicated on-site water truck for road wetting.
- To the extent feasible and practical, clearing and grubbing of larger sites will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.
- On-site roads will be limited in total area to minimize the area required for water truck sprinkling.

2.3.2.13.3 Other Nuisances

A plan for rodent control will be developed and utilized by the contractor prior to and during Site clearing and Site grubbing.

A plan for noise control will be developed and utilized by the contractor for all soil disturbance work and will conform, at a minimum, to NYCDEP noise control standards.

2.4 INSPECTIONS AND NOTIFICATIONS

2.4.1 Inspections

Inspections of the SSDS and cover system will be conducted at the frequency specified in SMP Monitoring Plan schedule. A comprehensive Site-wide inspection will be conducted annually. The inspections will determine and document the following:

- Whether Engineering Controls continue to perform as designed;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- Sampling and analysis of appropriate media during monitoring events;
- If Site records are complete and up to date; and

- Changes, or needed changes, to the monitoring system;

Inspections will be conducted in accordance with the procedures set forth in the Monitoring Plan of this SMP (Section 3). The reporting requirements are outlined in the Site Management Reporting Plan (Section 5).

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the Site will be conducted to verify the effectiveness of the EC/ICs implemented at the Site by a qualified environmental professional as determined by NYSDEC.

2.4.2 Notifications

2.4.2.1 NYSDEC-Acceptable Electronic Database

The following information is presented in Appendix I in an electronic database format:

- A Site summary;
- The name of the current Site owner and/or the remedial party implementing the SMP for the Site;
- The location of the Site;
- The current status of Site remedial activity;
- A copy of the Environmental Easement; and
- A contact name and phone number of a person knowledgeable about the Environmental Easement's requirements, in order for NYSDEC to obtain additional information, as necessary.

This information should be: 1) modified as conditions change; (2) revised in Appendix I of this document; and, (3) submitted to NYSDEC in the Annual Site Monitoring Report. Should the Environmental Easement be modified or terminated, the copy of the revised Environmental Easement will also be updated in this manner.

2.4.2.2 Non-Routine Notifications

Non-routine notifications are to be submitted by the property owner to the NYSDEC on an as-needed basis for the following reasons:

- 60-day advance notice of any proposed changes in Site use that are consistent with the terms of the Voluntary Cleanup Agreement.

- 10-day advance notice of any proposed ground-intrusive activities.
- Notice within 48-hours of any damage or defect to the foundations structures that reduces or has the potential to reduce the effectiveness of other Engineering Controls and likewise any action taken to mitigate the damage or defect.
- Notice within 48-hours of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of Engineering Controls in place at the Site, including a summary of action taken and the impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to the NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the ECs.

3.0 MONITORING PLAN

3.1 INTRODUCTION

3.1.1 General

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the implemented ECs in reducing or mitigating contamination at the Site. ECs at the Site include a composite cover system, a vapor barrier, and a SSDS system. This Monitoring Plan is subject to revision by NYSDEC.

3.1.2 Purpose

This Monitoring Plan describes the methods to be used for:

- Groundwater sampling and analysis;
- Soil vapor sampling and analysis;
- Evaluating Site information periodically to confirm that the remedy continues to be effective as per the design; and
- Preparing the necessary reports for the various monitoring activities.
- Assessing compliance with NYSDEC groundwater standards;
- Assessing achievement of the remedial performance criteria; and
- Determining the need for implementation of the contingency plan relating to the SSDS (see Section 4.2.6).

To adequately address these issues, this Monitoring Plan provides information on:

- Sampling locations, protocol, and frequency;
- Information on all designed monitoring systems (i.e., well logs);
- Analytical sampling program requirements;
- Reporting requirements;
- Quality Assurance/Quality Control (QA/QC) requirements;

- Inspection and maintenance requirements for monitoring wells;
- Monitor well decommissioning procedures; and
- Annual inspection and certification.

Quarterly monitoring of groundwater will formally begin upon NYSDEC approval of the Final Engineering Report and will be conducted for the first two years after which time, data will be evaluated for determination if groundwater monitoring can be terminated. Trends in contaminant levels in groundwater will be evaluated. Monitoring of soil vapor will also be conducted concurrent with groundwater monitoring, on a quarterly basis for the first two years, after which time, the NYSDEC and the NYSDOH will evaluate the need for further soil vapor monitoring. Monitoring programs are summarized in the table below and outlined in detail in Section 3.2 below.

Monitoring/Inspection Schedule

Monitoring Program	Frequency*	Matrix	Analysis
Groundwater Monitoring Well Sampling	Quarterly for First 2 Years	Groundwater	US EPA Method 8260 for VOCs, including chlorinated hydrocarbons
Soil Vapor Monitoring Sampling	Quarterly for First 2 Years	Soil Vapor	US EPA Method TO-15, including chlorinated hydrocarbons

* The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH

3.2 ENGINEERING CONTROL SYSTEM MONITORING

The following sections discuss the monitoring activities for each of the ECs.

3.2.1 Composite Cover System Monitoring

Exposure to subsurface soils will be prevented by an engineered composite cover system that will be constructed on the Site. This composite cover system will be comprised of asphalt covered roads, concrete covered sidewalks, a resilient track surface, synthetic turf, rubber surfacing, and concrete building slabs. Figures 11 and 11A show the location and design of each cover type to be built at the Site.

3.2.1.1 Composite Cover System Monitoring Schedule

Monitoring of the composite cover system will be performed during the annual inspection of the engineering controls. Inspection frequency is subject to change by NYSDEC and NYSDOH. Unscheduled inspections and/or sampling may take place when a suspected failure of the composite cover system has been reported or an emergency occurs that is deemed likely to affect the operation of the composite cover system. Monitoring deliverables for the composite cover system are specified later in this Plan.

3.2.2 Vapor Barrier Monitoring

A vapor barrier will be installed beneath the school as an added precaution to prevent any residual soil gas vapors from entering the school building in the future. The vapor barrier will be installed above the gravel layer containing the SSDS. There is no required monitoring or maintenance associated with the vapor barrier. Specifications and drawings regarding the installation of the vapor barrier are included in Appendix G of this SMP. Referenced documents, if applicable, also relate to the design of the vapor barrier.

3.2.3 SSDS Monitoring

A SSDS will be installed beneath the school building as an added precaution to prevent any residual soil gas vapors from entering the school building in the future. The SSDS will be installed beneath the vapor barrier and will be operated in an active mode until such time as it can be demonstrated to the satisfaction of the NYSDEC and NYSDOH, that the system can be converted to the passive mode. Specifications and drawings regarding the installation of the SSDS are included as Appendix H of this SMP. Referenced documents, if applicable, also relate to the design of the SSDS.

3.2.3.1 SSDS Monitoring Schedule

An annual inspection of the SSDS will be made by the Department of Education (DOE)/Division of School Facilities (DSF). All of the major SSDS components will be continuously monitored by the Building Management System (BMS). An annual inspection will be made of the basement floor to verify that there are no cracks within the concrete. Any identified cracks will be documented on an inspection form and the location of the crack will be marked on a copy of the as-built drawing for the SSDS. An annual inspection of the stack vent and inlet filter/silencer with bird screen will be made

to confirm that the vent post and sleeve, and the inlet filter and bird screen are clean and free of rust and other debris. Additional information regarding inspections of the SSDS is provided in Section 4.2.

Inspection frequency is subject to change by NYSDEC and NYSDOH. Unscheduled inspections and/or sampling may take place when a suspected failure of the SSDS system has been reported or an emergency occurs that is deemed likely to affect the operation of the system. Monitoring deliverables for the SSDS system are specified later in this Plan.

3.2.3.2 General Equipment Monitoring for SSDS

A visual inspection of the complete system will be conducted during the monitoring event. SSDS system components to be monitored include, but are not limited to, the following:

- Blower;
- Inline filter differential pressure gauge;
- Blower inlet vacuum indicator;
- Blower outlet pressure gauge;
- Blower outlet temperature gauge;
- Discharge flow element;
- Vent discharge cap;
- Dilution air intake.

A complete list of components to be checked is provided in the SSDS Inspection Form/Check List, presented in Appendix J. If any equipment readings are not within their typical range, any equipment is observed to be malfunctioning, or the SSDS system is not performing within specifications, maintenance and repair as per the Operation and Maintenance Plan are required immediately, and the SSDS system will be restarted.

3.2.3.3 SSDS System Monitoring Devices and Alarms

The SSDS system blower will be tied into the BMS. This BMS will indicate the "on" or "off" status of the SSDS system blower. There will be a local SSDS system blower motor starter panel with an "on" or "off" indicator light that will be mounted onto the outside of the SSDS system blower enclosure. In the event that the system light goes into the "off" position, the system will be inspected and applicable maintenance and repairs will be conducted, as specified in the Operation and Maintenance Plan. In addition, the SSDS system will be restarted. Operational problems will be noted in the Annual Site Management Report.

3.3 GROUNDWATER MONITORING PROGRAM

Groundwater monitoring will be performed to assess the performance of the remedy.

3.3.1 Monitoring System Design

The network of monitoring wells is designed to monitor both upgradient and downgradient and off-site groundwater conditions. The network of on-site and off-site wells has been selected to monitor natural attenuation of groundwater conditions at the Site.

Groundwater Monitoring Well Network

Monitoring Well Number	Depth of Well	Screened Interval of Well	Frequency*	Matrix	Analysis
SCA-1A	Estimated 70 feet	Estimated 55 – 70 feet	Quarterly for First 2 Years	Groundwater	US EPA Method 8260 for VOCs, including chlorinated hydrocarbons
SCA-1I	Estimated 70 feet	Estimated 55 – 70 feet	Quarterly for First 2 Years	Groundwater	US EPA Method 8260 for VOCs, including chlorinated hydrocarbons
SCA-5	Estimated 70 feet	Estimated 55 – 70 feet	Quarterly for First 2 Years	Groundwater	US EPA Method 8260 for VOCs, including chlorinated hydrocarbons
SCA-6	Estimated 70 feet	Estimated 55 – 70 feet	Quarterly for First 2 Years	Groundwater	US EPA Method 8260 for VOCs, including chlorinated hydrocarbons
SCA-7	Estimated 70 feet	Estimated 55 – 70 feet	Quarterly for First 2 Years	Groundwater	US EPA Method 8260 for VOCs, including chlorinated hydrocarbons
SCA-8	Estimated 70 feet	Estimated 55 – 70 feet	Quarterly for First 2 Years	Groundwater	US EPA Method 8260 for VOCs, including chlorinated hydrocarbons
SCA-10S	80 feet	65 – 80 feet	Quarterly for First 2 Years	Groundwater	US EPA Method 8260 for VOCs, including chlorinated hydrocarbons
SCA-11S	80 feet	65 – 80 feet	Quarterly for First 2 Years	Groundwater	US EPA Method 8260 for VOCs, including chlorinated hydrocarbons
SCA-11I	110 feet	95 – 110 feet	Quarterly for First 2 Years	Groundwater	US EPA Method 8260 for VOCs, including chlorinated hydrocarbons
SCA-11D	150 feet	135 – 150 feet	Quarterly for First 2 Years	Groundwater	US EPA Method 8260 for VOCs, including chlorinated hydrocarbons
SCA-14S	79 feet	64 – 79 feet	Quarterly for First 2 Years	Groundwater	US EPA Method 8260 for VOCs, including chlorinated hydrocarbons
SCA-14I	110 feet	95 – 110 feet	Quarterly for First 2 Years	Groundwater	US EPA Method 8260 for VOCs, including chlorinated hydrocarbons
SCA-14D	148 feet	133 – 148 feet	Quarterly for First 2 Years	Groundwater	US EPA Method 8260 for VOCs, including chlorinated hydrocarbons
SCA-15S	82 feet	67 – 82 feet	Quarterly for First 2 Years	Groundwater	US EPA Method 8260 for VOCs, including chlorinated hydrocarbons
SCA-15I	110 feet	95 – 100 feet	Quarterly for First 2 Years	Groundwater	US EPA Method 8260 for VOCs, including chlorinated hydrocarbons
SCA-15D	145 feet	130 – 145 feet	Quarterly for First 2 Years	Groundwater	US EPA Method 8260 for VOCs, including chlorinated hydrocarbons

* The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH.

The locations of these wells subject to the groundwater monitoring program are shown in Figure 14. The historical, performance and post-remediation monitoring data for these wells are shown in Figure 7 of this SMP. Baseline water levels and groundwater flow patterns are shown in Figure 4. Spider maps with exceedances and isopleths concentration maps for January 2003 and July 2007 data (where applicable) are depicted on Figure 5 and Figures 6A – 6F, and Figure 9 and Figures 10A – 10F, respectively.

The remaining monitoring wells that had been historically used to monitor the effectiveness of the remedy and interfere with the proposed development of the Site will be abandoned in accordance with NYSDEC monitoring well abandonment protocols. The following lists the existing wells that will be abandoned.

SCA-2
SCA-3
SCA-9S
SCA-9I
SCA-9D

It is important to note that the migration of low levels of VOC contamination migrating onto the Site from upgradient sources may preclude the means to demonstrate that natural attenuation is occurring. This notwithstanding, the monitoring program will demonstrate the effectiveness of the remedy by verifying the absence of significant increasing trends in VOC concentrations.

3.3.2 Groundwater Well Construction

The sixteen (16) groundwater monitoring wells to remain in the monitoring network were installed utilizing a hollow stem auger drill rig. Generally, the wells were constructed of flush-mounted, 2-inch diameter PVC with a 2-inch locking expansion cap. These wells were installed to depths between 55 and 145 feet bgs. A 15-foot well screen was installed at the bottom of the well and surrounded by a sand pack and sand filter. A bentonite seal and cement and bentonite grout were also used to seal the annular space around each well.

Copies of the well construction logs for these 16 wells (where available) are included in Appendix K of this SMP.

3.3.3 Monitoring Schedule

The sixteen (16) groundwater wells in the monitoring network will be sampled on a quarterly basis for the first two years after which time, and based upon ongoing evaluation of the data, the NYSDEC and the NYSDOH will determine if monitoring can be terminated. The SMP will be modified to reflect changes in sampling plans approved by NYSDEC.

Deliverables for the groundwater monitoring program are specified below.

3.3.4 Sampling Event Protocol

All well sampling activities will be recorded in a field book and a groundwater monitoring well sampling log presented in Appendix L. Other observations (e.g., well integrity, etc.) will be noted on the well sampling log. The well sampling log will serve as the inspection form for the groundwater monitoring well network. The following sampling procedures will be followed for each annual groundwater sampling event:

1. Measure Water Level.
2. Install Pump: Slowly lower the pump, safety cable and disposable or dedicated Teflon tubing into the well to the depth specified for that well. The pump intake must be kept at least 2 feet above the bottom of the well to prevent disturbance and resuspension of any sediment present in the bottom of the well. Record the depth to which the pump is lowered.

   Measure the water level again with the pump in the well. Leave the water level measuring device in the well.
3. Purge Well: Start pumping the well at 200 to 500 milliliters per minute (ml/min). The water level should be monitored approximately every 5 minutes. Ideally, a steady flow rate should be maintained which should result in a stabilized water level (drawdown of 0.3 feet or less). Pumping rates should, if needed, be reduced to the minimum capabilities of the pump to ensure stabilization of the water level. Care should be taken to avoid entrainment of air in the tubing (i.e., allow the water level to drop down to the pump intake). Record each adjustment made to the pumping rate and the water level measured immediately after each adjustment.
4. Monitor Indicator Parameters: During purging of the well, monitor and record the field indicator parameters (temperature, specific conductance, pH, redox potential, and dissolved oxygen [DO]) approximately every 5 minutes. The well is considered stabilized and ready for sample collection when the indicator parameters have stabilized for three consecutive readings as follows:

   - $\pm$0.1 for pH

- ±3% for specific conductance (conductivity)
- ±10 mv for redox potential
- ±10% for DO

Dissolved oxygen usually requires the longest time to achieve stabilization. The pump must not be removed from the well between purging and sampling.

5. Collect sample directly from the dedicated or disposable tubing, not from the flow-through monitoring cup discharge hose. Maintain a constant pumping rate during sampling.
6. Remove Pump and Tubing: After collection of the samples, the tubing, unless permanently installed, must be properly discarded or dedicated to the well for resampling by hanging the tubing inside the well.
7. Measure and record well depth.
8. Close and lock the well.

Following sample collection, the samples will be submitted to a NYSDOH-certified laboratory for analysis by US EPA Method 8260 for the detection of VOCs. The monitoring reporting requirements are discussed in Section 3.8 of this SMP.

3.4 SOIL VAPOR MONITORING PROGRAM

Soil vapor monitoring will be performed to assess the performance of the remedy. A baseline soil vapor monitoring program will be immediately implemented. The soil vapor monitoring will include all 28 monitoring points shown on Figure 12 in the Final Engineering Report. This consists of 14 SVE wells and 14 vapor monitoring points. All vapor samples will be analyzed for VOCs and will include the chlorinated hydrocarbons.

3.4.1 Soil Vapor Monitoring System Design

Subsequent quarterly soil vapor monitoring will be completed from new vapor monitoring points that will be installed to monitor soil vapor around the perimeter of the Site. The vapor monitoring program is described the table below.

Soil Vapor Monitoring Well Network

The new vapor monitoring points will be installed to a depth of approximately 15

Vapor Monitoring Point Number	Depth of Vapor Monitoring Point	Screened Interval of Vapor Monitoring Point	Frequency*	Matrix	Analysis
VP-15 (to be installed)	15 feet	5 - 15 feet bgs	Quarterly	Soil Gas	US EPA Method TO-15, including chlorinated hydrocarbons
VP-16 (to be installed)	15 feet	5 - 15 feet bgs	Quarterly	Soil Gas	US EPA Method TO-15, including chlorinated hydrocarbons
VP-17 (to be installed)	15 feet	5 - 15 feet bgs	Quarterly	Soil Gas	US EPA Method TO-15, including chlorinated hydrocarbons
VP-18 (to be installed)	15 feet	5 - 15 feet bgs	Quarterly	Soil Gas	US EPA Method TO-15, including chlorinated hydrocarbons
VP-19 (to be installed)	15 feet	5 - 15 feet bgs	Quarterly	Soil Gas	US EPA Method TO-15, including chlorinated hydrocarbons
VP-20 (to be installed)	15 feet	5 - 15 feet bgs	Quarterly	Soil Gas	US EPA Method TO-15, including chlorinated hydrocarbons
VP-21 (to be installed)	15 feet	5 - 15 feet bgs	Quarterly	Soil Gas	US EPA Method TO-15, including chlorinated hydrocarbons
VP-22 (to be installed)	15 feet	5 - 15 feet bgs	Quarterly	Soil Gas	US EPA Method TO-15, including chlorinated hydrocarbons
VP-23 (to be installed)	15 feet	5 - 15 feet bgs	Quarterly	Soil Gas	US EPA Method TO-15, including chlorinated hydrocarbons

feet bgs, coinciding with likely comparable depths of basements and foundations in the surrounding area. The locations of these vapor points are shown in Figure 15.

3.4.2 Soil Vapor Monitoring Point Construction

The new soil vapor monitoring points in the monitoring network will be installed utilizing a hollow stem auger drill rig. The vapor monitoring points will be constructed of flush-mounted, 2-inch diameter PVC with 10 feet of 0.020 slot PVC well screen. The vapor points will be installed to a depth of approximately 15 feet bgs. A # 2 size gravel pack will be installed around the perimeter of the well screen and the remainder of the 6-inch well bore will be filled with bentonite/cement grout tremied into place. The wellhead will be fitted with a ¼-inch sampling valve (for soil gas samples) and a 2-inch PVC slip cap (for water level and water quality measurements).

The typical construction details for the soil vapor monitoring points are included in Appendix M of this SMP.

3.4.3 Soil Vapor Monitoring Schedule

The nine (9) soil vapor monitoring points in the monitoring network will be sampled in conjunction with the groundwater monitoring wells on a quarterly basis for two years after which time, the NYSDEC and the NYSDOH will evaluate the need for further monitoring. The sampling frequency may be modified by NYSDEC. The SMP will be modified to reflect changes in sampling plans approved by NYSDEC.

Deliverables for the soil vapor monitoring program are specified below.

3.4.4 Soil Vapor Sampling Event Protocol

The following soil vapor sampling protocol is provided:

- The cast iron manhole will be removed and each vapor monitoring point will be purged of 1 well volume through the stopcock using a vacuum pump. The stopcock will then be closed and the well will be allowed to equilibrate for 24 hours;

- A PID meter will be attached to the stopcock with a length of ¼-inch polyethylene tubing. A field reading for total VOCs will be measured and recorded;

- A 6-liter stainless steel Summa canister will be attached to the polyethylene tubing. (The Summa canister must be fully documented by the laboratory for Quality Assurance, which includes properly functioning valves and fully cleaned);

- The valve on the Summa canister will be opened for collection of the sample;

- Following sample acquisition, the valve will be shut off and the canister will be removed from the polyethylene tubing. The canister's steel cap will be replaced over the inlet point and tightened with a wrench or pliers. The stopcock will be closed and the well lid replaced.

- A tag will be attached to the Summa canister identifying the sampling point, the date and time of the sampling event, the analytical method (TO-15), and the sampler's initials;

- The sample will be recorded on a Chain of Custody that will include the sample identification, the date and time of the sampling event, the analytical method, and the laboratory identification number of the Summa canister, to ensure proper analysis in the event that the canister's tag is lost or destroyed. Sample analysis will be for PCE, TCE, and TCA. Samples will be shipped to a certified laboratory via overnight delivery for next day arrival, and;

- All sampling event data will be recorded in a field logbook.

3.5 WELL REPLACEMENT/REPAIRS AND DECOMMISSIONING

Repairs and/or replacement of wells in the monitoring well and vapor monitoring probe network will be performed based on assessments of structural integrity and overall performance. Well decommissioning, for the purpose of replacement, should be reported

to NYSDEC prior to performance and in the annual report. Well decommissioning without replacement must receive prior approval by NYSDEC. Well abandonment will be performed in accordance with NYSDEC's "Groundwater Monitoring Well Decommissioning Procedures (October 1996)." Monitoring wells that are decommissioned because they have been rendered unusable will be reinstalled in the nearest available location, unless otherwise approved by the NYSDEC and NYSDOH.

3.6 SITE-WIDE INSPECTION

Site-wide inspections will be performed on a regular schedule at a minimum of once a year. Site-wide inspections should also be performed after all severe weather conditions that may affect Engineering Controls or monitoring devices. During these inspections, an Annual Inspection Form/Check List will be completed (Appendix N). The form will compile sufficient information to assess the following:

- Compliance with all ICs, including Site usage;
- An evaluation of the condition and continued effectiveness of ECs;
- General Site conditions at the time of the inspection;
- The Site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection;
- Compliance with permits and schedules included in the Operation and Maintenance Plan; and
- Confirm that Site records are up to date.

3.7 MONITORING QUALITY ASSURANCE/QUALITY CONTROL

All sampling and analyses will be performed in accordance with the requirements of the Quality Assurance Project Plan (QAPP) prepared for the Site (Appendix O). Main Components of the QAPP include:

- QA/QC Objectives for Data Measurement;
- Sampling Program:

- Sample containers will be properly washed, decontaminated, and appropriate preservative will be added (if applicable) prior to their use by the analytical laboratory. Containers with preservative will be tagged as such.
- Sample holding times for groundwater will be in accordance with the NYSDEC ASP requirements.
- Field QC samples (e.g., trip blanks, coded field duplicates, and matrix spike/matrix spike duplicates) will be collected as necessary.

- Sample Tracking and Custody;
- Calibration Procedures:
  - All field analytical equipment will be calibrated immediately prior to each day's use. Calibration procedures will conform to manufacturer's standard instructions.
  - The laboratory will follow all calibration procedures and schedules as specified in USEPA SW-846 and subsequent updates that apply to the instruments used for the analytical methods.
- Analytical Procedures;
- Data Reduction and Validation:
  - Data validation will be performed in accordance with the USEPA validation guidelines for organic data review. Validation will include the following:
    - Verification of 100% of all QC sample results (both qualitative and quantitative);
    - Verification of the identification of 100% of all sample results (both positive hits and non-detects);
    - Recalculation of 10% of all investigative sample results; and
- Internal QC and Checks;
- QA Performance and System Audits;
- Preventative Maintenance Procedures and Schedules;
- Corrective Action Measures.

3.8 MONITORING REPORTING REQUIREMENTS

Forms and any other information generated during regular monitoring events and inspections will be kept on file on-site. All forms, and other relevant reporting formats used during the monitoring/inspection events, will be (1) subject to approval by NYSDEC and (2) submitted at the time of the Annual Site Management Report, as specified in the Reporting Plan of the SMP.

All monitoring results will be reported to NYSDEC on an Annual basis in the Site Management Report. A report or letter will be prepared for submission, if required by NYSDEC, subsequent to each sampling event. The report (or letter) will include, at a minimum:

- Date of event;
- Personnel conducting sampling;
- Description of the activities performed;
- Type of samples collected (i.e., groundwater);
- Copies of all field forms completed (e.g., well sampling logs, chain-of-custody documentation, etc.);
- Sampling results in comparison to appropriate standards/criteria;
- A figure illustrating sample type and sampling locations;
- Copies of all laboratory data sheets and the required laboratory data deliverables required for all points sampled (also to be submitted electronically in the NYSDEC-identified format);
- A copy of the laboratory certification;
- Any observations, conclusions, or recommendations; and
- A determination as to whether plume conditions have changed since the last reporting event.

Data will be reported in hard copy or digital format as determined by NYSDEC.

A summary of the monitoring program deliverables are summarized in below.

Monitoring/Inspection Deliverables

Task	Frequency of Sampling*	Reporting Requirements
Groundwater Monitoring	Quarterly for the First 2 Years	Quarterly Groundwater Monitoring Reports and Annual Groundwater Monitoring Report
Soil Vapor Monitoring	Quarterly for the First 2 Years	Filed with Quarterly and Annual Groundwater Monitoring Reports

* The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH

3.9 CERTIFICATIONS

Site inspections and sampling activities will take place as outlined above. Frequency of inspection is subject to change by NYSDEC. Inspection certification for all ICs and ECs will be submitted to NYSDEC on a calendar year basis and must be submitted by March 1 of the following year. A qualified environmental professional, as determined by NYSDEC, will perform inspection and certification. Further information on the certification requirements are outlined in the Reporting Plan of the SMP.

4.0 OPERATION AND MAINTENANCE PLAN

4.1 INTRODUCTION

The Operation and Maintenance Plan describes the measures necessary to operate and maintain any mechanical components of the remedy selected for the Site (i.e., SSDS system). This Operation and Maintenance Plan:

- Includes the steps necessary to allow individuals unfamiliar with the Site to operate and maintain the SSDS system;
- Includes an operation and maintenance contingency plan; and,
- Will be updated periodically to reflect changes in Site conditions or the manner in which the SSDS system is operated and maintained.

Information on non-mechanical Engineering Controls (i.e., composite cover system and vapor barrier) can be found in Section 3 - Engineering and Institutional Control Plan. A copy of this Operation and Maintenance Plan, along with the complete SMP, will be kept at the Site. This Operation and Maintenance Plan is not to be used as a stand-alone document, but as a component document of the SMP. The Operation and Management Plan is subject to NYSDEC revision.

4.2 ENGINEERING CONTROL SYSTEM OPERATION AND MAINTENANCE

The following sections describe the operation and maintenance plan for the SSDS system.

4.2.1 Scope

The only moving part in the SSDS is the blower unit which will be located on the south corner of the property in a water tight enclosure. This blower unit does not have replaceable parts (i.e., belts, motors, fans). Maintenance will consist of replacing the complete blower unit with a new unit when necessary (i.e., the blower unit is no longer functional).

In the event that the blower unit fails, the blower will be replaced and documented for inclusion in the Annual Site Management Report. A spare blower unit will be kept at the school building to reduce the time necessary to replace a non-operational blower unit. Once a spare blower unit has been put into operation, a new blower unit will be ordered and kept at the school as a spare.

The BMS system will continuously monitor the SSDS "on" or "off" status as indicated in Section 3.2.3.3. The custodial staff can readily monitor the blower status in the system in this manner. A weekly log book will be set up to confirm on-going custodial oversight of the SSDS. The custodial staff will be instructed to contact the NYCSCA if there is an interruption in the air flow.

Annual inspection of the SSDS, as well as other engineering controls, will be performed to ensure that all engineering controls are functioning properly.

Routine walk-throughs of the Site will be performed by the custodian, who will identify any observed changes to the basement interior floor surfaces. This procedure will be followed for the entire period the building is used as a school. In the event of a change in previous conditions, the custodian will log the information and immediately request an inspection from the New York City Department of Education (NYCDOE). A follow-up inspection and report of findings and recommendations will be generated.

4.2.2 SSDS Start-Up and Testing

The specifications for the SSDS system describe the components of the system and how they should be installed. The specifications also provide a schedule for inspections to be performed during the system installation as listed below.

#	Inspection Schedule – Milestone Description
1	Subbase preparation following foundation footer.
2	Installation of Sch. 80 PVC collection pipe network and riser "stub-outs" prior to completion of gas permeable aggregate layer. Pressure testing of underground lines shall be performed prior to backfilling.
3	Installation of non-woven geotextile protective underliner.
4	All fluid applied gas vapor barrier appurtenances and seals following the specified curing time.
5	Application of fluid applied gas vapor barrier at all penetrations, installation of overlying geotextile, geotextile overlaps and foundation contact points.
6	Coating thickness inspection as required by manufacturer (1/500 square feet minimum).
7	Final Inspection of all SSDS subsurface components prior to concrete slab pours.
8	Completed installation of exterior risers.
9	Final inspection of completed system.

In addition to the milestone inspections during the system installation, the contractor is also responsible for pressure testing the system prior to startup and making any necessary repairs or replacements.

The pressure testing will be conducted again if, in the course of the SSDS system lifetime, significant changes are made to the system, and the system restarted.

4.2.3 SSDS Operation: Routine Operation Procedures

The contractor will be responsible for submitting all manufacturer's product data, manuals, and drawings related to the SSDS system components including the blowers, switches, dampers, and pressure gauges to the Owner. Copies of these materials will be maintained on-site and available for reference in the event of troubleshooting, adjustments or repairs are necessary.

4.2.4 SSDS Operation: Routine Equipment Maintenance

Following startup and balance of the SSDS system, all gauges and flow element settings should be recorded for future comparison purposes if the system is malfunctioning. The manufacturer's recommendations regarding operation of the blower should be followed. Inspections of all gauges and flow elements should be performed.

4.2.5 SSDS Operation: Non-Routine Equipment Maintenance

In the event that a problem occurs with the SSDS system, the source of the problem will be determined and repairs or replacements will be made as required in accordance with the component manuals. Potential indications of a problem include a 10% loss of flow on the inline filter differential pressure indicator (DPI) gauge. The inline filter should be replaced if a 10% loss of flow occurs.

4.2.6 SSDS Contingency Plan

After completion of the two-year, post-remediation groundwater and soil vapor monitoring described in Section 3.3 and 3.4 above, NYSDEC and NYSDOH will evaluate the data and determine if further monitoring is required. In the event that the NYSDEC and the NYSDOH determine a need to continue monitoring, the following contingency plan will be put into effect at the direction of NYSDEC and NYSDOH.

1. Measurements of the negative pressure will be performed through monitoring of pressure field extension (PFE) points that are incorporated into the design of the SSDS to confirm adequate negative pressure beneath the school.
2. In the unlikely event that monitoring of the PFE points indicates an inadequate vacuum, the following additional contingency measures will be implemented:
    - The New York City Department of Education's Department of School Facilities will be immediately notified.
    - The proper operation of the blower will be verified through the BMS. The blower will be repaired or replaced with a spare on site blower if it is determined to be non operational.
    - A thorough inspection of the slab will be performed to verify the absence of any cracks in the foundation.

- The HVAC system will be inspected to verify that its operation is not affecting performance of the SSDS.
- If no apparent causes of inadequate vacuum are determined, a larger blower unit will be installed and vacuum measurements performed to verify proper operation.

4.3 GROUNDWATER MONITORING WELL MAINTENANCE

If silt accumulation has occurred in the on-site and/or off-site monitoring wells, the wells will be physically agitated/surged and redeveloped. Additionally, monitoring wells will be properly decommissioned and replaced (as per the Monitoring Plan), if an event renders the wells unusable.

4.4 MAINTENANCE REPORTING REQUIREMENTS

Maintenance reports and any other information generated during regular operations at the Site will be kept on-file on-site. All reports, forms, and other relevant information generated will be available upon request to the NYSDEC and submitted as part of the Annual Site Management Report, as specified in the Section 5 of this SMP.

4.4.1 Routine Maintenance Reports

Routine maintenance reports will be kept by the custodial staff in a log book. A Maintenance Inspection Form/Check List (see Appendix P) will also be completed during each routine maintenance event. The form and the log book will include, but not be limited to the following information:

- Date;
- Name, company, and position of person(s) conducting maintenance activities;
- Maintenance activities conducted;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet); and,

- Other documentation such as copies of invoices for maintenance work, receipts for replacement equipment, etc., (attached to the checklist/form).

4.4.2 Non-Routine Maintenance Reports

Any non-routine maintenance event will be recorded in the custodial staff's log book and on the maintenance form (Appendix P) and will include, but not be limited to, the following information:

- Date;
- Name, company, and position of person(s) conducting non-routine maintenance/repair activities;
- Other repairs or adjustments made to the system;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents (included either on the form or on an attached sheet); and,
- Other documentation such as copies of invoices for repair work, receipts for replacement equipment, etc. (attached to the checklist/form).
- A log of the emergency contact correspondence.

4.5 CONTINGENCY PLAN

Emergencies may include injury to personnel, fire or explosion, environmental release, or serious weather conditions.

4.5.1 Emergency Telephone Numbers

In the event of any environmentally related situation or unplanned occurrence requiring assistance, the Owner or Owner's representative(s) should contact the appropriate party from the contact list below. For emergencies, appropriate emergency response personnel should be contacted. Prompt contact should also be made to the qualified environmental professional. These emergency contact lists must be maintained in an easily accessible location at the Site.

Emergency Contact Numbers

Medical, Fire, and Police:	911
One Call Center:	(800) 272-4480 (3 day notice required for utility markout)
Poison Control Center:	(800) 222-1222
Pollution Toxic Chemical Oil Spills:	(800) 424-8802
NYSDEC Spills Hotline	(800) 457-7362

Additional Emergency Contact Numbers

School Custodians, To Be Determined	To be provided
NYCDOE DSF, Bernie Orlan	Work Telephone Number: 718/361-3808 Cell Telephone Number: 347/386-4418
NYCSCA, IEH Division Manager Lee Guterman	Work Telephone Number: 718/472-8502 Cell Telephone Number: 347/386-8533

* Note: Contact numbers subject to change and should be updated as necessary

4.5.2 Map and Directions to Nearest Health Facility

Site Location: 87-01 69th Avenue, Forest Hills, New York

Nearest Hospital Name: Forest Hills Hospital

Hospital Location: 10201 66th Road, Flushing, New York

Hospital Telephone: 718/830-4000

Directions to the Hospital:

1. Go north on 69th Avenue toward Metropolitan Avenue.
2. Turn left onto Metropolitan Avenue.

3. Turn right onto Selfridge Street.

4. Turn slight right onto Yellowstone Boulevard.

5. Turn left onto 66th Road.

Total Distance: 1.92 miles

Total Estimated Time: 7 minutes

Map Showing Route from the Site to the Hospital:

See Attached Map.

4.5.3 Response Procedures

4.5.3.1 Emergency Contacts/Notification System

As appropriate, the fire department and other emergency response group will be notified immediately by telephone of the emergency. The emergency telephone number list is found at the beginning of this Contingency Plan. The list is also posted prominently at the Site and made readily available to all personnel at all times.

If Site operations and/or operation of the SSDS are modified, then the Contingency Plan will be amended as necessary. Any Contingency Plan amendments will be kept on file in the custodian's office.

5.0 SITE MANAGEMENT REPORTING PLAN

5.1 INTRODUCTION

An Annual Site Management Report will be submitted to NYSDEC following the 2010 reporting period, by March 1. The Site Management Report will be prepared in accordance with NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation requirements. This Site Management Reporting Plan and its requirements are subject to revision by NYSDEC.

This report will include the following:

- Identification of all required EC/ICs required by the Remedial Action Work Plan for the Site;
- An evaluation of the Engineering and Institutional Control Plan and the Monitoring Plan for adequacy in meeting remedial goals;
- Assessment of the continued effectiveness of all Institutional and Engineering Controls for the Site;
- Certification of the EC/ICs;
- Results of the required periodic Site Inspections;
- All deliverables generated during the reporting period, as specified in Section 2 EC/IC Plan, Section 3 Monitoring Plan and Section 4 Operation and Maintenance Plan, and;
- Signed and Sealed by a New York State Professional Engineer.

The Site Management Reporting Plan is subject to NYSDEC revision.

5.2 CERTIFICATION OF ENGINEERING AND INSTITUTIONAL CONTROLS

Information of EC/ICs can be found in the Engineering and Institutional Control Plan portion of the SMP. Inspection of the EC/ICs will occur at a frequency described in Section 3 Monitoring Plan and Section 4 Operation and Maintenance Plan. After the last

inspection of the reporting period, a Professional Engineer licensed to practice in New York State will sign and certify the document. The document will certify that:

- On-Site ECs/ICs are unchanged from the previous certification;
- They remain in-place and effective;
- The systems are performing as designed;
- Nothing has occurred that would impair the ability of the controls to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any operation and maintenance plan for such controls;
- Access is available to the Site by NYSDEC and NYSDOH to evaluate continued maintenance of such controls; and
- Site usage is compliant with the environmental easement.

The signed certification will be included in the Annual Site Management Report (see Section 5.4).

5.3 SITE INSPECTIONS

5.3.1 Inspection Frequency

All inspections will be conducted at the frequency specified in the schedules provided in Section 3 Monitoring Plan and Section 4 Operation and Maintenance Plan of this SMP. At a minimum, a Site-wide inspection will be conducted:

- Annually;
- When a breakdown of the SSDS system has occurred; and
- Whenever a severe condition has taken place, such as any erosion or flooding event that may affect the ECs.

5.3.2 Inspection Forms, Sampling Data, and Maintenance Reports

All inspections and monitoring events will be recorded on the appropriate forms for their respective system (refer to Appendix J for the SSDS and Appendix L for

groundwater sampling). Additionally, a general Site-wide inspection form will be completed during the Site-wide inspection (see Appendix N). These forms are subject to NYSDEC revision.

All applicable inspection forms and other records (including all sampling data of any media at the Site and system maintenance reports) generated for the Site during the calendar year will be included in the Annual Site Management Report.

5.3.3 Evaluation of Records and Reporting

The results of the inspection and Site monitoring data will be evaluated as part of the EC/IC certification to confirm that the:

- EC/ICs are in place, are performing properly, and remain effective;
- The Monitoring Plan is being implemented;
- Operation and maintenance activities are being conducted properly; and, based on the above items.

5.4 SITE MANAGEMENT REPORT

The Site Management Report will be submitted annually and will be submitted by March 1 of 2010 following the reporting period. Other activities such as groundwater monitoring reports and soil vapor monitoring reports will be submitted quarterly for the first year, and as determined by NYSDEC thereafter, with those results also incorporated into the Annual Site Management Report. The report will include:

- EC/IC certification;
- All applicable inspection forms and other records generated for the Site during the reporting period;
- Cumulative data summary tables and/or graphical representations of contaminants of concern for groundwater, and soil vapor which include a listing of all compounds analyzed along with the applicable standards, with all exceedances highlighted;

- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables required for all points sampled during the calendar year (also to be submitted electronically in the NYSDEC-specified format);
- A performance summary for the SSDS during the calendar year, including information such as:
    - The number of days the system was run for the reporting period;
    - A description of breakdowns and/or repairs along with an explanation for any significant downtime;
    - A summary of the performance and/or effectiveness monitoring; comments, conclusions, and recommendations based on data evaluation; and
    - Description of the resolution of performance problems.
- A Site evaluation, which will address the following:
    - Any new conclusions or observations regarding Site contamination based on inspections or data generated by the Monitoring Plan for the media being monitored; and
    - Recommendations regarding any necessary changes to the remedy and/or Monitoring Plan.
- A figure showing sampling and well locations, and significant analytical values at sampling locations; and
- Comments, conclusions, and recommendations, based on an evaluation of the information included in the report, regarding EC/ICs at the Site.

The Site Management Report will be submitted, in hard-copy format, to the Region 2 NYSDEC offices, located at 41-40 21st Street, Long Island City, New York, and in electronic format to NYSDEC and NYSDOH.

TABLES

TABLE 1
Summary of Groundwater Exceedances for VOCs Prior to Remediation (January 2003)

METROPOLITAN AVENUE SITE
87-01 69th Avenue / 92-34 Metropolitan Avenue
Forest Hills, Queens, New York 11375

Sample ID / Date / COMPOUND	NYSDEC Groundwater Standard	SCA-1A 1/29/03	SCA-3 1/29/03	SCA-6 1/28/03	SCA-7 1/29/03	SCA-8 1/29/03	SCA-9S 1/31/03	SCA-9I 1/31/03	SCA-11S 1/30/03	SCA-13S 1/23/03	SCA-14S 1/31/03	SCA-15S 1/30/03	SCA-15D 1/30/03	SCA-16I 1/31/03	SCA-16D 1/31/03
Methylene Chloride	5	ND	ND	UJ	UJ	ND	UJ	UJ	ND	ND	UJ	UJ	ND	5.6 UJ	UJ
1,1 Dichloroethene	5	5	10	UJ	5.9 UJ	ND	5.2 UJ	UJ	9.3 UJ	ND	46	1.7	12 J	UJ	130
1,1 Dichloroethane	5	ND	ND	UJ	UJ	ND	UJ	UJ	6.6 UJ	ND	2.9 UJ	UJ	ND	UJ	UJ
Chloroform	7	ND	ND	UJ	UJ	ND	UJ	UJ	2.2J	7.8 J	UJ	3.4 J	1.4 J	UJ	1.6 J
1,1,1 Trichloroethane	5	100	160	6 J	140 J	17	73 J	UJ	8.9 UJ	ND	370 JD	61 J	64 J	3.1 J	63 J
Tetrachloroethene	5	5.8	ND	UJ	2.8 J	2.8J	63 J	220 JD	2.5J	ND	7.2 JD	UJ	ND	UJ	UJ

Notes:
All results expressed in micrograms per liter (ug/L, equivalent to parts per billion).
Standard Organic Data Qualifiers have been used.
ND = not detected at detection limit.
J = Analyte detected at concentrations below the laboratory method detection limit (concentration estimated).
D = Secondary dilution
Bold face and shaded values indicate exceedances of NYSDEC Groundwater Standards.
Compounds for which there are at least one exceedance are listed in this table.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	Propene (µg/m³)		Dichlorodifluoromethane (CFC 12) (µg/m³)		Chloromethane (µg/m³)		1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) (µg/m³)		Vinyl Chloride (µg/m³)		1,3-Butadiene (µg/m³)		Bromomethane (µg/m³)		Chloroethane (µg/m³)		Ethanol (µg/m³)		Acetone (µg/m³)	
VE-1	4/7/2005	0.71	M	2.70		1.20		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	6.20	ND	20.00	
		0.78	M	2.90		1.20		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	6.20	ND	18.00	
Located	7/25/2005	1.80	M	2.40		1.00		1.30	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	10.00		34.00	
On-site	10/27/2005					1.80				0.62	ND					0.62	ND				
	1/10/2006					1.10				0.61	ND					0.61	ND				
	4/27/2006					0.67				0.66	ND					0.66	ND				
						0.67				0.66	ND					0.66	ND				
	7/24/2006					0.66	ND			0.66	ND					0.66	ND				
						0.66	ND			0.66	ND					0.66	ND				
	10/25/2006					0.63	ND			0.63	ND					0.63	ND				
	1/8/2007					1.30				0.67	ND					0.67	ND				
VE-2	4/7/2005	0.79		2.80		1.30		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	6.10	ND	19.00	
		0.83	M	2.70		1.20		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	6.10	ND	22.00	
Located	7/25/2005	1.50	M	2.40		1.10		1.30	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	8.70		21.00	
On-site	10/27/2005					0.83				0.61	ND					0.61	ND				
	1/10/2006					1.10				0.62	ND					0.62	ND				
	4/27/2006					1.20				0.64	ND					0.64	ND				
						1.20				0.64	ND					0.64	ND				
	7/24/2006					0.65	ND			0.65	ND					0.65	ND				
	10/25/2006					0.64	ND			0.64	ND					0.64	ND				
	1/8/2007					3.30	ND			3.30	ND					3.30	ND				
VE-3	4/7/2005	0.82	M	2.60		2.00		0.61	ND	0.61	ND	0.61	ND	1.40		0.61	ND	6.10	ND	20.00	
		0.83	M	2.80		1.40		0.61	ND	0.61	ND	0.61	ND	0.84		0.61	ND	6.10	ND	16.00	
Located		0.83	M	2.80		1.30		0.61	ND	0.61	ND	0.61	ND	0.85		0.61	ND	6.10	ND	16.00	
On-site	7/25/2005	2.10	M	2.40		1.50		1.30	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND	6.60	ND	37.00	
	10/27/2005					0.81				0.61	ND					0.61	ND				
	1/12/2006					0.87				0.63	ND					0.63	ND				
	4/27/2006					0.92				0.66	ND					0.66	ND				
						0.92				0.66	ND					0.66	ND				
	7/24/2006					0.66	ND			0.66	ND					0.66	ND				
	10/25/2006					0.64	ND			0.64	ND					0.64	ND				
	1/8/2007					0.64	ND			0.64	ND					0.64	ND				
VE-4	4/7/2005	0.95	M	2.90		1.20		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	6.20	ND	17.00	
	7/25/2005	1.60	M	2.50		1.10		1.30	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	39.00		6.50	ND
Located	10/27/2005					0.63	ND			0.63	ND					0.63	ND				
On-site	1/11/2006					0.78				0.62	ND					0.62	ND				
	4/27/2006					0.64	ND			0.64	ND					0.64	ND				
						0.64	ND			0.64	ND					0.64	ND				
	7/24/2006					0.65	ND			0.65	ND					0.65	ND				
	10/25/2006					0.63	ND			0.63	ND					0.94					
	1/8/2007					0.64	ND			0.64	ND					0.64	ND				

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
M = Matrix interference; results may be biased high.
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	Trichlorofluoromethane (µg/m³)		Isopropyl Alcohol (µg/m³)		1,1-Dichloroethene (µg/m³)		Methylene chloride (µg/m³)		Trichlorotrifluoroethane (µg/m³)		Carbon Disulfide (µg/m³)		trans-1,2-Dichloroethene (µg/m³)		1,1-Dichloroethane (µg/m³)		Methyl tert-Butyl Ether (µg/m³)		Vinyl Acetate (µg/m³)	
VE-1	4/7/2005	1.40		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	1.20	ND
		1.50		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	1.20	ND
Located	7/25/2005	1.20		1.30		0.65	ND	1.50		0.65	ND	0.65	ND	0.65	ND	0.65	ND	1.20		0.65	ND
On-site	10/27/2005					0.62	ND	0.62	ND					0.62	ND	0.62	ND	0.62	ND		
	1/10/2006					0.61	ND	0.80						0.61	ND	0.61	ND	0.61	ND		
	4/27/2006					17.00		2.20						0.66	ND	0.71		0.84			
						17.00		2.20						0.66	ND	0.71		0.84			
	7/24/2006					33.00		0.71						0.66	ND	1.90		0.66	ND		
						33.00		0.69						0.66	ND	1.90		0.66	ND		
	10/25/2006					25.00		0.63	ND					0.63	ND	1.30		0.63	ND		
	1/8/2007					10.00		1.10						0.67	ND	0.88		0.67	ND		
VE-2	4/7/2005	1.40		0.61	ND	0.61	ND	0.61	ND	0.67		0.61	ND	0.61	ND	0.61	ND	0.61	ND	1.20	ND
		1.40		0.61	ND	0.61	ND	0.61	ND	0.61	ND	7.60		0.61	ND	0.61	ND	0.61	ND	1.20	ND
Located	7/25/2005	1.20		0.94	M	0.65	ND	2.20		0.65	ND	1.00		0.65	ND	0.65	ND	1.30		0.65	ND
On-site	10/27/2005					0.61	ND	0.61	ND					0.61	ND	0.61	ND	0.61	ND		
	1/10/2006					0.62	ND	0.83						0.62	ND	0.62	ND	0.62	ND		
	4/27/2006					0.64	ND	1.30						0.64	ND	0.64	ND	0.64	ND		
						0.64	ND	1.30						0.64	ND	0.64	ND	0.64	ND		
	7/24/2006					11.00		0.65	ND					0.65	ND	1.20		0.66			
	10/25/2006					12.00		0.64	ND					0.64	ND	1.50		0.64	ND		
	1/8/2007					6.00		3.30	ND					3.30	ND	3.30	ND	5.10			
VE-3	4/7/2005	1.40		0.61	ND	0.61	ND	0.93		0.61		0.98		0.61	ND	0.61	ND	0.61	ND	1.20	ND
		1.40		1.10		0.61	ND	0.99		0.61		0.61	ND	0.61	ND	0.61	ND	0.61	ND	1.20	ND
Located		1.40		1.20		0.61	ND	1.00		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	1.20	ND
On-site	7/25/2005	1.20		1.20		0.66	ND	1.20		0.66	ND	2.20		0.66	ND	0.66	ND	1.20		0.66	ND
	10/27/2005					0.61	ND	0.80						0.61	ND	0.61	ND	0.61	ND		
	1/12/2006					0.63	ND	6.00						0.63	ND	0.63	ND	0.93			
	4/27/2006					10.00		0.66	ND					0.66	ND	1.40		1.20			
						10.00		0.66	ND					0.66	ND	1.40		1.20			
	7/24/2006					7.50		0.66	ND					0.67		1.60		0.66	ND		
	10/25/2006					9.10		0.64	ND					0.64	ND	1.90		0.64	ND		
	1/8/2007					5.90		0.64	ND					0.64	ND	0.73		0.64	ND		
VE-4	4/7/2005	1.40		0.62	ND	0.62	ND	0.87		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	1.20	ND
	7/25/2005	1.30		1.60	M	0.65	ND	1.00		0.65	ND	3.40		0.65	ND	0.65	ND	1.50		0.65	ND
Located	10/27/2005					12.00		0.63	ND					0.63	ND	1.50		0.93			
On-site	1/11/2006					0.62	ND	1.00						0.62	ND	0.62	ND	0.62	ND		
	4/27/2006					5.30		0.64	ND					0.64	ND	0.64		1.20			
						5.30		0.64	ND					0.64	ND	0.64		1.20			
	7/24/2006					18.00		0.65	ND					0.65	ND	2.50		0.65	ND		
	10/25/2006					13.00		0.63	ND					0.63	ND	1.10		0.63	ND		
	1/8/2007					6.60		0.64	ND					0.64	ND	0.84		0.69			

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
M = Matrix interference; results may be biased high.
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	2-Butanone (MEK) (µg/m³)	cis-1,2-Dichloroethene (µg/m³)	Ethyl Acetate (µg/m³)	n-Hexane (µg/m³)	Chloroform (µg/m³)	Tetrahydrofuran (µg/m³)	1,2-Dichloroethane (µg/m³)	1,1,1-Trichloroethane (µg/m³)	Benzene (µg/m³)	Carbon Tetrachloride (µg/m³)
VE-1	4/7/2005	41.00	0.62 ND	0.62 ND	0.64	0.62 ND	52.00	0.62 ND	1.20	0.62 ND	0.62 ND
		24.00	0.62 ND	0.62 ND	0.69	0.62 ND	29.00	0.62 ND	0.62 ND	0.66	0.62 ND
Located	7/25/2005	5.80	0.65 ND	0.65 ND	1.10	0.65 ND	1.50	0.65 ND	0.65 ND	0.78	0.65 ND
On-site	10/27/2005		0.62 ND			0.62 ND		0.62 ND	0.62 ND	0.62 ND	0.62 ND
	1/10/2006		0.61 ND			0.61 ND		0.61 ND	0.61 ND	47.00	0.61 ND
	4/27/2006		0.66 ND			30.00		0.66 ND	63.00	0.66 ND	0.66 ND
			0.66 ND			30.00		0.66 ND	63.00	0.66 ND	0.66 ND
	7/24/2006		0.66 ND			15.00		0.66 ND	130.00	0.66 ND	0.66 ND
			0.66 ND			15.00		0.66 ND	130.00	0.66 ND	0.66 ND
	10/25/2006		0.63 ND			6.40		0.63 ND	90.00	0.63 ND	0.63 ND
	1/8/2007		0.67 ND			6.20		0.67 ND	24.00	0.67 ND	0.67 ND
VE-2	4/7/2005	59.00	0.61 ND	0.61 ND	0.71	0.61 ND	81.00	0.61 ND	0.88	0.61	0.61 ND
		70.00	0.61 ND	0.61 ND	0.81	0.61 ND	98.00	0.61 ND	1.00	0.61 ND	0.61 ND
Located	7/25/2005	4.20	0.90	1.10	1.50	0.65 ND	2.10	0.65 ND	1.10	0.92	0.65 ND
On-site	10/27/2005		0.61 ND			0.61 ND		0.61 ND	0.75	0.83	0.61 ND
	1/10/2006		0.62 ND			0.62 ND		0.62 ND	0.62 ND	1.10	0.62 ND
	4/27/2006		0.64 ND			0.64 ND		0.64 ND	0.64 ND	0.96	0.64 ND
			0.64 ND			0.64 ND		0.64 ND	0.64 ND	0.96	0.64 ND
	7/24/2006		0.65 ND			28.00		0.65 ND	84.00	0.65 ND	0.65 ND
	10/25/2006		0.64 ND			14.00		0.64 ND	63.00	0.64 ND	0.64 ND
	1/8/2007		3.30 ND			8.60		3.30 ND	30.00	3.30 ND	3.30 ND
VE-3	4/7/2005	44.00	0.61 ND	0.61 ND	0.65	0.61 ND	61.00	0.61 ND	3.40	0.61 ND	0.61 ND
		24.00	0.61 ND	0.61 ND	0.71	0.61 ND	33.00	0.61 ND	1.70	0.61 ND	0.61 ND
Located		23.00	0.61 ND	0.61 ND	0.67	0.61 ND	33.00	0.61 ND	1.70	0.61 ND	0.61 ND
On-site	7/25/2005	3.60	0.66 ND	0.66 ND	1.60	0.66 ND	0.83	0.66 ND	0.66 ND	0.83	0.66 ND
	10/27/2005		0.61 ND			0.61 ND		0.61 ND	0.79	0.71	0.61 ND
	1/12/2006		0.63 ND			0.63 ND		0.63 ND	1.50	1.60	0.63 ND
	4/27/2006		0.66 ND			1.30		0.66 ND	66.00	0.66 ND	0.66 ND
			0.66 ND			1.30		0.66 ND	66.00	0.66 ND	0.66 ND
	7/24/2006		0.66 ND			3.60		0.66 ND	58.00	0.66 ND	0.66 ND
	10/25/2006		0.64 ND			6.80		0.64 ND	59.00	0.64 ND	0.64 ND
	1/8/2007		0.64 ND			6.50		0.64 ND	21.00	0.64 ND	0.64 ND
VE-4	4/7/2005	63.00	0.62 ND	0.62 ND	0.93	0.62 ND	88.00	0.62 ND	0.79	0.73	0.62 ND
	7/25/2005	11.00	0.65 ND	14.00	15.00	0.65 ND	7.10	0.65 ND	0.65 ND	5.30	0.65 ND
Located	10/27/2005		0.63 ND			2.90		0.63 ND	69.00	0.63 ND	0.63 ND
On-site	1/11/2006		0.62 ND			0.62 ND		0.62 ND	0.62 ND	1.80	0.62 ND
	4/27/2006		0.64 ND			1.50		0.64 ND	25.00	0.64 ND	0.64 ND
			0.64 ND			1.50		0.64 ND	25.00	0.64 ND	0.64 ND
	7/24/2006		0.65 ND			5.40		0.65 ND	110.00	0.97	0.65 ND
	10/25/2006		0.63 ND			5.30		0.63 ND	59.00	1.20	0.63 ND
	1/8/2007		0.64 ND			5.00		0.64 ND	32.00	0.64 ND	0.64 ND

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
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ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	Cyclohexane (µg/m³)		1,2-Dichloropropane (µg/m³)		Bromodichloromethane (µg/m³)		Trichloroethene (µg/m³)		1,4-Dioxane (µg/m³)		n-Heptane (µg/m³)		cis-1,3-Dichloropropene (µg/m³)		4-Methyl-2-pentanone (µg/m³)		trans-1,3-Dichloropropene (µg/m³)		1,1,2-Trichloroethane (µg/m³)		Toluene (µg/m³)	
VE-1	4/7/2005	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	3.20	
		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	3.30	
Located	7/25/2005	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.71		0.65	ND	0.65	ND	0.65	ND	0.65	ND	3.80	
On-site	10/27/2005			0.62	ND			1.30												0.62	ND	2.40	
	1/10/2006			0.61	ND			0.61	ND											0.61	ND	3.50	
	4/27/2006			0.66	ND			1.40												0.66	ND	0.66	ND
				0.66	ND			1.40												0.66	ND	0.66	ND
	7/24/2006			0.66	ND			2.20												0.66	ND	5.90	
				0.66	ND			2.20												0.66	ND	5.70	
	10/25/2006			0.63	ND			1.30												0.63	ND	0.63	ND
	1/8/2007			0.67	ND			1.30												0.67	ND	0.69	
VE-2	4/7/2005	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.71		0.61	ND	0.61	ND	0.61	ND	0.61	ND	3.90	
		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.68		0.61	ND	0.61	ND	0.61	ND	0.61	ND	3.70	
Located	7/25/2005	0.65	ND	0.65	ND	0.65	ND	2.70		0.65	ND	1.40		0.65	ND	0.65	ND	0.65	ND	0.65	ND	12.00	
On-site	10/27/2005			0.61	ND			0.61	ND											0.61	ND	2.50	
	1/10/2006			0.62	ND			0.62	ND											0.62	ND	3.20	
	4/27/2006			0.64	ND			0.64	ND											0.64	ND	4.10	
				0.64	ND			0.64	ND											0.64	ND	4.10	
	7/24/2006			0.65	ND			2.10												0.65	ND	1.00	
	10/25/2006			0.64	ND			1.80												0.64	ND	0.64	ND
	1/8/2007			3.30	ND			3.30	ND											3.30	ND	3.30	ND
VE-3	4/7/2005	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	3.50	
		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	3.50	
Located		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	3.60	
On-site	7/25/2005	0.66	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND	0.84		0.66	ND	0.66	ND	0.66	ND	0.66	ND	3.90	
	10/27/2005			0.61	ND			0.61	ND											0.61	ND	3.30	
	1/12/2006			0.63	ND			0.63	ND											0.63	ND	12.00	
	4/27/2006			0.66	ND			6.20												0.66	ND	0.74	
				0.66	ND			6.20												0.66	ND	0.74	
	7/24/2006			0.66	ND			7.40												0.66	ND	0.66	ND
	10/25/2006			0.64	ND			7.30												0.64	ND	0.64	ND
	1/8/2007			0.64	ND			7.30												0.64	ND	1.10	
VE-4	4/7/2005	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	4.60	
	7/25/2005	2.10		0.65	ND	0.65	ND	0.65	ND	0.65	ND	5.30		0.65	ND	0.65	ND	0.65	ND	0.65	ND	36.00	
Located	10/27/2005			0.63	ND			1.10												0.63	ND	0.63	ND
On-site	1/11/2006			0.62	ND			0.62	ND											0.62	ND	5.40	
	4/27/2006			0.64	ND			0.78												0.64	ND	0.69	
				0.64	ND			0.78												0.64	ND	0.69	
	7/24/2006			0.65	ND			1.10												0.65	ND	0.66	
	10/25/2006			0.63	ND			0.69												0.63	ND	7.90	
	1/8/2007			0.64	ND			5.80												0.64	ND	0.64	ND

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ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	2-Hexanone (µg/m³)		Dibromochloromethane (µg/m³)		1,2-Dibromoethane (µg/m³)		Tetrachloroethene (µg/m³)		Chlorobenzene (µg/m³)		Ethylbenzene (µg/m³)		m,p-Xylenes (µg/m³)		Bromoform (µg/m³)		Styrene (µg/m³)		o-Xylene (µg/m³)	
VE-1	4/7/2005	0.62		0.62	ND	0.62	ND	8.20		0.62	ND	0.62	ND	1.20	ND	0.62	ND	0.62	ND	0.62	ND
		0.62		0.62	ND	0.62	ND	4.10		0.62	ND	0.62	ND	1.20	ND	0.62	ND	0.62	ND	0.62	ND
Located	7/25/2005	0.71		0.65	ND	0.65	ND	0.87		0.65	ND	0.69		2.60		0.65	ND	0.65	ND	0.93	
On-site	10/27/2005							4.10		0.62	ND	0.62	ND	2.00						0.80	
	1/10/2006							0.96		0.61	ND	23.00		10.00						2.90	
	4/27/2006							53.00		0.66	ND	0.66	ND	1.30	ND					0.66	ND
								53.00		0.66	ND	0.66	ND	1.30	ND					0.66	ND
	7/24/2006							34.00		0.66	ND	0.85		3.00						1.30	
								33.00		0.66	ND	0.76		2.70						1.20	
	10/25/2006							17.00		0.63	ND	0.63	ND	4.50						2.10	
	1/8/2007							160.00		0.67	ND	0.67	ND	5.40						1.10	
VE-2	4/7/2005	0.61		0.61	ND	0.61	ND	30.00		0.61	ND	0.61	ND	1.20	ND	0.61	ND	0.61	ND	0.61	ND
		0.61		0.61	ND	0.61	ND	37.00		0.61	ND	0.61	ND	1.20	ND	0.61	ND	0.61	ND	0.61	ND
Located	7/25/2005	0.66		0.65	ND	0.65	ND	6.80		0.65	ND	1.90		7.50		0.65	ND	0.65	ND	2.40	
On-site	10/27/2005							11.00		0.61	ND	0.61	ND	1.60						0.61	ND
	1/10/2006							2.50		0.62	ND	1.10		4.00						0.72	
	4/27/2006							2.40		0.64	ND	0.64	ND	2.10						0.71	
								2.40		0.64	ND	0.64	ND	2.10						0.71	
	7/24/2006							580.00		0.65	ND	0.65	ND	1.30	ND					0.65	ND
	10/25/2006							220.00		0.64	ND	0.64	ND	1.30	ND					0.64	ND
	1/8/2007							560.00		3.30	ND	3.30	ND	6.50	ND					3.30	ND
VE-3	4/7/2005	0.61		0.61	ND	0.61	ND	17.00		0.61	ND	0.61	ND	1.20	ND	0.61	ND	0.61	ND	0.61	ND
		0.61		0.61	ND	0.61	ND	9.40		0.61	ND	0.61	ND	1.20	ND	0.61	ND	0.61	ND	0.61	ND
Located		0.61		0.61	ND	0.61	ND	8.90		0.61	ND	0.61	ND	1.20	ND	0.61	ND	0.61	ND	0.61	ND
On-site	7/25/2005	0.66	ND	0.66	ND	0.66	ND	1.30		0.66	ND	0.74		2.70		0.66	ND	0.66	ND	0.97	
	10/27/2005							7.60		0.61	ND	2.30		2.30						0.76	
	1/12/2006							8.80		0.63	ND	2.00		8.00						3.20	
	4/27/2006							440.00		0.66	ND	0.66	ND	8.00						5.10	
								440.00		0.66	ND	0.66	ND	8.00						5.10	
	7/24/2006							440.00		0.66	ND	0.66	ND	1.30	ND					0.66	ND
	10/25/2006							300.00		0.64	ND	0.64	ND	1.30	ND					0.64	ND
	1/8/2007							420.00		0.64	ND	0.67		2.10						0.67	
VE-4	4/7/2005	0.62		0.62	ND	0.62	ND	10.00		0.62	ND	0.62	ND	1.20	ND	0.62	ND	0.62	ND	0.62	ND
	7/25/2005	0.65	ND	0.65	ND	0.65	ND	1.00		0.65	ND	5.40		20.00		0.65	ND	0.65	ND	6.10	
Located	10/27/2005							240.00		0.63	ND	0.63	ND	1.30	ND					0.63	ND
On-site	1/11/2006							1.60		0.62	ND	1.10		4.20						1.40	
	4/27/2006							130.00		0.64	ND	0.64	ND	1.30	ND					0.64	ND
								130.00		0.64	ND	0.64	ND	1.30	ND					0.64	ND
	7/24/2006							62.00		0.65	ND	0.65	ND	1.30	ND					0.65	ND
	10/25/2006							21.00		0.63	ND	3.20		15.00						6.60	
	1/8/2007							130.00		0.64	ND	0.64	ND	1.30	ND					0.64	ND

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ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	1,1,2,2-Tetrachloroethane (µg/m³)		4-Ethyltoluene (µg/m³)		1,3,5-Trimethylbenzene (µg/m³)		1,2,4-Trimethylbenzene (µg/m³)		Benzyl Chloride (µg/m³)		1,3-Dichlorobenzene (µg/m³)		1,4-Dichlorobenzene (µg/m³)		1,2-Dichlorobenzene (µg/m³)		1,2,4-Trichlorobenzene (µg/m³)		Hexachlorobutadiene (µg/m³)	
VE-1	4/7/2005	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND
		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND
Located	7/25/2005	0.65	ND	0.65	ND	0.65	ND	1.70		0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND
On-site	10/27/2005	0.62	ND			0.62	ND	1.30				0.62	ND	0.62	ND	0.62	ND				
	1/10/2006	0.61	ND			5.50		23.00				0.61	ND	0.61	ND	0.61	ND				
	4/27/2006	0.66	ND			0.66	ND	1.20				0.66	ND	0.66	ND	0.66	ND				
		0.66	ND			0.66	ND	1.20				0.66	ND	0.66	ND	0.66	ND				
	7/24/2006	0.66	ND			0.66	ND	1.10				0.66	ND	0.66	ND	0.66	ND				
		0.66	ND			0.66	ND	0.92				0.66	ND	0.66	ND	0.66	ND				
	10/25/2006	0.63	ND			2.20		3.40				0.63	ND	0.63	ND	0.63	ND				
	1/8/2007	0.67	ND			0.67	ND	1.70				0.67	ND	0.67	ND	0.67	ND				
VE-2	4/7/2005	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND
		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND
Located	7/25/2005	0.65	ND	0.80		0.81		3.10		0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND
On-site	10/27/2005	0.61	ND			0.61	ND	0.83				0.61	ND	0.61	ND	0.61	ND				
	1/10/2006	0.62	ND			0.62	ND	0.62	ND			0.62	ND	0.62	ND	0.62	ND				
	4/27/2006	0.64	ND			0.64	ND	0.91				0.64	ND	0.64	ND	0.64	ND				
		0.64	ND			0.64	ND	0.91				0.64	ND	0.64	ND	0.64	ND				
	7/24/2006	0.65	ND			0.65	ND	0.65	ND			0.65	ND	0.65	ND	0.65	ND				
	10/25/2006	0.64	ND			0.64	ND	0.64	ND			0.64	ND	0.64	ND	0.64	ND				
	1/8/2007	3.30	ND			3.30	ND	3.30	ND			3.30	ND	3.30	ND	3.30	ND				
VE-3	4/7/2005	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND
		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND
Located		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND
On-site	7/25/2005	0.66	ND	0.66	ND	0.66	ND	1.80		0.66	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND
	10/27/2005	0.61	ND			0.61	ND	0.98				0.61	ND	0.61	ND	0.61	ND				
	1/12/2006	0.63	ND			1.40		5.00				0.63	ND	0.63	ND	0.63	ND				
	4/27/2006	0.66	ND			4.40		14.00				0.66	ND	0.66	ND	0.66	ND				
		0.66	ND			4.40		14.00				0.66	ND	0.66	ND	0.66	ND				
	7/24/2006	0.66	ND			0.66	ND	0.66	ND			1.20		1.10		0.66	ND				
	10/25/2006	0.64	ND			0.64	ND	0.64	ND			0.64	ND	0.64	ND	0.64	ND				
	1/8/2007	0.64	ND			0.64	ND	0.64	ND			0.64	ND	0.64	ND	0.64	ND				
VE-4	4/7/2005	0.62	ND	0.62	ND	0.62	ND	0.71		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND
	7/25/2005	0.65	ND	1.90		1.80		6.40		0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND
Located	10/27/2005	0.63	ND			0.63	ND	0.63	ND			0.63	ND	0.63	ND	0.63	ND				
On-site	1/11/2006	0.62	ND			1.00		3.00				0.62	ND	0.62	ND	0.62	ND				
	4/27/2006	0.64	ND			0.64	ND	0.64	ND			0.64	ND	0.64	ND	0.64	ND				
		0.64	ND			0.64	ND	0.64	ND			0.64	ND	0.64	ND	0.64	ND				
	7/24/2006	0.65	ND			0.65	ND	0.65	ND			0.65	ND	0.65	ND	0.65	ND				
	10/25/2006	0.63	ND			2.50		7.30				0.63	ND	0.63	ND	0.63	ND				
	1/8/2007	0.64	ND			0.64	ND	0.64	ND			0.64	ND	0.64	ND	0.64	ND				

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M = Matrix interference; results may be biased high.
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TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	Propene (µg/m³)		Dichlorodifluoromethane (CFC 12) (µg/m³)		Chloromethane (µg/m³)		1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) (µg/m³)		Vinyl Chloride (µg/m³)		1,3-Butadiene (µg/m³)		Bromomethane (µg/m³)		Chloroethane (µg/m³)		Ethanol (µg/m³)		Acetone (µg/m³)	
VE-5	4/7/2005	1.50	M	2.90		1.20		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	9.70		11.00	
	7/25/2005	1.40	M	2.40		1.10		1.30	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	6.50	ND	19.00	
Located	10/27/2005					0.62	ND			0.62	ND					0.62	ND				
On-site	1/11/2006					0.81				0.62	ND					0.62	ND				
	4/27/2006					0.63	ND			0.63	ND					0.63	ND				
						0.63	ND			0.63	ND					0.63	ND				
	7/24/2006					0.64	ND			0.64	ND					0.64	ND				
	10/25/2006					1.40	ND			1.40	ND					1.40	ND				
	1/8/2007					0.64	ND			0.64	ND					0.64	ND				
VE-6	4/7/2005	1.70		2.80		0.89		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	6.10	ND	6.10	ND
	7/25/2005	1.60	M	2.50		1.20		1.30	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND	8.50		19.00	
Located	10/27/2005					0.62	ND			0.62	ND					0.62	ND				
On-site	1/11/2006					0.92				0.62	ND					0.62	ND				
	4/27/2006					0.66	ND			0.66	ND					0.66	ND				
						0.66	ND			0.66	ND					0.66	ND				
	7/24/2006					0.65	ND			0.65	ND					0.65	ND				
	10/25/2006					1.30	ND			1.30	ND					1.30	ND				
	1/8/2007					0.67	ND			0.67	ND					0.67	ND				
VE-7	4/7/2005	2.70		2.70		1.10		0.61	ND	0.61	ND	0.70		0.61	ND	0.61	ND	38.00		17.00	M
	7/25/2005	1.90	M	2.50		1.00		1.30	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	8.60		32.00	
Located	10/27/2005					0.63	ND			0.63	ND					0.63	ND				
On-site	1/11/2006					0.86				0.63	ND					0.63	ND				
	4/27/2006					0.64	ND			0.64	ND					0.64	ND				
						0.64	ND			0.64	ND					0.64	ND				
	7/24/2006					0.65	ND			0.65	ND					0.65	ND				
	10/25/2006					0.64	ND			0.64	ND					0.64	ND				
						0.64	ND			0.64	ND					0.64	ND				
	1/8/2007					0.71	ND			0.71	ND					0.71	ND				
VE-8	4/7/2005	1.80	M	2.90		1.10		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	16.00		15.00	
	7/22/2005	2.60	M	2.90		0.80		1.20	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	210.00		6.20	ND
Located	10/27/2005					0.62	ND			0.62	ND					0.62	ND				
On-site	1/10/2006					1.20				0.62	ND					0.62	ND				
	4/27/2006					0.65	ND			0.65	ND					0.65	ND				
						0.65	ND			0.65	ND					0.65	ND				
	7/24/2006					0.66	ND			0.66	ND					0.66	ND				
	10/25/2006					0.64	ND			0.64	ND					0.64	ND				
	1/8/2007					0.65	ND			0.65	ND					0.65	ND				
VE-9	4/21/2005	1.70	M	3.20		0.78		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	6.20	ND	6.20	ND
	7/25/2005	1.80	M	2.40		1.40		1.30	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	6.90		6.30	ND
Located	10/27/2005					0.62	ND			0.62	ND					0.62	ND				
On-site	1/11/2006					0.89				0.62	ND					0.62	ND				
	4/27/2006					1.30				0.62	ND					0.62	ND				
						1.30				0.62	ND					0.62	ND				
	7/24/2006					0.67	ND			0.67	ND					0.67	ND				
	10/25/2006					0.66	ND			0.66	ND					0.66	ND				
	1/8/2007					0.72				0.66	ND					0.66	ND				

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
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ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	Trichlorofluoromethane (µg/m³)	Isopropyl Alcohol (µg/m³)	1,1-Dichloroethene (µg/m³)	Methylene chloride (µg/m³)	Trichlorotrifluoroethane (µg/m³)	Carbon Disulfide (µg/m³)	trans-1,2-Dichloroethene (µg/m³)	1,1-Dichloroethane (µg/m³)	Methyl tert-Butyl Ether (µg/m³)	Vinyl Acetate (µg/m³)
VE-5	4/7/2005	1.40	1.00	0.61 ND	0.71	0.61 ND	0.63	0.61 ND	0.61 ND	0.61 ND	1.20 ND
	7/25/2005	1.20	0.65 ND	0.65 ND	0.66	0.65 ND	0.65 ND	0.65 ND	0.65 ND	1.30	0.65 ND
Located	10/27/2005			16.00	0.62 ND			1.60	4.00	0.95	
On-site	1/11/2006			0.62 ND	2.70			0.62 ND	0.62 ND	0.73	
	4/27/2006			7.20	0.65			1.00	1.30	1.20	
				7.20	0.65			1.00	1.30	1.20	
	7/24/2006			7.80	0.64 ND			0.71	1.50	1.30	
	10/25/2006			6.50	1.40 ND			1.40 ND	1.40 ND	1.40 ND	
	1/8/2007			4.80	0.64 ND			1.10	0.74	1.20 M	
VE-6	4/7/2005	1.50	0.61 ND	0.61 ND	0.70	0.61 ND	0.71	0.61 ND	0.61 ND	0.63	1.20 ND
	7/25/2005	1.30	0.86	0.64 ND	0.94	0.69	0.64 ND	0.64 ND	0.64 ND	1.20	0.64 ND
Located	10/27/2005			11.00	0.62 ND			0.62 ND	6.50	5.10	
On-site	1/11/2006			0.62 ND	0.96			0.62 ND	0.62 ND	0.64	
	4/27/2006			6.70	0.75			0.66 ND	4.50	1.20	
				6.70	0.75			0.66 ND	4.50	1.20	
	7/24/2006			6.40	0.65 ND			0.65 ND	6.80	1.20	
	10/25/2006			5.20	1.30 ND			1.30 ND	6.80	1.30 ND	
	1/8/2007			4.10	0.67 ND			0.67 ND	5.40	0.67 ND	
VE-7	4/7/2005	1.80	6.90	0.61 ND	1.30	0.61 ND	0.79	0.61 ND	0.61 ND	0.75	1.20 ND
	7/25/2005	1.20	1.40	0.65 ND	0.78	0.65 ND	12.00	0.65 ND	0.65 ND	1.20	11.00 M
Located	10/27/2005			12.00	0.63 ND			0.63 ND	0.63 ND	1.10	
On-site	1/11/2006			0.63 ND	1.50			0.63 ND	0.63 ND	0.83	
	4/27/2006			7.60	0.64 ND			0.64 ND	0.64 ND	1.10	
				7.60	0.64 ND			0.64 ND	0.64 ND	1.10	
	7/24/2006			4.60	0.65 ND			0.65 ND	0.65 ND	0.72	
	10/25/2006			4.40	0.64 ND			0.64 ND	0.64 ND	0.64 ND	
				4.40	0.64 ND			0.64 ND	0.64 ND	0.64 ND	
	1/8/2007			3.60	0.71 ND			0.71 ND	0.71 ND	1.60	
VE-8	4/7/2005	1.50	2.00	0.62 ND	3.20	0.62 ND	1.70	0.62 ND	0.62 ND	0.62 ND	1.20 ND
	7/22/2005	1.70	8.80 M	3.20	1.30	0.62 ND	0.75	0.62 ND	0.62 ND	9.20	11.00
Located	10/27/2005			5.10	0.62 ND			0.62 ND	0.62 ND	0.99	
On-site	1/10/2006			0.62 ND	0.75			0.62 ND	0.62 ND	0.62 ND	
	4/27/2006			2.70	0.65 ND			0.65 ND	0.65 ND	0.79	
				2.70	0.65 ND			0.65 ND	0.65 ND	0.79	
	7/24/2006			3.90	0.72			0.66 ND	0.66 ND	0.68	
	10/25/2006			1.70	0.64 ND			0.64 ND	0.64 ND	1.10	
	1/8/2007			2.00	3.20			0.65 ND	0.65 ND	0.65 ND	
VE-9	4/21/2005	1.60	0.62 ND	17.00	0.67	0.62	1.90	0.62 ND	4.90	2.50	1.20 ND
	7/25/2005	1.20	0.91	0.63 ND	0.78	0.63 ND	4.90	0.63 ND	0.63 ND	1.20	0.63 ND
Located	10/27/2005			1.80	0.62 ND			0.62 ND	0.62 ND	1.20	
On-site	1/11/2006			0.62 ND	3.00			0.62 ND	0.62 ND	0.68	
	4/27/2006			0.62 ND	8.40			0.62 ND	0.62 ND	4.60	
				0.62 ND	8.40			0.62 ND	0.62 ND	4.60	
	7/24/2006			1.40	0.67 ND			0.67 ND	0.67 ND	0.67 ND	
	10/25/2006			1.10	0.66 ND			0.66 ND	0.66 ND	0.66 ND	
	1/8/2007			3.10	0.66 ND			0.66 ND	0.66 ND	0.66 ND	

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TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	2-Butanone (MEK) (µg/m³)		cis-1,2-Dichloroethene (µg/m³)		Ethyl Acetate (µg/m³)		n-Hexane (µg/m³)	Chloroform (µg/m³)		Tetrahydrofuran (µg/m³)	1,2-Dichloroethane (µg/m³)		1,1,1-Trichloroethane (µg/m³)		Benzene (µg/m³)		Carbon Tetrachloride (µg/m³)	
VE-5	4/7/2005	4.50		0.61	ND	0.61	ND	2.60	0.90		4.90	0.61	ND	0.61	ND	1.00		0.61	ND
	7/25/2005	4.30		0.65	ND	0.65	ND	0.89	0.65	ND	1.60	0.65	ND	0.65	ND	0.75		0.65	ND
Located	10/27/2005			2.20					1.40			0.62	ND	100.00		0.62	ND	0.62	ND
On-site	1/11/2006			0.62	ND				0.62	ND		0.62	ND	0.62	ND	1.50		0.62	ND
	4/27/2006			1.50					0.63	ND		0.63	ND	38.00		0.63	ND	0.63	ND
				1.50					0.63	ND		0.63	ND	38.00		0.63	ND	0.63	ND
	7/24/2006			1.20					1.20			0.64	ND	50.00		0.64	ND	0.64	ND
	10/25/2006			1.40	ND				1.40	ND		1.40	ND	30.00		1.40	ND	1.40	ND
	1/8/2007			0.64	ND				0.84			0.64	ND	23.00		2.40		0.64	ND
VE-6	4/7/2005	0.61	ND	0.61	ND	0.61	ND	2.40	0.61	ND	7.80	0.61	ND	0.61	ND	1.20		0.61	ND
	7/25/2005	3.90		0.64	ND	0.64		1.10	0.64	ND	2.50	0.64	ND	0.78		0.82		0.64	ND
Located	10/27/2005			0.79					0.87			0.62	ND	120.00		0.62	ND	0.62	ND
On-site	1/11/2006			0.62	ND				0.62	ND		0.62	ND	0.62	ND	1.30		0.62	ND
	4/27/2006			0.90					0.66	ND		0.66	ND	79.00		0.66	ND	0.66	ND
				0.90					0.66	ND		0.66	ND	79.00		0.66	ND	0.66	ND
	7/24/2006			1.20					1.20			0.65	ND	97.00		0.65	ND	0.65	ND
	10/25/2006			1.30	ND				1.30	ND		1.30	ND	75.00		1.30	ND	1.30	ND
	1/8/2007			0.67	ND				0.67	ND		0.67	ND	54.00		0.67	ND	0.67	ND
VE-7	4/7/2005	11.00		0.61	ND	100.00		8.90	0.61	ND	10.00	0.61	ND	0.61	ND	3.40		0.61	ND
	7/25/2005	6.50		0.65	ND	0.65	ND	1.20	0.65	ND	1.10	0.65	ND	0.65	ND	1.20		0.65	ND
Located	10/27/2005			0.63	ND				15.00			0.63	ND	83.00		0.63	ND	0.75	
On-site	1/11/2006			0.63	ND				0.63	ND		0.63	ND	1.30		1.30		0.63	ND
	4/27/2006			0.64	ND				7.70			0.64	ND	43.00		0.64	ND	0.64	ND
				0.64	ND				7.70			0.64	ND	43.00		0.64	ND	0.64	ND
	7/24/2006			0.65	ND				20.00			0.65	ND	32.00		0.65	ND	1.50	
	10/25/2006			0.64	ND				32.00			0.64	ND	21.00		0.64	ND	0.75	
				0.64	ND				32.00			0.64	ND	22.00		0.64	ND	0.74	
	1/8/2007			0.71	ND				18.00			0.71	ND	15.00		0.71	ND	0.71	ND
VE-8	4/7/2005	38.00		0.62	ND	0.79		4.70	0.62	ND	38.00	0.62	ND	0.62	ND	1.20		0.62	ND
	7/22/2005	25.00		0.62	ND	32.00		90.00	2.50		18.00	0.62	ND	43.00		29.00		0.62	ND
Located	10/27/2005			0.62	ND				2.80			0.62	ND	62.00		0.62	ND	0.62	ND
On-site	1/10/2006			0.62	ND				0.62	ND		0.62	ND	0.62	ND	0.69		0.62	ND
	4/27/2006			0.65	ND				1.70			0.65	ND	32.00		5.00		0.65	ND
				0.65	ND				1.70			0.65	ND	32.00		5.00		0.65	ND
	7/24/2006			0.66	ND				5.70			0.66	ND	46.00		0.66	ND	0.66	ND
	10/25/2006			0.64	ND				6.80			0.64	ND	18.00		0.64	ND	0.64	ND
	1/8/2007			0.65	ND				3.80			0.65	ND	12.00		0.65	ND	0.65	ND
VE-9	4/21/2005	0.62	ND	0.62	ND	0.62	ND	1.10	1.20		1.30	2.10		170.00		0.87		0.62	ND
	7/25/2005	6.50		0.63	ND	0.63	ND	39.00	0.63	ND	1.00	0.63	ND	0.63	ND	21.00		0.63	ND
Located	10/27/2005			0.62	ND				0.62	ND		0.62	ND	17.00		0.62	ND	0.62	ND
On-site	1/11/2006			0.62	ND				0.62	ND		0.62	ND	0.62	ND	1.20		0.62	ND
	4/27/2006			0.62	ND				1.30			0.62	ND	0.62	ND	6.00		0.62	ND
				0.62	ND				1.30			0.62	ND	0.62	ND	6.00		0.62	ND
	7/24/2006			0.67	ND				4.30			0.67	ND	38.00		0.67	ND	0.67	ND
	10/25/2006			0.66	ND				2.70			0.66	ND	32.00		1.50		0.66	ND
	1/8/2007			0.66	ND				1.40			0.66	ND	23.00		0.66	ND	0.66	ND

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TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	Cyclohexane (µg/m³)		1,2-Dichloropropane (µg/m³)		Bromodichloromethane (µg/m³)		Trichloroethene (µg/m³)		1,4-Dioxane (µg/m³)		n-Heptane (µg/m³)		cis-1,3-Dichloropropene (µg/m³)		4-Methyl-2-pentanone (µg/m³)		trans-1,3-Dichloropropene (µg/m³)		1,1,2-Trichloroethane (µg/m³)		Toluene (µg/m³)	
VE-5	4/7/2005	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	1.20		0.61	ND	0.61	ND	0.61	ND	0.61	ND	7.00	
	7/25/2005	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	3.30	
Located	10/27/2005			0.62	ND			3.90												0.62	ND	0.86	
On-site	1/11/2006			0.62	ND			0.62	ND											0.62	ND	8.30	
	4/27/2006			0.63	ND			2.80												0.63	ND	0.63	ND
				0.63	ND			2.80												0.63	ND	0.63	ND
	7/24/2006			0.64	ND			2.80												0.64	ND	0.64	ND
	10/25/2006			1.40	ND			1.70												1.40	ND	1.40	ND
	1/8/2007			0.64	ND			3.50												0.64	ND	12.00	
VE-6	4/7/2005	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	1.30		0.61	ND	0.61	ND	0.61	ND	0.61	ND	9.80	
	7/25/2005	0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND	3.50	
Located	10/27/2005			0.62	ND			2.00												0.62	ND	0.62	ND
On-site	1/11/2006			0.62	ND			0.62	ND											0.62	ND	4.80	
	4/27/2006			0.66	ND			1.80												0.66	ND	0.66	ND
				0.66	ND			1.80												0.66	ND	0.66	ND
	7/24/2006			0.65	ND			3.00												0.65	ND	0.65	ND
	10/25/2006			1.30	ND			3.70												1.30	ND	1.30	ND
	1/8/2007			0.67	ND			1.80												0.67	ND	0.89	
VE-7	4/7/2005	3.10		0.61	ND	0.61	ND	0.61	ND	0.61	ND	22.00		0.61	ND	0.67		0.61	ND	0.61	ND	35.00	
	7/25/2005	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.88		0.65	ND	0.65	ND	0.65	ND	0.65	ND	5.20	
Located	10/27/2005			0.63	ND			0.70												0.63	ND	0.63	ND
On-site	1/11/2006			0.63	ND			0.63	ND											0.63	ND	5.30	
	4/27/2006			0.64	ND			0.64	ND											0.64	ND	0.64	ND
				0.64	ND			0.64	ND											0.64	ND	0.64	ND
	7/24/2006			0.65	ND			0.65	ND											0.65	ND	0.65	ND
	10/25/2006			0.64	ND			0.64	ND											0.64	ND	0.64	ND
				0.64	ND			0.64	ND											0.64	ND	0.64	ND
	1/8/2007			0.71	ND			0.71	ND											0.71	ND	0.71	ND
VE-8	4/7/2005	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.68		0.62	ND	0.62	ND	0.62	ND	0.62	ND	13.00	
	7/22/2005	12.00		0.62	ND	0.62	ND	0.62	ND	0.62	ND	65.00		0.62	ND	0.62	ND	0.62	ND	0.62	ND	300.00	
Located	10/27/2005			0.62	ND			1.40												0.62	ND	1.70	
On-site	1/10/2006			0.62	ND			0.62	ND											0.62	ND	2.70	
	4/27/2006			0.65	ND			0.65	ND											0.65	ND	0.65	ND
				0.65	ND			0.65	ND											0.65	ND	0.65	ND
	7/24/2006			0.66	ND			0.67												0.66	ND	0.66	ND
	10/25/2006			0.64	ND			1.10												0.64	ND	0.64	ND
	1/8/2007			0.65	ND			0.85												0.65	ND	0.65	ND
VE-9	4/21/2005	0.62	ND	0.62	ND	0.62	ND	1.20		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	3.70	
	7/25/2005	8.90		0.63	ND	0.63	ND	0.63	ND	1.50		47.00		0.63	ND	0.63	ND	0.63	ND	0.63	ND	130.00	
Located	10/27/2005			0.62	ND			0.62	ND											0.62	ND	1.10	
On-site	1/11/2006			0.62	ND			0.62	ND											0.62	ND	4.90	
	4/27/2006			0.62	ND			0.68												0.62	ND	810.00	
				0.62	ND			0.68												0.62	ND	810.00	
	7/24/2006			0.67	ND			6.90												0.67	ND	0.67	ND
	10/25/2006			0.66	ND			4.30												0.66	ND	0.66	ND
	1/8/2007			0.66	ND			0.80												0.66	ND	0.66	ND

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TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	2-Hexanone (µg/m³)		Dibromochlorome thane (µg/m³)		1,2-Dibromoethane (µg/m³)		Tetrachloroethene (µg/m³)		Chlorobenzene (µg/m³)		Ethylbenzene (µg/m³)		m,p-Xylenes (µg/m³)		Bromoform (µg/m³)		Styrene (µg/m³)		o-Xylene (µg/m³)	
VE-5	4/7/2005	0.61		0.61	ND	0.61	ND	3.90		0.61	ND	0.61	ND	1.50		0.61	ND	0.61	ND	0.61	ND
	7/25/2005	0.65	ND	0.65	ND	0.65	ND	1.60		0.65	ND	0.66		2.30		0.65	ND	0.65	ND	0.81	
Located	10/27/2005							440.00		0.62	ND	0.62	ND	1.20	ND					0.62	ND
On-site	1/11/2006							1.20		0.62	ND	1.10		3.70						1.30	
	4/27/2006							170.00		0.63	ND	0.63	ND	1.30	ND					0.63	ND
								170.00		0.63	ND	0.63	ND	1.30	ND					0.63	ND
	7/24/2006							280.00		0.64	ND	0.64	ND	1.30	ND					0.64	ND
	10/25/2006							180.00		1.40	ND	1.40	ND	2.80	ND					1.40	ND
	1/8/2007							340.00		0.64	ND	5.70		31.00						17.00	
VE-6	4/7/2005	0.61		0.61	ND	0.61	ND	4.90		0.61	ND	0.66		2.20		0.61	ND	0.61	ND	0.85	
	7/25/2005	0.64	ND	0.64	ND	0.64	ND	1.30		0.64	ND	0.66		2.40		0.64	ND	0.64	ND	0.84	
Located	10/27/2005							170.00		0.62	ND	0.62	ND	1.20	ND					0.62	ND
On-site	1/11/2006							0.69		0.62	ND	0.62		2.10						0.73	
	4/27/2006							190.00		0.66	ND	0.66	ND	1.30	ND					0.66	ND
								190.00		0.66	ND	0.66	ND	1.30	ND					0.66	ND
	7/24/2006							300.00		0.65	ND	0.65	ND	1.30	ND					0.65	ND
	10/25/2006							200.00		1.30	ND	1.30	ND	3.40						1.30	ND
	1/8/2007							280.00		0.67	ND	0.67	ND	1.30	ND					0.67	ND
VE-7	4/7/2005	0.61		0.61	ND	0.61	ND	3.40		0.61	ND	2.20		7.60		0.61	ND	0.61	ND	2.60	
	7/25/2005	0.98		0.65	ND	0.65	ND	1.20		0.65	ND	1.40		5.40		0.65	ND	0.65	ND	2.00	
Located	10/27/2005							250.00		0.63	ND	0.63	ND	1.30	ND					0.63	ND
On-site	1/11/2006							3.40		0.63	ND	0.82		2.80						0.97	
	4/27/2006							95.00		0.64	ND	0.64	ND	1.30	ND					0.64	ND
								95.00		0.64	ND	0.64	ND	1.30	ND					0.64	ND
	7/24/2006							32.00		0.65	ND	0.65	ND	1.30	ND					0.65	ND
	10/25/2006							13.00		0.64	ND	0.64	ND	1.30	ND					0.64	ND
								13.00		0.64	ND	0.64	ND	1.30	ND					0.64	ND
	1/8/2007							38.00		0.71	ND	0.71	ND	1.40	ND					0.71	ND
VE-8	4/7/2005	0.62		0.62	ND	0.62	ND	3.40		0.62	ND	0.76		2.50		0.62	ND	0.62	ND	0.92	
	7/22/2005	0.62	ND	0.62	ND	0.62	ND	55.00		0.62	ND	31.00		120.00		0.62	ND	2.50		36.00	
Located	10/27/2005							96.00		0.62	ND	0.62	ND	1.20	ND					0.62	ND
On-site	1/10/2006							1.90		0.62	ND	0.62	ND	1.50						0.62	ND
	4/27/2006							49.00		0.65	ND	0.65	ND	1.30	ND					0.65	ND
								49.00		0.65	ND	0.65	ND	1.30	ND					0.65	ND
	7/24/2006							44.00		0.66	ND	0.66	ND	1.30	ND					0.66	ND
	10/25/2006							17.00		0.64	ND	0.64	ND	1.30	ND					0.64	ND
	1/8/2007							33.00		0.65	ND	0.65	ND	1.50						1.30	
VE-9	4/21/2005	0.62		0.62	ND	0.62	ND	1500.00		0.62	ND	0.94		4.50		0.62	ND	0.62	ND	1.30	
	7/25/2005	0.63	ND	0.63	ND	0.63	ND	1.90		0.63	ND	36.00		150.00		0.63	ND	0.63	ND	50.00	
Located	10/27/2005							75.00		0.62	ND	0.62	ND	1.20	ND					0.62	ND
On-site	1/11/2006							0.84		0.62	ND	0.62	ND	2.10						0.71	
	4/27/2006							13.00		0.62	ND	42.00		110.00						36.00	
								13.00		0.62	ND	42.00		110.00						36.00	
	7/24/2006							16.00		0.67	ND	0.67	ND	1.30	ND					0.67	ND
	10/25/2006							5.50		0.66	ND	0.66	ND	1.30	ND					0.66	ND
	1/8/2007							99.00		0.66	ND	0.66	ND	1.30	ND					0.66	ND

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
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ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	1,1,2,2-Tetrachloroethane (µg/m³)		4-Ethyltoluene (µg/m³)		1,3,5-Trimethylbenzene (µg/m³)		1,2,4-Trimethylbenzene (µg/m³)		Benzyl Chloride (µg/m³)		1,3-Dichlorobenzene (µg/m³)		1,4-Dichlorobenzene (µg/m³)		1,2-Dichlorobenzene (µg/m³)		1,2,4-Trichlorobenzene (µg/m³)		Hexachlorobutadiene (µg/m³)	
VE-5	4/7/2005	0.61	ND	0.61	ND	0.61	ND	0.65		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND
	7/25/2005	0.65	ND	0.65	ND	0.65	ND	1.40		0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND
Located	10/27/2005	0.62	ND			0.62	ND	0.62	ND			0.62	ND	0.62	ND	0.62	ND				
On-site	1/11/2006	0.62	ND			0.62	ND	1.90				0.62	ND	0.62	ND	0.62	ND				
	4/27/2006	0.63	ND			0.63	ND	0.63	ND			0.63	ND	0.63	ND	0.63	ND				
		0.63	ND			0.63	ND	0.63	ND			0.63	ND	0.63	ND	0.63	ND				
	7/24/2006	0.64	ND			0.64	ND	0.64	ND			0.64	ND	0.64	ND	0.64	ND				
	10/25/2006	1.40	ND			1.40	ND	1.40	ND			1.40	ND	1.40	ND	1.40	ND				
	1/8/2007	0.64	ND			6.70		29.00				0.64	ND	0.64	ND	0.64	ND				
VE-6	4/7/2005	0.61	ND	0.61	ND	0.61	ND	1.10		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND
	7/25/2005	0.64	ND	0.64	ND	0.64	ND	1.70		0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND
Located	10/27/2005	0.62	ND			0.62	ND	0.62	ND			0.62	ND	0.62	ND	0.62	ND				
On-site	1/11/2006	0.62	ND			0.62	ND	0.91				0.62	ND	0.62	ND	0.62	ND				
	4/27/2006	0.66	ND			0.66	ND	0.66	ND			0.66	ND	0.66	ND	0.66	ND				
		0.66	ND			0.66	ND	0.66	ND			0.66	ND	0.66	ND	0.66	ND				
	7/24/2006	0.65	ND			0.65	ND	0.65	ND			0.65	ND	0.65	ND	0.65	ND				
	10/25/2006	1.30	ND			1.30	ND	2.00				1.30	ND	1.30	ND	1.30	ND				
	1/8/2007	0.67	ND			0.67	ND	0.67	ND			0.67	ND	0.67	ND	0.67	ND				
VE-7	4/7/2005	0.61	ND	0.77		0.86		2.90		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND
	7/25/2005	0.65	ND	0.86		0.93		3.30		0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND
Located	10/27/2005	0.63	ND			0.63	ND	0.63	ND			0.63	ND	0.63	ND	0.63	ND				
On-site	1/11/2006	0.63	ND			0.63	ND	1.10				0.63	ND	0.63	ND	0.63	ND				
	4/27/2006	0.64	ND			0.64	ND	0.66				0.64	ND	0.64	ND	0.64	ND				
		0.64	ND			0.64	ND	0.66				0.64	ND	0.64	ND	0.64	ND				
	7/24/2006	0.65	ND			0.65	ND	0.65	ND			0.65	ND	0.65	ND	0.65	ND				
	10/25/2006	0.64	ND			0.64	ND	0.64	ND			0.64	ND	0.64	ND	0.64	ND				
		0.64	ND			0.64	ND	0.64	ND			0.64	ND	0.64	ND	0.64	ND				
	1/8/2007	0.71	ND			0.71	ND	0.71	ND			0.71	ND	0.71	ND	0.71	ND				
VE-8	4/7/2005	0.62	ND	0.62	ND	0.62	ND	1.30		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND
	7/22/2005	0.62	ND	10.00		10.00		36.00		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND
Located	10/27/2005	0.62	ND			0.62	ND	0.62	ND			0.62	ND	0.62	ND	0.62	ND				
On-site	1/10/2006	0.62	ND			0.62	ND	0.62	ND			0.62	ND	0.62	ND	0.62	ND				
	4/27/2006	0.65	ND			0.65	ND	0.65	ND			0.65	ND	0.65	ND	0.65	ND				
		0.65	ND			0.65	ND	0.65	ND			0.65	ND	0.65	ND	0.65	ND				
	7/24/2006	0.66	ND			0.66	ND	0.66	ND			0.66	ND	0.66	ND	0.66	ND				
	10/25/2006	0.64	ND			0.64	ND	0.64	ND			0.64	ND	0.64	ND	0.64	ND				
	1/8/2007	0.65	ND			2.10		2.00				0.65	ND	0.65	ND	0.65	ND				
VE-9	4/21/2005	0.62	ND	0.82		0.66		3.00		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND
	7/25/2005	0.63	ND	13.00		14.00		38.00		0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND
Located	10/27/2005	0.62	ND			0.62	ND	0.91				0.62	ND	0.62	ND	0.62	ND				
On-site	1/11/2006	0.62	ND			0.62	ND	0.81				0.62	ND	0.62	ND	0.62	ND				
	4/27/2006	0.62	ND			3.30		9.20				0.62	ND	0.62	ND	0.62	ND				
		0.62	ND			3.30		9.20				0.62	ND	0.62	ND	0.62	ND				
	7/24/2006	0.67	ND			0.67	ND	0.67	ND			0.67	ND	0.67	ND	0.67	ND				
	10/25/2006	0.66	ND			0.66	ND	0.66	ND			0.66	ND	0.66	ND	0.66	ND				
	1/8/2007	0.66	ND			0.66	ND	0.66	ND			0.66	ND	0.66	ND	0.66	ND				

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TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	Propene (µg/m³)		Dichlorodifluoromethane (CFC 12) (µg/m³)		Chloromethane (µg/m³)		1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) (µg/m³)		Vinyl Chloride (µg/m³)		1,3-Butadiene (µg/m³)		Bromomethane (µg/m³)		Chloroethane (µg/m³)		Ethanol (µg/m³)		Acetone (µg/m³)	
VE-10	4/7/2005	3.50	M	3.20		1.40		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	18.00		21.00	
	7/25/2005	1.40	M	2.50		1.10		1.30	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	7.50		17.00	
Located	10/27/2005					0.89				0.62	ND					0.62	ND				
On-site	1/10/2006					0.89				0.61	ND					0.61	ND				
	4/27/2006					0.66	ND			0.66	ND					0.66	ND				
						0.66	ND			0.66	ND					0.66	ND				
	7/24/2006					0.65	ND			0.65	ND					0.65	ND				
	10/25/2006					0.63	ND			0.63	ND					0.63	ND				
	1/8/2007					0.78				0.64	ND					0.64	ND				
VE-11	4/7/2005	2.40	M	2.80		1.20		0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	15.00		27.00	
	7/25/2005	1.70	M	2.40		1.50		1.30	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND	6.80		27.00	
Located	10/27/2005					0.62	ND			0.62	ND					0.62	ND				
On-site	1/10/2006					1.00				0.61	ND					0.61	ND				
	4/27/2006					0.63	ND			0.63	ND					0.63	ND				
						0.63	ND			0.63	ND					0.63	ND				
	7/24/2006					0.65	ND			0.65	ND					0.65	ND				
	10/25/2006					0.64	ND			0.64	ND					0.64	ND				
	1/8/2007					0.65	ND			0.65	ND					0.65	ND				
VE-12	4/7/2005	26.00	M	3.10		1.40		0.62	ND	0.62	ND	0.72		0.62	ND	0.62	ND	51.00		25.00	M
	7/25/2005	1.30	M	2.50		1.10		1.30	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND	6.40	ND	23.00	
Located	10/27/2005					0.63	ND			0.63	ND					0.63	ND				
On-site	1/10/2006					0.61	ND			0.61	ND					0.61	ND				
	4/27/2006					0.68	ND			0.68	ND					0.68	ND				
						0.68	ND			0.68	ND					0.68	ND				
	7/24/2006					0.96	M			0.71	ND					0.71	ND				
	10/25/2006					0.67	ND			0.67	ND					0.67	ND				
	1/8/2007					0.70	ND			0.70	ND					0.70	ND				
						0.70	ND			0.70	ND					0.70	ND				
VE-13	4/7/2005	3.10	M	2.90		1.80		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	27.00		20.00	M
	7/25/2005	1.70	M	2.40		1.10		1.30	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	7.10		14.00	
Located	10/27/2005					0.62	ND			0.62	ND					0.62	ND				
On-site	1/9/2006					1.10				0.62	ND					0.62	ND				
	4/27/2006					0.77				0.65	ND					0.65	ND				
						0.77				0.65	ND					0.65	ND				
	7/24/2006					0.66	ND			0.66	ND					0.66	ND				
	10/25/2006					0.64	ND			0.64	ND					0.64	ND				
	1/8/2007					0.66	ND			0.66	ND					0.66	ND				
VE-14	4/7/2005	2.30	M	3.10		1.30		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	15.00		19.00	
	7/25/2005	1.60	M	2.40		1.10		1.30	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	7.40		19.00	
Located	10/27/2005					0.62	ND			0.62	ND					0.62	ND				
On-site	1/10/2006					1.10				0.61	ND					0.61	ND				
	4/27/2006					1.10				0.64	ND					0.64	ND				
						1.10				0.64	ND					0.64	ND				
	7/24/2006					0.64	ND			0.64	ND					0.64	ND				
	10/25/2006					0.63	ND			0.63	ND					0.63	ND				
	1/8/2007					0.63	ND			0.63	ND					0.63	ND				

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TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	Trichlorofluoromethane (µg/m³)		Isopropyl Alcohol (µg/m³)		1,1-Dichloroethene (µg/m³)		Methylene chloride (µg/m³)		Trichlorotrifluoroethane (µg/m³)		Carbon Disulfide (µg/m³)		trans-1,2-Dichloroethene (µg/m³)		1,1-Dichloroethane (µg/m³)		Methyl tert-Butyl Ether (µg/m³)		Vinyl Acetate (µg/m³)	
VE-10	4/7/2005	1.50		5.00		0.61	ND	1.50		1.80		1.90		0.61	ND	0.61	ND	0.82		1.20	ND
	7/25/2005	1.20		1.00	M	0.63	ND	1.00		0.66		1.10		0.63	ND	0.63	ND	1.00		3.60	M
Located	10/27/2005					3.10		1.60						0.62	ND	0.62		0.65			
On-site	1/10/2006					0.61	ND	0.72						0.61	ND	0.61	ND	0.61	ND		
	4/27/2006					5.00		0.66	ND					0.66	ND	0.66	ND	1.10			
						5.00		0.66	ND					0.66	ND	0.66	ND	1.10			
	7/24/2006					6.00		0.65	ND					0.65	ND	0.65	ND	0.65	ND		
	10/25/2006					2.10		0.63	ND					0.63	ND	0.63	ND	0.63	ND		
	1/8/2007					5.00		0.64	ND					0.64	ND	0.64	ND	0.64	ND		
VE-11	4/7/2005	1.60		1.20		0.65	ND	1.50		0.75		1.80		0.65	ND	0.65	ND	0.65	ND	1.30	ND
	7/25/2005	1.20		2.90		0.64	ND	0.64	ND	0.64	ND	2.00		0.64	ND	0.64	ND	0.77		8.50	M
Located	10/27/2005					4.10		0.62	ND					0.62	ND	0.62	ND	1.90			
On-site	1/10/2006					0.61	ND	0.75						0.61	ND	0.61	ND	0.61	ND		
	4/27/2006					1.30		0.63	ND					0.63	ND	0.63	ND	0.63	ND		
						1.30		0.63	ND					0.63	ND	0.63	ND	0.63	ND		
	7/24/2006					0.79		0.65	ND					0.65	ND	0.65	ND	0.88			
	10/25/2006					0.64	ND	0.64	ND					0.64	ND	0.64	ND	0.64	ND		
	1/8/2007					2.00		0.65	ND					0.65	ND	0.65	ND	0.65	ND		
VE-12	4/7/2005	1.70		1.80		1.60		1.20		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.73		1.20	ND
	7/25/2005	1.20		0.67	M	0.64	ND	0.66		0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.84		0.64	ND
Located	10/27/2005					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
On-site	1/10/2006					0.61	ND	0.62						0.61	ND	0.61	ND	0.61	ND		
	4/27/2006					0.68	ND	0.68	ND					0.68	ND	0.68	ND	0.68	ND		
						0.68	ND	0.68	ND					0.68	ND	0.68	ND	0.68	ND		
	7/24/2006					3.00		0.71	ND					0.71	ND	0.71	ND	0.71	ND		
	10/25/2006					2.30		0.67	ND					0.67	ND	0.67	ND	0.67	ND		
	1/8/2007					1.60		0.70	ND					0.70	ND	0.70	ND	0.70	ND		
						1.60		0.70	ND					0.70	ND	0.70	ND	0.70	ND		
VE-13	4/7/2005	1.60		7.30		0.61	ND	1.30		0.61	ND	0.80		0.61	ND	0.61	ND	0.79		1.20	ND
	7/25/2005	1.20		1.10	M	0.63	ND	0.80		0.63	ND	0.63	ND	0.63	ND	0.63	ND	1.10		0.63	ND
Located	10/27/2005					6.10		0.66						0.62	ND	0.62	ND	1.50			
On-site	1/9/2006					0.62	ND	0.62	ND					0.62	ND	0.62	ND	0.62	ND		
	4/27/2006					3.40		0.65	ND					0.65	ND	0.65	ND	0.65	ND		
						3.40		0.65	ND					0.65	ND	0.65	ND	0.65	ND		
	7/24/2006					1.10		0.76						0.66	ND	0.66	ND	0.66	ND		
	10/25/2006					0.64	ND	0.68						0.64	ND	0.64	ND	0.64	ND		
	1/8/2007					1.30		0.66	ND					0.66	ND	0.66	ND	0.66	ND		
VE-14	4/7/2005	1.60		1.20		0.62	ND	0.78		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.78		1.20	ND
	7/25/2005	1.20		0.93	M	0.63	ND	0.63	ND	0.63	ND	0.70		0.63	ND	0.63	ND	0.92		0.63	ND
Located	10/27/2005					1.70		0.62	ND					0.62	ND	0.62	ND	0.62	ND		
On-site	1/10/2006					0.61	ND	0.62						0.61	ND	0.61	ND	0.61	ND		
	4/27/2006					0.64	ND	0.81						0.64	ND	0.64	ND	0.64	ND		
						0.64	ND	0.81						0.64	ND	0.64	ND	0.64	ND		
	7/24/2006					0.64	ND	0.64	ND					0.64	ND	0.64	ND	0.64	ND		
	10/25/2006					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
	1/8/2007					1.60		0.63	ND					0.63	ND	0.63	ND	0.63	ND		

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
M = Matrix interference; results may be biased high.
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	2-Butanone (MEK) (µg/m³)	cis-1,2-Dichloroethene (µg/m³)	Ethyl Acetate (µg/m³)	n-Hexane (µg/m³)	Chloroform (µg/m³)	Tetrahydrofuran (µg/m³)	1,2-Dichloroethane (µg/m³)	1,1,1-Trichloroethane (µg/m³)	Benzene (µg/m³)	Carbon Tetrachloride (µg/m³)
VE-10	4/7/2005	44.00	0.61 ND	7.10	15.00	0.61 ND	43.00	0.61 ND	2.00	2.20	0.61 ND
	7/25/2005	64.00	0.63 ND	0.63 ND	1.20	0.63 ND	130.00	0.63 ND	0.63 ND	0.83	0.63 ND
Located	10/27/2005		0.62 ND			1.40		0.62 ND	50.00	4.90	0.62 ND
On-site	1/10/2006		0.61 ND			0.61 ND		0.61 ND	0.82	1.00	0.61 ND
	4/27/2006		0.66 ND			4.90		0.66 ND	72.00	0.66 ND	0.66 ND
			0.66 ND			4.90		0.66 ND	72.00	0.66 ND	0.66 ND
	7/24/2006		0.65 ND			4.10		0.65 ND	67.00	0.65 ND	0.65 ND
	10/25/2006		0.64			4.00		0.63 ND	37.00	0.63 ND	0.63 ND
	1/8/2007		0.70			4.20		0.64 ND	53.00	6.50	0.64 ND
VE-11	4/7/2005	21.00	0.65 ND	0.65 ND	3.00	0.65 ND	34.00	0.65 ND	0.70	1.50	0.65 ND
	7/25/2005	11.00	0.64 ND	0.64 ND	0.85	0.64 ND	4.50	0.64 ND	0.64 ND	0.82	0.64 ND
Located	10/27/2005		0.62 ND			4.70		0.62 ND	47.00	0.62 ND	0.62 ND
On-site	1/10/2006		0.61 ND			0.61 ND		0.61 ND	0.61 ND	2.00	0.61 ND
	4/27/2006		0.63 ND			2.20		0.63 ND	11.00	3.80	0.63 ND
			0.63 ND			2.20		0.63 ND	11.00	3.80	0.63 ND
	7/24/2006		0.65 ND			5.30		0.65 ND	15.00	0.65 ND	0.65 ND
	10/25/2006		0.64 ND			11.00		0.64 ND	9.80	0.64 ND	0.64 ND
	1/8/2007		0.65 ND			4.00		0.65 ND	12.00	0.65 ND	0.65 ND
VE-12	4/7/2005	64.00	0.62 ND	0.62 ND	15.00	0.62 ND	87.00	0.62 ND	38.00	16.00	0.62 ND
	7/25/2005	9.40	0.64 ND	0.64 ND	1.20	0.64 ND	6.50	0.64 ND	0.64 ND	0.85	0.64 ND
Located	10/27/2005		0.63 ND			1.40		0.63 ND	2.20	0.63 ND	0.63 ND
On-site	1/10/2006		0.61 ND			0.61 ND		0.61 ND	0.64	0.77	0.61 ND
	4/27/2006		0.68 ND			1.30		0.68 ND	4.70	0.68 ND	0.68 ND
			0.68 ND			1.30		0.68 ND	4.70	0.68 ND	0.68 ND
	7/24/2006		0.71 ND			41.00		0.71 ND	130.00	0.71 ND	0.71 ND
	10/25/2006		0.67 ND			17.00		0.67 ND	180.00	0.67 ND	0.72
	1/8/2007		0.70 ND			0.70 ND		0.70 ND	12.00	0.70 ND	0.70 ND
			0.70 ND			0.70 ND		0.70 ND	13.00	0.70 ND	0.70 ND
VE-13	4/7/2005	14.00	0.61 ND	28.00	6.10	0.61 ND	19.00	0.61 ND	0.61 ND	2.20	0.61 ND
	7/25/2005	2.80	0.63 ND	0.63 ND	1.10	0.63 ND	0.99	0.63 ND	0.63 ND	0.95	0.63 ND
Located	10/27/2005		0.62 ND			130.00		0.62 ND	39.00	0.62 ND	0.62 ND
On-site	1/9/2006		0.62 ND			0.88		0.62 ND	0.62 ND	1.60	0.62 ND
	4/27/2006		0.65 ND			82.00		0.65 ND	25.00	0.65 ND	0.65 ND
			0.65 ND			82.00		0.65 ND	25.00	0.65 ND	0.65 ND
	7/24/2006		0.66 ND			70.00		0.66 ND	11.00	0.66 ND	0.66 ND
	10/25/2006		0.64 ND			60.00		0.64 ND	5.70	0.64 ND	0.64 ND
	1/8/2007		0.66 ND			37.00		0.66 ND	8.90	0.66 ND	0.66 ND
VE-14	4/7/2005	32.00	0.62 ND	1.50	6.60	0.62 ND	44.00	0.62 ND	0.62 ND	1.70	0.62 ND
	7/25/2005	4.60	0.63 ND	0.63 ND	1.00	0.63 ND	2.60	0.63 ND	0.63 ND	0.91	0.63 ND
Located	10/27/2005		0.62 ND			15.00		0.62 ND	36.00	0.62 ND	0.62 ND
On-site	1/10/2006		0.61 ND			0.61 ND		0.61 ND	0.61 ND	0.99	0.61 ND
	4/27/2006		0.64 ND			0.64 ND		0.64 ND	0.64 ND	1.20	0.64 ND
			0.64 ND			0.64 ND		0.64 ND	0.64 ND	1.20	0.64 ND
	7/24/2006		0.64 ND			7.70		0.64 ND	8.50	0.64 ND	0.64 ND
	10/25/2006		0.63 ND			6.40		0.63 ND	7.00	0.63 ND	0.63 ND
	1/8/2007		0.63 ND			2.90		0.63 ND	11.00	0.63 ND	0.63 ND

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
M = Matrix interference; results may be biased high.
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	Cyclohexane (µg/m³)		1,2-Dichloropropane (µg/m³)		Bromodichloromethane (µg/m³)		Trichloroethene (µg/m³)		1,4-Dioxane (µg/m³)		n-Heptane (µg/m³)		cis-1,3-Dichloropropene (µg/m³)		4-Methyl-2-pentanone (µg/m³)		trans-1,3-Dichloropropene (µg/m³)		1,1,2-Trichloroethane (µg/m³)		Toluene (µg/m³)	
VE-10	4/7/2005	0.83		0.61	ND	0.61	ND	0.61	ND	0.61	ND	1.20		0.61	ND	0.61	ND	0.61	ND	0.61	ND	39.00	
	7/25/2005	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.96		0.63	ND	0.63	ND	0.63	ND	0.63	ND	4.30	
Located	10/27/2005			0.62	ND			1.70												0.62	ND	57.00	
On-site	1/10/2006			0.61	ND			0.61	ND											0.61	ND	2.90	
	4/27/2006			0.66	ND			8.00												0.66	ND	10.00	
				0.66	ND			8.00												0.66	ND	10.00	
	7/24/2006			0.65	ND			21.00												0.65	ND	2.00	
	10/25/2006			0.63	ND			23.00												0.63	ND	0.63	ND
	1/8/2007			0.64	ND			24.00												0.64	ND	0.64	ND
VE-11	4/7/2005	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	7.90	
	7/25/2005	0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.80		0.64	ND	0.64	ND	0.64	ND	0.64	ND	4.60	
Located	10/27/2005			0.62	ND			1.60												0.62	ND	0.62	ND
On-site	1/10/2006			0.61	ND			0.61	ND											0.61	ND	3.50	
	4/27/2006			0.63	ND			1.30												0.63	ND	1.30	
				0.63	ND			1.30												0.63	ND	1.30	
	7/24/2006			0.65	ND			2.60												0.65	ND	0.65	ND
	10/25/2006			0.64	ND			2.30												0.64	ND	0.64	ND
	1/8/2007			0.65	ND			2.60												0.65	ND	0.74	
VE-12	4/7/2005	1.30		0.62	ND	0.62	ND	0.78		0.62	ND	4.20		0.62	ND	0.62	ND	0.62	ND	0.62	ND	38.00	
	7/25/2005	0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.67		0.64	ND	0.64	ND	0.64	ND	0.64	ND	3.60	
Located	10/27/2005			0.63	ND			1.40												0.63	ND	1.20	
On-site	1/10/2006			0.61	ND			0.61	ND											0.61	ND	1.70	
	4/27/2006			0.68	ND			0.68												0.68	ND	1.40	
				0.68	ND			0.68												0.68	ND	1.40	
	7/24/2006			0.71	ND			57.00												0.71	ND	1.10	
	10/25/2006			0.67	ND			32.00												0.67	ND	0.67	ND
	1/8/2007			0.70	ND			0.70	ND											0.70	ND	0.70	ND
				0.70	ND			0.70	ND											0.70	ND	0.70	ND
VE-13	4/7/2005	1.00		0.61	ND	0.61	ND	1.50		0.61	ND	3.00		0.61	ND	0.65		0.61	ND	0.61	ND	17.00	
	7/25/2005	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	3.20	
Located	10/27/2005			0.62	ND			55.00												0.62	ND	2.40	
On-site	1/9/2006			0.62	ND			0.68												0.62	ND	5.40	
	4/27/2006			0.65	ND			45.00												0.65	ND	2.50	
				0.65	ND			45.00												0.65	ND	2.50	
	7/24/2006			0.66	ND			46.00												0.66	ND	0.66	ND
	10/25/2006			0.64	ND			57.00												0.64	ND	0.64	ND
	1/8/2007			0.66	ND			38.00												0.66	ND	0.66	ND
VE-14	4/7/2005	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.67		0.62	ND	0.62	ND	0.62	ND	0.62	ND	26.00	
	7/25/2005	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.75		0.63	ND	0.63	ND	0.63	ND	0.63	ND	4.00	
Located	10/27/2005			0.62	ND			21.00												0.62	ND	1.10	
On-site	1/10/2006			0.61	ND			0.61	ND											0.61	ND	2.30	
	4/27/2006			0.64	ND			0.81												0.64	ND	3.80	
				0.64	ND			0.81												0.64	ND	3.80	
	7/24/2006			0.64	ND			16.00												0.64	ND	1.70	
	10/25/2006			0.63	ND			13.00												0.63	ND	0.63	ND
	1/8/2007			0.63	ND			8.30												0.63	ND	0.75	

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TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	2-Hexanone (µg/m³)		Dibromochloromethane (µg/m³)		1,2-Dibromoethane (µg/m³)		Tetrachloroethene (µg/m³)		Chlorobenzene (µg/m³)		Ethylbenzene (µg/m³)		m,p-Xylenes (µg/m³)		Bromoform (µg/m³)		Styrene (µg/m³)		o-Xylene (µg/m³)	
VE-10	4/7/2005	0.61		0.61	ND	0.61	ND	7.20		0.61	ND	1.50		4.80		0.61	ND	0.61	ND	1.70	
	7/25/2005	0.63	ND	0.63	ND	0.63	ND	2.00		0.63	ND	0.91		4.00		0.63	ND	0.63	ND	1.20	
Located	10/27/2005							52.00		0.62	ND	8.10		33.00						11.00	
On-site	1/10/2006							2.00		0.61	ND	0.62		1.80						0.63	
	4/27/2006							110.00		14.00		0.92		5.50						5.00	
								110.00		14.00		0.92		5.50						5.00	
	7/24/2006							43.00		0.65	ND	0.65	ND	1.30	ND					0.79	
	10/25/2006							13.00		0.63	ND	0.63	ND	1.30	ND					0.63	ND
	1/8/2007							99.00		0.64	ND	0.64	ND	1.30	ND					0.64	ND
VE-11	4/7/2005	0.65		0.65	ND	0.65	ND	1.50		0.65	ND	0.72		2.40		0.65	ND	0.65	ND	0.96	
	7/25/2005	1.60		0.64	ND	0.64	ND	0.76		0.64	ND	1.00		4.40		0.64	ND	0.64	ND	1.50	
Located	10/27/2005							22.00		0.62	ND	0.62	ND	1.20	ND					0.62	ND
On-site	1/10/2006							0.64		0.61	ND	0.90		5.40						0.69	
	4/27/2006							8.10		0.63	ND	3.70		19.00						8.20	
								8.10		0.63	ND	3.70		19.00						8.20	
	7/24/2006							20.00		0.65	ND	0.65	ND	1.30	ND					0.65	ND
	10/25/2006							23.00		0.64	ND	0.64	ND	1.30	ND					0.64	ND
	1/8/2007							29.00		0.65	ND	0.65	ND	1.90						1.30	
VE-12	4/7/2005	0.62		0.62	ND	0.62	ND	19.00		0.62	ND	8.40		16.00		0.62	ND	0.62	ND	5.90	
	7/25/2005	0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.69		2.80		0.64	ND	0.64	ND	0.97	
Located	10/27/2005							1.20		0.63	ND	2.10		1.30						0.63	ND
On-site	1/10/2006							0.77		0.61	ND	0.61	ND	1.20	ND					0.61	ND
	4/27/2006							0.81		0.68	ND	0.68	ND	1.40	ND					0.68	ND
								0.81		0.68	ND	0.68	ND	1.40	ND					0.68	ND
	7/24/2006							3.10		0.71	ND	0.71	ND	1.40	ND					0.71	ND
	10/25/2006							4.30		0.67	ND	0.67	ND	1.30	ND					0.67	ND
	1/8/2007							42.00		0.70	ND	0.70	ND	1.40	ND					0.70	ND
								42.00		0.70	ND	0.70	ND	1.40	ND					0.70	ND
VE-13	4/7/2005	0.61		0.61	ND	0.61	ND	8.50		0.61	ND	1.00		3.00		0.61	ND	0.61	ND	0.97	
	7/25/2005	0.63	ND	0.63	ND	0.63	ND	0.73		0.63	ND	0.64		2.30		0.63	ND	0.63	ND	0.79	
Located	10/27/2005							11.00		0.62	ND	0.62	ND	1.30						0.62	ND
On-site	1/9/2006							1.10		0.62	ND	0.69		2.50						0.85	
	4/27/2006							11.00		2.50		0.65	ND	1.60						0.65	ND
								11.00		2.50		0.65	ND	1.60						0.65	ND
	7/24/2006							26.00		0.66	ND	0.66	ND	1.30	ND					0.66	ND
	10/25/2006							29.00		0.64	ND	0.64	ND	1.30	ND					0.64	ND
	1/8/2007							24.00		0.66	ND	0.66	ND	1.30	ND					0.66	ND
VE-14	4/7/2005	0.62		0.62	ND	0.62	ND	4.50		0.62	ND	0.88		2.90		0.62	ND	0.62	ND	1.00	
	7/25/2005	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.79		3.30		0.63	ND	0.63	ND	1.10	
Located	10/27/2005							3.30		0.62	ND	0.62	ND	1.20	ND					0.62	ND
On-site	1/10/2006							0.68		0.61	ND	0.61	ND	1.40						0.61	ND
	4/27/2006							3.80		0.64	ND	0.64	ND	1.30	ND					0.64	ND
								3.80		0.64	ND	0.64	ND	1.30	ND					0.64	ND
	7/24/2006							3.30		0.64	ND	0.64	ND	1.30	ND					0.64	ND
	10/25/2006							3.60		0.63	ND	0.63	ND	1.30	ND					0.63	ND
	1/8/2007							17.00		0.63	ND	0.63	ND	1.30	ND					0.63	ND

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
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ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	1,1,2,2-Tetrachloroethane (µg/m³)		4-Ethyltoluene (µg/m³)		1,3,5-Trimethylbenzene (µg/m³)		1,2,4-Trimethylbenzene (µg/m³)		Benzyl Chloride (µg/m³)		1,3-Dichlorobenzene (µg/m³)		1,4-Dichlorobenzene (µg/m³)		1,2-Dichlorobenzene (µg/m³)		1,2,4-Trichlorobenzene (µg/m³)		Hexachlorobutadiene (µg/m³)	
VE-10	4/7/2005	0.61	ND	0.61	ND	0.61	ND	1.80		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND
	7/25/2005	0.63	ND	0.63	ND	0.64		2.50		0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND
Located	10/27/2005	0.62	ND			3.40		9.60				0.62	ND	0.62	ND	0.62	ND				
On-site	1/10/2006	0.61	ND			0.61	ND	0.74				0.61	ND	0.61	ND	0.61	ND				
	4/27/2006	0.66	ND			0.89		2.10				0.66	ND	2.10		0.66	ND				
		0.66	ND			0.89		2.10				0.66	ND	2.10		0.66	ND				
	7/24/2006	0.65	ND			0.65	ND	0.65	ND			0.65	ND	0.65	ND	0.65	ND				
	10/25/2006	0.63	ND			0.63	ND	0.63	ND			0.63	ND	0.63	ND	0.63	ND				
	1/8/2007	0.64	ND			0.64	ND	0.64	ND			0.64	ND	0.64	ND	0.64	ND				
VE-11	4/7/2005	0.65	ND	0.65	ND	0.65	ND	1.40		0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND
	7/25/2005	0.64	ND	0.85		0.86		3.70		0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND
Located	10/27/2005	0.62	ND			0.62	ND	0.62	ND			0.62	ND	0.62	ND	0.62	ND				
On-site	1/10/2006	0.61	ND			1.70		5.10				0.61	ND	0.61	ND	0.61	ND				
	4/27/2006	0.63	ND			17.00		43.00				0.63	ND	0.63	ND	0.63	ND				
		0.63	ND			17.00		43.00				0.63	ND	0.63	ND	0.63	ND				
	7/24/2006	0.65	ND			0.65	ND	0.65	ND			0.65	ND	0.65	ND	0.65	ND				
	10/25/2006	0.64	ND			0.64	ND	0.64	ND			0.64	ND	0.64	ND	0.64	ND				
	1/8/2007	0.65	ND			0.76		2.40				0.65	ND	0.65	ND	0.65	ND				
VE-12	4/7/2005	0.62	ND	1.80		1.30		3.10		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND
	7/25/2005	0.64	ND	0.64	ND	0.64	ND	2.00		0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND
Located	10/27/2005	0.63	ND			0.63	ND	0.89				0.63	ND	0.63	ND	0.63	ND				
On-site	1/10/2006	0.61	ND			0.61	ND	0.61	ND			0.61	ND	0.61	ND	0.61	ND				
	4/27/2006	0.68	ND			0.68	ND	0.68	ND			0.68	ND	0.68	ND	0.68	ND				
		0.68	ND			0.68	ND	0.68	ND			0.68	ND	0.68	ND	0.68	ND				
	7/24/2006	0.71	ND			0.71	ND	0.71	ND			0.71	ND	0.71	ND	0.71	ND				
	10/25/2006	0.67	ND			0.67	ND	0.67	ND			0.67	ND	0.67	ND	0.67	ND				
	1/8/2007	0.70	ND			0.70	ND	0.70	ND			0.70	ND	0.70	ND	0.70	ND				
		0.70	ND			0.70	ND	0.70	ND			0.70	ND	0.70	ND	0.70	ND				
VE-13	4/7/2005	0.61	ND	0.61	ND	0.61	ND	1.20		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND
	7/25/2005	0.63	ND	0.63	ND	0.63	ND	1.10		0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND
Located	10/27/2005	0.62	ND			0.62	ND	0.72				0.62	ND	0.62	ND	0.62	ND				
On-site	1/9/2006	0.62	ND			0.62	ND	1.00				0.62	ND	0.62	ND	0.62	ND				
	4/27/2006	0.65	ND			0.68		1.30				0.65	ND	1.90		0.65	ND				
		0.65	ND			0.68		1.30				0.65	ND	1.90		0.65	ND				
	7/24/2006	0.66	ND			0.66	ND	0.66	ND			0.66	ND	0.66	ND	0.66	ND				
	10/25/2006	0.64	ND			0.64	ND	0.64	ND			0.64	ND	0.64	ND	0.64	ND				
	1/8/2007	0.66	ND			0.66	ND	0.66	ND			0.66	ND	0.66	ND	0.66	ND				
VE-14	4/7/2005	0.62	ND	0.62	ND	0.62	ND	1.40		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND
	7/25/2005	0.63	ND	0.63	ND	0.63	ND	2.30		0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND
Located	10/27/2005	0.62	ND			0.62	ND	0.62	ND			0.62	ND	0.62	ND	0.62	ND				
On-site	1/10/2006	0.61	ND			0.61	ND	0.61	ND			0.61	ND	0.61	ND	0.61	ND				
	4/27/2006	0.64	ND			0.64	ND	0.64	ND			0.64	ND	0.64	ND	0.64	ND				
		0.64	ND			0.64	ND	0.64	ND			0.64	ND	0.64	ND	0.64	ND				
	7/24/2006	0.64	ND			0.64	ND	0.64	ND			0.64	ND	0.64	ND	0.64	ND				
	10/25/2006	0.63	ND			0.63	ND	1.20				0.63	ND	0.63	ND	0.63	ND				
	1/8/2007	0.63	ND			0.63	ND	0.63	ND			0.63	ND	0.63	ND	0.63	ND				

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
M = Matrix interference; results may be biased high.
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	Propene (µg/m³)		Dichlorodifluoromethane (CFC 12) (µg/m³)		Chloromethane (µg/m³)		1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) (µg/m³)		Vinyl Chloride (µg/m³)		1,3-Butadiene (µg/m³)		Bromomethane (µg/m³)		Chloroethane (µg/m³)		Ethanol (µg/m³)		Acetone (µg/m³)	
VP-1	4/6/2005	1.60	M	3.00		1.20		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	6.40		9.70	
	7/26/2005	1.30	M	2.60		3.30		1.30	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	6.70	ND	34.00	
Located	10/26/2005					0.97				0.63	ND					0.63	ND				
On-site	1/10/2006					1.00				0.61	ND					0.61	ND				
	4/25/2006					2.10				0.65	ND					0.65	ND				
						2.10				0.65	ND					0.65	ND				
	7/24/2006					1.60				0.65	ND					0.65	ND				
	10/25/2006					1.30				0.66	ND					0.66	ND				
						1.10				0.66	ND					0.66	ND				
	1/11/2007					0.87				0.59	ND					0.59	ND				
VP-2	4/6/2005	1.60	M	2.90		1.30		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	11.00		15.00	
	7/26/2005	4.10	M	2.70		1.20		1.30	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND	98.00		85.00	
Located	10/26/2005					0.68				0.63	ND					0.63	ND				
On-site	1/10/2006					2.00				0.62	ND					0.62	ND				
						1.80				0.62	ND					0.62	ND				
	4/25/2006					1.10				0.64	ND					0.64	ND				
						1.10				0.64	ND					0.64	ND				
	7/24/2006					1.10				0.65	ND					0.65	ND				
	10/25/2006					0.76				0.63	ND					0.63	ND				
	1/11/2007					0.87				0.60	ND					0.60	ND				
VP-3	4/6/2005	1.40	M	2.90		1.30		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	7.10		8.00	
	7/26/2005	1.10	M	2.60		0.67	ND	1.30	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	6.70	ND	14.00	
Located	10/26/2005					0.79				0.63	ND					0.63	ND				
On-site	1/11/2006					0.76				0.63	ND					0.63	ND				
	4/25/2006					0.80				0.65	ND					0.65	ND				
						0.80				0.65	ND					0.65	ND				
	7/24/2006					0.86				0.65	ND					0.65	ND				
	10/25/2006					0.73				0.63	ND					0.63	ND				
	1/8/2007					2.50				0.64	ND					0.64	ND				
VP-4	4/6/2005	2.90	M	2.90		1.70		0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	6.30	ND	11.00	
	7/26/2005	2.10	ND	2.40		2.10	ND	4.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND	21.00	ND	30.00	
Located		2.10	ND	2.40		2.10	ND	4.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND	21.00	ND	30.00	
On-site	10/26/2005					3.60				0.63	ND					0.68					
	1/11/2006					1.20				2.70						1.80					
	4/25/2006					0.93				0.64	ND					0.64	ND				
						0.93				0.64	ND					0.64	ND				
	7/24/2006					0.67				0.65	ND					0.65	ND				
	10/25/2006					0.66	ND			0.66	ND					1.80					
	1/8/2007					0.62	ND			0.62	ND					0.62	ND				
VP-5	4/6/2005	2.60	M	2.90		1.40		0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	6.30	ND	22.00	
	7/26/2005	6.60	ND	6.60	ND	6.60	ND	13.00	ND	6.60	ND	6.60	ND	6.60	ND	6.60	ND	66.00	ND	66.00	ND
Located	10/26/2005					7.10				1.60						1.60					
On-site	1/10/2006					0.94				0.61	ND					0.61	ND				
						0.77				0.61	ND					0.61	ND				
	4/25/2006					2.70				0.63	ND					0.63	ND				
						2.70				0.63	ND					0.63	ND				
	7/24/2006					3.60				0.64	ND					0.64	ND				
	10/25/2006					0.70				0.63	ND					0.63	ND				
	1/8/2007					1.00				0.62	ND					0.62	ND				

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
M = Matrix interference; results may be biased high.
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	Trichlorofluoromethane (µg/m³)		Isopropyl Alcohol (µg/m³)		1,1-Dichloroethene (µg/m³)		Methylene chloride (µg/m³)		Trichlorotrifluoroethane (µg/m³)		Carbon Disulfide (µg/m³)		trans-1,2-Dichloroethene (µg/m³)		1,1-Dichloroethane (µg/m³)		Methyl tert-Butyl Ether (µg/m³)		Vinyl Acetate (µg/m³)	
VP-1	4/6/2005	1.50		0.74		0.62	ND	0.69		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	1.20	ND
	7/26/2005	1.30		0.67	ND	0.67	ND	0.79		0.67	ND	8.40		0.67	ND	0.67	ND	2.60		8.90	M
Located	10/26/2005					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
On-site	1/10/2006					0.61	ND	0.86						0.61	ND	0.61	ND	0.61	ND		
	4/25/2006					0.65	ND	0.86						0.65	ND	0.65	ND	0.75			
						0.65	ND	0.86						0.65	ND	0.65	ND	0.75			
	7/24/2006					0.65	ND	0.93						0.65	ND	0.65	ND	0.65	ND		
	10/25/2006					0.66	ND	0.66	ND					0.66	ND	0.66	ND	0.66	ND		
						0.66	ND	0.66	ND					0.66	ND	0.66	ND	0.66	ND		
	1/11/2007					0.59	ND	0.59	ND					0.59	ND	0.59	ND	0.59	ND		
VP-2	4/6/2005	1.50		1.80		0.62	ND	0.97		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.66		1.20	ND
	7/26/2005	1.50		18.00	M	0.66	ND	2.40		0.66	ND	0.66	ND	0.66	ND	0.66	ND	2.70		24.00	M
Located	10/26/2005					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
On-site	1/10/2006					0.62	ND	0.81						0.62	ND	0.62	ND	0.62	ND		
						0.62	ND	0.82						0.62	ND	0.62	ND	0.62	ND		
	4/25/2006					0.64	ND	0.87						0.64	ND	0.64	ND	0.64			
						0.64	ND	0.87						0.64	ND	0.64	ND	0.64			
	7/24/2006					0.65	ND	1.00						0.65	ND	0.65	ND	0.65	ND		
	10/25/2006					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
	1/11/2007					0.60	ND	2.00						0.60	ND	0.60	ND	0.60	ND		
VP-3	4/6/2005	1.50		1.30		0.62	ND	0.90		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	1.20	ND
	7/26/2005	1.20		0.67	ND	0.67	ND	0.76		0.67	ND	6.10		0.67	ND	0.67	ND	2.60		0.67	ND
Located	10/26/2005					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
On-site	1/11/2006					0.63	ND	9.00						0.63	ND	0.63	ND	0.69			
	4/25/2006					0.65	ND	0.82						0.65	ND	0.65	ND	0.65	ND		
						0.65	ND	0.82						0.65	ND	0.65	ND	0.65	ND		
	7/24/2006					0.65	ND	0.80						0.65	ND	0.65	ND	0.65	ND		
	10/25/2006					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
	1/8/2007					0.64	ND	1.30						0.64	ND	0.64	ND	0.64	ND		
VP-4	4/6/2005	1.50		0.63	ND	0.63	ND	0.75		0.63	ND	0.64		0.63	ND	0.63	ND	0.95		1.30	ND
	7/26/2005	2.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND	5.20	M
Located		2.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND	4.50	M
On-site	10/26/2005					0.63	ND	0.63	ND					0.63	ND	0.65		0.63	ND		
	1/11/2006					1.40		1.10						0.62	ND	2.20		0.62	ND		
	4/25/2006					0.64	ND	0.85						0.64	ND	0.64	ND	0.64	ND		
						0.64	ND	0.85						0.64	ND	0.64	ND	0.64	ND		
	7/24/2006					0.65	ND	0.65	ND					0.65	ND	1.10		0.65	ND		
	10/25/2006					0.66	ND	0.66	ND					0.66	ND	1.40		0.66	ND		
	1/8/2007					2.70		0.62	ND					0.62	ND	0.62	ND	0.62	ND		
VP-5	4/6/2005	1.50		0.63	ND	0.94		0.63	ND	0.63	ND	5.50		0.63	ND	0.63	ND	6.90		1.30	ND
	7/26/2005	6.60	ND	6.60	ND	6.60	ND	6.60	ND	6.60	ND	8.80		6.60	ND	6.60	ND	6.60	ND	12.00	M
Located	10/26/2005					1.10		0.63	ND					0.63	ND	0.63	ND	0.71			
On-site	1/10/2006					0.61	ND	0.61	ND					0.61	ND	0.61	ND	0.61	ND		
						0.61	ND	0.61	ND					0.61	ND	0.61	ND	0.61	ND		
	4/25/2006					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
						0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
	7/24/2006					0.64	ND	0.64	ND					0.64	ND	0.64	ND	0.64	ND		
	10/25/2006					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
	1/8/2007					0.62	ND	0.62	ND					0.62	ND	0.62	ND	0.62	ND		

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TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	2-Butanone (MEK) (µg/m³)	cis-1,2-Dichloroethene (µg/m³)	Ethyl Acetate (µg/m³)	n-Hexane (µg/m³)	Chloroform (µg/m³)	Tetrahydrofuran (µg/m³)	1,2-Dichloroethane (µg/m³)	1,1,1-Trichloroethane (µg/m³)	Benzene (µg/m³)	Carbon Tetrachloride (µg/m³)
VP-1	4/6/2005	1.80	0.62 ND	0.62 ND	1.30	0.62 ND	0.62 ND	0.62 ND	0.62 ND	1.90	0.62 ND
	7/26/2005	4.60	0.67 ND	1.20	1.40	0.67 ND	0.67 ND	0.67 ND	0.67 ND	2.40	0.67 ND
Located	10/26/2005		2.40			0.63 ND		0.63 ND	0.63 ND	1.40	0.63 ND
On-site	1/10/2006		0.61 ND			0.61 ND		0.61 ND	0.61 ND	1.50	0.61 ND
	4/25/2006		0.65 ND			0.65 ND		0.65 ND	0.65 ND	1.30	0.65 ND
			0.65 ND			0.65 ND		0.65 ND	0.65 ND	1.30	0.65 ND
	7/24/2006		0.65 ND			0.65 ND		0.65 ND	0.65 ND	1.40	0.65 ND
	10/25/2006		0.66 ND			0.66 ND		0.66 ND	0.75	5.50	0.66 ND
			0.66 ND			0.66 ND		0.66 ND	0.74	5.60	0.66 ND
	1/11/2007		0.59 ND			0.59 ND		0.59 ND	0.59 ND	1.10	0.59 ND
VP-2	4/6/2005	1.30	0.62 ND	0.62 ND	1.40	0.62 ND	0.62 ND	0.62 ND	0.62 ND	1.20	0.62 ND
	7/26/2005	24.00	0.66 ND	12.00	54.00	0.66 ND	0.72	0.66 ND	0.66 ND	17.00	0.66 ND
Located	10/26/2005		0.63 ND			0.63 ND		0.63 ND	0.63 ND	1.00	0.63 ND
On-site	1/10/2006		0.62 ND			0.62 ND		0.62 ND	0.62 ND	1.20	0.62 ND
			0.62 ND			0.62 ND		0.62 ND	0.62 ND	1.20	0.62 ND
	4/25/2006		0.64 ND			0.64 ND		0.64 ND	0.64 ND	1.20	0.64 ND
			0.64 ND			0.64 ND		0.64 ND	0.64 ND	1.20	0.64 ND
	7/24/2006		0.65 ND			0.65 ND		0.65 ND	0.65 ND	1.30	0.65 ND
	10/25/2006		0.63 ND			0.63 ND		0.63 ND	0.63 ND	0.96	0.63 ND
	1/11/2007		0.60 ND			0.60 ND		0.60 ND	0.60 ND	1.20	0.60 ND
VP-3	4/6/2005	1.40	0.62 ND	0.62 ND	1.70	0.62 ND	0.62 ND	0.62 ND	0.62 ND	1.00	0.62 ND
	7/26/2005	4.40	0.67 ND	0.67 ND	1.40	0.67 ND	0.67 ND	0.67 ND	0.67 ND	1.20	0.67 ND
Located	10/26/2005		0.63 ND			0.63 ND		0.63 ND	0.63 ND	2.00	0.63 ND
On-site	1/11/2006		0.63 ND			0.63 ND		0.63 ND	0.63 ND	1.20	0.63 ND
	4/25/2006		0.65 ND			0.65 ND		0.65 ND	0.65 ND	1.80	0.65 ND
			0.65 ND			0.65 ND		0.65 ND	0.65 ND	1.80	0.65 ND
	7/24/2006		0.65 ND			0.65 ND		0.65 ND	0.65 ND	1.70	0.65 ND
	10/25/2006		0.63 ND			0.63 ND		0.63 ND	0.63 ND	0.71	0.63 ND
	1/8/2007		0.88			3.30		0.64 ND	0.64 ND	1.00	0.66
VP-4	4/6/2005	1.20	0.63 ND	0.63 ND	1.90	0.63 ND	0.63 ND	0.63 ND	1.70	1.60	0.63 ND
	7/26/2005	4.20	2.10 ND	2.10 ND	2.10 ND	2.10 ND	2.10 ND	2.10 ND	2.10 ND	2.10 ND	2.10 ND
Located		4.00	2.10 ND	2.10 ND	2.10 ND	2.10 ND	2.10 ND	2.10 ND	2.10 ND	2.10 ND	2.10 ND
On-site	10/26/2005		0.63 ND			0.64		0.63 ND	8.90	1.20	0.63 ND
	1/11/2006		0.62 ND			0.70		0.62 ND	54.00	1.60	0.62 ND
	4/25/2006		0.64 ND			0.64 ND		0.64 ND	0.64 ND	0.99	0.64 ND
			0.64 ND			0.64 ND		0.64 ND	0.64 ND	0.99	0.64 ND
	7/24/2006		0.65 ND			1.70		0.65 ND	5.40	1.20	0.65 ND
	10/25/2006		0.66 ND			2.10		0.66 ND	6.00	0.71	0.66 ND
	1/8/2007		0.62 ND			0.62 ND		0.62 ND	13.00	0.72	0.62 ND
VP-5	4/6/2005	410.00	0.63 ND	0.63 ND	1.10	0.63 ND	15.00	0.63 ND	12.00	0.84	0.63 ND
	7/26/2005	360.00	6.60 ND	6.60 ND	6.60 ND	6.60 ND	63.00	6.60 ND	6.60 ND	6.60 ND	6.60 ND
Located	10/26/2005		0.63 ND			0.63 ND		0.63 ND	22.00	2.90	0.63 ND
On-site	1/10/2006		0.61 ND			0.61 ND		0.61 ND	1.50	0.93	0.61 ND
			0.61 ND			0.61 ND		0.61 ND	1.50	0.91	0.61 ND
	4/25/2006		0.63 ND			0.63 ND		0.63 ND	4.60	1.90	0.63 ND
			0.63 ND			0.63 ND		0.63 ND	4.60	1.90	0.63 ND
	7/24/2006		0.64 ND			0.64 ND		0.64 ND	3.90	0.74	0.64 ND
	10/25/2006		0.63 ND			0.63 ND		0.63 ND	0.63 ND	0.90	0.63 ND
	1/8/2007		0.62 ND			0.62 ND		0.62 ND	0.62 ND	0.78	0.62 ND

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
M = Matrix interference; results may be biased high.
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	Cyclohexane (µg/m³)		1,2-Dichloropropane (µg/m³)		Bromodichloromethane (µg/m³)		Trichloroethene (µg/m³)		1,4-Dioxane (µg/m³)		n-Heptane (µg/m³)		cis-1,3-Dichloropropene (µg/m³)		4-Methyl-2-pentanone (µg/m³)		trans-1,3-Dichloropropene (µg/m³)		1,1,2-Trichloroethane (µg/m³)		Toluene (µg/m³)	
VP-1	4/6/2005	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	1.70		0.62	ND	0.62	ND	0.62	ND	0.62	ND	5.60	
	7/26/2005	0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	2.00		0.67	ND	0.67	ND	0.67	ND	0.67	ND	6.50	
Located	10/26/2005			0.63	ND			66.00												0.63	ND	2.10	
On-site	1/10/2006			0.61	ND			0.61	ND											0.61	ND	3.50	
	4/25/2006			0.65	ND			0.65	ND											0.65	ND	4.10	
				0.65	ND			0.65	ND											0.65	ND	4.10	
	7/24/2006			0.65	ND			0.65	ND											0.65	ND	8.50	
	10/25/2006			0.66	ND			0.66	ND											0.66	ND	25.00	
				0.66	ND			0.66	ND											0.66	ND	25.00	
	1/11/2007			0.59	ND			0.59	ND											0.59	ND	3.20	
VP-2	4/6/2005	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	3.50	
	7/26/2005	15.00		0.66	ND	0.66	ND	3.60		0.66	ND	19.00		0.66	ND	1.30		0.66	ND	0.66	ND	160.00	
Located	10/26/2005			0.63	ND			0.63	ND											0.63	ND	1.90	
On-site	1/10/2006			0.62	ND			0.62	ND											0.62	ND	2.20	
				0.62	ND			0.62	ND											0.62	ND	2.30	
	4/25/2006			0.64	ND			0.64	ND											0.64	ND	2.70	
				0.64	ND			0.64	ND											0.64	ND	2.70	
	7/24/2006			0.65	ND			0.65	ND											0.65	ND	6.30	
	10/25/2006			0.63	ND			0.63	ND											0.63	ND	2.00	
	1/11/2007			0.60	ND			0.60	ND											0.60	ND	3.30	
VP-3	4/6/2005	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	3.20	
	7/26/2005	0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.95		0.67	ND	0.67	ND	0.67	ND	0.67	ND	5.20	
Located	10/26/2005			0.63	ND			0.63	ND											0.63	ND	1.20	
On-site	1/11/2006			0.63	ND			0.63	ND											0.63	ND	5.50	
	4/25/2006			0.65	ND			0.65	ND											0.65	ND	2.40	
				0.65	ND			0.65	ND											0.65	ND	2.40	
	7/24/2006			0.65	ND			0.72												0.65	ND	2.60	
	10/25/2006			0.63	ND			0.63	ND											0.63	ND	0.90	
	1/8/2007			0.64	ND			3.70												0.64	ND	2.40	
VP-4	4/6/2005	25.00		0.63	ND	0.63	ND	0.63	ND	0.63	ND	14.00		0.63	ND	0.63	ND	0.63	ND	0.63	ND	4.40	
	7/26/2005	2.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND	4.50		2.10	ND	2.10	ND	2.10	ND	2.10	ND	15.00	
Located		2.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND	4.40		2.10	ND	2.10	ND	2.10	ND	2.10	ND	14.00	
On-site	10/26/2005			0.63	ND			0.63	ND											0.63	ND	3.10	
	1/11/2006			0.62	ND			0.62	ND											0.62	ND	3.00	
	4/25/2006			0.64	ND			0.64	ND											0.64	ND	2.90	
				0.64	ND			0.64	ND											0.64	ND	2.90	
	7/24/2006			0.65	ND			0.65	ND											0.65	ND	5.00	
	10/25/2006			0.66	ND			0.66	ND											0.66	ND	0.72	
	1/8/2007			0.62	ND			0.62	ND											0.62	ND	4.30	
VP-5	4/6/2005	0.63	ND	0.63	ND	0.63	ND	1.30		0.63	ND	0.79		0.63	ND	0.63	ND	0.63	ND	0.63	ND	1.80	
	7/26/2005	6.60	ND	6.60	ND	6.60	ND	6.60	ND	6.60	ND	6.60	ND	6.60	ND	6.60	ND	6.60	ND	6.60	ND	42.00	
Located	10/26/2005			0.63	ND			0.63	ND											0.63	ND	0.63	ND
On-site	1/10/2006			0.61	ND			0.61	ND											0.61	ND	0.76	
				0.61	ND			0.61	ND											0.61	ND	0.75	
	4/25/2006			0.63	ND			0.63	ND											0.63	ND	4.60	
				0.63	ND			0.63	ND											0.63	ND	4.60	
	7/24/2006			0.64	ND			0.64	ND											0.64	ND	2.60	
	10/25/2006			0.63	ND			0.63	ND											0.63	ND	30.00	
	1/8/2007			0.62	ND			0.62	ND											0.62	ND	2.70	

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
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ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	2-Hexanone (µg/m³)		Dibromochloromethane (µg/m³)		1,2-Dibromoethane (µg/m³)		Tetrachloroethene (µg/m³)		Chlorobenzene (µg/m³)		Ethylbenzene (µg/m³)		m,p-Xylenes (µg/m³)		Bromoform (µg/m³)		Styrene (µg/m³)		o-Xylene (µg/m³)	
VP-1	4/6/2005	0.62		0.62	ND	0.62	ND	1.30		0.62	ND	0.62	ND	1.70		0.62	ND	0.62	ND	0.72	
	7/26/2005	0.67	ND	0.67	ND	0.67	ND	14.00		0.67	ND	2.00		44.00		0.67	ND	0.67	ND	32.00	
Located	10/26/2005							1.50		0.63	ND	0.63	ND	1.50						0.63	ND
On-site	1/10/2006							1.30		0.61	ND	0.61	ND	1.80						0.61	ND
	4/25/2006							1.60		0.65	ND	0.70		4.00						1.50	
								1.60		0.65	ND	0.70		4.00						1.50	
	7/24/2006							1.30		0.65	ND	0.65	ND	2.00						0.86	
	10/25/2006							0.82		0.66	ND	21.00		53.00						20.00	
								0.83		0.66	ND	21.00		54.00						20.00	
	1/11/2007							0.62		0.59	ND	0.59	ND	2.00						0.72	
VP-2	4/6/2005	0.62		0.62	ND	0.62	ND	1.10		0.62	ND	0.62	ND	1.50		0.62	ND	0.62	ND	0.63	
	7/26/2005	0.66	ND	0.66	ND	0.66	ND	1.80		0.66	ND	22.00		73.00		0.66	ND	7.30		24.00	
Located	10/26/2005							0.97		0.63	ND	0.63	ND	1.40						0.63	ND
On-site	1/10/2006							2.00		0.62	ND	0.62	ND	1.20	ND					0.62	ND
								1.90		0.62	ND	0.62	ND	1.20	ND					0.62	ND
	4/25/2006							0.78		0.64	ND	0.64	ND	1.80						0.76	
								0.78		0.64	ND	0.64	ND	1.80						0.76	
	7/24/2006							0.89		0.65	ND	0.95		3.90						1.20	
	10/25/2006							0.96		0.63	ND	0.63	ND	1.30						0.63	ND
	1/11/2007							0.60	ND	0.60	ND	0.60	ND	1.80						0.62	
VP-3	4/6/2005	0.62		0.62	ND	0.62	ND	2.60		0.62	ND	0.62	ND	1.30		0.62	ND	0.62	ND	0.62	ND
	7/26/2005	0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	1.10		4.30		0.67	ND	0.67	ND	1.50	
Located	10/26/2005							0.63	ND	0.63	ND	0.63	ND	1.30	ND					0.63	ND
On-site	1/11/2006							0.96		0.63	ND	0.75		2.50						0.90	
	4/25/2006							0.74		0.65	ND	0.65	ND	1.30						0.66	
								0.74		0.65	ND	0.65	ND	1.30						0.66	
	7/24/2006							1.00		0.65	ND	0.65	ND	1.30	ND					0.65	ND
	10/25/2006							0.63		0.63	ND	0.63	ND	1.30	ND					0.63	ND
	1/8/2007							1.20		0.64	ND	0.64	ND	45.00						49.00	
VP-4	4/6/2005	0.63		0.63	ND	0.63	ND	3.50		0.63	ND	0.80		3.00		0.63	ND	0.63	ND	1.20	
	7/26/2005	2.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND	3.20		15.00		2.10	ND	2.10	ND	5.00	
Located		2.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND	3.20		15.00		2.10	ND	2.10	ND	4.90	
On-site	10/26/2005							3.10		0.63	ND	0.63	ND	2.70						1.10	
	1/11/2006							4.70		0.62	ND	0.62	ND	1.50						0.62	ND
	4/25/2006							0.78		0.64	ND	0.64	ND	2.30						0.80	
								0.78		0.64	ND	0.64	ND	2.30						0.80	
	7/24/2006							0.87		0.65	ND	0.65	ND	1.30	ND					0.65	ND
	10/25/2006							1.10		0.66	ND	0.66	ND	1.30	ND					0.66	ND
	1/8/2007							88.00		0.62	ND	0.62	ND	2.80						2.00	
VP-5	4/6/2005	0.63		0.63	ND	0.63	ND	3000.00		0.63	ND	0.63	ND	2.70		0.63	ND	0.63	ND	1.00	
	7/26/2005	6.60	ND	6.60	ND	6.60	ND	47.00		6.60	ND	6.60	ND	25.00		6.60	ND	6.60	ND	8.60	
Located	10/26/2005							110.00		0.63	ND	0.63	ND	1.30	ND					0.63	ND
On-site	1/10/2006							120.00		0.61	ND	0.61	ND	1.20	ND					0.61	ND
								120.00		0.61	ND	0.61	ND	1.20	ND					0.61	ND
	4/25/2006							230.00		0.63	ND	1.50		10.00						3.20	
								230.00		0.63	ND	1.50		10.00						3.20	
	7/24/2006							38.00		0.64	ND	0.64	ND	1.30						0.64	ND
	10/25/2006							0.70		0.63	ND	0.63	ND	2.70						0.63	ND
	1/8/2007							1.10		0.62	ND	0.62	ND	1.70						0.62	ND

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
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ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	1,1,2,2-Tetrachloroethane (µg/m³)		4-Ethyltoluene (µg/m³)		1,3,5-Trimethylbenzene (µg/m³)		1,2,4-Trimethylbenzene (µg/m³)		Benzyl Chloride (µg/m³)		1,3-Dichlorobenzene (µg/m³)		1,4-Dichlorobenzene (µg/m³)		1,2-Dichlorobenzene (µg/m³)		1,2,4-Trichlorobenzene (µg/m³)		Hexachlorobutadiene (µg/m³)	
VP-1	4/6/2005	0.62	ND	0.62	ND	0.62	ND	1.30		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND
	7/26/2005	0.67	ND	14.00		22.00		52.00		0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND
Located	10/26/2005	0.63	ND			0.63	ND	1.20				0.63	ND	0.63	ND	0.63	ND				
On-site	1/10/2006	0.61	ND			0.61	ND	0.61	ND			0.61	ND	0.61	ND	0.61	ND				
	4/25/2006	0.65	ND			0.65		2.30				0.65	ND	0.65	ND	0.65	ND				
		0.65	ND			0.65		2.30				0.65	ND	0.65	ND	0.65	ND				
	7/24/2006	0.65	ND			0.65	ND	0.86				0.65	ND	0.65	ND	0.65	ND				
	10/25/2006	0.66	ND			6.40		26.00				0.66	ND	0.66	ND	0.66	ND				
		0.66	ND			6.50		26.00				0.66	ND	0.66	ND	0.66	ND				
	1/11/2007	0.59	ND			0.59	ND	0.66				0.59	ND	0.59	ND	0.59	ND				
VP-2	4/6/2005	0.62	ND	0.62	ND	0.62	ND	1.20		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND
	7/26/2005	0.66	ND	5.10		4.50		16.00		0.66	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND
Located	10/26/2005	0.63	ND			0.63	ND	1.10				0.63	ND	0.63	ND	0.63	ND				
On-site	1/10/2006	0.62	ND			0.62	ND	0.62	ND			0.62	ND	0.62	ND	0.62	ND				
		0.62	ND			0.62	ND	0.62	ND			0.62	ND	0.62	ND	0.62	ND				
	4/25/2006	0.64	ND			0.64	ND	1.70				0.64	ND	0.64	ND	0.64	ND				
		0.64	ND			0.64	ND	1.70				0.64	ND	0.64	ND	0.64	ND				
	7/24/2006	0.65	ND			0.65	ND	1.70				0.65	ND	0.65	ND	0.65	ND				
	10/25/2006	0.63	ND			0.63	ND	0.63	ND			0.63	ND	0.63	ND	0.63	ND				
	1/11/2007	0.60	ND			0.60	ND	0.64				0.60	ND	0.60	ND	0.60	ND				
VP-3	4/6/2005	0.62	ND	0.62	ND	0.62	ND	1.10		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND
	7/26/2005	0.67	ND	0.81		0.82		3.50		0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND
Located	10/26/2005	0.63	ND			0.63	ND	0.95				0.63	ND	0.63	ND	0.63	ND				
On-site	1/11/2006	0.63	ND			0.63	ND	0.92				0.63	ND	0.63	ND	0.63	ND				
	4/25/2006	0.65	ND			0.65	ND	1.00				0.65	ND	0.65	ND	0.65	ND				
		0.65	ND			0.65	ND	1.00				0.65	ND	0.65	ND	0.65	ND				
	7/24/2006	0.65	ND			0.65	ND	1.00				0.65	ND	0.65	ND	0.65	ND				
	10/25/2006	0.63	ND			0.63	ND	0.63	ND			0.63	ND	0.63	ND	0.63	ND				
	1/8/2007	0.64	ND			30.00		46.00				0.64	ND	0.64	ND	0.64	ND				
VP-4	4/6/2005	0.63	ND	0.79		0.63	ND	2.00		0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND
	7/26/2005	2.10	ND	2.80		2.80		13.00		2.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND
Located		2.10	ND	2.80		2.80		12.00		2.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND	2.10	ND
On-site	10/26/2005	0.63	ND			0.63	ND	1.90				0.63	ND	0.63	ND	0.63	ND				
	1/11/2006	0.62	ND			0.62	ND	1.00				0.62	ND	0.62	ND	0.62	ND				
	4/25/2006	0.64	ND			0.64	ND	1.20				0.64	ND	0.64	ND	0.64	ND				
		0.64	ND			0.64	ND	1.20				0.64	ND	0.64	ND	0.64	ND				
	7/24/2006	0.65	ND			0.65	ND	0.72				0.65	ND	0.65	ND	0.65	ND				
	10/25/2006	0.66	ND			0.66	ND	0.66	ND			0.66	ND	0.66	ND	0.66	ND				
	1/8/2007	0.62	ND			1.20		1.40				0.62	ND	0.62	ND	0.62	ND				
VP-5	4/6/2005	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND
	7/26/2005	6.60	ND	6.60	ND	6.60	ND	15.00		6.60	ND	6.60	ND	6.60	ND	6.60	ND	6.60	ND	6.60	ND
Located	10/26/2005	0.63	ND			0.63	ND	0.81				0.63	ND	0.63	ND	0.63	ND				
On-site	1/10/2006	0.61	ND			0.61	ND	0.73				0.61	ND	0.61	ND	0.61	ND				
		0.61	ND			0.61	ND	0.68				0.61	ND	0.61	ND	0.61	ND				
	4/25/2006	0.63	ND			1.50		5.50				0.63	ND	0.63	ND	0.63	ND				
		0.63	ND			1.50		5.50				0.63	ND	0.63	ND	0.63	ND				
	7/24/2006	0.64	ND			0.64	ND	1.20				0.64	ND	0.64	ND	0.64	ND				
	10/25/2006	0.63	ND			1.10		2.90				0.63	ND	0.63	ND	0.63	ND				
	1/8/2007	0.62	ND			0.62	ND	0.65				0.62	ND	0.62	ND	0.62	ND				

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M = Matrix interference; results may be biased high.
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	Propene (µg/m³)	Dichlorodifluoromethane (CFC 12) (µg/m³)	Chloromethane (µg/m³)	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) (µg/m³)	Vinyl Chloride (µg/m³)	1,3-Butadiene (µg/m³)	Bromomethane (µg/m³)	Chloroethane (µg/m³)	Ethanol (µg/m³)	Acetone (µg/m³)
VP-6	4/6/2005	1.60 M	2.90	1.30	0.62 ND	0.62 ND	0.62 ND	0.62 ND	0.62 ND	9.50	6.20 ND
	7/26/2005	0.66 ND	2.50	1.20	1.30 ND	0.66 ND	0.66 ND	0.66 ND	0.66 ND	6.60 ND	13.00
Located	10/26/2005			1.10		0.63 ND			0.63 ND		
On-site	1/11/2006			0.99		0.61 ND			0.61 ND		
	4/25/2006			1.20		0.64 ND			0.64 ND		
				1.20		0.64 ND			0.64 ND		
	7/24/2006			3.60		0.64 ND			0.64 ND		
	10/25/2006			0.72		0.62 ND			0.62 ND		
	1/11/2007			0.93		1.10			0.58 ND		
VP-7	4/6/2005	1.50 M	2.80	1.30	0.62 ND	0.62 ND	0.62 ND	0.62 ND	0.62 ND	6.20 ND	8.50 M
	7/26/2005	4.10 M	2.90	1.80	1.30 ND	0.65 ND	0.65 ND	0.65 ND	0.65 ND	16.00	39.00
Located	10/26/2005			0.62 ND		0.62 ND			0.62 ND		
On-site	1/10/2006			0.62 ND		0.62 ND			0.62 ND		
	4/25/2006			0.64 ND		0.64 ND			0.64 ND		
				0.64 ND		0.64 ND			0.64 ND		
	7/24/2006			1.30		0.67 ND			0.67 ND		
	10/25/2006			0.98		0.63 ND			0.63 ND		
	1/11/2007			0.61 ND		0.61 ND			0.61 ND		
VP-8	4/6/2005	1.80 M	3.00	1.40	0.62 ND	0.62 ND	0.62 ND	0.62 ND	0.62 ND	8.30	12.00
	7/26/2005	5.50 M	3.00	2.80	1.30 ND	0.64 ND	0.64 ND	0.64 ND	0.64 ND	7.40	23.00 M
Located	10/26/2005			4.00		0.63 ND			1.70		
On-site	1/10/2006			2.70		0.63			2.60		
	4/25/2006			1.80 ND		1.80 ND			1.80 ND		
				1.80 ND		1.80 ND			1.80 ND		
	7/24/2006			1.30		0.67 ND			0.67 ND		
	10/25/2006			2.40		0.65 ND			1.30		
	1/8/2007			0.83		0.64 ND			0.64 ND		
VP-9	4/6/2005	1.90 M	3.00	1.30	0.62 ND	0.62 ND	0.62 ND	0.62 ND	0.62 ND	11.00	12.00
	7/26/2005	5.60 M	3.00	1.40	1.30 ND	0.65 ND	0.65 ND	0.65 ND	0.65 ND	7.20	36.00
Located	10/26/2005			1.20		0.62 ND			0.62 ND		
On-site	1/11/2006			0.86		0.62 ND			0.62 ND		
	4/25/2006			1.20		0.63 ND			0.63 ND		
				1.20		0.63 ND			0.63 ND		
	7/24/2006			0.94		0.65 ND			0.65 ND		
	10/25/2006			0.80		0.62 ND			0.62 ND		
	1/8/2007			0.90		0.63 ND			0.63 ND		
VP-10	4/6/2005	4.20 M	3.00	1.40	0.62 ND	0.62 ND	0.62 ND	0.62 ND	0.62 ND	6.20 ND	8.60
	7/26/2005	6.10 M	3.10	2.10	1.30 ND	0.67 ND	0.67 ND	0.67 ND	0.67 ND	21.00	30.00 M
Located	10/26/2005			2.40		1.30			0.62 ND		
On-site	1/10/2006			1.50		0.82			0.61 ND		
	4/25/2006			2.10 ND		2.10 ND			2.10 ND		
				2.10 ND		2.10 ND			2.10 ND		
	7/24/2006			0.98		0.65 ND			0.65 ND		
	10/25/2006			0.96		0.63 ND			0.63 ND		
	1/8/2007			0.90		0.63 ND			0.63 ND		

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
M = Matrix interference; results may be biased high.
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	Trichlorofluoromethane (µg/m³)		Isopropyl Alcohol (µg/m³)		1,1-Dichloroethene (µg/m³)		Methylene chloride (µg/m³)		Trichlorotrifluoroethane (µg/m³)		Carbon Disulfide (µg/m³)		trans-1,2-Dichloroethene (µg/m³)		1,1-Dichloroethane (µg/m³)		Methyl tert-Butyl Ether (µg/m³)		Vinyl Acetate (µg/m³)	
VP-6	4/6/2005	1.50		1.00		0.62	ND	0.62		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	1.20	ND
	7/26/2005	1.30		0.66	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND	1.10		0.66	ND
Located	10/26/2005					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
On-site	1/11/2006					0.61	ND	4.20						0.61	ND	0.61	ND	0.61	ND		
	4/25/2006					0.64	ND	1.80						0.64	ND	0.64	ND	0.92			
						0.64	ND	1.80						0.64	ND	0.64	ND	0.92			
	7/24/2006					0.64	ND	0.77						0.64	ND	0.64	ND	0.64	ND		
	10/25/2006					0.62	ND	0.62	ND					0.62	ND	0.62	ND	0.62	ND		
	1/11/2007					0.58	ND	0.58	ND					0.58	ND	0.58	ND	0.58	ND		
VP-7	4/6/2005	1.50		0.73		0.62	ND	1.20		0.62	ND	1.90		0.62	ND	0.62	ND	0.62	ND	1.20	ND
	7/26/2005	1.80		3.70		0.65	ND	2.10		0.65	ND	11.00		0.65	ND	0.65	ND	3.80		0.65	ND
Located	10/26/2005					0.62	ND	0.62	ND					0.62	ND	0.62	ND	0.62	ND		
On-site	1/10/2006					0.62	ND	0.62	ND					0.62	ND	0.62	ND	0.62	ND		
	4/25/2006					0.64	ND	0.64	ND					0.64	ND	0.64	ND	0.64	ND		
						0.64	ND	0.64	ND					0.64	ND	0.64	ND	0.64	ND		
	7/24/2006					0.67	ND	0.67	ND					0.67	ND	0.67	ND	0.67	ND		
	10/25/2006					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
	1/11/2007					0.61	ND	0.61	ND					0.61	ND	0.61	ND	0.61	ND		
VP-8	4/6/2005	1.50		0.86		0.62	ND	0.90		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.73		1.20	ND
	7/26/2005	1.80		1.30	M	0.64	ND	2.90		0.69		42.00		0.64	ND	0.64	ND	3.40		7.40	M
Located	10/26/2005					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
On-site	1/10/2006					0.61	ND	0.61	ND					0.61	ND	0.61	ND	0.61	ND		
	4/25/2006					1.80	ND	1.80	ND					1.80	ND	1.80	ND	1.80	ND		
						1.80	ND	1.80	ND					1.80	ND	1.80	ND	1.80	ND		
	7/24/2006					0.67	ND	0.78						0.67	ND	0.67	ND	0.67	ND		
	10/25/2006					0.65	ND	0.65	ND					0.65	ND	0.65	ND	0.65	ND		
	1/8/2007					0.64	ND	0.64	ND					0.64	ND	0.64	ND	0.64	ND		
VP-9	4/6/2005	1.60		1.40		0.62	ND	1.10		0.62		0.62	ND	0.62	ND	0.62	ND	0.78		1.20	ND
	7/26/2005	1.70		2.70		0.65	ND	1.80		0.65	ND	1.70		0.65	ND	0.65	ND	3.70		0.65	ND
Located	10/26/2005					0.62	ND	0.62	ND					0.62	ND	0.62	ND	0.62	ND		
On-site	1/11/2006					0.62	ND	1.60						0.62	ND	0.62	ND	0.62	ND		
	4/25/2006					0.63	ND	0.95						0.63	ND	0.63	ND	1.20			
						0.63	ND	0.95						0.63	ND	0.63	ND	1.20			
	7/24/2006					0.65	ND	1.00						0.65	ND	0.65	ND	0.65	ND		
	10/25/2006					0.62	ND	0.62	ND					0.62	ND	0.62	ND	0.62	ND		
	1/8/2007					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
VP-10	4/6/2005	1.50		0.68		0.62	ND	0.67		0.62	ND	5.40		0.62	ND	0.62	ND	0.63		1.20	ND
	7/26/2005	1.80		2.80	M	0.67	ND	2.10		0.67	ND	9.20		0.67	ND	0.67	ND	3.60		0.67	ND
Located	10/26/2005					0.62	ND	0.75						0.62	ND	0.62	ND	1.40			
On-site	1/10/2006					0.61	ND	0.61	ND					0.61	ND	0.61	ND	0.61	ND		
	4/25/2006					2.10	ND	2.40						2.10	ND	2.10	ND	2.10	ND		
						2.10	ND	2.40						2.10	ND	2.10	ND	2.10	ND		
	7/24/2006					0.65	ND	1.50						0.65	ND	0.65	ND	0.65	ND		
	10/25/2006					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
	1/8/2007					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
M = Matrix interference; results may be biased high.
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	2-Butanone (MEK) (µg/m³)	cis-1,2-Dichloroethene (µg/m³)	Ethyl Acetate (µg/m³)	n-Hexane (µg/m³)	Chloroform (µg/m³)	Tetrahydrofuran (µg/m³)	1,2-Dichloroethane (µg/m³)	1,1,1-Trichloroethane (µg/m³)	Benzene (µg/m³)	Carbon Tetrachloride (µg/m³)
VP-6	4/6/2005	0.87	0.62 ND	0.62 ND	1.30	0.62 ND	0.62 ND	0.62 ND	0.62 ND	1.20	0.62 ND
	7/26/2005	1.80	0.66 ND	0.66 ND	0.66 ND	0.66 ND	0.66 ND	0.66 ND	0.66 ND	0.66 ND	0.66 ND
Located	10/26/2005		0.63 ND			0.63 ND		0.63 ND	0.63 ND	0.75	0.63 ND
On-site	1/11/2006		0.61 ND			0.61 ND		0.61 ND	0.61 ND	1.90	0.61 ND
	4/25/2006		0.64 ND			0.64 ND		0.64 ND	0.64 ND	1.80	0.64 ND
			0.64 ND			0.64 ND		0.64 ND	0.64 ND	1.80	0.64 ND
	7/24/2006		0.64 ND			0.64 ND		0.64 ND	4.10	0.64 ND	0.64 ND
	10/25/2006		0.62 ND			0.62 ND		0.62 ND	0.62 ND	0.67	0.62 ND
	1/11/2007		0.58 ND			0.58 ND		0.58 ND	0.82	0.91	0.58 ND
VP-7	4/6/2005	130.00	0.62 ND	0.62 ND	1.90	0.62 ND	61.00	0.62 ND	0.62 ND	1.10	0.62 ND
	7/26/2005	130.00	0.65 ND	1.60	12.00	0.65 ND	59.00	0.65 ND	0.65 ND	8.80	0.65 ND
Located	10/26/2005		0.62 ND			0.74		0.62 ND	3.20	0.70	0.62 ND
On-site	1/10/2006		0.62 ND			0.62 ND		0.62 ND	0.83	0.62 ND	0.62 ND
	4/25/2006		0.64 ND			0.64 ND		0.64 ND	0.75	0.75	0.64 ND
			0.64 ND			0.64 ND		0.64 ND	0.75	0.75	0.64 ND
	7/24/2006		0.67 ND			0.67 ND		0.67 ND	0.78	0.67 ND	0.67 ND
	10/25/2006		0.63 ND			0.63 ND		0.63 ND	0.63 ND	0.63 ND	0.63 ND
	1/11/2007		0.61 ND			0.61 ND		0.61 ND	0.61 ND	1.30	0.61 ND
VP-8	4/6/2005	2.30	0.62 ND	0.62 ND	1.30	0.62 ND	0.62 ND	0.62 ND	0.62 ND	1.30	0.62 ND
	7/26/2005	3.60	0.64 ND	0.69	3.30	0.77	0.64 ND	0.64 ND	1.90	8.90	0.64 ND
Located	10/26/2005		0.63 ND			2.10		0.63 ND	22.00	3.80	0.63 ND
On-site	1/10/2006		0.61 ND			2.50		0.61 ND	43.00	5.30	0.61 ND
	4/25/2006		1.80 ND			1.80 ND		1.80 ND	1.80 ND	1.80 ND	1.80 ND
			1.80 ND			1.80 ND		1.80 ND	1.80 ND	1.80 ND	1.80 ND
	7/24/2006		0.67 ND			0.67 ND		0.67 ND	0.67 ND	2.10	0.67 ND
	10/25/2006		0.65 ND			1.00		0.65 ND	0.65 ND	0.87	0.65 ND
	1/8/2007		0.64 ND			0.64 ND		0.64 ND	0.64 ND	1.20	0.64 ND
VP-9	4/6/2005	2.20	0.62 ND	0.62 ND	1.40	0.62 ND	0.62 ND	0.62 ND	0.62 ND	1.60	0.62 ND
	7/26/2005	6.40	0.65 ND	1.70	4.10	0.65 ND	0.65 ND	0.65 ND	0.65 ND	6.30	0.65 ND
Located	10/26/2005		0.62 ND			0.62 ND		0.62 ND	0.62 ND	1.30	0.62 ND
On-site	1/11/2006		0.62 ND			0.62 ND		0.62 ND	0.62 ND	1.20	0.62 ND
	4/25/2006		0.63 ND			0.63 ND		0.63 ND	0.63 ND	1.30	0.63 ND
			0.63 ND			0.63 ND		0.63 ND	0.63 ND	1.30	0.63 ND
	7/24/2006		0.65 ND			0.65 ND		0.65 ND	0.65 ND	0.65 ND	0.65 ND
	10/25/2006		0.62 ND			0.62 ND		0.62 ND	0.62 ND	0.82	0.62 ND
	1/8/2007		0.63 ND			0.63 ND		0.63 ND	0.63 ND	1.10	0.63 ND
VP-10	4/6/2005	2.60	0.62 ND	0.62 ND	1.00	0.62 ND	0.62 ND	0.62 ND	2.00	1.60	0.62 ND
	7/26/2005	5.70	0.67 ND	1.10	3.90	0.67 ND	0.67 ND	0.67 ND	0.67 ND	13.00	0.67 ND
Located	10/26/2005		0.62 ND			0.62 ND		0.62 ND	0.62 ND	25.00	0.62 ND
On-site	1/10/2006		0.61 ND			0.61 ND		0.61 ND	0.61 ND	1.60	0.61 ND
	4/25/2006		2.10 ND			2.10 ND		2.10 ND	2.10 ND	3.70	2.10 ND
			2.10 ND			2.10 ND		2.10 ND	2.10 ND	3.70	2.10 ND
	7/24/2006		0.65 ND			0.65 ND		0.65 ND	2.50	0.81	0.65 ND
	10/25/2006		0.63 ND			0.63 ND		0.63 ND	0.63 ND	0.63 ND	0.63 ND
	1/8/2007		0.63 ND			0.63 ND		0.63 ND	0.63 ND	0.77	0.63 ND

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TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	Cyclohexane (µg/m³)		1,2-Dichloropropane (µg/m³)		Bromodichloromethane (µg/m³)		Trichloroethene (µg/m³)		1,4-Dioxane (µg/m³)		n-Heptane (µg/m³)		cis-1,3-Dichloropropene (µg/m³)		4-Methyl-2-pentanone (µg/m³)		trans-1,3-Dichloropropene (µg/m³)		1,1,2-Trichloroethane (µg/m³)		Toluene (µg/m³)	
VP-6	4/6/2005	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	2.90	
	7/26/2005	0.66	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND	2.30	
Located	10/26/2005			0.63	ND			0.63	ND											0.63	ND	1.80	
On-site	1/11/2006			0.61	ND			0.61	ND											0.61	ND	8.90	
	4/25/2006			0.64	ND			0.64	ND											0.64	ND	2.90	
				0.64	ND			0.64	ND											0.64	ND	2.90	
	7/24/2006			0.64	ND			0.64	ND											0.64	ND	3.30	
	10/25/2006			0.62	ND			0.62	ND											0.62	ND	0.76	
	1/11/2007			0.58	ND			1.10												0.58	ND	1.80	
VP-7	4/6/2005	0.67		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.93		0.62	ND	0.62	ND	0.62	ND	0.62	ND	3.50	
	7/26/2005	5.90		0.65	ND	0.65	ND	0.65	ND	1.10		17.00		0.65	ND	0.65	ND	0.65	ND	0.65	ND	46.00	
Located	10/26/2005			0.62	ND			1.90												0.62	ND	0.91	
On-site	1/10/2006			0.62	ND			0.62	ND											0.62	ND	1.50	
	4/25/2006			0.64	ND			0.64	ND											0.64	ND	1.40	
				0.64	ND			0.64	ND											0.64	ND	1.40	
	7/24/2006			0.67	ND			1.70												0.67	ND	3.00	
	10/25/2006			0.63	ND			0.63	ND											0.63	ND	1.40	
	1/11/2007			0.61	ND			0.61	ND											0.61	ND	3.60	
VP-8	4/6/2005	1.60		0.62	ND	0.62	ND	0.62	ND	0.62	ND	2.90		0.62	ND	0.62	ND	0.62	ND	0.62	ND	5.60	
	7/26/2005	1.30		0.64	ND	0.64	ND	3.80		0.64	ND	1.40		0.64	ND	0.64	ND	0.64	ND	0.64	ND	10.00	
Located	10/26/2005			0.63	ND			0.63	ND											0.63	ND	0.63	ND
On-site	1/10/2006			0.61	ND			0.61	ND											0.61	ND	0.61	ND
	4/25/2006			1.80	ND			1.80	ND											1.80	ND	6.20	
				1.80	ND			1.80	ND											1.80	ND	6.20	
	7/24/2006			0.67	ND			1.10												0.67	ND	2.70	
	10/25/2006			0.65	ND			0.65	ND											0.65	ND	0.65	ND
	1/8/2007			0.64	ND			0.64	ND											0.64	ND	3.70	
VP-9	4/6/2005	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.72		0.62	ND	0.62	ND	0.62	ND	0.62	ND	7.40	
	7/26/2005	1.10		0.65	ND	0.65	ND	0.70		0.65	ND	2.60		0.65	ND	1.40		0.65	ND	0.65	ND	20.00	
Located	10/26/2005			0.62	ND			0.62	ND											0.62	ND	1.30	
On-site	1/11/2006			0.62	ND			0.62	ND											0.62	ND	4.80	
	4/25/2006			0.63	ND			0.63	ND											0.63	ND	3.60	
				0.63	ND			0.63	ND											0.63	ND	3.60	
	7/24/2006			0.65	ND			0.71												0.65	ND	2.10	
	10/25/2006			0.62	ND			0.62	ND											0.62	ND	1.80	
	1/8/2007			0.63	ND			0.63	ND											0.63	ND	2.60	
VP-10	4/6/2005	6.10		0.62	ND	0.62	ND	1.10		0.62	ND	15.00		0.62	ND	0.62	ND	0.62	ND	0.62	ND	2.70	
	7/26/2005	8.90		0.67	ND	0.67	ND	0.67	ND	0.67	ND	3.80		0.67	ND	0.67	ND	0.67	ND	0.67	ND	17.00	
Located	10/26/2005			0.62	ND			0.64												0.62	ND	130.00	
On-site	1/10/2006			0.61	ND			0.61	ND											0.61	ND	1.60	
	4/25/2006			2.10	ND			2.10	ND											2.10	ND	4.00	
				2.10	ND			2.10	ND											2.10	ND	4.00	
	7/24/2006			0.65	ND			0.65	ND											0.65	ND	12.00	
	10/25/2006			0.63	ND			0.63	ND											0.63	ND	0.73	
	1/8/2007			0.63	ND			0.63	ND											0.63	ND	2.40	

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
M = Matrix interference; results may be biased high.
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	2-Hexanone (µg/m³)		Dibromochloromethane (µg/m³)		1,2-Dibromoethane (µg/m³)		Tetrachloroethene (µg/m³)		Chlorobenzene (µg/m³)		Ethylbenzene (µg/m³)		m,p-Xylenes (µg/m³)		Bromoform (µg/m³)		Styrene (µg/m³)		o-Xylene (µg/m³)	
VP-6	4/6/2005	0.62		0.62	ND	0.62	ND	1.50		0.62	ND	0.62	ND	1.50		0.62	ND	0.62	ND	0.62	ND
	7/26/2005	0.66	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND	2.10		0.66	ND	0.66	ND	0.73	
Located	10/26/2005							0.63	ND	0.63	ND	0.63	ND	1.80						0.70	
On-site	1/11/2006							0.67		0.61	ND	1.10		3.60						1.20	
	4/25/2006							1.30		0.64	ND	0.64	ND	1.50						0.64	ND
								1.30		0.64	ND	0.64	ND	1.50						0.64	ND
	7/24/2006							0.76		0.64	ND	0.64	ND	1.30	ND					0.64	ND
	10/25/2006							0.95		0.62	ND	0.62	ND	1.20	ND					0.62	ND
	1/11/2007							1.80		0.58	ND	0.58	ND	1.50						0.58	ND
VP-7	4/6/2005	0.62		0.62	ND	0.62	ND	3.80		0.62	ND	0.62	ND	1.90		0.62	ND	0.62	ND	0.73	
	7/26/2005	0.65	ND	0.65	ND	0.65	ND	1.50		0.65	ND	11.00		61.00		0.65	ND	1.20		28.00	
Located	10/26/2005							0.92		0.62	ND	0.62	ND	1.20	ND					0.62	ND
On-site	1/10/2006							1.20		0.62	ND	0.62	ND	1.20	ND					0.62	ND
	4/25/2006							1.10		1.40		0.64	ND	1.60						1.00	
								1.10		1.40		0.64	ND	1.60						1.00	
	7/24/2006							2.30		0.67	ND	0.67	ND	1.30	ND					0.67	ND
	10/25/2006							0.70		0.63	ND	0.63	ND	1.30	ND					0.63	ND
	1/11/2007							0.61		0.61	ND	0.61	ND	2.20						0.76	
VP-8	4/6/2005	0.62		0.62	ND	0.62	ND	1.40		0.62	ND	0.81		3.00		0.62	ND	0.62	ND	1.10	
	7/26/2005	0.64	ND	0.64	ND	0.64	ND	19.00		0.64	ND	1.20		4.20		0.64	ND	0.64	ND	1.40	
Located	10/26/2005							0.70		0.63	ND	0.63	ND	1.30	ND					0.63	ND
On-site	1/10/2006							0.74		0.61	ND	0.73		1.20	ND					0.61	ND
	4/25/2006							1.80	ND	1.80	ND	1.80	ND	4.80						2.00	
								1.80	ND	1.80	ND	1.80	ND	4.80						2.00	
	7/24/2006							0.67	ND	0.67	ND	0.67	ND	1.30	ND					0.67	ND
	10/25/2006							1.10		0.65	ND	0.65	ND	1.30	ND					0.65	ND
	1/8/2007							0.99		0.64	ND	0.64	ND	2.50						0.87	
VP-9	4/6/2005	0.62		0.62	ND	0.62	ND	1.60		0.62	ND	0.84		2.90		0.62	ND	0.62	ND	1.10	
	7/26/2005	1.80		0.65	ND	0.65	ND	2.10		0.65	ND	3.80		15.00		0.65	ND	0.78		5.00	
Located	10/26/2005							0.62	ND	0.62	ND	0.62	ND	1.20	ND					0.62	ND
On-site	1/11/2006							0.86		0.62	ND	1.40		5.30						1.10	
	4/25/2006							0.78		0.63	ND	0.69		3.00						1.10	
								0.78		0.63	ND	0.69		3.00						1.10	
	7/24/2006							0.99		0.65	ND	0.65	ND	1.30	ND					0.65	ND
	10/25/2006							0.62	ND	0.62	ND	0.62	ND	1.20	ND					0.62	ND
	1/8/2007							0.63	ND	0.63	ND	0.63	ND	1.70						0.63	ND
VP-10	4/6/2005	0.62		0.62	ND	0.62	ND	1.80		0.62	ND	0.73		3.30		0.62	ND	0.62	ND	1.10	
	7/26/2005	0.67	ND	0.67	ND	0.67	ND	1.10		0.67	ND	2.80		11.00		0.67	ND	0.67	ND	3.70	
Located	10/26/2005							0.86		0.62	ND	23.00		95.00						30.00	
On-site	1/10/2006							0.61	ND	0.61	ND	0.61	ND	1.20	ND					0.61	ND
	4/25/2006							2.10	ND	2.10	ND	2.10	ND	4.20	ND					2.10	ND
								2.10	ND	2.10	ND	2.10	ND	4.20	ND					2.10	ND
	7/24/2006							1.10		0.65	ND	1.10		2.90						1.00	
	10/25/2006							0.63	ND	0.63	ND	0.63	ND	1.30	ND					0.63	ND
	1/8/2007							0.63	ND	0.63	ND	0.63	ND	2.40						0.95	

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TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	1,1,2,2-Tetrachloroethane (µg/m³)		4-Ethyltoluene (µg/m³)		1,3,5-Trimethylbenzene (µg/m³)		1,2,4-Trimethylbenzene (µg/m³)		Benzyl Chloride (µg/m³)		1,3-Dichlorobenzene (µg/m³)		1,4-Dichlorobenzene (µg/m³)		1,2-Dichlorobenzene (µg/m³)		1,2,4-Trichlorobenzene (µg/m³)		Hexachlorobutadiene (µg/m³)	
VP-6	4/6/2005	0.62	ND	0.62	ND	0.62	ND	0.86		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND
	7/26/2005	0.66	ND	0.66	ND	0.66	ND	1.80		0.66	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND
Located	10/26/2005	0.63	ND			0.63	ND	1.50				0.63	ND	0.63	ND	0.63	ND				
On-site	1/11/2006	0.61	ND			0.61	ND	0.71				0.61	ND	0.61	ND	0.61	ND				
	4/25/2006	0.64	ND			0.64	ND	1.10				0.64	ND	0.64	ND	0.64	ND				
		0.64	ND			0.64	ND	1.10				0.64	ND	0.64	ND	0.64	ND				
	7/24/2006	0.64	ND			0.64	ND	0.85				0.64	ND	0.64	ND	0.64	ND				
	10/25/2006	0.62	ND			0.62	ND	0.62	ND			0.62	ND	0.62	ND	0.62	ND				
	1/11/2007	0.58	ND			0.58	ND	0.58				0.58	ND	0.58	ND	0.58	ND				
VP-7	4/6/2005	0.62	ND	0.62	ND	0.62	ND	1.10		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND
	7/26/2005	0.65	ND	4.70		7.30		19.00		0.65	ND	0.65	ND	2.50		0.65	ND	0.65	ND	0.65	ND
Located	10/26/2005	0.62	ND			0.62	ND	0.73				0.62	ND	0.62	ND	0.62	ND				
On-site	1/10/2006	0.62	ND			0.62	ND	0.62	ND			0.62	ND	0.62	ND	0.62	ND				
	4/25/2006	0.64	ND			0.65		3.00				0.64	ND	13.00		0.79					
		0.64	ND			0.65		3.00				0.64	ND	13.00		0.79					
	7/24/2006	0.67	ND			0.67	ND	0.67	ND			0.67	ND	0.67	ND	0.67	ND				
	10/25/2006	0.63	ND			0.63	ND	0.63	ND			0.63	ND	0.63	ND	0.63	ND				
	1/11/2007	0.61	ND			0.61	ND	0.82				0.61	ND	0.61	ND	0.61	ND				
VP-8	4/6/2005	0.62	ND	0.62	ND	0.62	ND	1.50		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND
	7/26/2005	0.64	ND	0.64	ND	0.64	ND	0.69		0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND
Located	10/26/2005	0.63	ND			0.63	ND	0.70				0.63	ND	0.63	ND	0.63	ND				
On-site	1/10/2006	0.61	ND			0.75		3.00				0.61	ND	0.61	ND	0.61	ND				
	4/25/2006	1.80	ND			1.80	ND	4.90				1.80	ND	1.80	ND	1.80	ND				
		1.80	ND			1.80	ND	4.90				1.80	ND	1.80	ND	1.80	ND				
	7/24/2006	0.67	ND			0.67	ND	0.87				0.67	ND	0.67	ND	0.67	ND				
	10/25/2006	0.65	ND			0.65	ND	0.65	ND			0.65	ND	0.65	ND	0.65	ND				
	1/8/2007	0.64	ND			0.64	ND	1.20				0.64	ND	0.64	ND	0.64	ND				
VP-9	4/6/2005	0.62	ND	0.62	ND	0.62	ND	1.30		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND
	7/26/2005	0.65	ND	1.90		1.90		7.70		0.65	ND	0.65	ND	3.40		0.65	ND	0.65	ND	0.65	ND
Located	10/26/2005	0.62	ND			0.62	ND	2.00				0.62	ND	0.62	ND	0.62	ND				
On-site	1/11/2006	0.62	ND			0.62	ND	1.30				0.62	ND	0.62	ND	0.62	ND				
	4/25/2006	0.63	ND			0.77		2.60				0.63	ND	0.63	ND	0.63	ND				
		0.63	ND			0.77		2.60				0.63	ND	0.63	ND	0.63	ND				
	7/24/2006	0.65	ND			0.65	ND	1.30				0.65	ND	0.65	ND	0.65	ND				
	10/25/2006	0.62	ND			0.62	ND	0.62	ND			0.62	ND	0.62	ND	0.62	ND				
	1/8/2007	0.63	ND			0.63	ND	0.70				0.63	ND	0.63	ND	0.63	ND				
VP-10	4/6/2005	0.62	ND	0.62		0.62	ND	2.10		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND
	7/26/2005	0.67	ND	1.60		1.50		6.10		0.67	ND	0.67	ND	1.50		0.67	ND	0.67	ND	0.67	ND
Located	10/26/2005	0.62	ND			9.70		31.00				0.62	ND	0.62	ND	0.62	ND				
On-site	1/10/2006	0.61	ND			0.61	ND	0.61	ND			0.61	ND	0.61	ND	0.61	ND				
	4/25/2006	2.10	ND			2.10	ND	3.20				2.10	ND	2.10	ND	2.10	ND				
		2.10	ND			2.10	ND	3.20				2.10	ND	2.10	ND	2.10	ND				
	7/24/2006	0.65	ND			0.65	ND	1.10				0.65	ND	0.72		0.65	ND				
	10/25/2006	0.63	ND			0.63	ND	0.63	ND			0.63	ND	0.63	ND	0.63	ND				
	1/8/2007	0.63	ND			0.80		1.50				0.63	ND	0.66		0.63	ND				

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TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	Propene (µg/m³)		Dichlorodifluoromethane (CFC 12) (µg/m³)		Chloromethane (µg/m³)		1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) (µg/m³)		Vinyl Chloride (µg/m³)		1,3-Butadiene (µg/m³)		Bromomethane (µg/m³)		Chloroethane (µg/m³)		Ethanol (µg/m³)		Acetone (µg/m³)	
VP-11	4/6/2005	3.60	M	2.90		1.10		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	6.10	ND	6.70	
	7/26/2005	6.90	M	3.30		1.10		1.30	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND	6.40	ND	6.40	ND
Located	10/26/2005					0.62	ND			0.62	ND					0.62	ND				
Off-site						0.62	ND			0.62	ND					0.62	ND				
	1/10/2006					0.61	ND			0.61	ND					0.61	ND				
	4/25/2006					0.65				0.63	ND					0.63	ND				
						0.63	ND			0.63	ND					0.63	ND				
						0.65				0.63	ND					0.63	ND				
						0.63	ND			0.63	ND					0.63	ND				
	7/24/2006					0.99				0.64	ND					0.64	ND				
	10/25/2006					0.63	ND			0.63	ND					0.63	ND				
	1/11/2007					0.58	ND			0.58	ND					0.58	ND				
VP-12	4/6/2005	1.20	M	2.80		1.30		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	6.10	ND	10.00	
		1.20	M	2.80		1.10		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	6.10	ND	9.90	
Located	7/26/2005	0.64	ND	3.20		1.30		1.30	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND	6.40	ND	6.40	ND
Off-site	10/26/2005					1.10				0.62	ND					1.20					
	1/10/2006					0.61	ND			0.61	ND					0.61	ND				
	4/25/2006					1.30				0.62	ND					0.62	ND				
						1.30				0.62	ND					0.62	ND				
	7/24/2006					0.65	ND			0.65	ND					0.65	ND				
	10/25/2006					0.63	ND			0.63	ND					0.63	ND				
	1/11/2007					0.57	ND			0.57	ND					0.57	ND				
VP-13	4/21/2005	1.60	M	2.90		1.30		0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	16.00		12.00	M
	7/26/2005	0.66	ND	0.66	ND	0.66	ND	1.30	ND	0.66	ND	0.66	ND	0.66	ND	0.66	ND	6.60	ND	20.00	
Located	10/26/2005					0.82				0.63	ND					0.63	ND				
Off-site						0.83				0.63	ND					0.63	ND				
	1/10/2006					1.10				0.62	ND					0.62	ND				
	4/25/2006					8.70				0.63	ND					0.75					
						8.70				0.63	ND					0.75					
	7/24/2006					2.00				0.69	ND					0.69	ND				
	10/25/2006					0.73				0.64	ND					0.64	ND				
	1/11/2007					0.59	ND			0.59	ND					0.59	ND				
VP-14	4/6/2005	6.30	M	2.90		0.96		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	6.20	ND	7.30	
	7/26/2005	1.10	M	1.40		1.40		1.30	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	6.50	ND	20.00	M
Located	10/26/2005					0.63	ND			0.63	ND					0.63	ND				
Off-site	1/10/2006					0.61	ND			0.61	ND					0.61	ND				
	4/25/2006					0.77				0.63	ND					0.63	ND				
						0.77				0.63	ND					0.63	ND				
	7/24/2006					1.60				0.64	ND					0.64	ND				
						1.40				0.64	ND					0.64	ND				
	10/25/2006					0.62	ND			0.62	ND					0.62	ND				
	1/11/2007					0.59	ND			0.59	ND					0.59	ND				

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TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	Trichlorofluoromethane (µg/m³)		Isopropyl Alcohol (µg/m³)		1,1-Dichloroethene (µg/m³)		Methylene chloride (µg/m³)		Trichlorotrifluoroethane (µg/m³)		Carbon Disulfide (µg/m³)		trans-1,2-Dichloroethene (µg/m³)		1,1-Dichloroethane (µg/m³)		Methyl tert-Butyl Ether (µg/m³)		Vinyl Acetate (µg/m³)	
VP-11	4/6/2005	1.60		0.61	ND	0.61	ND	0.61	ND	0.61		1.10		0.61	ND	0.61	ND	0.61	ND	1.20	ND
	7/26/2005	1.90		0.64	ND	0.64	ND	2.50		0.65		1.50		0.64	ND	0.64	ND	3.70		0.64	ND
Located Off-site	10/26/2005					0.62	ND	0.62	ND					0.62	ND	0.62	ND	0.62	ND		
						0.62	ND	0.62	ND					0.62	ND	0.62	ND	0.62	ND		
	1/10/2006					0.61	ND	0.61	ND					0.61	ND	0.61	ND	0.61	ND		
	4/25/2006					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
						0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
						0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
						0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
	7/24/2006					0.64	ND	0.64	ND					0.64	ND	0.64	ND	0.64	ND		
	10/25/2006					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
	1/11/2007					0.58	ND	0.58	ND					0.58	ND	0.58	ND	0.58	ND		
VP-12	4/6/2005	1.50		0.66		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	1.20	ND
		1.40		0.66		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	1.20	ND
Located Off-site	7/26/2005	1.90		0.76		0.64	ND	1.00		0.64	ND	3.00		0.64	ND	0.64	ND	1.60		0.64	ND
	10/26/2005					0.62	ND	0.62	ND					0.62	ND	0.62	ND	0.62	ND		
	1/10/2006					0.61	ND	0.61	ND					0.61	ND	0.61	ND	0.61	ND		
	4/25/2006					0.62	ND	1.50						0.62	ND	0.62	ND	0.62	ND		
						0.62	ND	1.50						0.62	ND	0.62	ND	0.62	ND		
	7/24/2006					0.65	ND	0.65	ND					0.65	ND	0.65	ND	0.65	ND		
	10/25/2006					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
	1/11/2007					0.57	ND	0.58						0.57	ND	0.57	ND	0.57	ND		
VP-13	4/21/2005	1.50		1.10		0.63	ND	0.63	ND	0.63		0.63	ND	0.63	ND	0.63	ND	0.63	ND	1.30	ND
	7/26/2005	2.50		0.66	ND	0.66	ND	3.70		0.76		4.00		0.66	ND	0.66	ND	6.50		0.66	ND
Located Off-site	10/26/2005					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
						0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
	1/10/2006					0.62	ND	0.86						0.62	ND	0.62	ND	0.62	ND		
	4/25/2006					0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
						0.63	ND	0.63	ND					0.63	ND	0.63	ND	0.63	ND		
	7/24/2006					0.69	ND	1.00						0.69	ND	0.69	ND	0.69	ND		
	10/25/2006					0.64	ND	0.64	ND					0.64	ND	0.64	ND	0.64	ND		
	1/11/2007					0.59	ND	0.63						0.59	ND	0.59	ND	0.59	ND		
VP-14	4/6/2005	1.60		0.62	ND	0.62	ND	0.64		0.62	ND	3.10		0.62	ND	0.62	ND	0.62	ND	1.20	ND
	7/26/2005	2.40		1.00	M	0.65	ND	1.30		0.65	ND	14.00		0.65	ND	0.65	ND	1.90		0.65	ND
Located Off-site	10/26/2005					0.63	ND	0.63	ND					0.63	ND	1.10		0.63	ND		
	1/10/2006					0.61	ND	0.61	ND					0.61	ND	0.84		0.61	ND		
	4/25/2006					0.63	ND	0.63	ND					0.63	ND	0.86		0.63	ND		
						0.63	ND	0.63	ND					0.63	ND	0.86		0.63	ND		
	7/24/2006					0.64	ND	0.64	ND					0.64	ND	1.40		0.64	ND		
						0.64	ND	0.64	ND					0.64	ND	1.30		0.64	ND		
	10/25/2006					0.62	ND	0.62	ND					0.62	ND	0.62	ND	0.62	ND		
	1/11/2007					0.59	ND	0.59	ND					0.59	ND	0.59	ND	0.59	ND		

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
M = Matrix interference; results may be biased high.
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	2-Butanone (MEK) (µg/m³)	cis-1,2-Dichloroethene (µg/m³)	Ethyl Acetate (µg/m³)	n-Hexane (µg/m³)	Chloroform (µg/m³)	Tetrahydrofuran (µg/m³)	1,2-Dichloroethane (µg/m³)	1,1,1-Trichloroethane (µg/m³)	Benzene (µg/m³)	Carbon Tetrachloride (µg/m³)
VP-11	4/6/2005	1.10	0.61 ND	0.61 ND	1.10	0.62	0.61 ND	0.61 ND	2.60	1.90	0.61 ND
	7/26/2005	1.10	0.64 ND	0.64 ND	4.80	1.60	0.64 ND	0.64 ND	1.60	4.90	0.64 ND
Located	10/26/2005		0.62 ND			1.70		0.62 ND	2.60	1.60	0.62 ND
Off-site			0.62 ND			1.60		0.62 ND	2.60	1.60	0.62 ND
	1/10/2006		0.61 ND			1.20		0.61 ND	0.84	3.20	0.61 ND
	4/25/2006		0.63 ND			2.60		0.63 ND	0.77	2.00	0.63 ND
			0.63 ND			2.50		0.63 ND	0.77	2.00	0.63 ND
			0.63 ND			2.60		0.63 ND	0.77	2.00	0.63 ND
			0.63 ND			2.50		0.63 ND	0.77	2.00	0.63 ND
	7/24/2006		0.64 ND			4.40		0.64 ND	3.50	1.00	0.64 ND
	10/25/2006		0.63 ND			3.00		0.63 ND	1.10	0.89	0.63 ND
	1/11/2007		0.58 ND			0.58 ND		0.58 ND	0.58 ND	1.30	0.58 ND
VP-12	4/6/2005	10.00	0.61 ND	0.61 ND	0.96	0.61 ND	7.30	0.61 ND	0.61 ND	0.92	0.61 ND
		9.50	0.61 ND	0.61 ND	0.93	0.61 ND	7.40	0.61 ND	0.61 ND	0.87	0.61 ND
Located	7/26/2005	2.40	0.64 ND	0.64 ND	1.90	0.89	0.64 ND	0.64 ND	1.20	1.60	0.64 ND
Off-site	10/26/2005		0.62 ND			0.62 ND		0.62 ND	0.62 ND	0.62 ND	0.62 ND
	1/10/2006		0.61 ND			0.61 ND		0.61 ND	0.61 ND	0.61 ND	0.61 ND
	4/25/2006		0.62 ND			0.62 ND		0.62 ND	0.77	0.83	0.62 ND
			0.62 ND			0.62 ND		0.62 ND	0.77	0.83	0.62 ND
	7/24/2006		0.65 ND			0.65 ND		0.65 ND	0.65 ND	0.76	0.65 ND
	10/25/2006		0.63 ND			0.63 ND		0.63 ND	0.63 ND	0.68	0.63 ND
	1/11/2007		0.57 ND			0.57 ND		0.57 ND	0.57 ND	0.57	0.57 ND
VP-13	4/21/2005	0.96	0.63 ND	3.10	5.20	0.63 ND	0.63 ND	0.63 ND	1.20	1.30	0.63 ND
	7/26/2005	6.60	0.66 ND	0.87	8.70	0.82	0.66 ND	0.66 ND	2.10	6.30	0.66 ND
Located	10/26/2005		0.63 ND			0.63 ND		0.63 ND	0.63 ND	0.93	0.63 ND
Off-site			0.63 ND			0.63 ND		0.63 ND	0.63 ND	0.90	0.63 ND
	1/10/2006		0.62 ND			0.62 ND		0.62 ND	0.62 ND	0.98	0.62 ND
	4/25/2006		0.63 ND			0.63 ND		0.63 ND	0.63 ND	0.63 ND	0.63 ND
			0.63 ND			0.63 ND		0.63 ND	0.63 ND	0.63 ND	0.63 ND
	7/24/2006		0.69 ND			0.69 ND		0.69 ND	1.10	1.30	0.69 ND
	10/25/2006		0.64 ND			0.64 ND		0.64 ND	0.64 ND	3.80	0.64 ND
	1/11/2007		0.59 ND			0.59 ND		0.59 ND	0.59 ND	1.40	0.59 ND
VP-14	4/6/2005	0.92	0.62 ND	0.62 ND	1.40	0.62 ND	0.62 ND	0.62 ND	22.00	1.40	0.62 ND
	7/26/2005	7.80	0.65 ND	0.65 ND	9.30	0.72	0.65 ND	0.65 ND	27.00	5.50	0.65 ND
Located	10/26/2005		0.63 ND			0.63 ND		0.63 ND	58.00	0.63 ND	0.63 ND
Off-site	1/10/2006		0.61 ND			0.61 ND		0.61 ND	41.00	0.78	0.61 ND
	4/25/2006		0.63 ND			0.63 ND		0.63 ND	25.00	1.10	0.63 ND
			0.63 ND			0.63 ND		0.63 ND	25.00	1.10	0.63 ND
	7/24/2006		0.64 ND			0.64 ND		0.64 ND	47.00	0.68	0.64 ND
			0.64 ND			0.64 ND		0.64 ND	45.00	0.66	0.64 ND
	10/25/2006		0.62 ND			0.71		0.62 ND	11.00	0.62 ND	0.62 ND
	1/11/2007		0.59 ND			0.59 ND		0.59 ND	11.00	0.59 ND	0.59 ND

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
M = Matrix interference; results may be biased high.
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	Cyclohexane (µg/m³)		1,2-Dichloropropane (µg/m³)		Bromodichloromethane (µg/m³)		Trichloroethene (µg/m³)		1,4-Dioxane (µg/m³)		n-Heptane (µg/m³)		cis-1,3-Dichloropropene (µg/m³)		4-Methyl-2-pentanone (µg/m³)		trans-1,3-Dichloropropene (µg/m³)		1,1,2-Trichloroethane (µg/m³)		Toluene (µg/m³)	
VP-11	4/6/2005	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	3.60	
	7/26/2005	0.97		0.64	ND	0.64	ND	0.64	ND	0.64	ND	1.90		0.64	ND	1.40		0.64	ND	0.64	ND	15.00	
Located	10/26/2005			0.62	ND			0.62	ND											0.62	ND	0.62	ND
Off-site				0.62	ND			0.62	ND											0.62	ND	0.62	ND
	1/10/2006			0.61	ND			0.61	ND											0.61	ND	7.10	
	4/25/2006			0.63	ND			0.63	ND											0.63	ND	7.20	
				0.63	ND			0.63	ND											0.63	ND	7.20	
				0.63	ND			0.63	ND											0.63	ND	7.20	
				0.63	ND			0.63	ND											0.63	ND	7.20	
	7/24/2006			0.64	ND			1.50												0.64	ND	0.84	
	10/25/2006			0.63	ND			0.63	ND											0.63	ND	0.63	ND
	1/11/2007			0.58	ND			0.58	ND											0.58	ND	4.00	
VP-12	4/6/2005	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	2.30	
		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	2.30	
Located	7/26/2005	0.64	ND	0.64	ND	0.64	ND	0.64	ND	0.64	ND	1.30		0.64	ND	0.64	ND	0.64	ND	0.64	ND	11.00	
Off-site	10/26/2005			0.62	ND			0.62	ND											0.62	ND	0.62	ND
	1/10/2006			0.61	ND			0.61	ND											0.61	ND	1.50	
	4/25/2006			0.62	ND			0.62	ND											0.62	ND	4.50	
				0.62	ND			0.62	ND											0.62	ND	4.50	
	7/24/2006			0.65	ND			0.65	ND											0.65	ND	2.20	
	10/25/2006			0.63	ND			0.63	ND											0.63	ND	9.00	
	1/11/2007			0.57	ND			0.57	ND											0.57	ND	0.57	ND
VP-13	4/21/2005	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	1.90		0.63	ND	0.63	ND	0.63	ND	0.63	ND	7.20	
	7/26/2005	1.60		0.66	ND	0.66	ND	0.66	ND	0.66	ND	3.80		0.66	ND	0.66	ND	0.66	ND	0.66	ND	33.00	
Located	10/26/2005			0.63	ND			0.63	ND											0.63	ND	5.60	
Off-site				0.63	ND			0.63	ND											0.63	ND	5.30	
	1/10/2006			0.62	ND			0.69												0.62	ND	3.20	
	4/25/2006			0.63	ND			0.63	ND											0.63	ND	1.80	
				0.63	ND			0.63	ND											0.63	ND	1.80	
	7/24/2006			0.69	ND			0.69	ND											0.69	ND	27.00	
	10/25/2006			0.64	ND			0.83												0.64	ND	11.00	
	1/11/2007			0.59	ND			0.59	ND											0.59	ND	4.40	
VP-14	4/6/2005	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	1.00		0.62	ND	0.62	ND	3.20	
	7/26/2005	5.40		0.65	ND	0.65	ND	0.65	ND	0.65	ND	15.00		0.65	ND	0.65	ND	0.65	ND	0.65	ND	24.00	
Located	10/26/2005			0.63	ND			0.63	ND											0.63	ND	0.63	ND
Off-site	1/10/2006			0.61	ND			0.61	ND											0.61	ND	1.90	
	4/25/2006			0.63	ND			0.63	ND											0.63	ND	4.10	
				0.63	ND			0.63	ND											0.63	ND	4.10	
	7/24/2006			0.64	ND			0.64	ND											0.64	ND	1.20	
				0.64	ND			0.64	ND											0.64	ND	1.20	
	10/25/2006			0.62	ND			0.62	ND											0.62	ND	0.82	
	1/11/2007			0.59	ND			0.59	ND											0.59	ND	0.59	ND

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
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ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

TABLE 2

Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	2-Hexanone (µg/m³)		Dibromochlorome thane (µg/m³)		1,2-Dibromoethane (µg/m³)		Tetrachloroethene (µg/m³)		Chlorobenzene (µg/m³)		Ethylbenzene (µg/m³)		m,p-Xylenes (µg/m³)		Bromoform (µg/m³)		Styrene (µg/m³)		o-Xylene (µg/m³)	
VP-11	4/6/2005	0.61		0.61	ND	0.61	ND	20.00		0.61	ND	0.61	ND	1.80		0.61	ND	0.61	ND	0.73	
	7/26/2005	0.67		0.64	ND	0.64	ND	2.70		0.64	ND	3.20		13.00		0.64	ND	0.64	ND	4.80	
Located	10/26/2005							1.20		0.62	ND	0.62	ND	1.20	ND					0.62	ND
Off-site								1.20		0.62	ND	0.62	ND	1.20	ND					0.62	ND
	1/10/2006							0.61	ND	0.61	ND	1.60		7.40						2.60	
	4/25/2006							1.90		0.63	ND	0.63	ND	1.30	ND					0.63	ND
								1.90		0.63	ND	0.63	ND	1.30	ND					0.63	ND
								1.90		0.63	ND	0.63	ND	1.30	ND					0.63	ND
								1.90		0.63	ND	0.63	ND	1.30	ND					0.63	ND
	7/24/2006							2.30		0.64	ND	3.10		20.00						9.20	
	10/25/2006							1.10		0.63	ND	0.63	ND	1.30	ND					0.63	ND
	1/11/2007							0.97		0.58	ND	0.60		2.30						0.79	
VP-12	4/6/2005	0.61		0.61	ND	0.61	ND	0.65		0.61	ND	0.61	ND	1.40		0.61	ND	0.61	ND	0.61	ND
		0.61		0.61	ND	0.61	ND	0.65		0.61	ND	0.61	ND	1.30		0.61	ND	0.61	ND	0.61	ND
Located	7/26/2005	32.00		0.64	ND	0.64	ND	1.60		0.64	ND	2.40		9.70		0.64	ND	0.64	ND	3.20	
Off-site	10/26/2005							0.62	ND	0.62	ND	0.62	ND	1.20	ND					0.62	ND
	1/10/2006							0.61	ND	0.61	ND	19.00		80.00						7.00	
	4/25/2006							1.10		0.62	ND	1.10		5.90						2.80	
								1.10		0.62	ND	1.10		5.90						2.80	
	7/24/2006							0.78		0.65	ND	0.65	ND	1.30	ND					0.65	ND
	10/25/2006							0.65		0.63	ND	2.20		17.00						3.40	
	1/11/2007							0.95		0.57	ND	0.57	ND	1.10	ND					0.57	ND
VP-13	4/21/2005	0.63		0.63	ND	0.63	ND	1.30		0.63	ND	1.70		7.70		0.63	ND	0.63	ND	2.50	
	7/26/2005	1.30		0.66	ND	0.66	ND	2.70		0.66	ND	6.80		28.00		0.66	ND	0.66	ND	11.00	
Located	10/26/2005							0.63	ND	0.63	ND	6.30		5.50						2.00	
Off-site								0.63	ND	0.63	ND	6.20		5.30						2.00	
	1/10/2006							0.67		0.62	ND	0.63		2.30						0.70	
	4/25/2006							1.50		0.63	ND	0.63	ND	6.90						3.60	
								1.50		0.63	ND	0.63	ND	6.90						3.60	
	7/24/2006							0.93		0.69	ND	1.80		4.60						1.60	
	10/25/2006							4.30		0.64	ND	2.60		13.00						7.20	
	1/11/2007							0.90		0.59	ND	0.69		4.40						1.70	
VP-14	4/6/2005	0.62		0.62	ND	0.62	ND	0.96		0.62	ND	2.00		1.20	ND	0.62	ND	0.62	ND	0.84	
	7/26/2005	0.65	ND	0.65	ND	0.65	ND	1.40		0.65	ND	6.90		45.00		0.65	ND	0.65	ND	18.00	
Located	10/26/2005							1.50		0.63	ND	0.63	ND	1.30	ND					0.63	ND
Off-site	1/10/2006							0.92		0.61	ND	0.61	ND	1.20	ND					0.61	ND
	4/25/2006							0.67		0.63	ND	1.20		8.90						4.00	
								0.67		0.63	ND	1.20		8.90						4.00	
	7/24/2006							1.60		0.64	ND	0.64	ND	1.30	ND					0.64	ND
								1.50		0.64	ND	0.64	ND	1.30	ND					0.64	ND
	10/25/2006							1.00		0.62	ND	0.62	ND	1.20	ND					0.62	ND
	1/11/2007							0.86		0.59	ND	0.59	ND	1.20	ND					0.59	ND

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
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TABLE 2

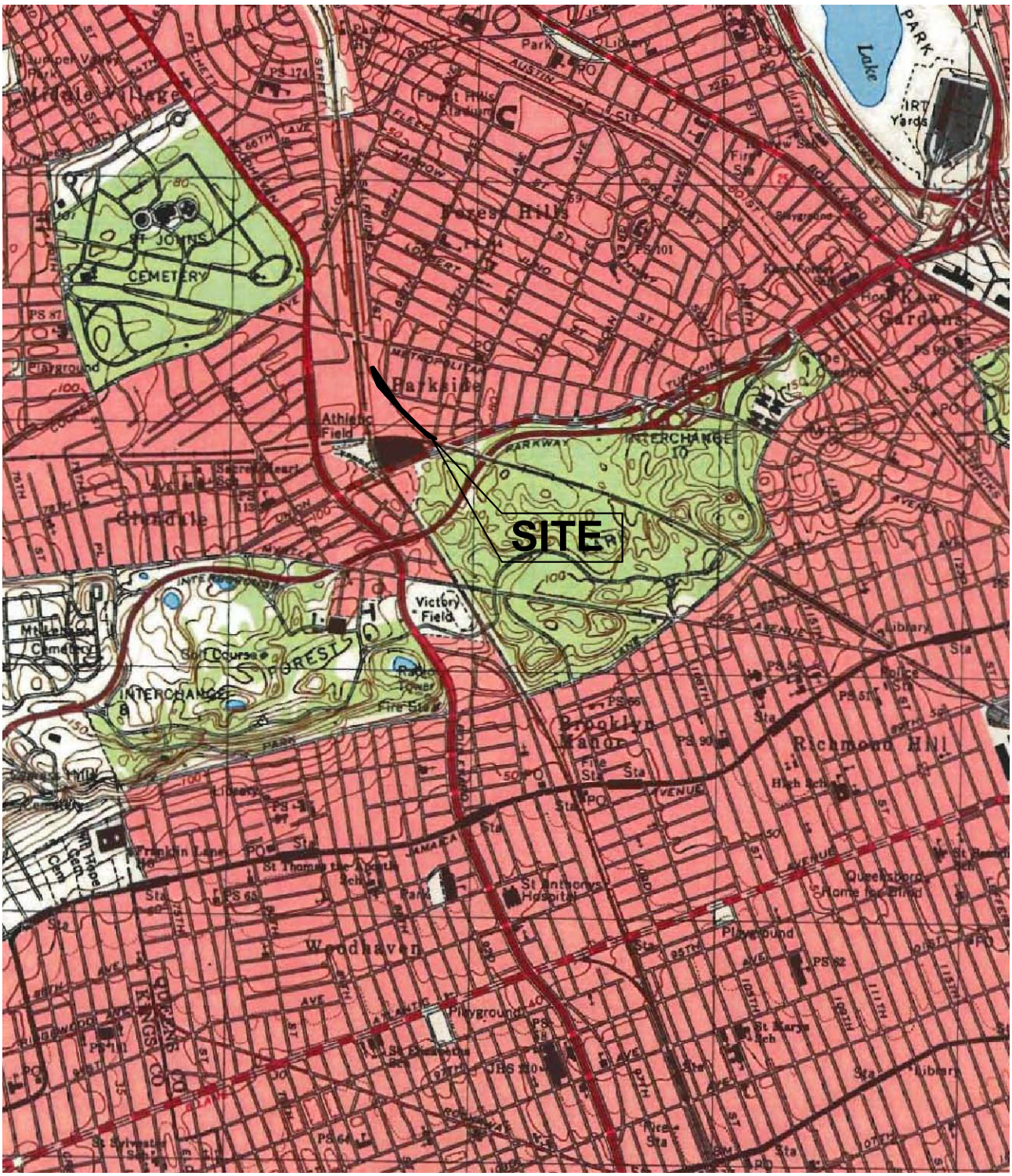
Summary of Detected VOCs in Vapor Samples Baseline and During Remediation (April 2005 to January 2007)

Soil Vapor Monitoring Point and Location	Sampling Date	1,1,2,2-Tetrachloroethane (µg/m³)		4-Ethyltoluene (µg/m³)		1,3,5-Trimethylbenzene (µg/m³)		1,2,4-Trimethylbenzene (µg/m³)		Benzyl Chloride (µg/m³)		1,3-Dichlorobenzene (µg/m³)		1,4-Dichlorobenzene (µg/m³)		1,2-Dichlorobenzene (µg/m³)		1,2,4-Trichlorobenzene (µg/m³)		Hexachlorobutadiene (µg/m³)	
VP-11	4/6/2005	0.61	ND	0.61	ND	0.61	ND	1.60		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND
	7/26/2005	0.64	ND	1.80		1.50		6.80		0.64	ND	0.64	ND	3.10		0.64	ND	0.64	ND	0.64	ND
Located	10/26/2005	0.62	ND			0.62	ND	0.62	ND			0.62	ND	0.62	ND	0.62	ND				
Off-site		0.62	ND			0.62	ND	0.62	ND			0.62	ND	0.62	ND	0.62	ND				
	1/10/2006	0.61	ND			0.85		3.00				0.61	ND	0.61	ND	0.61	ND				
	4/25/2006	0.63	ND			0.63	ND	0.63	ND			0.63	ND	0.63	ND	0.63	ND				
		0.63	ND			0.63	ND	0.63	ND			0.63	ND	0.63	ND	0.63	ND				
		0.63	ND			0.63	ND	0.63	ND			0.63	ND	0.63	ND	0.63	ND				
		0.63	ND			0.63	ND	0.63	ND			0.63	ND	0.63	ND	0.63	ND				
	7/24/2006	0.64	ND			0.64	ND	0.64	ND			0.64	ND	0.64	ND	10.00					
	10/25/2006	0.63	ND			0.63	ND	0.63	ND			0.63	ND	0.63	ND	0.63	ND				
	1/11/2007	0.58	ND			0.58	ND	0.77				0.58	ND	0.58	ND	0.58	ND				
VP-12	4/6/2005	0.61	ND	0.61	ND	0.61	ND	1.10		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND
		0.61	ND	0.61	ND	0.61	ND	1.10		0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND
Located	7/26/2005	0.64	ND	1.30		1.30		5.10		0.64	ND	0.64	ND	1.40		0.64	ND	0.64	ND	0.64	ND
Off-site	10/26/2005	0.62	ND			0.62	ND	0.62	ND			0.62	ND	0.62	ND	0.62	ND				
	1/10/2006	0.61	ND			0.61	ND	0.81				0.61	ND	0.61	ND	0.61	ND				
	4/25/2006	0.62	ND			2.70		9.70				0.62	ND	0.62	ND	0.62	ND				
		0.62	ND			2.70		9.70				0.62	ND	0.62	ND	0.62	ND				
	7/24/2006	0.65	ND			0.65	ND	0.71				0.65	ND	0.65	ND	0.65	ND				
	10/25/2006	0.63	ND			0.67		4.00				0.63	ND	0.63	ND	0.63	ND				
	1/11/2007	0.57	ND			0.57	ND	0.57	ND			0.57	ND	0.57	ND	0.57	ND				
VP-13	4/21/2005	0.63	ND	1.40		1.20		5.00		0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND	0.63	ND
	7/26/2005	0.66	ND	13.00		19.00		25.00		0.66	ND	0.66	ND	4.30		0.66	ND	0.66	ND	0.66	ND
Located	10/26/2005	0.63	ND			0.85		2.70				0.63	ND	0.63	ND	0.63	ND				
Off-site		0.63	ND			0.79		2.60				0.63	ND	0.63	ND	0.63	ND				
	1/10/2006	0.62	ND			0.62	ND	0.74				0.62	ND	0.62	ND	0.62	ND				
	4/25/2006	0.63	ND			4.10		17.00				0.63	ND	0.63	ND	0.63	ND				
		0.63	ND			4.10		17.00				0.63	ND	0.63	ND	0.63	ND				
	7/24/2006	0.69	ND			0.69	ND	1.50				0.69	ND	0.69	ND	0.69	ND				
	10/25/2006	0.64	ND			3.50		12.00				0.64	ND	0.64	ND	0.64	ND				
	1/11/2007	0.59	ND			0.76		1.40				0.59	ND	0.59	ND	0.59	ND				
VP-14	4/6/2005	0.62	ND	0.62	ND	1.00		2.70		0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND	0.62	ND
	7/26/2005	0.65	ND	4.80		7.90		21.00		0.65	ND	0.65	ND	1.00		0.65	ND	0.65	ND	0.65	ND
Located	10/26/2005	0.63	ND			0.63	ND	0.63	ND			0.63	ND	0.63	ND	0.63	ND				
Off-site	1/10/2006	0.61	ND			0.61	ND	0.61	ND			0.61	ND	0.61	ND	0.61	ND				
	4/25/2006	0.63	ND			2.40		6.70				0.63	ND	0.63	ND	0.63	ND				
		0.63	ND			2.40		6.70				0.63	ND	0.63	ND	0.63	ND				
	7/24/2006	0.64	ND			0.64	ND	0.64	ND			0.64	ND	0.64	ND	0.64	ND				
		0.64	ND			0.64	ND	0.64	ND			0.64	ND	0.64	ND	0.64	ND				
	10/25/2006	0.62	ND			0.62	ND	0.62	ND			0.62	ND	0.62	ND	0.62	ND				
	1/11/2007	0.59	ND			0.59	ND	0.59	ND			0.59	ND	0.59	ND	0.59	ND				

Blank cells indicate that the specific contaminant was not tested for during the sampling event.
M = Matrix interference; results may be biased high.
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

FIGURES

OFFICE	DRAWING NUMBER
New York, NY	Figure 1



APPROXIMATE SCALE

0 2000 4000 6000 FEET

REFERENCE:
7.5 MINUTE SERIES TOPOGRAPHIC MAP OF JAMAICA, NY
EDR TOPO MAP, 1994

Shaw Environmental & Infrastructure
Engineering of New York, P.C.

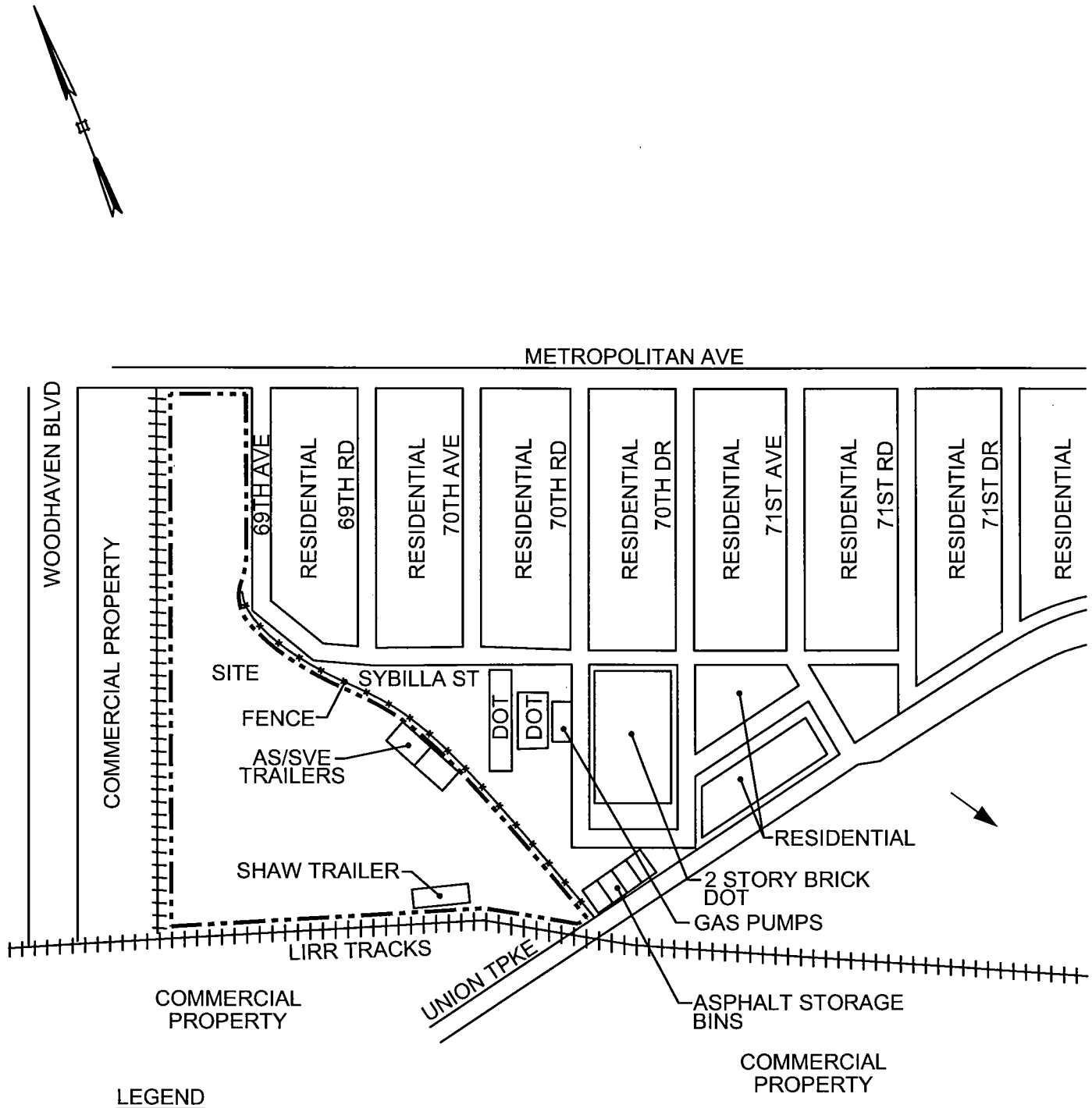
FIGURE 1
SITE LOCATION MAP
METROPOLITAN AVENUE SCHOOL SITE
87-01 69TH AVENUE
92-34 METROPOLITAN AVENUE
FOREST HILLS, NY 11375

DESIGNED BY	EDR	9/6/05	CHECKED BY	B. Mullner	9/6/05
DRAWN BY	R. Tagoff	9/6/05	APPROVED BY	B. Mullner	9/6/05

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN		111256		--

File: N:\Cad\Projects\NYCSCA - Metro Ave\SMP 2007\Figure 1.dwg
Plot Date/Time: Jul 19, 2007 - 10:29am
Plotted By: amy.fontana

OFFICE: New York, NY | DRAWING NUMBER: Figure 2



Shaw Environmental & Infrastructure
Engineering of New York, P.C.

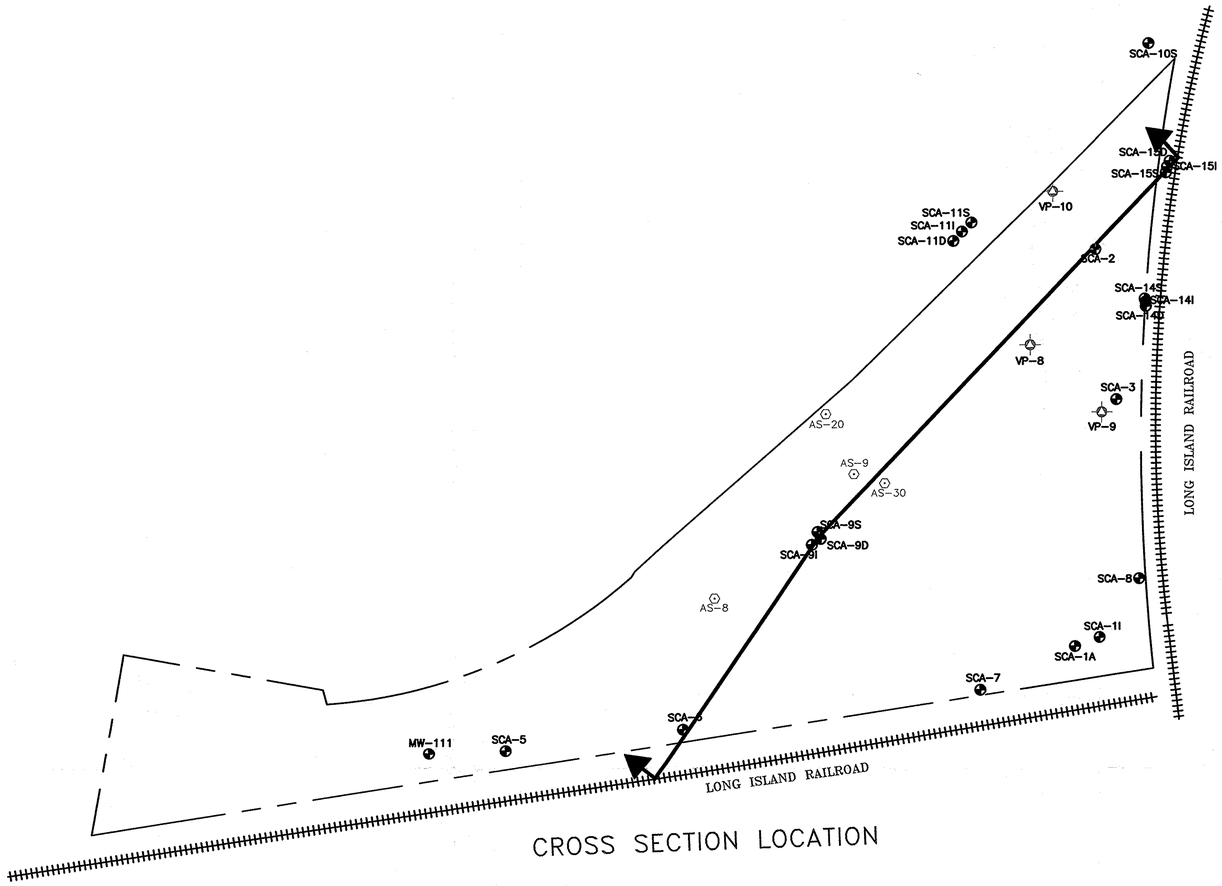
FIGURE 2
SITE SKETCH
METROPOLITAN AVENUE SCHOOL SITE
87-01 69TH AVENUE
92-34 METROPOLITAN AVENUE
FOREST HILLS, NY 11375

DESIGNED BY	B. Mullner	9/6/05	CHECKED BY	B. Mullner	9/6/05
DRAWN BY	R. Tagoff	9/6/05	APPROVED BY	B. Mullner	9/6/05

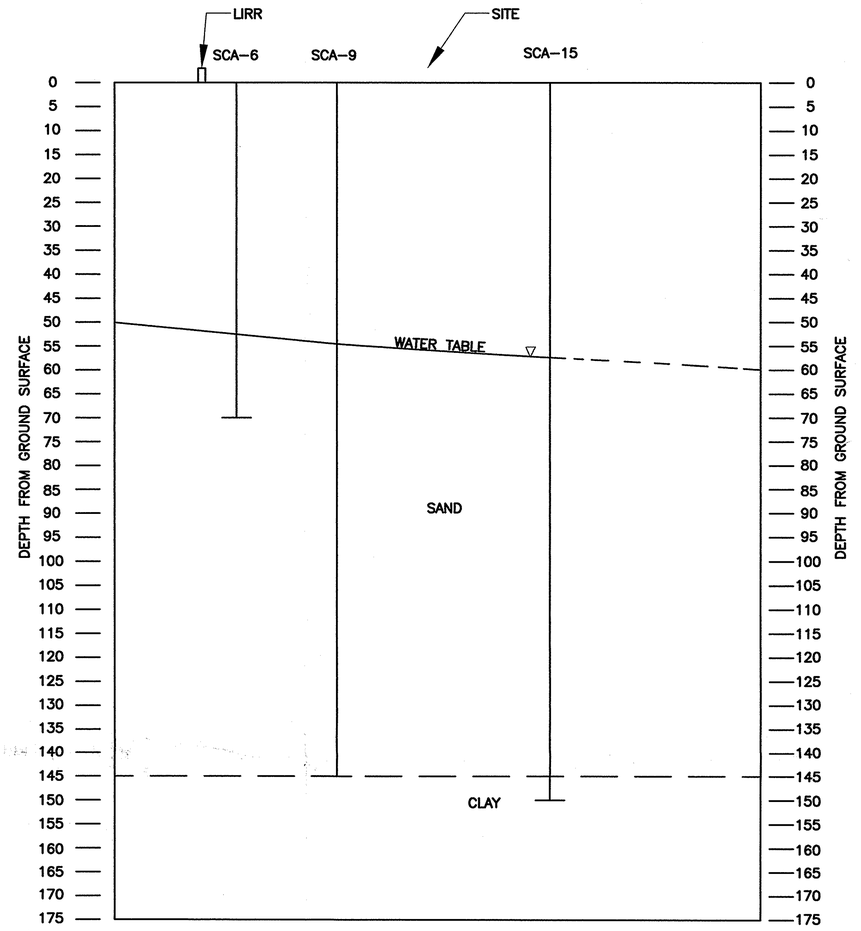
SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
NTS		111256		--

File: N:\Cad\Projects\NYCSCA - Metro Ave\SMP 2007\Figure 2 (Revised 7-16-07).dwg
Plot Date/Time: Jul 19, 2007 - 5:15pm
Plotted By: amy.fontana

OFFICE	DRAWING NUMBER
New York, NY	Figure 3



CROSS SECTION LOCATION



VERTICAL SCALE
SCALE
0 15 30 45 FEET

HORIZONTAL SCALE
SCALE
0 200 400 600

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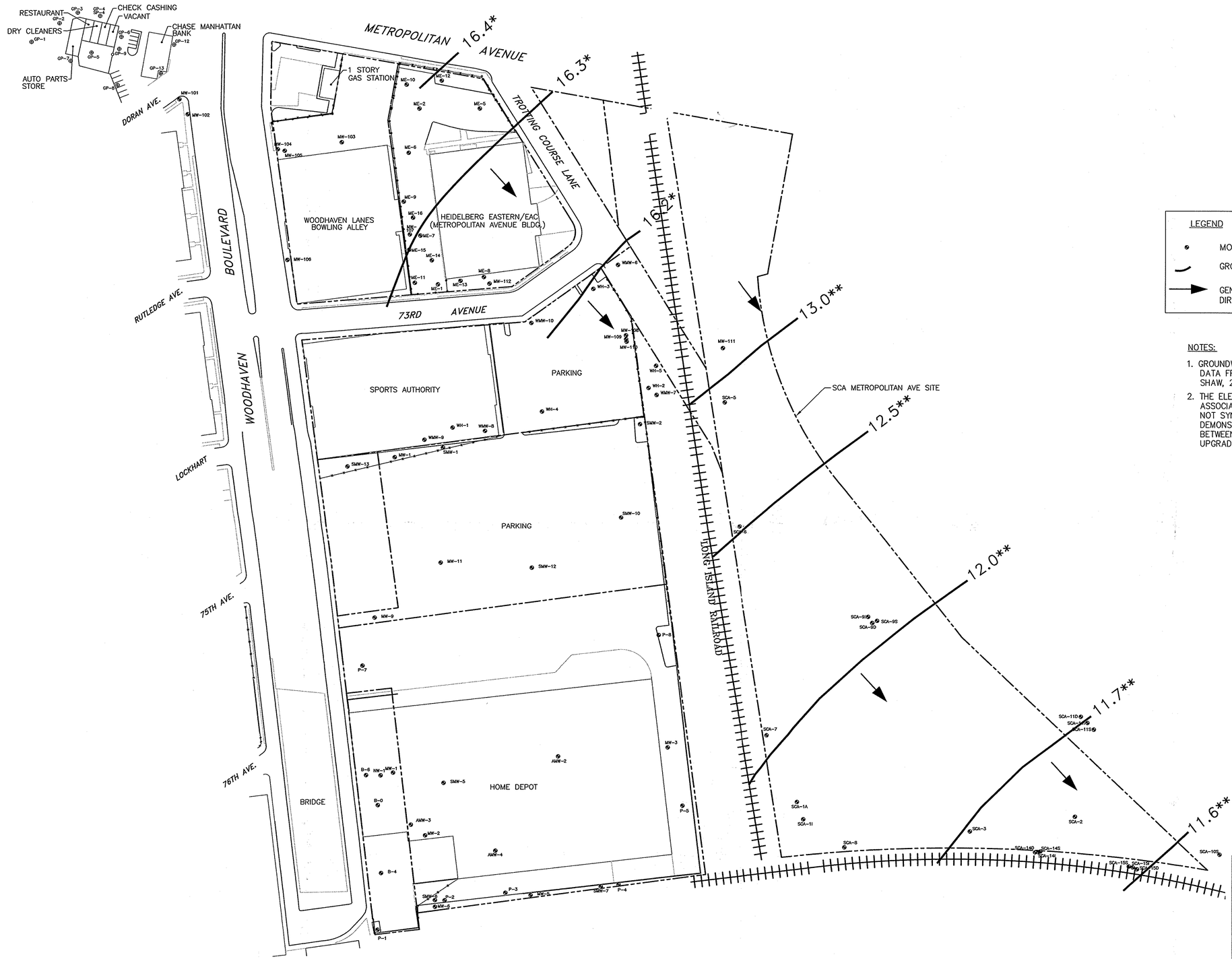
FIGURE 3
GEOLOGIC CROSS SECTION
METROPOLITAN AVENUE SCHOOL SITE
87-01 69TH AVENUE
92-34 METROPOLITAN AVENUE
FOREST HILLS, NY 11375

DESIGNED BY	S. Goldberg	8/8/07	CHECKED BY	S. Goldberg	8/8/07
DRAWN BY	U.Malik	8/8/07	APPROVED BY	S. Goldberg	8/8/07

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN		111256		–

XREF Files: Base Map for July 2007 Spider Map and Isopleth Maps IMAGE Files: scan of DEC map 2-1-07.jpg
File: N:\DCad\Projects\NYCSCA - Metro Ave\SMP 2007\Figure 3 revised 8-16-07.dwg
Plot Date/Time: Aug 16, 2007 - 10:59am
Plotted By: amy.fontana

OFFICE: New York, NY | DRAWING NUMBER: Figure 4



LEGEND

- MONITORING WELL/TEST BORING
- GROUNDWATER CONTOUR WITH ELEVATIONS IN FEET
- GENERALIZED GROUNDWATER FLOW DIRECTION

NOTES:

1. GROUNDWATER CONTOURS BASED ON WATER LEVEL. DATA FROM ROUX ASSOCIATES INC., 1997(*), AND SHAW, 2003(**).
2. THE ELEVATION CONTOURS BASED ON THE ROUX ASSOCIATES INC. DATA AND THE SHAW DATA ARE NOT SYNOPTIC. THIS FIGURE IS INTENDED TO DEMONSTRATE SIMILAR DIRECTIONAL FLOW COMPONENTS BETWEEN THE METROPOLITAN AVENUE SITE AND UPGRADIENT PROPERTIES.

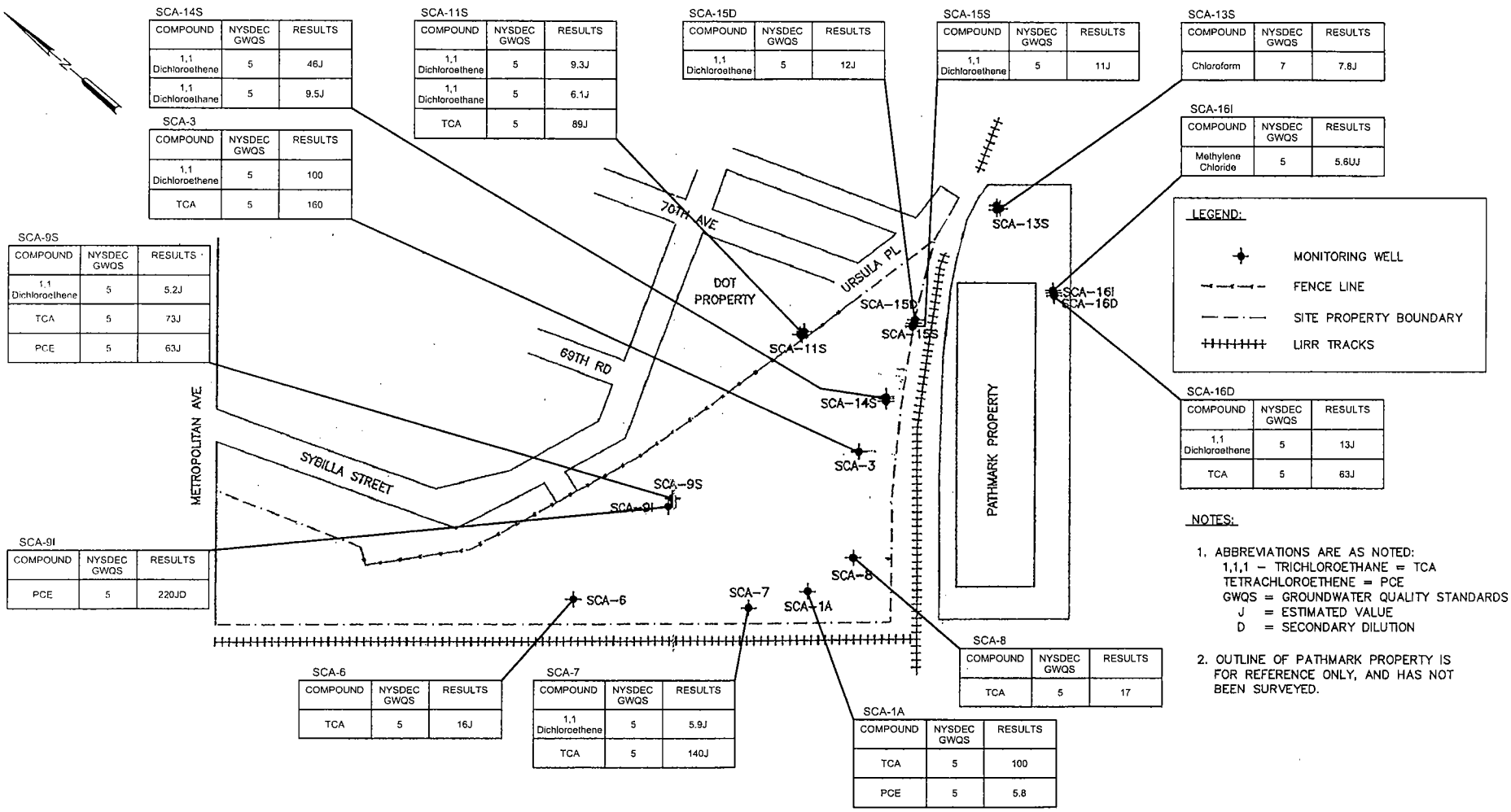
Shaw™ Shaw Environmental & Infrastructure, Inc.

FIGURE 4
GROUNDWATER FLOW DIRECTION
METROPOLITAN AVENUE SCHOOL SITE
87-01 69TH AVENUE
92-34 METROPOLITAN AVENUE
FOREST HILLS, NY 11375

DESIGNED BY	T. Pagano	2/2/07	CHECKED BY	T. Pagano	2/2/07
DRAWN BY	R. Tagoff	2/2/07	APPROVED BY	S. Goldberg	2/2/07

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN		111256		–

XREF Files: IMAGE Files:
File: N:\Cad\Projects\NYCSCA - Metro Ave\SMP 2007\Figure 4 Revised 8-16-07.dwg
Plot Date/Time: Aug 16, 2007 - 11:02am
Plotted By: amy.fontana



REFERENCE:
FROM ZONING STUDY–PLAN

FIGURE 5

Shaw Environmental & Infrastructure, Inc.

DATE 02/13/03
DWN KAS
APP DPG
REV
PROJECT NO. 837411

NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY
SPIDER MAP WITH PRE–REMEDIATION
GROUNDWATER EXCEEDANCES (JANUARY 2003)

METROPOLTAN AVENUE
FOREST HILLS, QUEENS, NEW YORK

File: N:\Odd-Projects\NYCSCA – Metro Ave-SMP 2007\Figure 5 revised 8-15-07.dwg Layout: FIGURE 5 User: amy.fontana Aug 15, 2007 – 11:06am

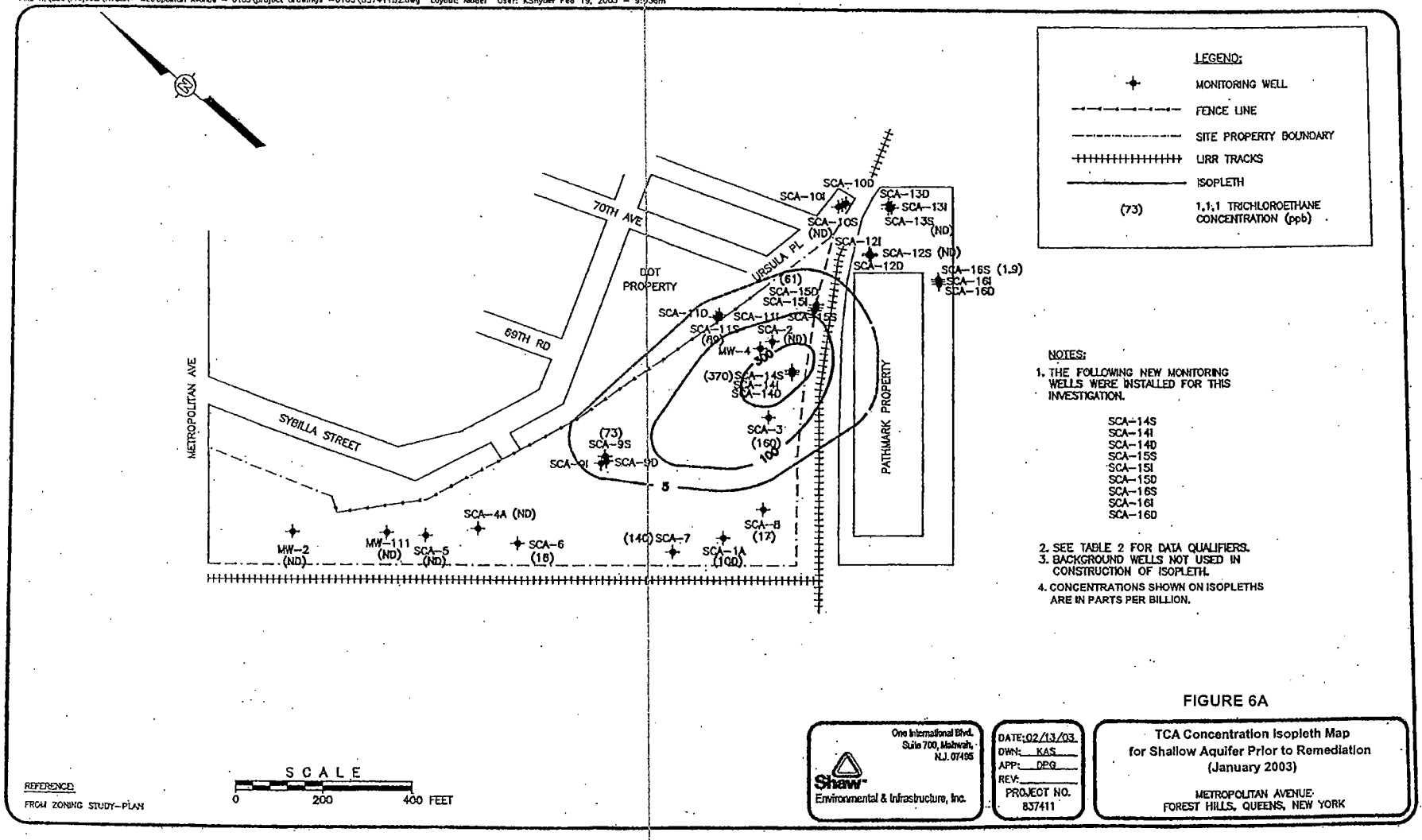


FIGURE 6A

One International Blvd.
Suite 700, Mahwah,
N.J. 07495
Shaw
Environmental & Infrastructure, Inc.

DATE: 02/13/03
DWN: KAS
APP: DPG
REV:
PROJECT NO. 837411

TCA Concentration Isopleth Map for Shallow Aquifer Prior to Remediation (January 2003)

METROPOLITAN AVENUE
FOREST HILLS, QUEENS, NEW YORK

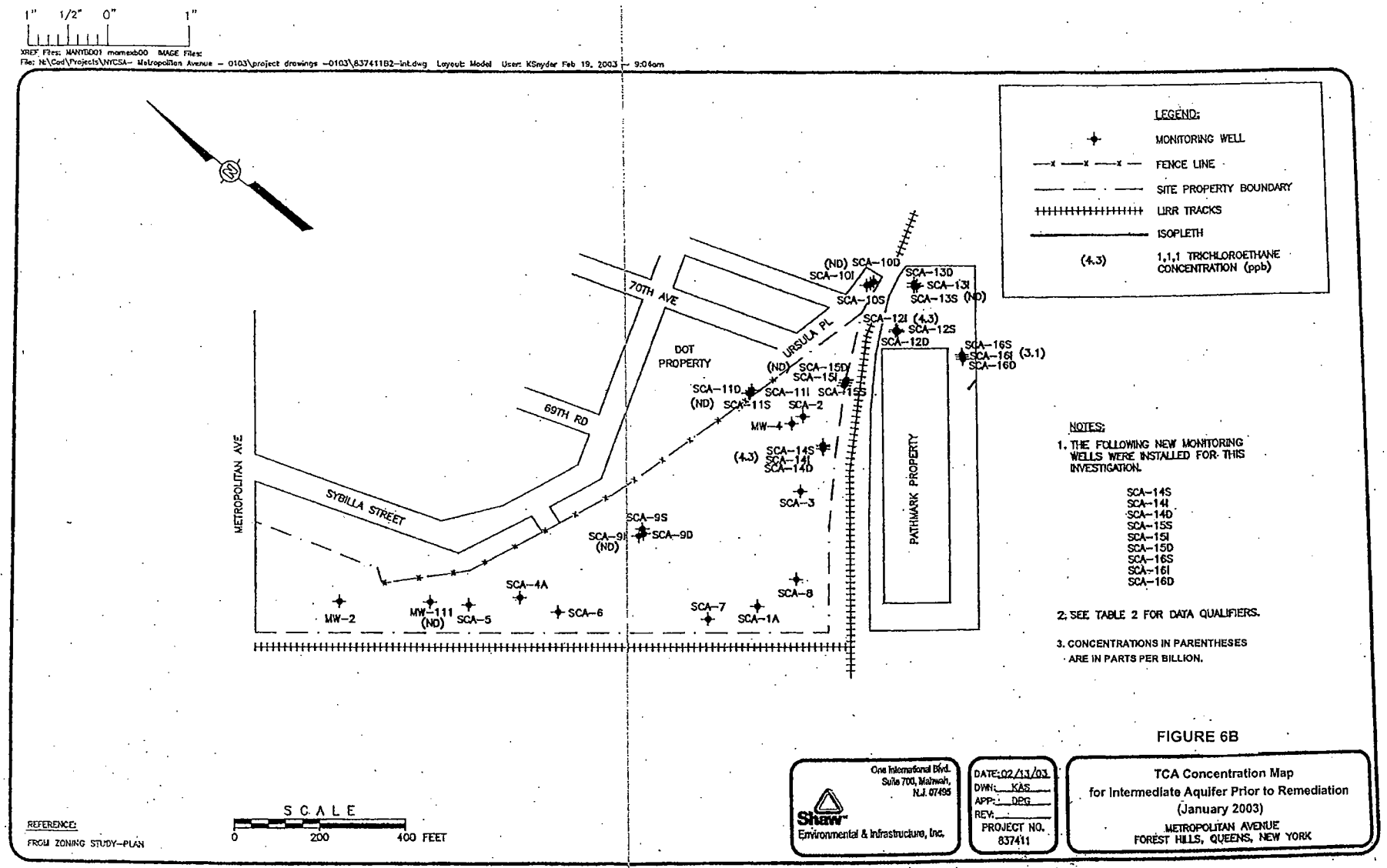

1" 1/2" 0" 1"
XREF Files: MANYDD01 mamesb00 IMAGE Files:
File: N:\Cad\Projects\NYCSA- Metropolitan Avenue - 0103\project drawings -0103\837411B2-int.dwg Layout: Model User: KSnyder Feb 19, 2003 - 9:06am
LEGEND:
MONITORING WELL
FENCE LINE
SITE PROPERTY BOUNDARY
LIRR TRACKS
ISOPLETH
(4.3) 1,1,1 TRICHLOROETHANE CONCENTRATION (ppb)
70TH AVE
URSULA PL
69TH RD
SYBILLA STREET
METROPOLITAN AVE
DOT PROPERTY
PATHMARK PROPERTY
(ND) SCA-10D
SCA-10I
SCA-10S
SCA-13D
SCA-13I
SCA-13S (ND)
SCA-12I (4.3)
SCA-12S
SCA-12D
SCA-16S
SCA-16I (3.1)
SCA-16D
(ND) SCA-15D
SCA-15I
SCA-15S
SCA-11D
(ND) SCA-11S
SCA-11I
SCA-2
MW-4
(4.3) SCA-14S
SCA-14I
SCA-14D
SCA-3
SCA-9S
SCA-9I (ND)
SCA-9D
SCA-4A
SCA-8
MW-2
MW-111 (ND)
SCA-5
SCA-6
SCA-7
SCA-1A
NOTES:
1. THE FOLLOWING NEW MONITORING WELLS WERE INSTALLED FOR THIS INVESTIGATION.
SCA-14S
SCA-14I
SCA-14D
SCA-15S
SCA-15I
SCA-15D
SCA-16S
SCA-16I
SCA-16D
2. SEE TABLE 2 FOR DATA QUALIFIERS.
3. CONCENTRATIONS IN PARENTHESES ARE IN PARTS PER BILLION.
REFERENCE:
FROM ZONING STUDY-PLAN
SCALE
0 200 400 FEET
One International Blvd. Suite 700, Mahwah, N.J. 07495
Shaw Environmental & Infrastructure, Inc.
DATE: 02/13/03
DWN: KAS
APP: DPG
REV:
PROJECT NO. 837411
TCA Concentration Map for Intermediate Aquifer Prior to Remediation (January 2003)
METROPOLITAN AVENUE
FOREST HILLS, QUEENS, NEW YORK

FIGURE 6B

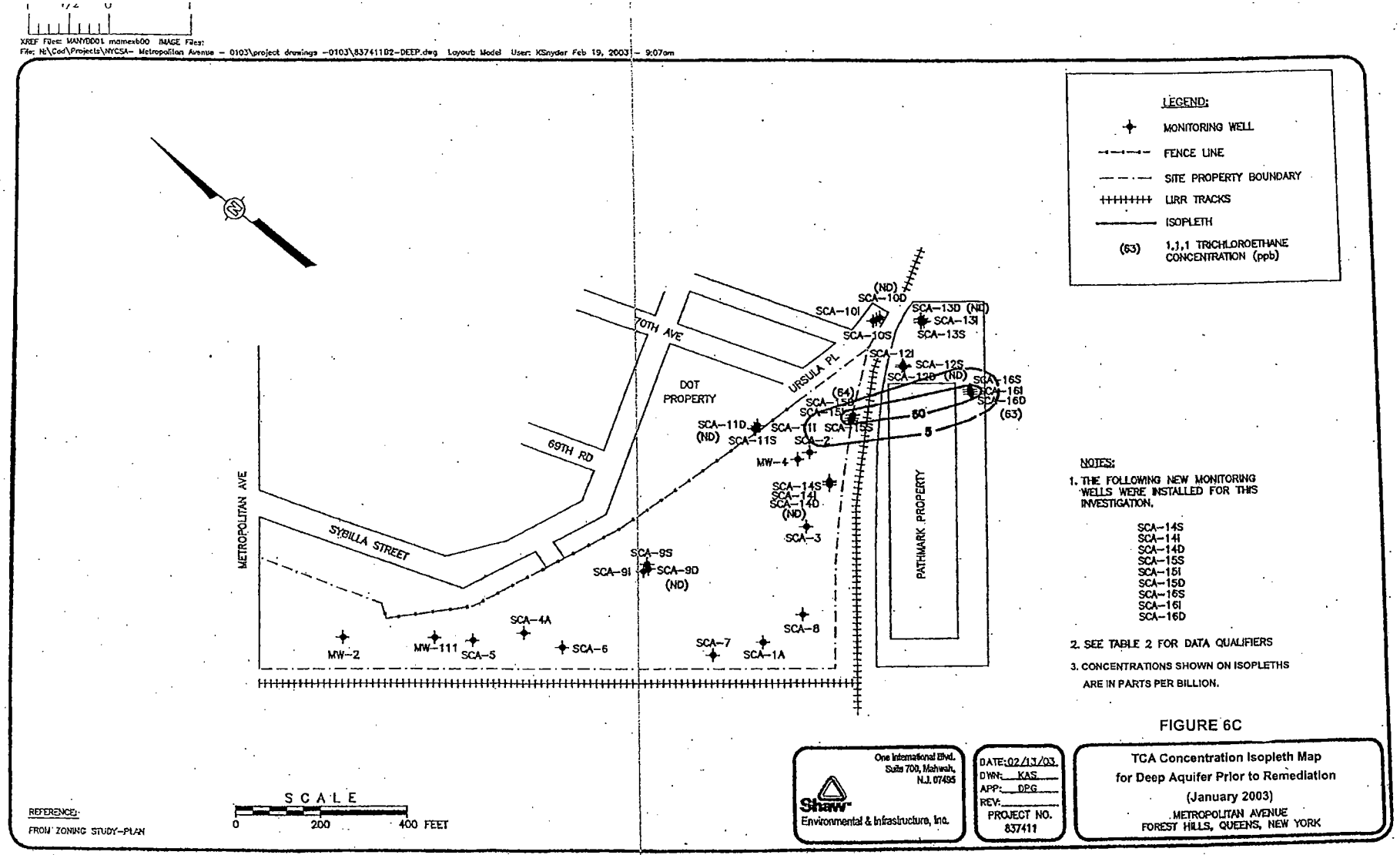
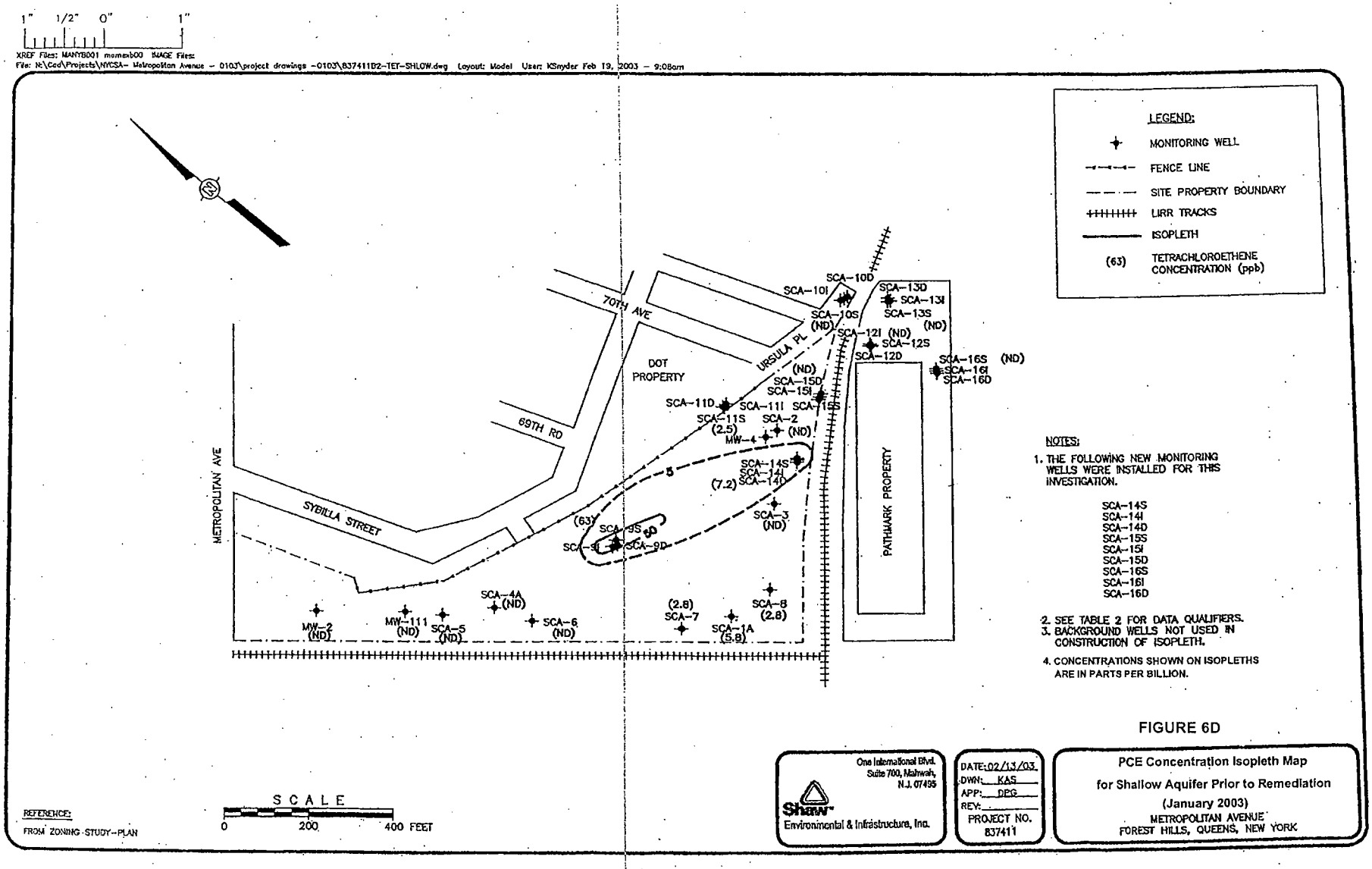


FIGURE 6C

One International Blvd.
Suite 700, Mahwah,
N.J. 07495
Shaw
Environmental & Infrastructure, Inc.

DATE: 02/13/03
DWN: KAS
APP: DPG
REV:
PROJECT NO. 837411

TCA Concentration Isopleth Map for Deep Aquifer Prior to Remediation (January 2003)
METROPOLITAN AVENUE
FOREST HILLS, QUEENS, NEW YORK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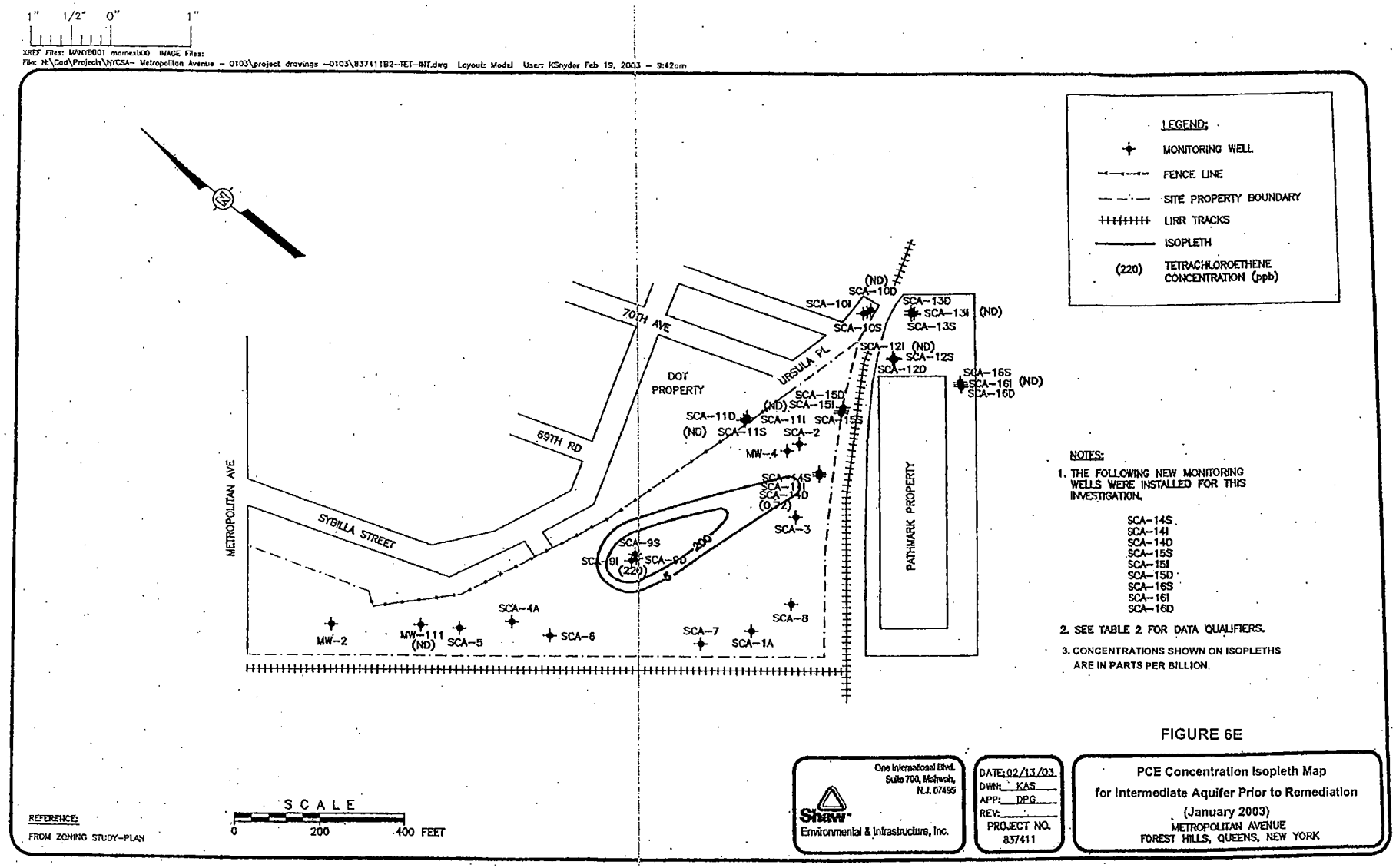
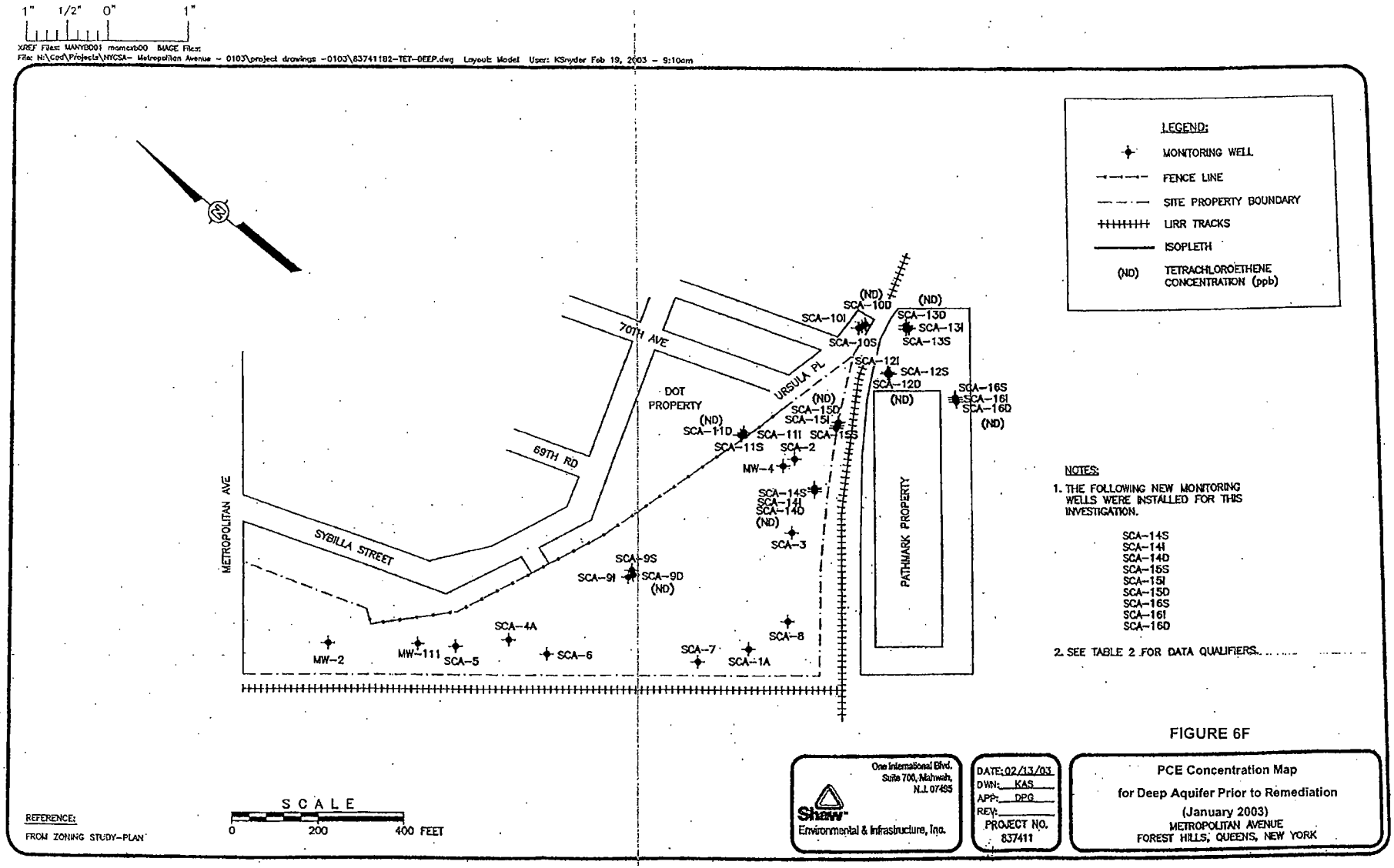
File: N:\Ced\Projects\NYCSA- Metropolitan Avenue - 0103\project drawings -0103\837411B2-TEY-SHLOW.dwg Layout: Model User: KSnyder Feb 19, 2003 - 9:08am
LEGEND:
MONITORING WELL
FENCE LINE
SITE PROPERTY BOUNDARY
LIRR TRACKS
ISOPLETH
(63) TETRACHLOROETHENE CONCENTRATION (ppb)
70TH AVE
URSULA PL
69TH RD
SYBILLA STREET
METROPOLITAN AVE
DOT PROPERTY
PATHMARK PROPERTY
SCA-10D
SCA-10I
SCA-10S (ND)
SCA-13D
SCA-13I
SCA-13S (ND)
SCA-12I (ND)
SCA-12S
SCA-12D
SCA-16S (ND)
SCA-16I
SCA-16D
(ND)
SCA-15D
SCA-15I
SCA-15S
SCA-11D
SCA-11I
SCA-11S (2.5)
SCA-2 (ND)
MW-4
SCA-14S
SCA-14I
SCA-14D (7.2)
5
(63)
SCA-9S
SCA-9I
SCA-9D
80
SCA-3 (ND)
SCA-4A (ND)
MW-2 (ND)
MW-11 (ND)
SCA-5 (ND)
SCA-6 (ND)
(2.8) SCA-7
SCA-1A (5.8)
SCA-8 (2.8)
NOTES:
1. THE FOLLOWING NEW MONITORING WELLS WERE INSTALLED FOR THIS INVESTIGATION.
SCA-14S
SCA-14I
SCA-14D
SCA-15S
SCA-15I
SCA-15D
SCA-16S
SCA-16I
SCA-16D
2. SEE TABLE 2 FOR DATA QUALIFIERS.
3. BACKGROUND WELLS NOT USED IN CONSTRUCTION OF ISOPLETH.
4. CONCENTRATIONS SHOWN ON ISOPLETHS ARE IN PARTS PER BILLION.
REFERENCE:
FROM ZONING STUDY-PLAN
SCALE
0 200 400 FEET
FIGURE 6D
One International Blvd. Suite 700, Mahwah, N.J. 07495
Shaw Environmental & Infrastructure, Inc.
DATE: 02/13/03
DWN: KAS
APP: DPG
REV:
PROJECT NO. 837411
PCE Concentration Isopleth Map for Shallow Aquifer Prior to Remediation (January 2003)
METROPOLITAN AVENUE
FOREST HILLS, QUEENS, NEW YORK


1" 1/2" 0" 1"
XREF Files: MANYB001 marmas100 IMAGE Files:
File: N:\Cad\Projects\NYCSA- Metropolitan Avenue - 0103\project drawings -0103\837411B2-TET-INT.dwg Layout: Model User: KSnyder Feb 19, 2003 - 9:42am
LEGEND:
MONITORING WELL
FENCE LINE
SITE PROPERTY BOUNDARY
LIRR TRACKS
ISOPLETH
(220) TETRACHLOROETHENE CONCENTRATION (ppb)
70TH AVE
URSULA PL
69TH RD
SYBILLA STREET
METROPOLITAN AVE
DOT PROPERTY
PATHMARK PROPERTY
SCA-10I
(ND) SCA-10D
SCA-10S
SCA-13D
SCA-13I (ND)
SCA-13S
SCA-12I (ND)
SCA-12S
SCA-12D
SCA-16S
SCA-16I (ND)
SCA-16D
SCA-15D
(ND) SCA-15I
SCA-11D
SCA-11I SCA-15S
(ND) SCA-11S SCA-2
MW-4
SCA-14S
SCA-14I
SCA-14D
(0.2)
SCA-3
SCA-9S
SCA-9I SCA-9D
(220)
200
5
SCA-4A
SCA-8
MW-2
MW-111 (ND) SCA-5
SCA-6
SCA-7
SCA-1A
NOTES:
1. THE FOLLOWING NEW MONITORING WELLS WERE INSTALLED FOR THIS INVESTIGATION.
SCA-14S
SCA-14I
SCA-14D
SCA-15S
SCA-15I
SCA-15D
SCA-16S
SCA-16I
SCA-16D
2. SEE TABLE 2 FOR DATA QUALIFIERS.
3. CONCENTRATIONS SHOWN ON ISOPLETHS ARE IN PARTS PER BILLION.
REFERENCE:
FROM ZONING STUDY-PLAN
SCALE
0 200 400 FEET
FIGURE 6E
One International Blvd.
Suite 700, Mahwah,
N.J. 07495
Shaw
Environmental & Infrastructure, Inc.
DATE: 02/13/03
DWN: KAS
APP: DPG
REV:
PROJECT NO.
837411
PCE Concentration Isopleth Map
for Intermediate Aquifer Prior to Remediation
(January 2003)
METROPOLITAN AVENUE
FOREST HILLS, QUEENS, NEW YORK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XREF Files: MANYB001 mamexb00 IMAGE Files:
File: N:\Cad\Projects\NYCSA- Metropolitan Avenue - 0103\project drawings -0103\837411B2-TET-DEEP.dwg Layout: Model User: KSnyder Feb 19, 2003 - 9:10am
LEGEND:
MONITORING WELL
FENCE LINE
SITE PROPERTY BOUNDARY
LIRR TRACKS
ISOPLETH
(ND) TETRACHLOROETHENE CONCENTRATION (ppb)
70TH AVE
URSULA PL
69TH RD
SYBILLA STREET
METROPOLITAN AVE
DOT PROPERTY
PATHMARK PROPERTY
SCA-10I
SCA-10D
SCA-10S
SCA-13D
SCA-13I
SCA-13S
SCA-12I
SCA-12S
SCA-12D
SCA-16S
SCA-16I
SCA-16D
SCA-15D
SCA-15I
SCA-15S
SCA-11D
SCA-11I
SCA-11S
SCA-2
MW-4
SCA-14S
SCA-14I
SCA-14D
SCA-3
SCA-9S
SCA-9I
SCA-9D
SCA-4A
SCA-8
MW-2
MW-111
SCA-5
SCA-6
SCA-7
SCA-1A
NOTES:
1. THE FOLLOWING NEW MONITORING WELLS WERE INSTALLED FOR THIS INVESTIGATION.
SCA-14S
SCA-14I
SCA-14D
SCA-15S
SCA-15I
SCA-15D
SCA-16S
SCA-16I
SCA-16D
2. SEE TABLE 2 FOR DATA QUALIFIERS.
REFERENCE:
FROM ZONING STUDY-PLAN
SCALE
0 200 400 FEET
FIGURE 6F
One International Blvd. Suite 700, Mahwah, N.J. 07495
Shaw Environmental & Infrastructure, Inc.
DATE: 02/13/03
DWN: KAS
APP: DPG
REV:
PROJECT NO. 837411
PCE Concentration Map
for Deep Aquifer Prior to Remediation
(January 2003)
METROPOLITAN AVENUE
FOREST HILLS, QUEENS, NEW YORK

OFFICE New York, NY | DRAWING NUMBER 111256-FIG7

69TH AVENUE

SYBILLA STREET

METROPOLITAN AVENUE

URSULA PLACE

LONG ISLAND EXPRESSWAY

TRAILER

TRAILER

AREA 1

AREA 2

AREA 3

LEGEND

- VE-5 — VAPOR EXTRACTION POINT
- AS-22 — AIR SPARGING POINT
- SCA-6 — EXISTING GROUNDWATER MONITORING WELL
- VP-8 — VAPOR MONITORING POINT
- PLUME AREA 1 (16,900± S.F.)
- PLUME AREA 2 (30,900± S.F.)
- PLUME AREA 3 (92,950± S.F.)
- RAILROAD TRACKS
- PROPERTY LINE

SCA-11D

	8/02	1/03	4/05	7/05	10/05	1/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07–7/07
1,1,1 – TCA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.9	ND
PCE	ND	ND	ND	ND	ND	ND	ND	3.3J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

SCA-11I

	8/02	1/03	4/05	7/05	10/05	1/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07–7/07
1,1,1 – TCA	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9J	ND	ND	ND	ND	ND	ND	ND	7.0	ND
PCE	ND	ND	ND	ND	ND	ND	ND	3.3J	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1J	ND

SCA-11S

	8/02	1/03	4/05	7/05	10/05	1/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07–7/07
1,1,1 – TCA	92	89J	56	41	44	41	28	18	18	27	17	ND	15	ND	15	6.7	14	7.2	ND	ND
PCE	3.2J	2.5J	3.8J	2.7J	3.0J	3.0J	8.9	4.3J	ND	2.2J	2.1J	6.4	2.0J	ND	1.6J	1.8J	2.0J	1.2J	1.2J	ND

SCA-5

	10/99	11/99	8/01	8/02	1/03	4/05	7/05	10/05	1/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07
1,1,1 – TCA	4.7	4.3	2.1J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	6.1	1.2	1.2J	ND	ND	1.4J	0.59J	0.53J	0.88J	ND	3.8J	ND	ND	ND	5.2	ND	ND	1.2J	ND	2.5J	ND	1.4J	ND	3.1J	35

AS-20

	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07–7/07
1,1,1 – TCA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	1.5J	3.4J	ND	ND	1.1J	5.7	ND	ND	ND	1.4J	2.4J	ND	ND

AS-9

	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06–3/07	4/07–6/07	7/07
1,1,1 – TCA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	ND	ND	ND	ND	ND	ND	ND	ND	ND	3J

AS-30

	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07–7/07
1,1,1 – TCA	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	ND	6.3	2.5J	3.7J	3.8J	7.8	ND	ND	2.8J	3.7J	4.2J	2.5J	4.4J	3.8J	ND

VP-8

	4/06	5/06	6/06–3/07	4/07–6/07	7/07
1,1,1 – TCA	ND	ND	ND	ND	ND
PCE	ND	3.4J	ND	ND	3J

SCA-2

	2/98	11/99	8/01	8/02	1/03	4/05	7/05	10/05	1/06	4/06	5/06	6/06	7/06	8/06	9/06–3/07	4/07–6/07	7/07
1,1,1 – TCA	1J	320	60	220E	ND	ND	ND	14	ND	ND	ND	3.40J	3.0J	1.7J	ND	ND	3.2J
PCE	ND	ND	6.3	37	ND	ND	ND	1.2J	ND	7.4	ND	3.60J	0.69J	ND	ND	ND	ND

VP-10

	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07
1,1,1 – TCA	13	18	15	14	12	ND	ND	ND	5.7	4.6J	ND	ND	18	11	ND	ND
PCE	ND	4.5J	0.82J	1.2J	ND	5.2	ND	ND	ND	ND	ND	ND	ND	1.2J	ND	2.9J

SCA-10S

	8/02	1/03	4/05	7/05	10/05	4/06	5/06	6/06	7/06	8/06	9/06	10/06–12/06	1/07	2/07–3/07	4/07–7/07
1,1,1 – TCA	1.8J	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND
PCE	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	1.5J	ND	ND

SCA-6

	10/99	11/99	8/01	8/02	1/03	4/05	7/05	10/05	1/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07
1,1,1 – TCA	6.3	12	20	43	16J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.9J	ND	ND	2.0J	ND	ND	ND	ND
PCE	2.1	2.8	1.7J	ND	ND	15	14	23	14	18	21	11	8.0	6.4	13	ND	ND	4.9J	14	3.3J	2.0J	1.4J	2.6J	2.7J	21

AS-8

	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07
1,1,1 – TCA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	7.5	6.4	ND	1.7J	9.1	20	19	45	13	68	59	9.4	81	24	38	17

SCA-9I

	8/02	1/03	4/05	7/05	10/05	1/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07
1,1,1 – TCA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	560D	220JD	29	9.7	2.0J	0.90J	ND	3.6J	ND	1.2J	1.1J	6.3	2.6J	ND	ND	4.2J	5.0J	1.2J	2.6J	1.8J	1.8J	3.2J

SCA-9S

	8/02	1/03	4/05	7/05	10/05	1/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07
1,1,1 – TCA	130	73J	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	73	63J	2.10J	NS	NS	0.92J	ND	3.6J	ND	ND	ND	6.8	2.6J	ND	ND	1.8J	ND	2.3J	1.6J	1.8J	1.8J	19

SCA-9D

	8/02	1/03	4/05	7/05	10/05	1/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07
1,1,1 – TCA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	1.3J	ND	1.20J	9.3	1.2J	0.88J	ND	3.4J	ND	ND	ND	5.0J	ND	ND	ND	ND	ND	2.3J	1.6J	1.8J	1.8J	19

SCA-7

	10/99	11/99	8/01	8/02	1/03	4/05	7/05	10/05	1/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	10/06	9/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07
1,1,1 – TCA	0.6	ND	26	110	140J	6.7	ND	ND	ND	ND	ND	ND	4.1J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	25	24	21	9.7	2.8J	6.6	3.5J	4.2J	1.1J	9.9	11	ND	37	14	50	3.7J	ND	19	66	190E	ND	ND	89	34	ND

VP-9

	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07
1,1,1 – TCA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	ND	3.5J	ND	ND	ND	ND	ND	ND	ND	1.5J	ND	ND	ND	ND	44	ND

SCA-1A

	10/99	11/99	8/01	8/02	1/03	4/05	7/05	10/05	1/06	4/06	5/06	6/06–8/06	9/06	10/06–12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07
1,1,1 – TCA	2.4	1.8	35	92	100	ND	ND	NS	ND	ND	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND
PCE	79	61	24	9.3	5.8	5.8	12	NS	0.63J	ND	3.4J	ND	6.1	NS	NS	4.5J	ND	1.3J	33	31	ND

SCA-3

	2/98	10/99	11/99	8/01	8/02	1/03	4/05	7/05	10/05	1/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07–3/07	4/07–6/07	7/07
1,1,1 – TCA	83	250	300	60	42	160	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	ND	ND	ND	ND	ND	ND	ND	ND	0.87J	ND	ND	4.4J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

SCA-1I

	1/03	4/05	7/05	10/05	1/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07
1,1,1 – TCA	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	NS	19	5.90	3.4J	3.8J	6.90B	6.1	ND	5.8	9.1	11	4.1J	ND	14	4.3J	14	ND	ND	43	34	ND

SCA-14D

	1/03	4/05	7/05	10/05	1/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07
1,1,1 – TCA	ND	52	ND	56	60	13	37	21	43	40	ND	32	ND	26	17	18	13	15	ND	12	ND
PCE	ND	2.80J	ND	3.1J	3.4J	ND	5.8	ND	4.3J	4J	7.1	2.7J	ND	1.8J	1.9J	2.8J	1.2J	1.1J	ND	4.2J	ND

SCA-14I

	1/03	4/05	7/05	10/05	4/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07
1,1,1 – TCA	4.3J	36	ND	23	32	17	16	11	7.0	15	ND	ND	13	10	9.8	8.5	9.5	9.9	ND	12	ND
PCE	0.72J	1.6J	ND	1.5J	1.3J	7.1	4.6J	ND	2.0J	2.2J	6.0	1.5J	ND	1.8J	4.1J	4.0J	2.7J	3.2J	ND	5	ND

SCA-8

	10/99	11/99	8/01	8/02	1/03	4/05	7/05	10/05	1/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07
1,1,1 – TCA	8.4	7.1	28	62	17	ND	ND	ND	2.6J	7.7	3.5J	ND	3.2J	1.3J	ND	ND	ND	4.7J	ND	ND	1.7J	ND	ND	ND	ND
PCE	160	150	29	12	2.8J	20	17	39	29	37	41	ND	9.3	13	9.4	2.9J	ND	3.2J	6.0	5.4	2.2J	1.5J	2.4J	37	ND

SCA-14S

	1/03	4/05	7/05	10/05	1/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07–5/07	6/07	7/07
1,1,1 – TCA	370JD	NS	ND	ND	0.62J	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0J	1.2J	ND	ND	12	ND
PCE	7.2J	NS	ND	0.89J	ND	ND	3.4J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.8J	ND

SCA-15S

	1/03	4/05	7/05	10/05	1/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07–7/07
1,1,1 – TCA	61J	23	ND	12	17	16	8.7	8.5	6.4	9.4	ND	ND	4.8J	3.5J	ND	3.7J	ND	ND
PCE	ND	ND	ND	ND	ND	ND	3.7J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

SCA-15I

	1/03	4/05	7/05	10/05	1/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07–3/07	4/07–7/07
1,1,1 – TCA	ND	ND	ND	5.0J	5.20	7.8	ND	ND	ND	1.4J	1.9J	ND	ND	ND	ND	ND
PCE	ND	ND	ND	ND	ND	3.7J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

SCA-15D

	1/03	4/05	7/05	10/05	1/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07–3/07	4/07–7/07
1,1,1 – TCA	64J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	ND	ND	ND	ND	0.94J	ND	3.4J	ND	ND	ND	ND	ND	ND	ND	ND	ND

SCA-16D

	1/03	4/05–7/07
1,1,1 – TCA	63J	NS
PCE	ND	NS

SCA-16I

	1/03	4/05–7/07
1,1,1 – TCA	3.1J	NS
PCE	ND	NS

SCA-16S

	1/03	4/05–7/07
1,1,1 – TCA	1.9J	NS
PCE	ND	NS

NOTE:

"S" SUFFIX DESIGNATES SHALLOW DEPTH WELL

"I" SUFFIX DESIGNATES INTERMEDIATE DEPTH WELL

"D" SUFFIX DESIGNATES DEEP DEPTH WELL

SAMPLES UP TO AND INCLUDING 1/03 REPRESENT PRE-REMEDIAL CONDITIONS (BLUE TEXT).

SAMPLES BETWEEN 4/05 AND 3/07 REPRESENT PERFORMANCE MONITORING CONDITIONS (RED TEXT).

SAMPLES AFTER 3/07 REPRESENT CONDITIONS FOLLOWING COMPLETION OF REMEDIATION (BLACK TEXT).

WELLS 10S, 16S/I/D WERE DESTROYED DURING CONSTRUCTION ACTIVITIES ON ADJACENT PROPERTIES. WELL 10S WAS REPLACED AND ROUTINE SAMPLING COMMENCED ON 10/06.

ALL RESULTS EXPRESSED IN MICROGRAMS PER LITER (ug/l) – RESULTS BOLD AND SHADED EXCEED THE NY STATE GROUNDWATER STANDARD OF 5 ug/l.

1,1,1 TCA = 1,1,1 – TRICHLOROETHANE

PCE = TETRACHLOROETHENE

ND = NOT DETECTED

NS = NOT SAMPLED

J = ESTIMATED VALUE

E = EXCEEDED CALIBRATION RANGE OF INSTRUMENT

D = SECONDARY DILUTION

B = COMPOUND DETECTED IN BLANK

DATA RECORDED IN THESE TABLES ARE FROM SAMPLES COLLECTED. TABLES INCLUDED IN THE MONTHLY REPORTS TO THE NYSDEC CONTAIN THE DATA FROM THE SAMPLES COLLECTED OR THE DATA FROM DUPLICATE SAMPLES COLLECTED (THE HIGHER OF THE TWO VALUES).

REFERENCE:
GARDEN STATE ENGINEERING SURVEYING AND PLANNING DRAWING TITLED "WELL LOCATION, TREATMENT SYSTEM AND PIPING AS-BUILT FOR AS/SVE SYSTEM," 2/4/05
NYCSCA DRAWING, "METROPOLITAN AVE SCHOOLS," 2/7/05

0 25 50
SCALE IN FEET

Shaw Environmental & Infrastructure, Inc.

FIGURE 7

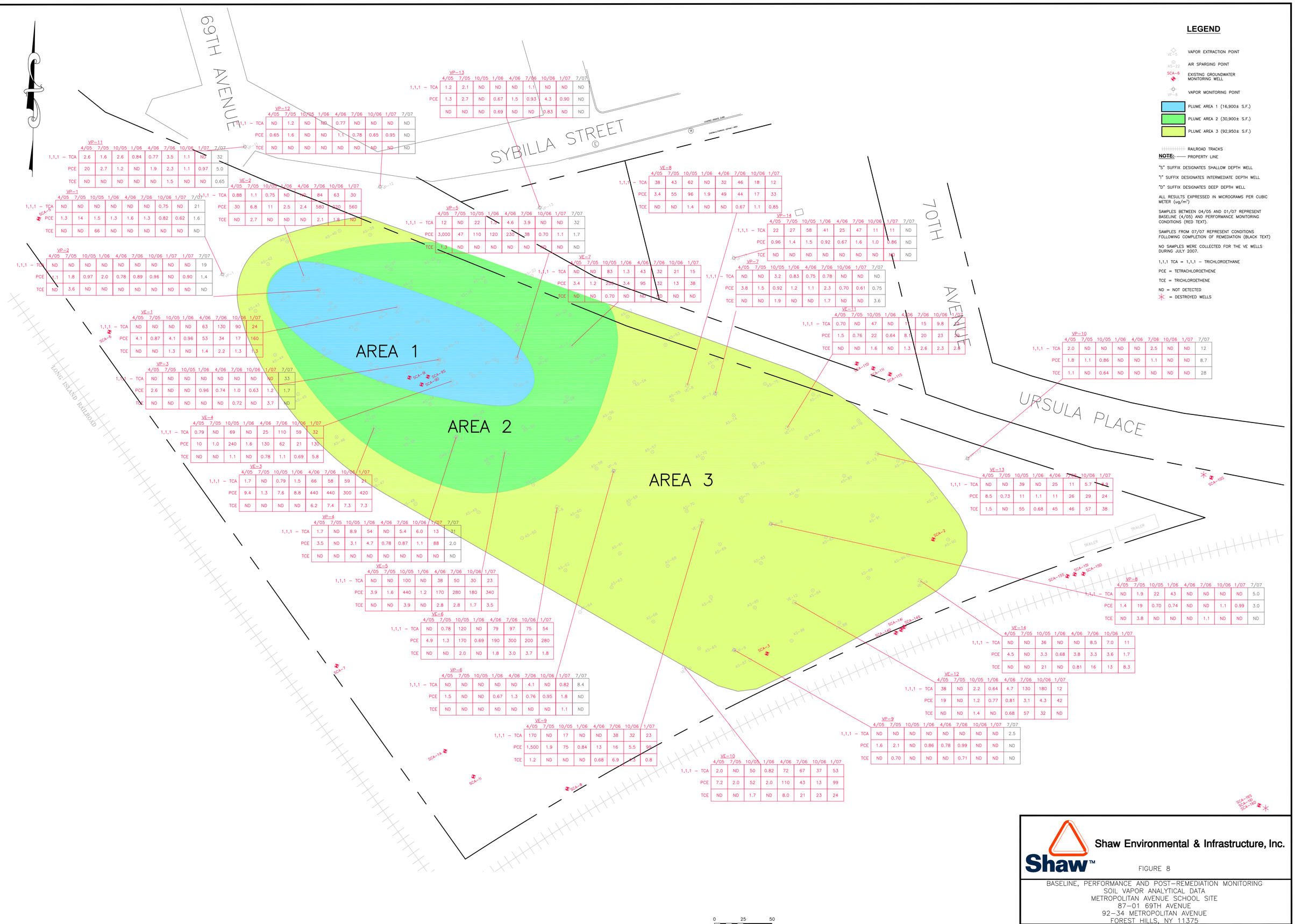
HISTORICAL, PERFORMANCE, AND POST-REMEDIATION MONITORING GROUNDWATER ANALYTICAL DATA
METROPOLITAN AVENUE SCHOOL SITE
87-01 69TH AVENUE
92-34 METROPOLITAN AVENUE
FOREST HILLS, NY 11375

DESIGNED BY	A. Fontana	5/30/07	CHECKED BY	A. Fontana	5/30/07
DRAWN BY	R. Tagoff	5/30/07	APPROVED BY	M. Sherwood	5/30/07

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN		111256		–

File N: Cad Projects NYCSCA - Metro Ave SMP 2007 Figure 7.dwg Layout: 24X36 PDF PLOT User: amy.kostove Aug 16, 2007 - 11:13am

OFFICE: New York, NY | DRAWING NUMBER: Figure 8



VP-11

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07	7/07
1,1,1 – TCA	2.6	1.6	2.6	0.84	0.77	3.5	1.1	ND	32
PCE	20	2.7	1.2	ND	1.9	2.3	1.1	0.97	5.0
TCE	ND	ND	ND	ND	ND	1.5	ND	ND	0.65

VP-12

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07	7/07
1,1,1 – TCA	ND	1.2	ND	ND	0.77	ND	ND	ND	ND
PCE	0.65	1.6	ND	ND	1.1	0.78	0.65	0.95	ND
TCE	ND	ND	ND	ND	ND	ND	ND	ND	ND

VP-13

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07	7/07
1,1,1 – TCA	1.2	2.1	ND	ND	ND	1.1	ND	ND	ND
PCE	1.3	2.7	ND	0.67	1.5	0.93	4.3	0.90	ND
TCE	ND	ND	ND	0.69	ND	ND	0.83	ND	ND

VP-1

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07	7/07
1,1,1 – TCA	ND	ND	ND	ND	ND	ND	0.75	ND	21
PCE	1.3	14	1.5	1.3	1.6	1.3	0.82	0.62	1.6
TCE	ND	ND	66	ND	ND	ND	ND	ND	ND

VE-2

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07
1,1,1 – TCA	0.88	1.1	0.75	ND	ND	84	63	30
PCE	30	6.8	11	2.5	2.4	580	720	560
TCE	ND	2.7	ND	ND	ND	2.1	1.8	ND

VE-8

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07
1,1,1 – TCA	38	43	62	ND	32	46	18	12
PCE	3.4	55	96	1.9	49	44	17	33
TCE	ND	ND	1.4	ND	ND	0.67	1.1	0.85

VP-5

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07	7/07
1,1,1 – TCA	12	ND	22	12	4.6	3.9	ND	ND	32
PCE	3,000	47	110	120	230	38	0.70	1.1	1.7
TCE	1.3	ND	ND	ND	ND	ND	ND	ND	ND

VE-7

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07
1,1,1 – TCA	ND	ND	83	1.3	43	32	21	15
PCE	3.4	1.2	250	3.4	95	32	13	38
TCE	ND	ND	0.70	ND	ND	ND	ND	ND

VE-14

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07	7/07
1,1,1 – TCA	22	27	58	41	25	47	11	11	ND
PCE	0.96	1.4	1.5	0.92	0.67	1.6	1.0	0.86	ND
TCE	ND	ND	ND	ND	ND	ND	ND	ND	ND

VP-7

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07	7/07
1,1,1 – TCA	ND	ND	3.2	0.83	0.75	0.78	ND	ND	ND
PCE	3.8	1.5	0.92	1.2	1.1	2.3	0.70	0.61	0.75
TCE	ND	ND	1.9	ND	ND	1.7	ND	ND	3.6

VP-2

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07	7/07
1,1,1 – TCA	ND	ND	ND	ND	ND	ND	ND	ND	19
PCE	1.1	1.8	0.97	2.0	0.78	0.89	0.96	ND	0.90	1.4
TCE	ND	3.6	ND	ND	ND	ND	ND	ND	ND	ND

VE-1

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07
1,1,1 – TCA	ND	ND	ND	ND	63	130	90	24
PCE	4.1	0.87	4.1	0.96	53	34	17	160
TCE	ND	ND	1.3	ND	1.4	2.2	1.3	1.3

VE-11

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07
1,1,1 – TCA	0.70	ND	47	ND	11	15	9.8	39
PCE	1.5	0.76	22	0.64	8.1	20	23	29
TCE	ND	ND	1.6	ND	1.3	2.6	2.3	2.8

VP-10

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07	7/07
1,1,1 – TCA	2.0	ND	ND	ND	ND	2.5	ND	ND	12
PCE	1.8	1.1	0.86	ND	ND	1.1	ND	ND	8.7
TCE	1.1	ND	0.64	ND	ND	ND	ND	ND	28

VP-3

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07	7/07
1,1,1 – TCA	ND	ND	ND	ND	ND	ND	ND	ND	33
PCE	2.6	ND	ND	0.96	0.74	1.0	0.63	1.2	1.7
TCE	ND	ND	ND	ND	ND	0.72	ND	3.7	ND

VE-13

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07
1,1,1 – TCA	ND	ND	39	ND	25	11	5.7	8.4
PCE	8.5	0.73	11	1.1	11	26	29	24
TCE	1.5	ND	55	0.68	45	46	57	38

VE-4

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07
1,1,1 – TCA	0.79	ND	69	ND	25	110	59	32
PCE	10	1.0	240	1.6	130	62	21	130
TCE	ND	ND	1.1	ND	0.78	1.1	0.69	5.8

VE-3

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07
1,1,1 – TCA	1.7	ND	0.79	1.5	66	58	59	21
PCE	9.4	1.3	7.6	8.8	440	440	300	420
TCE	ND	ND	ND	ND	6.2	7.4	7.3	7.3

VP-8

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07	7/07
1,1,1 – TCA	ND	1.9	22	43	ND	ND	ND	ND	5.0
PCE	1.4	19	0.70	0.74	ND	ND	1.1	0.99	3.0
TCE	ND	3.8	ND	ND	ND	1.1	ND	ND	ND

VP-4

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07	7/07
1,1,1 – TCA	1.7	ND	8.9	54	ND	5.4	6.0	13	31
PCE	3.5	ND	3.1	4.7	0.78	0.87	1.1	88	2.0
TCE	ND	ND	ND	ND	ND	ND	ND	ND	ND

VE-5

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07
1,1,1 – TCA	ND	ND	100	ND	38	50	30	23
PCE	3.9	1.6	440	1.2	170	280	180	340
TCE	ND	ND	3.9	ND	2.8	2.8	1.7	3.5

VE-6

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07
1,1,1 – TCA	ND	0.78	120	ND	79	97	75	54
PCE	4.9	1.3	170	0.69	190	300	200	280
TCE	ND	ND	2.0	ND	1.8	3.0	3.7	1.8

VE-12

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07
1,1,1 – TCA	38	ND	2.2	0.64	4.7	130	180	12
PCE	19	ND	1.2	0.77	0.81	3.1	4.3	42
TCE	ND	ND	1.4	ND	0.68	57	32	ND

VE-14

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07
1,1,1 – TCA	ND	ND	36	ND	ND	8.5	7.0	11
PCE	4.5	ND	3.3	0.68	3.8	3.3	3.6	1.7
TCE	ND	ND	21	ND	0.81	16	13	8.3

VP-6

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07	7/07
1,1,1 – TCA	ND	ND	ND	ND	ND	4.1	ND	0.82	8.4
PCE	1.5	ND	ND	0.67	1.3	0.76	0.95	1.8	ND
TCE	ND	ND	ND	ND	ND	ND	ND	1.1	ND

VP-9

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07	7/07
1,1,1 – TCA	ND	ND	ND	ND	ND	ND	ND	ND	2.5
PCE	1.6	2.1	ND	0.86	0.78	0.99	ND	ND	ND
TCE	ND	0.70	ND	ND	ND	0.71	ND	ND	ND

VE-9

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07
1,1,1 – TCA	170	ND	17	ND	ND	38	32	23
PCE	1,500	1.9	75	0.84	13	16	5.5	99
TCE	1.2	ND	ND	ND	0.68	6.9	1.3	0.8

VE-10

	4/05	7/05	10/05	1/06	4/06	7/06	10/06	1/07
1,1,1 – TCA	2.0	ND	50	0.82	72	67	37	53
PCE	7.2	2.0	52	2.0	110	43	13	99
TCE	ND	ND	1.7	ND	8.0	21	23	24

LEGEND

- VE-5 — VAPOR EXTRACTION POINT
- AS-22 — AIR SPARGING POINT
- SCA-6 — EXISTING GROUNDWATER MONITORING WELL
- VP-8 — VAPOR MONITORING POINT
- PLUME AREA 1 (16,900± S.F.)
- PLUME AREA 2 (30,900± S.F.)
- PLUME AREA 3 (92,950± S.F.)
- RAILROAD TRACKS

NOTE: —— PROPERTY LINE

"S" SUFFIX DESIGNATES SHALLOW DEPTH WELL

"I" SUFFIX DESIGNATES INTERMEDIATE DEPTH WELL

"D" SUFFIX DESIGNATES DEEP DEPTH WELL

ALL RESULTS EXPRESSED IN MICROGRAMS PER CUBIC METER (ug/m^3)

SAMPLES BETWEEN 04/05 AND 01/07 REPRESENT BASELINE (4/05) AND PERFORMANCE MONITORING CONDITIONS (RED TEXT).

SAMPLES FROM 07/07 REPRESENT CONDITIONS FOLLOWING COMPLETION OF REMEDIATION (BLACK TEXT)

NO SAMPLES WERE COLLECTED FOR THE VE WELLS DURING JULY 2007.

1,1,1 TCA = 1,1,1 – TRICHLOROETHANE

PCE = TETRACHLOROETHENE

TCE = TRICHLOROETHENE

ND = NOT DETECTED

✳ = DESTROYED WELLS

REFERENCE:
GARDEN STATE ENGINEERING SURVEYING AND PLANNING DRAWING TITLED "WELL LOCATION, TREATMENT SYSTEM AND PIPING AS-BUILT FOR AS/SVE SYSTEM," 2/4/05
NYCSCA DRAWING, "METROPOLITAN AVE SCHOOLS," 2/7/05

Shaw Environmental & Infrastructure, Inc.

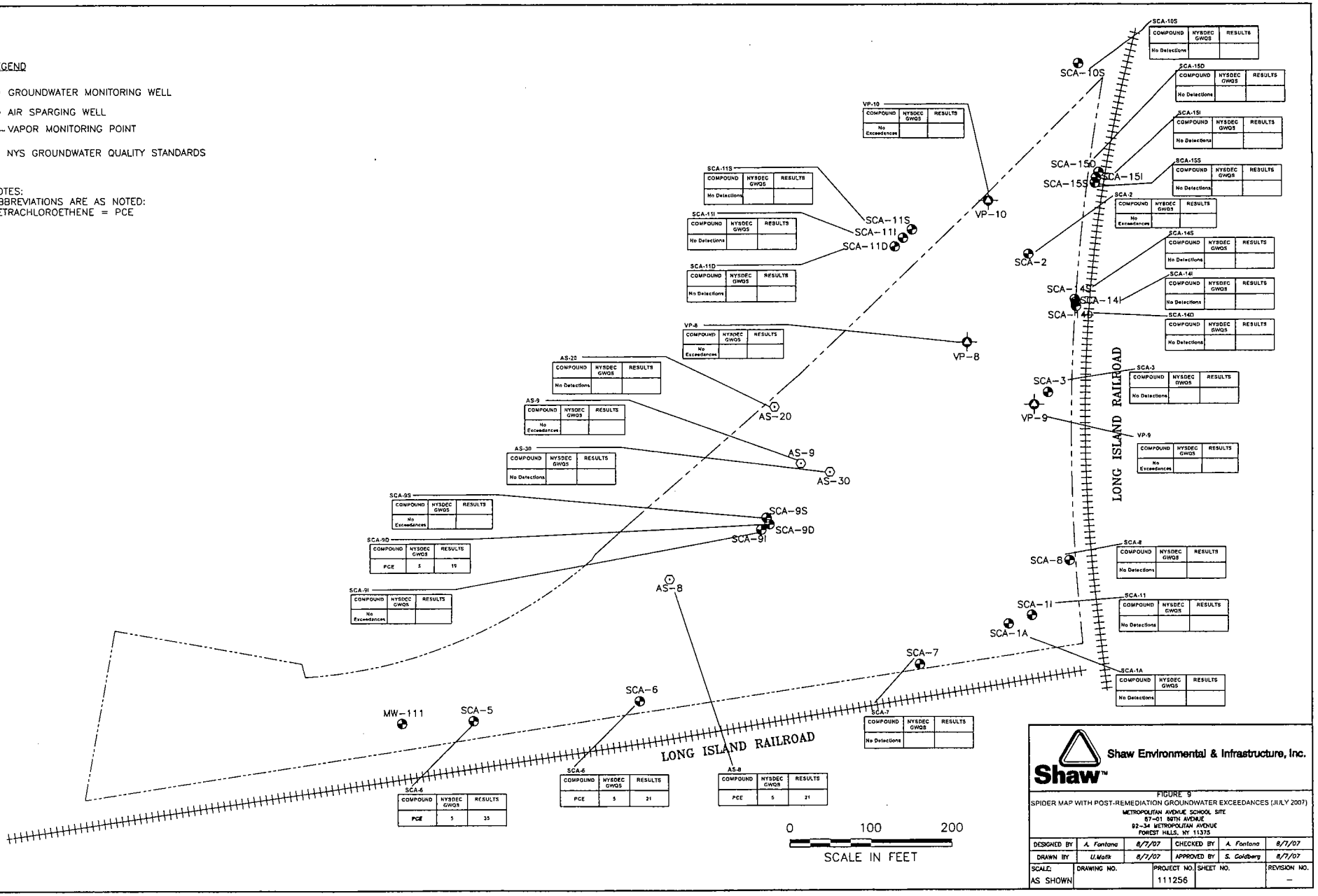
FIGURE 8

BASELINE, PERFORMANCE AND POST-REMEDIATION MONITORING
SOIL VAPOR ANALYTICAL DATA
METROPOLITAN AVENUE SCHOOL SITE
87-01 69TH AVENUE
92-34 METROPOLITAN AVENUE
FOREST HILLS, NY 11375

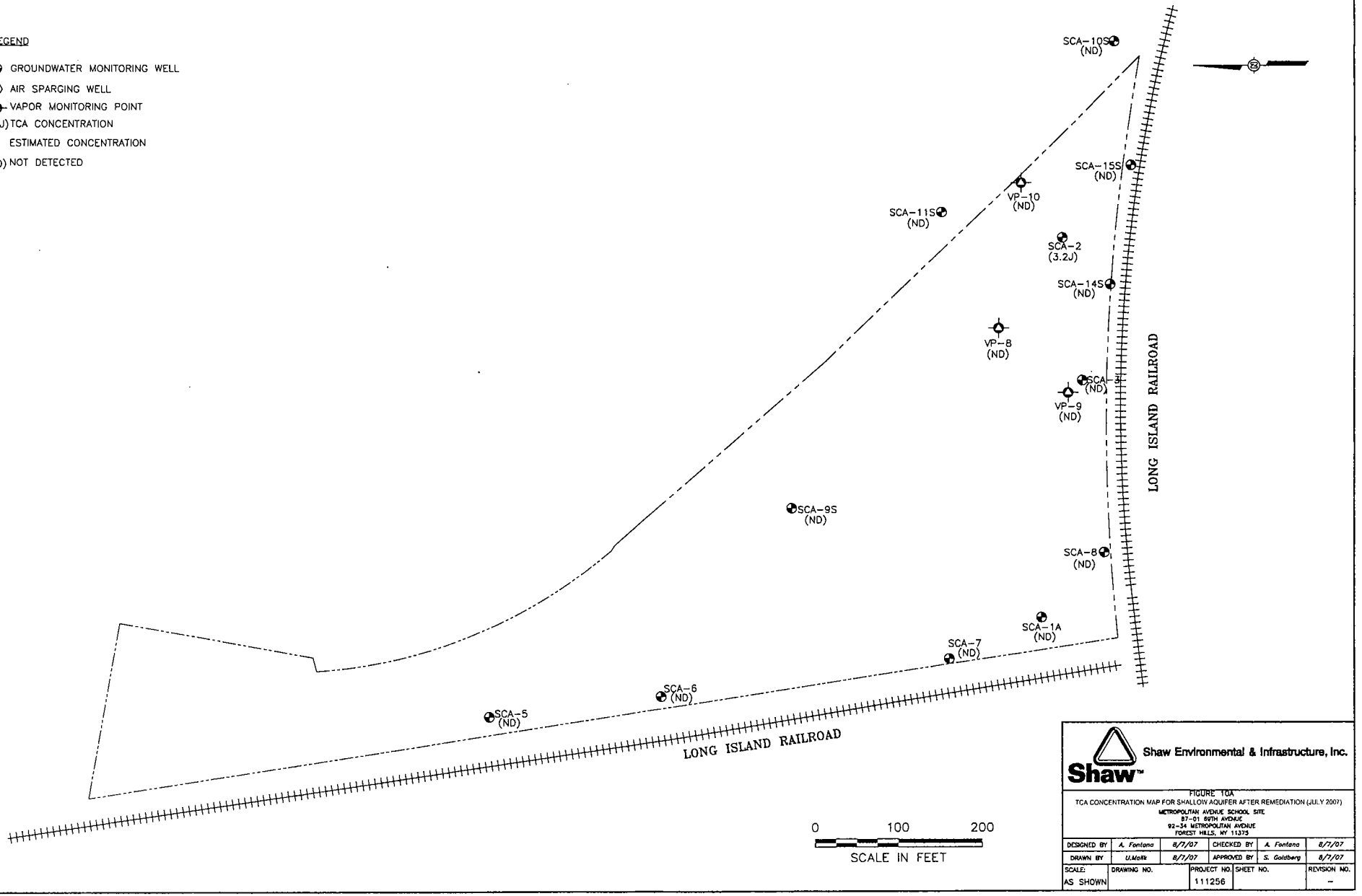
DESIGNED BY	A. Fontana	8/08/07	CHECKED BY	A. Fontana	8/08/07
DRAWN BY	U.Malik	8/08/07	APPROVED BY	M. Sherwood	8/08/07

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN		111256		–

File: N: Cad Projects NYCSCA – Metro Ave SMP 2007 Figure 8.dwg Layout: Figure 8 User: amy.fontana Aug 16, 2007 – 11:15am



XREF Files: IMAGE Files: scan of DEC map 2-1-07.jpg
File: N:\Cad\Projects\NYCSCA - Metro Ave\SMP 2007\FIGURE 9.dwg
Plot Date/Time: Aug 16, 2007 - 11:17am
Plotted By: amy.fontana



OFFICE: New York, NY | DRAWING NUMBER

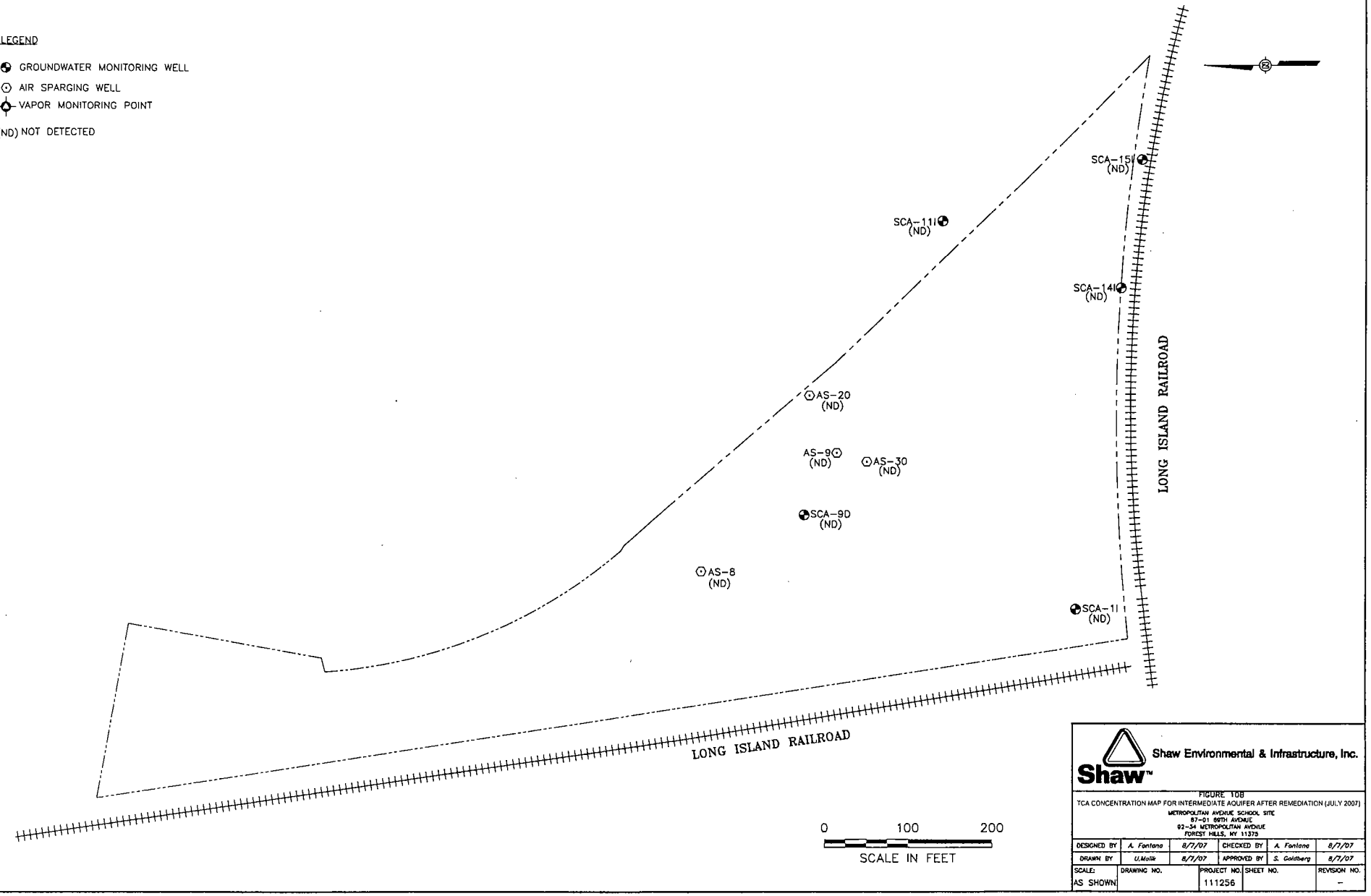
Shaw Environmental & Infrastructure, Inc.

FIGURE 10A
TCA CONCENTRATION MAP FOR SHALLOW AQUIFER AFTER REMEDIATION (JULY 2007)
METROPOLITAN AVENUE SCHOOL SITE
87-01 80TH AVENUE
92-34 METROPOLITAN AVENUE
FOREST HILLS, NY 11375

DESIGNED BY	A. Fontana	8/7/07	CHECKED BY	A. Fontana	8/7/07
DRAWN BY	U.Malik	8/7/07	APPROVED BY	S. Goldberg	8/7/07

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN		111256		-

XREF Files: IMAGE Files: scan of DEC map 2-1-07.jpg
File: N:\Cad Projects\NYCSCA - Metro Ave.SMP 2007 FIGURE 10A Revised 8-29-07.dwg
Plot Date/Time: Aug 29, 2007 - 11:15am
Plotted By: amy.fontana



OFFICE: New York, NY | DRAWING NUMBER

XREF Files: IMAGE Files: scan of DEC map 2-1-07.jpg
File: N: Cad Projects.NYCSCA - Metro Ave.SMP 2007.FIGURE 108 Revised 8-29-07.dwg
Plot Date/Time: Aug 29, 2007 - 11:21am
Plotted By: amy.fontana

Shaw Environmental & Infrastructure, Inc.

FIGURE 108
TCA CONCENTRATION MAP FOR INTERMEDIATE AQUIFER AFTER REMEDIATION (JULY 2007)
METROPOLITAN AVENUE SCHOOL SITE
97-01 66TH AVENUE
92-34 METROPOLITAN AVENUE
FOREST HILLS, NY 11375

DESIGNED BY	A. Fontana	8/7/07	CHECKED BY	A. Fontana	8/7/07
DRAWN BY	U.Malik	8/7/07	APPROVED BY	S. Goldberg	8/7/07

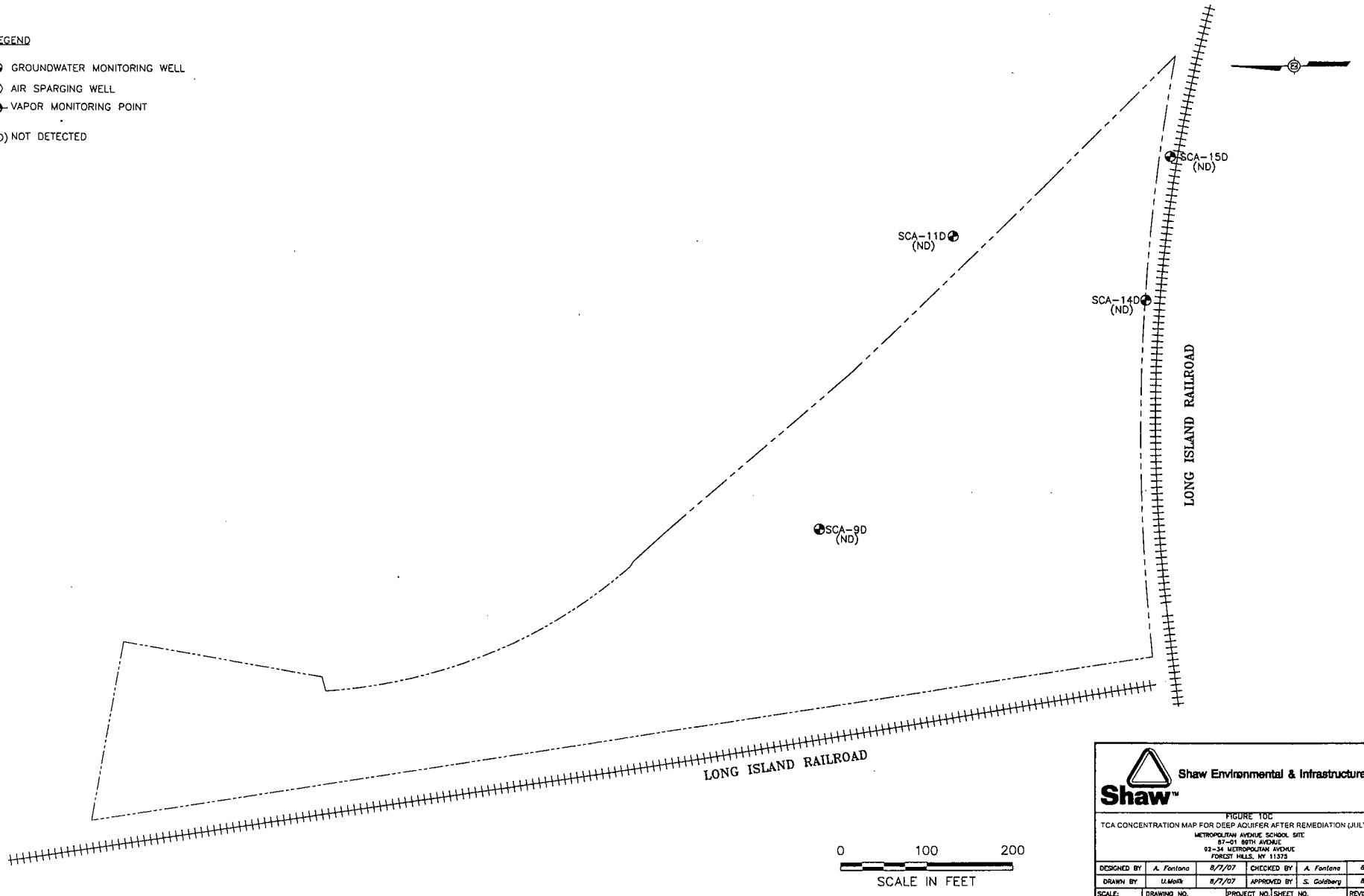
SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN		111256		-

OFFICE: New York, NY | DRAWING NUMBER

LEGEND

- GROUNDWATER MONITORING WELL
- AIR SPARGING WELL
- VAPOR MONITORING POINT

(ND) NOT DETECTED



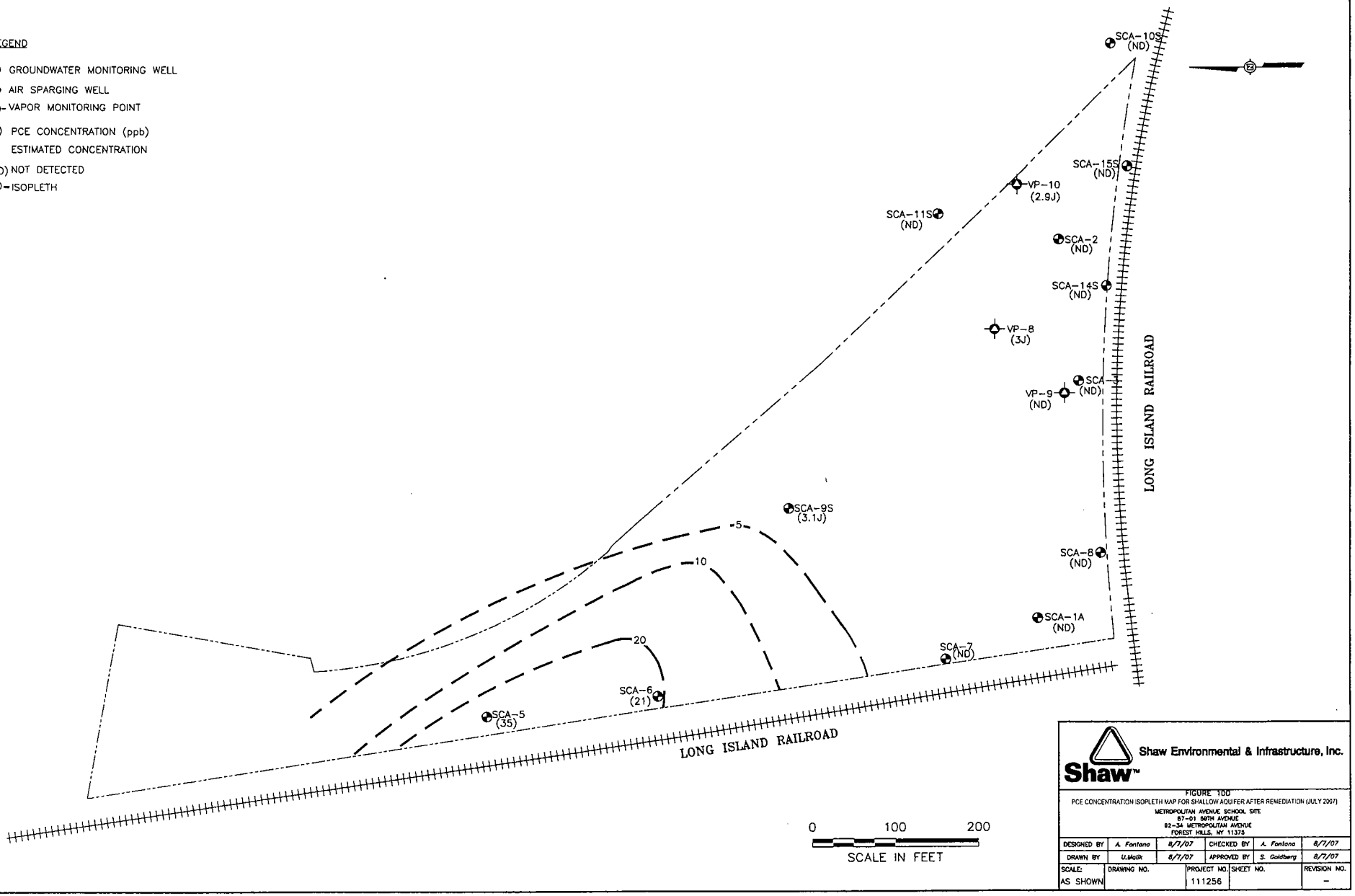
Shaw Environmental & Infrastructure, Inc.

FIGURE 10C
TCA CONCENTRATION MAP FOR DEEP AQUIFER AFTER REMEDIATION (JULY 2007)
METROPOLITAN AVENUE SCHOOL SITE
67-01 98TH AVENUE
92-34 METROPOLITAN AVENUE
FOREST HILLS, NY 11375

DESIGNED BY	A. Fontana	8/7/07	CHECKED BY	A. Fontana	8/7/07
DRAWN BY	U.Molk	8/7/07	APPROVED BY	S. Goldberg	8/7/07

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN		111256		–

XREF Files: IMAGE Files: scan of DEC map 2-1-07.jpg
File: N:\Cad Projects\NYCSCA - Metro Ave SMP 2007\FIGURE 10C Revised 8-29-07.dwg
Plot Date/Time: Aug 29, 2007 - 11:25am
Plotted By: amy.fontana



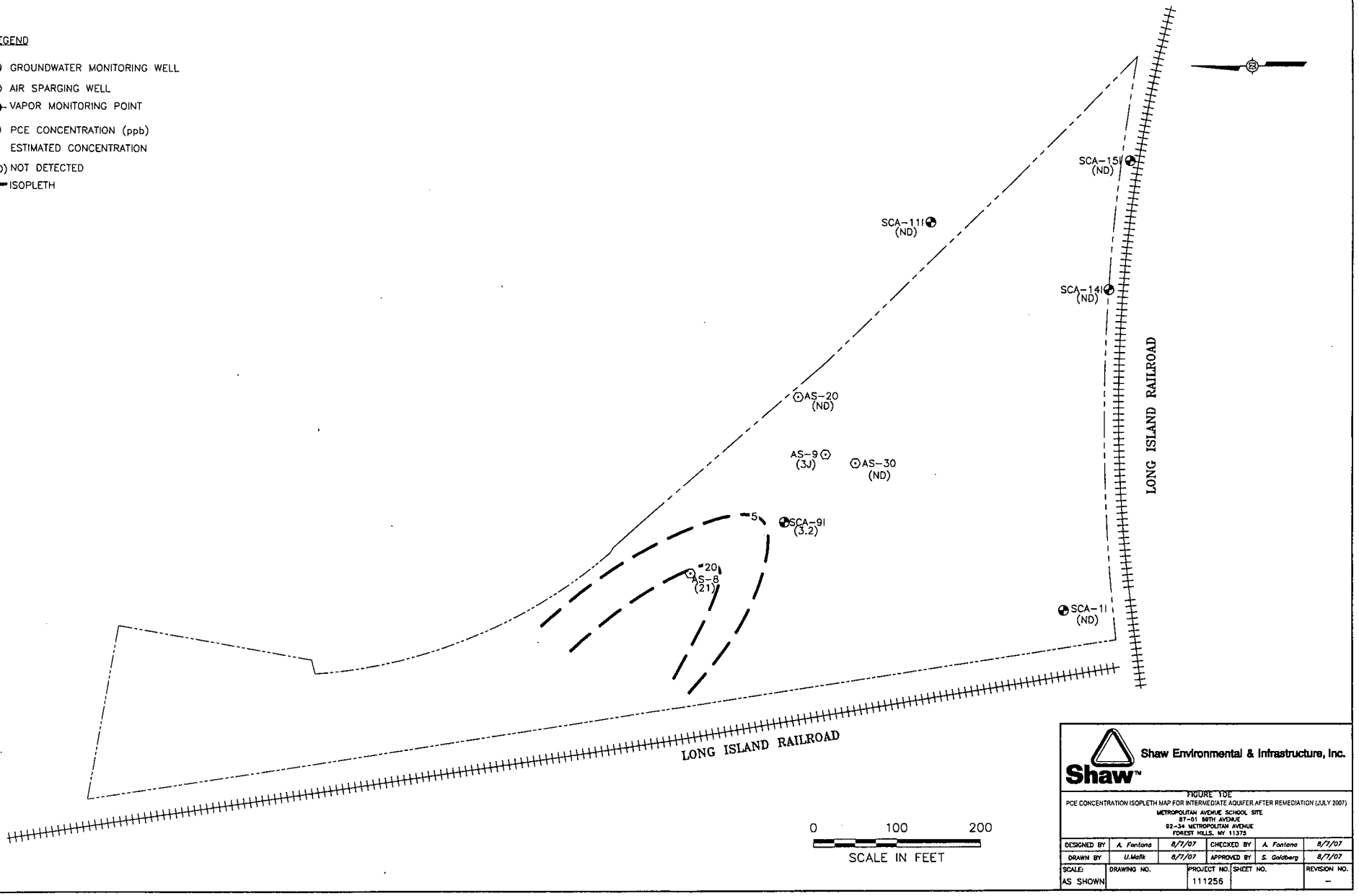
OFFICE: New York, NY | DRAWING NUMBER

XREF Files: IMAGE Files: scan of DEC map 2-1-07.jpg
File: N:\Cad Projects\NYCSCA - Metro Ave\SMP 2007 FIGURE 10D Revised 8-29-07.dwg
Plot Date/Time: Aug 29, 2007 - 11:32am
Plotted By: amy.fontana

Shaw Environmental & Infrastructure, Inc.

FIGURE 10D
PCE CONCENTRATION ISOPLETH MAP FOR SHALLOW AQUIFER AFTER REMEDIATION (JULY 2007)
METROPOLITAN AVENUE SCHOOL SITE
67-01 66TH AVENUE
82-34 METROPOLITAN AVENUE
FOREST HILLS, NY 11375

DESIGNED BY	A. Fontana	8/7/07	CHECKED BY	A. Fontana	8/7/07
DRAWN BY	U.Malik	8/7/07	APPROVED BY	S. Goldberg	8/7/07
SCALE: AS SHOWN	DRAWING NO.		PROJECT NO. 111256	SHEET NO.	REVISION NO. –



OFFICE: New York, NY
DRAWING NUMBER

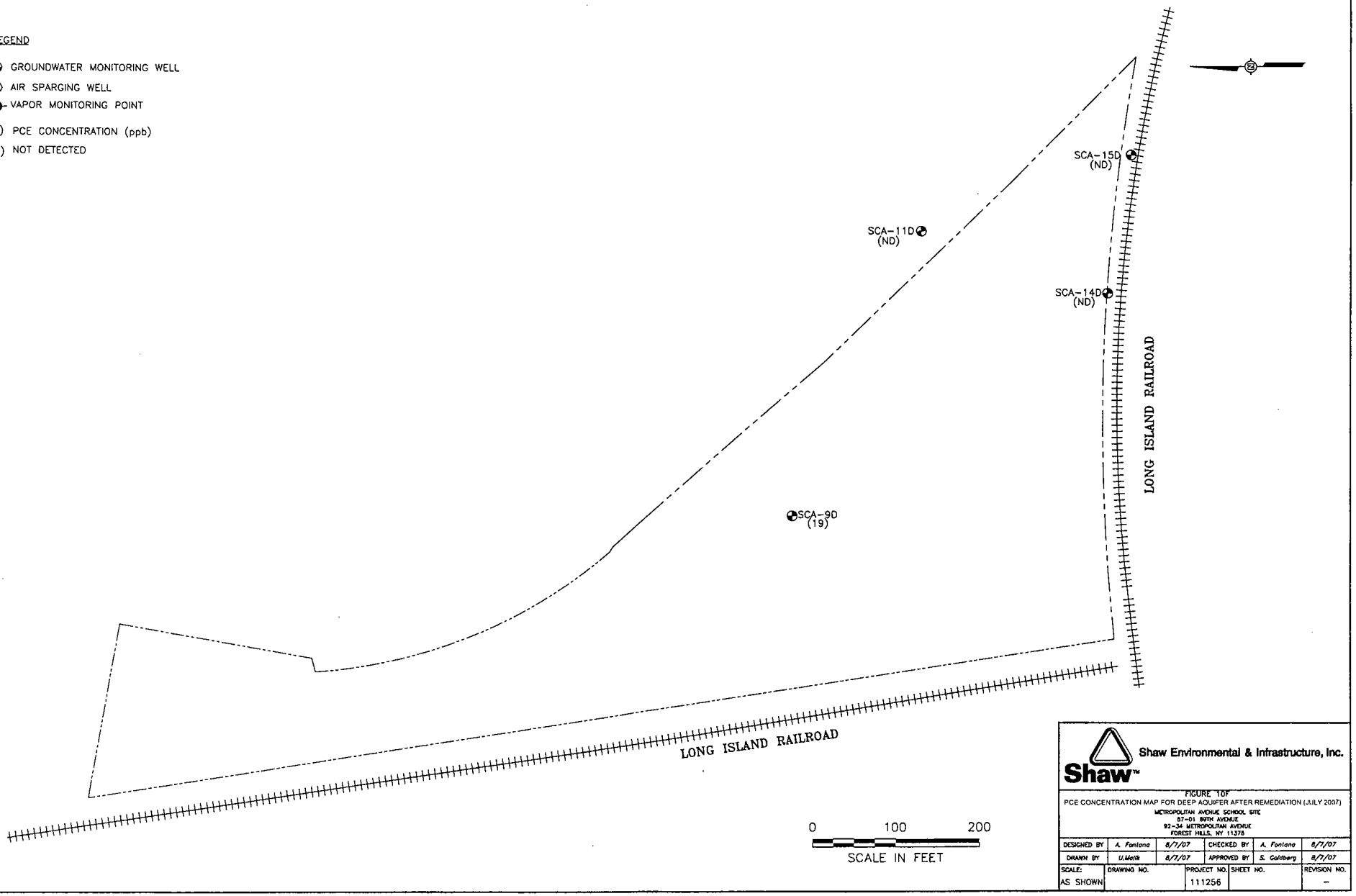
XREF Files: IMAGE Files: scan of DEC map 2-1-07.jpg
File: N: Cad Projects..NYCSCA – Metro Ave..SMP 2007 FIGURE 10E Revised 8-29-07.dwg
Plot Date/Time: Aug 29, 2007 – 11:37am
Plotted By: amy.fontana

Shaw™ Shaw Environmental & Infrastructure, Inc.

FIGURE 10E
PCE CONCENTRATION ISOPLETH MAP FOR INTERMEDIATE AQUIFER AFTER REMEDIATION (JULY 2007)
METROPOLITAN AVENUE SCHOOL SITE
87-01 80TH AVENUE
92-34 METROPOLITAN AVENUE
FOREST HILLS, NY 11375

DESIGNED BY	A. Fontana	8/7/07	CHECKED BY	A. Fontana	8/7/07
DRAWN BY	U.Malik	8/7/07	APPROVED BY	S. Goldberg	8/7/07

SCALE:	DRAWING NO.	PROJECT NO.	SHEET NO.	REVISION NO.
AS SHOWN		111256		–



OFFICE: New York, NY | DRAWING NUMBER

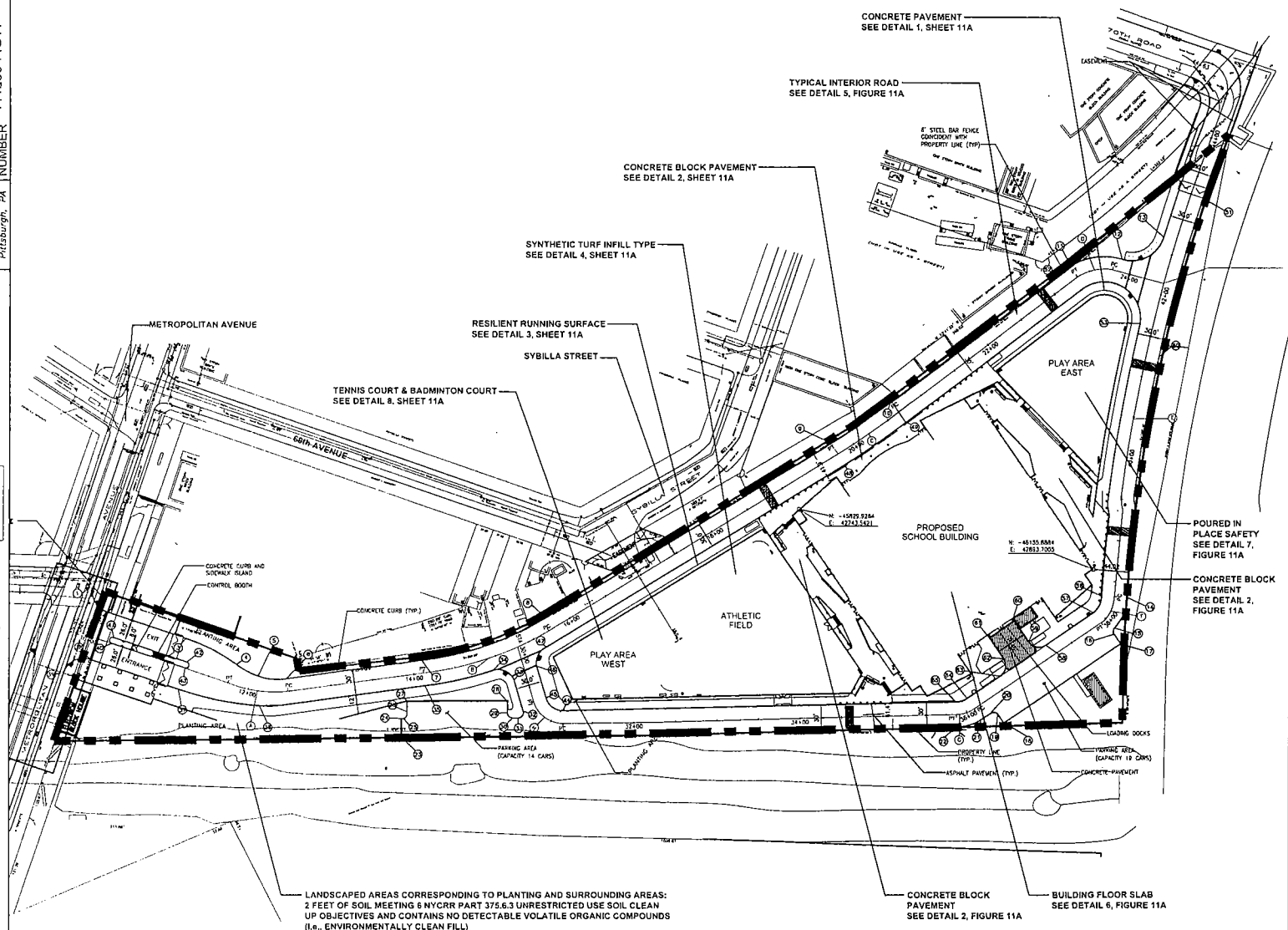
XREF Files: IMAGE Files: scan of DEC map 2-1-07.jpg
File: N: Cad Projects\NYCSCA - Metro Ave\SMP 2007 FIGURE 10F Revised 8-29-07.dwg
Plot Date/Time: Aug 29, 2007 - 12:02pm
Plotted By: amy.fontana

Shaw™ Shaw Environmental & Infrastructure, Inc.

FIGURE 10F
PCE CONCENTRATION MAP FOR DEEP AQUIFER AFTER REMEDIATION (JULY 2007)
METROPOLITAN AVENUE SCHOOL SITE
87-01 80TH AVENUE
92-34 METROPOLITAN AVENUE
FOREST HILLS, NY 11375

DESIGNED BY	A. Fontana	8/7/07	CHECKED BY	A. Fontana	8/7/07
DRAWN BY	U.Mattk	8/7/07	APPROVED BY	S. Goldberg	8/7/07
SCALE: AS SHOWN	DRAWING NO.	PROJECT NO. 111256	SHEET NO.		REVISION NO. -

OFFICE Pittsburgh, PA | DRAWING NUMBER 111256-FIG11



PROPERTY BOUNDARY

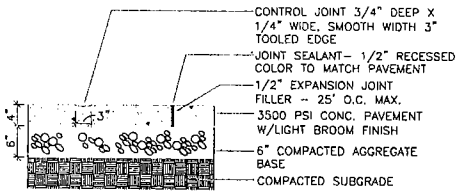
SCALE
0 60 120 180 FEET

REFERENCE:
BASEMAP FROM SHEET C105 PERKINS ARCHITECTS
29 WEST 37th STREET
NEW YORK, NEW YORK 10018

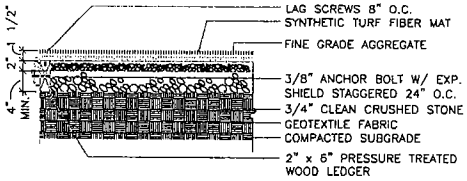
Shaw Shaw Environmental & Infrastructure, Inc.

DESIGNED BY: --	NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY
DRAWN BY: B. Snyder	FIGURE 11 PRINCIPAL SITE COVERS
CHECKED BY: --	METROPOLITAN AVENUE SCHOOL SITE 82-01 59th STREET 82-34 METROPOLITAN AVENUE FOREST HILLS, NY 11375
APPROVED BY: --	DATE: 7/25/07 | SCALE: AS SHOWN | DRAWING NO. 111256-FIG11 | SHEET NO. --

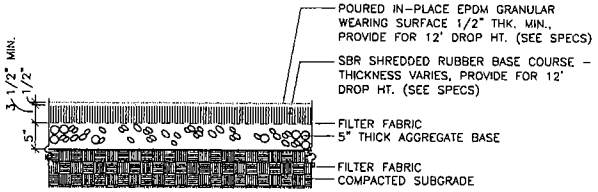
OFFICE Pittsburgh, PA | DRAWING NUMBER 111256-FIG11A



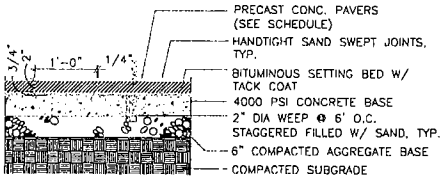
1 Concrete Pavement
1" = 1'-0"



4 Synthetic Turf - Infill Type
1" = 1'-0"

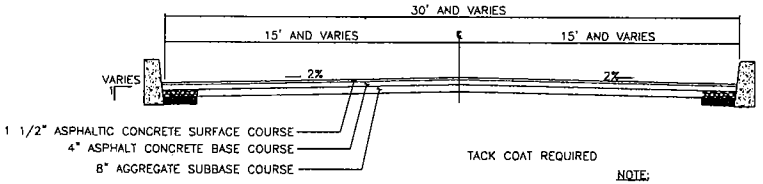


7 Resilient Rubber Surface - Poured in Place
1" = 1'-0"



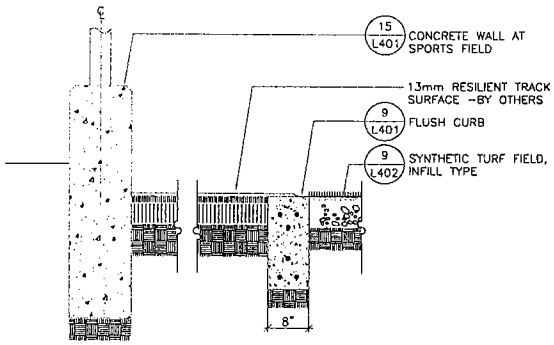
SECTION

2 Concrete Block Pavement
1" = 1'-0"

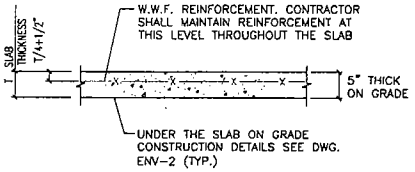


NOTE:
SEE PLANS FOR ACTUAL ROAD GRADES.

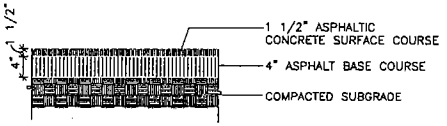
5 Typical Interior Road Section
N.T.S.



3 Resilient Surface Running Path
1" = 1'-0"



6 Slab Construction
N.T.S.



8 Asphalt Pavement
1" = 1'-0"

Shaw

DESIGNED BY: --	NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY
DRAWN BY: B. Snyder	FIGURE 11A
CHECKED BY: --	DESIGN DETAILS OF PRINCIPAL SITE COVERS
	METROPOLITAN AVENUE SCHOOL SITE 87-01 66th STREET 92-34 METROPOLITAN AVENUE FOREST HILLS, NY 11375

APPROVED BY:	DATE:	SCALE:	DRAWING NO.	SHEET NO
--	7/25/07	AS SHOWN	111256-FIG11A	--

8 7 6 5 4 3 2 1

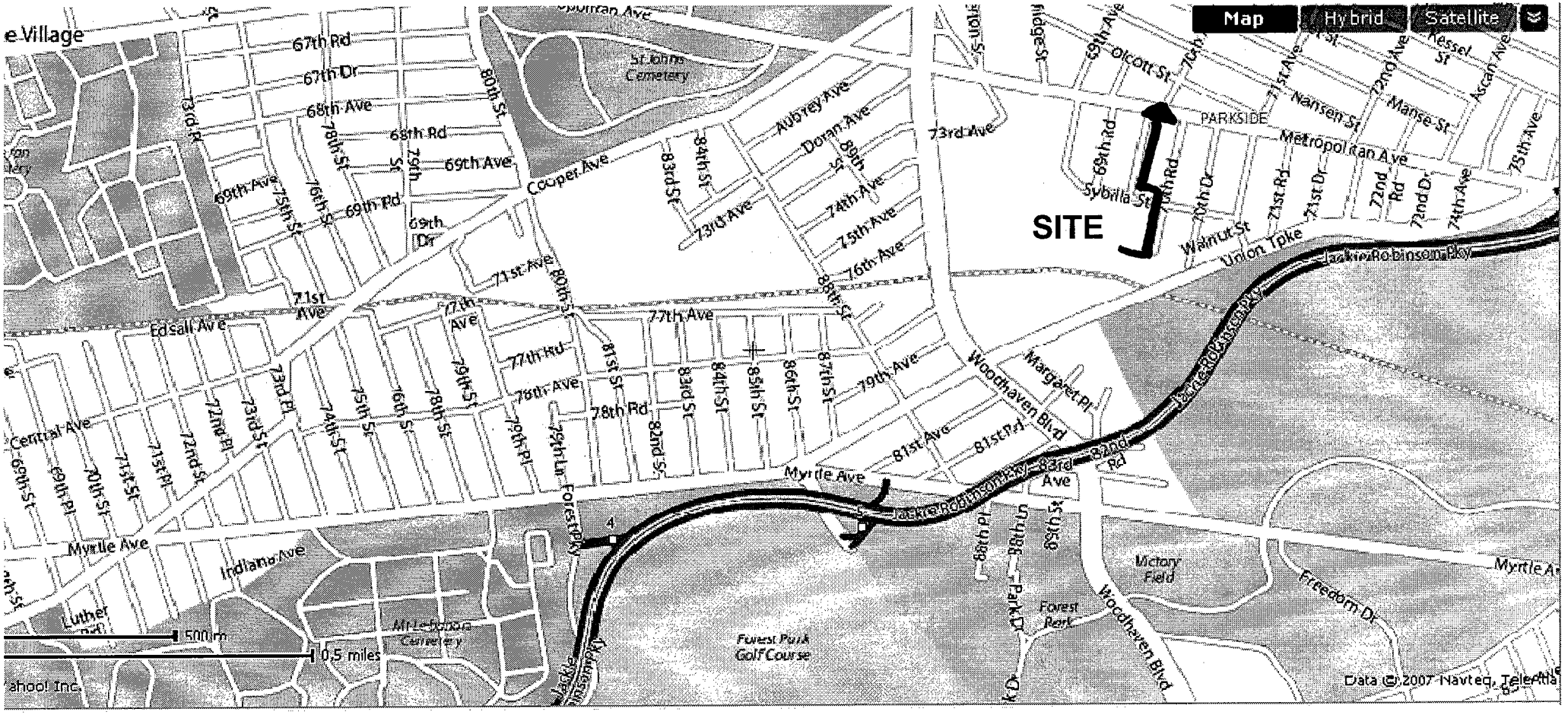
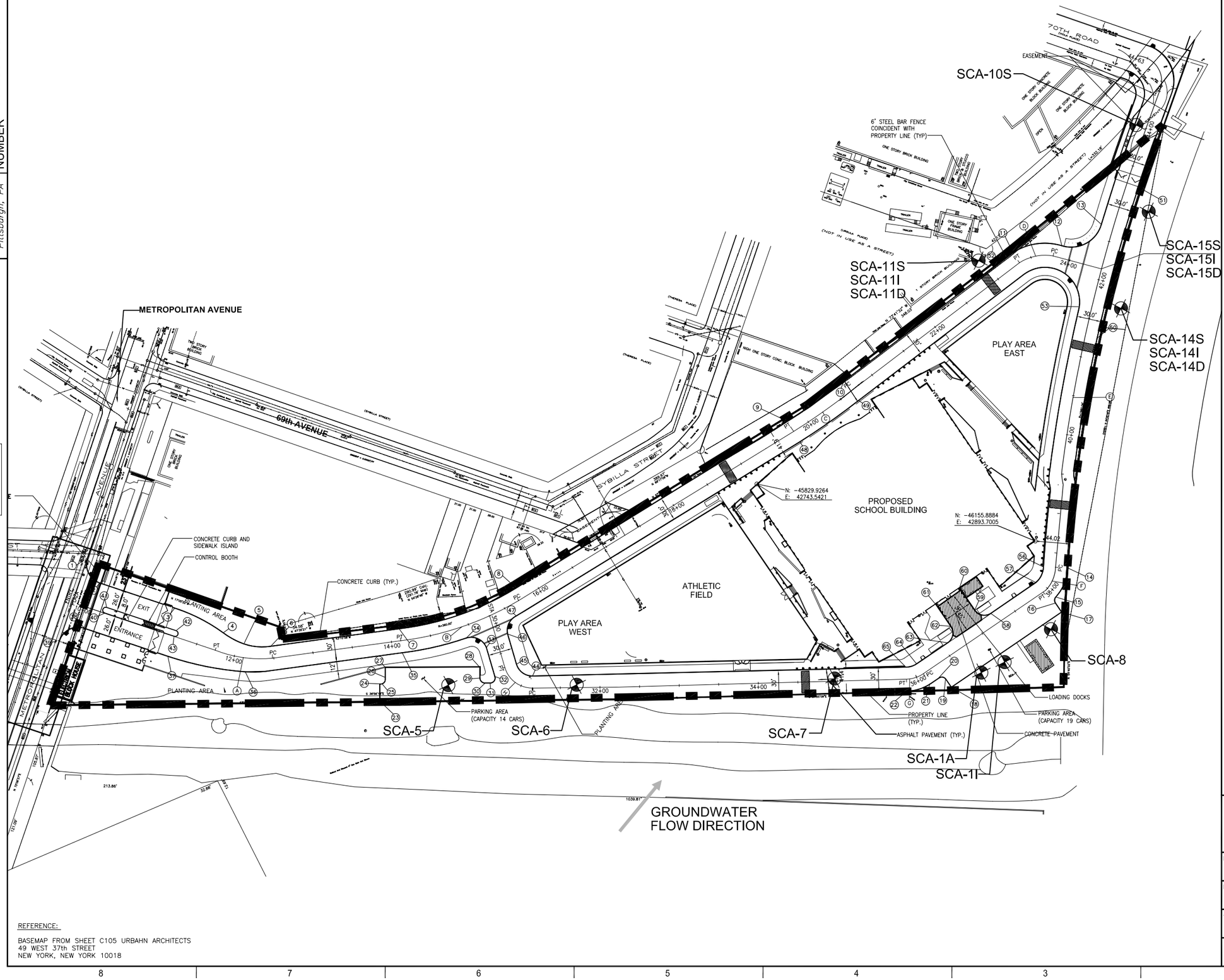


Figure 13
Truck Route
Metropolitan Avenue Site

OFFICE Pittsburgh, PA

DRAWING NUMBER 111256-FIG14

VERIFY SCALE 0 1"



LEGEND

PROPERTY BOUNDARY

POST-REMEDIATION GROUNDWATER MONITORING LOCATION

SCALE
0 60 120 180 FEET

REFERENCE:

BASEMAP FROM SHEET C105 URBAHN ARCHITECTS
49 WEST 37th STREET
NEW YORK, NEW YORK 10018

Shaw Shaw Environmental & Infrastructure, Inc.

DESIGNED BY: --	NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY			
DRAWN BY: B. Snyder	FIGURE 14 Post-Remediation Groundwater Monitoring Locations METROPOLITAN AVENUE SCHOOL SITE 87-01 69th STREET 92-34 METROPOLITAN AVENUE FOREST HILLS, NY 11375			
CHECKED BY: --				
APPROVED BY: --	DATE: 7/25/07	SCALE: AS SHOWN	DRAWING NO. 111256-FIG14	SHEET NO. --

File: N:\Cad\Projects\NYCSCA - Metro Ave\SMP 2007\Figure 14 revised 8-31-07(2).dwg
Plotted: Date/Time: Sep 07, 2007 - 1:58pm
Plotted By: amy.cordona

Xref's Image 2

OFFICE Pittsburgh, PA

DRAWING NUMBER 111256-FIG15

VERIFY SCALE 0 1"

METROPOLITAN AVENUE

69th AVENUE

METROPOLITAN AVENUE

VP-15

VP-16

VP-17

VP-18

VP-19

VP-20

VP-21

VP-22

VP-23

CONCRETE CURB AND SIDEWALK ISLAND

CONTROL BOOTH

EXIT

ENTRANCE

PLANTING AREA

CONCRETE CURB (TYP.)

PARKING AREA (CAPACITY 14 CARS)

PLAY AREA WEST

ATHLETIC FIELD

PROPOSED SCHOOL BUILDING

N: -45829.9264
E: 42743.5421

N: -46155.8884
E: 42893.7005

PLAY AREA EAST

70TH ROAD

EASEMENT

6' STEEL BAR FENCE COINCIDENT WITH PROPERTY LINE (TYP)

PROPERTY LINE (TYP.)

ASPHALT PAVEMENT (TYP.)

CONCRETE PAVEMENT

LOADING DOCKS

PARKING AREA (CAPACITY 19 CARS)

SYBILLA STREET

(NOT IN USE AS A STREET)

LEGEND

PROPERTY BOUNDARY

POST-REMEDIATION SOIL VAPOR MONITORING LOCATION

NOTES:

1. VP-20 REPLACES VP-10
2. VP-18 AND VP-19 EVALUATE PROPERTY LINE NEAR FORMER PATHMARK SUPERMARKET

SCALE
0 60 120 180 FEET

REFERENCE:

BASEMAP FROM SHEET C105 URBAHN ARCHITECTS
49 WEST 37th STREET
NEW YORK, NEW YORK 10018

Shaw Environmental & Infrastructure, Inc.

DESIGNED BY: --	NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY			
DRAWN BY: B. Snyder	FIGURE 15 Post-Remediation Soil Vapor Monitoring Locations METROPOLITAN AVENUE SCHOOL SITE 87-01 69th STREET 92-34 METROPOLITAN AVENUE FOREST HILLS, NY 11375			
CHECKED BY: --				
APPROVED BY: --	DATE: 7/25/07	SCALE: AS SHOWN	DRAWING NO. 111256-FIG15	SHEET NO. --

File: N:\Cad\Projects\NYCSCA - Metro Ave\SMP 2007\Figure 15 revised 9-04-07.dwg
Plot: Date/Time=Sep 04, 2007 - 11:19am
Plotted By: heather.moore

Xref's
Image's