

Annual Groundwater, Soil Vapor and Indoor Air Monitoring Report for December 2010

Citizen Development Company / Flower Fashion Site 47 Northern Boulevard Great Neck, New York

NYSDEC Site # 1-30-070

January 2011

Prepared for:

Citizen Development Company 111-15 Queens Boulevard P.O. Box 10 Forest Hills, NY 11375

Prepared by:

CA Rich Consultants, Inc. 17 Dupont Street Plainview, NY 11803



January 4, 2011

New York State Department of Environmental Conservation At SUNY 50 Circle Road Stony Brook, New York 11794

Attention: Mr. Jamie Ascher

Re: Annual Report

December 2010 Groundwater, Soil Vapor & Indoor Air Monitoring Results The Citizens Development Company / Flower Fashion Site (the Site)

47 Northern Boulevard, Great Neck, New York

Dear Mr. Ascher:

In accordance with our Site Management Plan (SMP), attached is a copy of the Annual Groundwater, Soil Vapor & Indoor Air Monitoring Report and Certification (the Report) for the above-referenced Site. This document follows the Department's new "Periodic Review Report General Guidance" outline included in the NYSDEC's 45 – Day Reminder Notice. It also includes a signed Institutional and Engineering Controls Certification Form.

The findings presented in this Report indicate that the remedial activities completed remain effective in reducing the concentrations of perchloroethene (PCE) in the groundwater, soil vapor and indoor air at the Site and in the basements of the adjacent buildings. As described in detail within our Report, we recommend the following for this Site:

- During December 2010, a third post-remediation soil boring was installed in the northeastern portion of the rear yard (Figure 6). The PCE level at the 4 to 6 foot depth was 3.0 uk/kg, significantly less than the TAGM standard. In accordance with the SMP, we request permission to convert the SVE system to an SSD system by replacing the current blower with a smaller and more energy efficient fan as outlined in the SMP.
- Based on the historical analytical results from well MW-4, we request permission to terminate the program of annual groundwater monitoring at this Site.
- Lastly, we recommend that the program of indoor air monitoring and inspection of the SSD system continue on an annual basis in accordance with the SMP.

If there are any questions regarding this Report, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Exic Veristoll

Eric A. Weinstock Vice President

cc: Rosalie K. Rusinko, Esq., NYSDEC-Tarrytown Charlotte Biblow, Esq., Farrell Fritz Sal Panico, Cord Meyer Development, LLC

Jacqueline Nealon, NYSDOH

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Periodic Review Report (PRR) – December 2010
Citizen Development Company /Flower Fashion Site
47 Northern Boulevard
Great Neck, New York
NYSDEC Site # 1-30-070

1.0 Introduction

The Citizen Development Corp./Fashion Flower (CDC/FF) site (the Site), located at 47 Northern Boulevard in Great Neck, New York (Figure 1), is currently occupied by an AT&T cellular telephone store. Previous tenants of this Property were: a Cingular cellular telephone store; a florist; and a dry cleaner. For the purposes of this document, the contaminant of concern is tetrachloroethene (a.k.a perchloroethene or "PCE") which is a remnant of the operation of the former dry cleaner. The media that were impacted included soil, soil vapor, groundwater and indoor air.

A. Nature & Extent of Contamination and Remedial History

During the 1980's and 1990's, a series of investigative and remedial activities including soil borings, well installations & sampling, soil vapor surveys, soil excavation, soil vapor extraction (SVE) system and groundwater pump & treat systems were employed at the CDC/FF Site to address a release of the dry cleaning chemical perchloroethene and its degradation products. During the 2000's, this was followed by a sub-slab depressurization (SSD) system below the building, an additional soil vapor survey, a second soil removal effort, a program of in-situ chemical oxidation, the operation of a second SVE system and the installation of additional monitoring wells.

As displayed in the chronologic tabulation included in Section 2 of this report, this Site has a long history of environmental investigative and remedial activities. A list of references for the work performed is included at the end of this Report. For the purposes of this periodic review, this Report will focus on the most recent investigative and remedial effort as outlined in the Site Management Plan (SMP) (Ref 12). These are: in-situ chemical oxidation; operation of an SVE system in the rear of the Property; operation of the SSD system below the building; and post remediation groundwater and indoor air monitoring.

B. Effectiveness of Remedial Program

The effectiveness of the corrective actions implemented at this Site has been evaluated by reviewing data collected regarding the following components of the remedial program. These are discussed in detail in Section 3 of this Report.

In-Situ Chemical Oxidation – The last in-situ chemical oxidation application was applied during the summer of 2006. Based on the results of the monitoring wells downgradient of the application Site, this remedial effort is deemed to have been effective. Well MW-4 (the well that has historically had the highest PCE levels at the Site), contained PCE at a concentration of 7.1 ug/l during the December 2010 sampling round, just slightly above the groundwater standard of 5.0 ug/l.

Operation of the SVE System in the Rear of the Property – The SVE system has remained in operation from January 2005 to the present. The new shallow SVE wells were installed during the summer of 2009. Over that period of time, it has been effective in reducing the concentration of remnant PCE soil vapors below the rear portion of the Property. The initial PCE concentration in the untreated or "raw" soil vapor in January 2005 was 540,000 ug/m³. During the December 2010 sampling round, this was reduced to 4,342 ug/m³.

Operation of the SSD System Below the Building – The operation of the SSD fan is checked on a regular basis. No operational problems have been reported during 2010. Based on the results of the indoor air samples collected in the AT&T store, the SSD system is deemed to have been effective and protective.

<u>Post Remediation Groundwater and Indoor Air Monitoring</u> – The results of the groundwater and indoor air monitoring program are discussed in Sections 2 and 3 of this Report. The groundwater PCE results are either below, or only slightly above groundwater standards in all of the sampled wells. The indoor air PCE results are also either below, or only slightly above State background levels. As such, the Groundwater and Indoor Air Monitoring program is deemed to have been effective and protective.

C. Compliance

The Site is currently in compliance with the Site Management Plan (SMP)

D. Recommendations

- During December 2010, a third post-remediation soil boring was installed in the northeastern portion of the rear yard (Figure 6). The PCE level at the 4 to 6 foot depth was 3.0 uk/kg, significantly less than the TAGM standard. In accordance with the SMP, we request permission to convert the SVE system to an SSD system by replacing the current blower with a smaller and more energy efficient fan as outlined in the SMP.
- Based on the historical analytical results from well MW-4, we request permission to terminate the program of annual groundwater monitoring at this Site.
- Lastly, we recommend that the program of indoor air monitoring and inspection of the SSD system continue on an annual basis in accordance with the SMP.

2.0 Site Overview

A. Chronology of Investigative and Remedial Activities

During the 1980's and 1990's, a series of investigative and remedial activities including soil borings, well installations & sampling, soil vapor surveys, soil excavation, soil vapor extraction (SVE) system and groundwater pump & treat systems were employed at the CDC/FF Site to address a release of the dry cleaning chemical perchloroethene and its degradation products. During the 2000's, this was followed by a sub-slab depressurization (SSD) system below the building, an additional soil vapor survey, a second soil removal effort, a program of in-situ chemical oxidation, the operation of a second SVE system and the installation of additional monitoring wells.

As displayed in the chronologic tabulation below, this Site has a long history of environmental investigative and remedial activities. A list of references for the work performed is included at the end of this Report.

A chronology of the Site activities is presented in the following tabulation.

Action	Time Period
Initial subsurface investigations	1983 – 1984
Initial soil removal action in northwest corner of Property	1984
Operation of the initial SVE and groundwater pump and treat systems	1986 – 1990
Post remediation groundwater monitoring	1990 - Present
Installation and operation of a SSD system below the building	2002 - Present
Post remediation indoor air monitoring	2002 - Present
Performance of a second soil vapor survey	2003
Second soil removal action in northeast corner of Property	2004
Application of in-situ chemical oxidation in rear of Property	2004 – 2006
Installation of additional deep monitoring wells	2005
Operation of second SVE system	2005 - Present
Preparation of a Site Management Plan	2006
Performance of post-remediation borings	2009
Installation of two new shallow SVE wells	2009
Performance of additional post-remediation borings	2010

B. Nature and Extent of Contamination

As the source of contamination was the operation of a former dry cleaning facility, the contaminant of concern is tetrachloroethene (a.k.a perchloroethene, PCE or "Perc") which is the trade name for dry cleaning fluid. The media that were impacted included soil, soil vapor, groundwater and indoor air. The extent of contamination in each of these media is discussed below.

<u>Soil</u> – Two known areas of soil contamination existed below the rear of the Property in the past as shown on Figure 2. One portion of contaminated soil located below the northwest portion of the property was removed in 1984 under the oversight of the Nassau County Department of Health.

A second soil removal action was performed in the northeast portion of the Property in 2004 under the oversight of the NYSDEC (Ref. 8). This was followed in-situ treatments with permanganate, a chemical oxidant, followed by the operation of a SVE system (Ref. 9).

<u>Soil Vapor</u> – In the past, elevated PCE levels were measured in the rear of the Property. During 2004, concentrations as high as 2,400,000 ug/m³ of PCE were recorded in the rear yard of the Property. Since that time, a soil removal effort followed by chemical oxidation treatment and the operation of an SVE system have been employed. The concentration of PCE in the exhaust of the SVE system during our December 2010 sampling event was 4,342 ug/m³, a significant improvement since the 2004 sample collection. The historical results of the VOCs detected in the exhaust of the SVE system are included on Table 3 and the location of the SVE system is shown on Figure 3.

Indoor Air Quality – Indoor air sampling was initiated in 2002. Samples were collected from the basement and ground floor level of 47 Northern Blvd.; the basement of 55 Northern Blvd.; the ground floor level of 45 Northern Blvd. (an adjoining strip-type shopping center which has no basement); and from a designated outdoor sampling point. PCE was detected above the NYSDOH background level of 10 ug/m³ and action level of 100 ug/m³ in both 47 and 55 Northern Blvd locations during the initial 2002 sampling event. Results decreased after the SSD and SVE systems were placed into operation. During the December 2010 sampling event, the PCE levels at all locations were below the NYSDOH action level. Two samples in the basement of 55 Northern Blvd. were slightly above the NYSDOH background level. The historical results of PCE detected in the indoor air are included on Table 4, and the sample locations are shown on Figure 4.

Groundwater – A series of groundwater wells had been installed at the Site. Wells MW-1A, 1B, 1C, and 1D are all upgradient water table monitoring wells. These have historically shown low, but measurable, levels of PCE entering the Property. The historical results of VOCs detected in the Site well MW-4 are included on Table 1, and the well locations are shown on Figure 5.

Wells MW-2, 3, 4 are downgradient water table monitoring wells located along the northern boundary of the Site. In the past, these have contained PCE levels in the range of 100 to 1,000 ug/l with well MW-4 displaying the highest concentrations. Since the completion of the chemical oxidation program, the PCE levels decreased significantly. In fact, during the December 2009 sampling round, the PCE concentrations in wells MW-2 and 3 were 2.0 ug/l and 0.85 ug/l. Well MW-4, the well that has historically had the highest PCE levels at the site, contained 7.1 ug/l in December 2010, just slightly above the groundwater standard of 5.0 ug/l. (Well MW-4 is currently the only well sampled in the annual monitoring program.)

A series of multi-depth monitoring wells were installed in the area of MW-4. These are identified as MW-4(75) which is 75 feet deep, MW-4(90) which is 90 feet deep, and MW-4D which is 146 feet deep. During the December 2009 monitoring event, PCE was not detected in the water samples from any of these wells.

There were also a series of off-site wells installed for this Site. These are identified as wells MW-5, 6, 7, 8 and 10. The off-site wells were last sampled in 2005. At that time, the PCE detections were all relatively low, between 1 and 13 ug/l.

3.0 Evaluation of Remedy Performance, Effectiveness and Protectiveness

For the purposes of our periodic review, this report will evaluate the most recent investigative and remedial effort as outlined in the SMP. These are: in-situ chemical oxidation; operation of an SVE system in the rear of the Property; operation of the SSD system below the building; and post remediation groundwater and indoor air monitoring.

<u>In-Situ Chemical Oxidation</u> – Permanganate is a strong oxidizer that has a long history of application for the control of odors at wastewater treatment plants. The application of permanganate directly to subsurface soils and groundwater has been proven successful for the

remediation of PCE. Once in contact with PCE, the permanganate converts the contaminant to harmless by-products as shown below:

(Permanganate + Perchloroethene → Carbon Dioxide Gas + Manganese Dioxide + Hydrogen ions + Sodium ions + Chlorine ions)

During the Fall of 2004, liquid permanganate was applied to a series of 27 shallow injection points and two water table injection points located in the rear of the Property. Additional applications of permanganate were applied to the water table injection points during the Summers of 2005 and 2006 (Ref 9).

The monitoring wells downgradient of the permanganate application site, wells MW-2, 3 and 4, were monitored periodically after the application program. The PCE levels in these wells have declined as a result of this treatment. During the December 2010 sampling round, the PCE concentrations in wells MW-2 and 3 were 2.0 ug/l and 0.85 ug/l. Well MW-4, the well that has historically had the highest PCE levels at the Site, contained 7.1 ug/l, just slightly above the groundwater standard of 5.0 ug/l.

Based on these results, the chemical oxidation program is deemed to have been effective and protective.

Operation of the SVE System in the Rear of the Property – After the permanganate application program was completed, an SVE system was placed in the northeast portion of the rear yard to remove the remnant PCE vapors that were not addressed by the soil removal and in-situ chemical oxidation programs. The SVE system for this Site includes three shallow horizontal SVE wells installed in the backfilled excavation area. Five of the shallow permanganate injection points were also converted in SVE wells. A description of the SVE system is included in Reference 9.

The SVE system has remained in operation from January 2005 to the present except for periodic repairs. Over that period of time, it has been effective in reducing the concentration of remnant PCE soil vapors below the rear portion of the Property. The initial PCE concentration in the untreated or "raw" soil vapor in January 2005 was 540,000 ug/m³. During the December 2010 sampling round, this was reduced to 4,342 ug/m³.

With respect to termination of the SVE system, the SMP states that once the levels of total VOCs in the SVE wells decreases to a near constant or asymptotic concentration, operation of the system will be suspended. In addition it states that three soil borings will then be placed in the rear yard. Soil samples will be collected at a level of 3 to 4 feet below grade in the native soil below the imported fill and analyzed for halogenated volatile organics. If the concentration of PCE and its degradation products in these samples do not exceed the NYSDEC TAGM (Ref.11) Cleanup Objectives, the SVE blower will be replaced with a smaller SSD blower.

Three post-remediation soil borings were installed in the rear of the Property (Ref. 13). In 2009, the soil samples in two of these borings were below the TAGM. Two new shallow SVE wells were installed later that year in the area of the third boring, the boring that exceeded the TAGM (Ref. 14). The boring in the third location was re-installed and tested for VOCs in March 2010 (Ref. 15) and December 2010. The results of the December sample analysis are included on Table 2 and were significantly below the TAGM levels. Therefore, we recommend that the SVE blower be replaced with a more energy efficient SSD fan as outlined in the SMP.

Operation of the SSD System Below the Building – The operation of the SSD fan is checked on a regular basis. No operational problems have been reported during 2010.

Based on the results of the indoor air samples collected in the AT&T store, the SSD system is deemed to have been effective and protective.

Post Remediation Groundwater and Indoor Air Monitoring – The results of the groundwater and indoor air monitoring program are discussed in Section 2 of this Report and documented in Reference 7. The groundwater PCE results are only slightly above groundwater standards. The indoor air sample PCE results are also either below or only slightly above State background levels. The concentration of PCE at 55 Northern Blvd. increased slightly during 2007-2008 while the blower was temporarily out of operation, but have since decreased to near background levels.

Based on these results, we believe the remedy and the post remediation monitoring program have been effective and protective. Furthermore, we request that the groundwater monitoring portion of this program be terminated as the results past sampling rounds have demonstrated that the remedy was successful.

4.0 Institutional Controls/Engineering Controls (IC/EC) Plan Compliance

A. Requirements and Compliance

<u>Institutional Controls</u> – Two institutional controls have been implemented for the site: 1) a deed restriction; and 2) groundwater beneath the Site cannot be used for potable or industrial purposes without treatment unless first obtaining permission to do so from NYSDEC. The deed notification has been filed, and the groundwater beneath the Site is not being used for potable or industrial purposes.

<u>Engineering Controls</u> – SVE and SSD systems were constructed and operate at the Site as engineering controls. The SMP includes provisions to convert the SVE system to a second SSD system which will remain in operation as part of the remedy. The SVE and SSD systems are performing properly as described in Section 3 of this Report.

B. Certification

An annual inspection of the Site is performed, and an Annual Certification is provided to the NYSDEC as required in the SMP.

5.0 Monitoring Plan Compliance

The following monitoring programs are described in the SMP and include: groundwater monitoring, soil vapor monitoring, and indoor air quality monitoring.

5.1 Groundwater Monitoring

Groundwater at this Site is monitored on an annual basis and includes the sampling and analysis of groundwater from monitoring of wells MW-1A, 1C, 2, 3, 4, 4(75), 4(90) and 4D. All groundwater samples, including the required QA/QC samples, are delivered under chain-of-custody control overnight to NYS-certified Laboratory and analyzed for volatile organic compounds (EPA Method 8260) in accordance with NYSDEC ASP Category B deliverables. The results of the December 2010 monitoring round are included on Table 1.

<u>Termination Criteria</u> - The SMP states that the groundwater monitoring program will be terminated after groundwater standards are achieved or NYSDEC indicates monitoring is no longer required. Based on the December 2010 data, we request permission to terminate the groundwater monitoring program at this Site.

5.2 Soil Vapor

Confirmatory soil vapor samples from the SVE system are collected on a semi-annual basis using a Summa® air sample canister. This sample is collected from a sample port located before the carbon treatment unit, and analyzed in accordance with USEPA TO-15 methodology. The SMP states that once the levels of total VOCs in the SVE wells decrease to a near constant or asymptotic concentration, operation of the system will be suspended. The December 2009 monitoring round results are included on Table 9.

Termination Criteria - Three soil borings will then be placed in the rear yard. Soil samples will be collected at a level of 3 to 4 feet below grade in the native soil below the imported fill, and analyzed for halogenated volatile organics. If the concentration of PCE and its degradation products in these samples do not exceed the NYSDEC TAGM (Ref. 11) Cleanup Objectives, the SVE blower will be replaced with a smaller SSD blower.

Three soil borings were installed in 2009. Two of the three soil borings revealed soil PCE concentrations below TAGM values. In the summer of 2009, two new shallow SVE wells were installed. The soil from 4 to 6 feet in the location of the third boring was resampled in December 2010 and the results are now below TAGM levels. Therefore, we request permission to convert the SVE system to an SSD system as outlined in the SMP.

5.3 Sub-Slab Depressurization System

Monitoring of the SSD system will consist of checking to confirm that the SSD blowers are operating. A field technician visited the Site in June and December and confirmed that there was a flow of air out of the SSD system and that the blower was functioning.

Termination Criteria -The SSD systems will be terminated when monitoring of the indoor air confirms that there are no impacts to the indoor quality of the Cingular store (now an AT&T store) and the 3 adjoining stores after the SSD blowers have been turned off for a period of 30 days during winter conditions.

5.4 **Indoor Air Quality**

Indoor air samples were collected at the following locations on an annual basis during the winter heating season.

BUILDING

SAMPLE LOCATION & IDENTIFICATION

CDC/FF Site (Cingular Store) 47 Northern Blvd.

Ground Floor and Basement (Sample ID: PDM-1 and PDM-2)

Health Nut Store 45 Northern Blvd. No longer sampled

Cambridge Educational Center

55 Northern Blvd.

Basement (waiting room and NW Test Center)

(Sample ID: PDM-4 and PDM-5)

Outdoor Ambient Air

Behind Site Building (Sample ID: PDM-6)

New 3M sampling badges were brought out to the Site and exposed for a period of approximately 24-hours. The samples were analyzed by ELAP-approved Galson Laboratories for the analysis of PCE. Monitoring of the indoor air quality at locations PDM-1 through 2 and 4 through 6 will

continue as long as the soil vapor extraction and sub-slab depressurization systems are in operation or the NYSDEC indicates monitoring is no longer required.

During the December 2010 sampling event, the PCE levels at all locations were below the NYSDOH action level. Two samples in the basement of 55 Northern Blvd. was slightly above the NYSDOH background level. The December 2010 monitoring round results are included on Table 4

<u>Termination Criteria</u> - Once the air quality in the Cingular store (now an AT&T store) and the three adjoining stores remains at or below the established NYS background level for PCE (which is currently 10 ug/m³) during one round of sampling during the winter heating season with the SSD system turned off for a period of 30 days, the indoor air monitoring program will be terminated and the Site will be eligible for delisting from the Registry.

6.0 Operations & Maintenance Plan Compliance

Currently there are two mechanisms in place at the Site that continue to control subsurface soil vapor contamination. These include a SVE system and a sub-slab depressurization system. The components of these are described in Section 4 of this Report

6.1 SVE system

The following operations and maintenance procedures apply to the individual components of the SVE system and were employed during 2010.

SVE Blower

Monthly

- Check the vacuum gauge at the inlet and record value.
- Clean the inside and outside of the cooling fan.

Moisture Knock-Out Drum

- The water level in the drum should be checked once a month. Turn off the power to the blower, place a container in front of the drain valve at the bottom of the drum and open the drain valve. If water flows out of the drum, the drum should be drained and the water stored in a suitable plastic container with a water-tight lid. The system can then be restarted. Contact CA RICH to arrange for the proper disposal of the water.
- The moisture knock-out drum contains an air filter to prevent sediment from entering the blower. The filter should be checked every six months or after a significant increase in the measured vacuum at the inlet to the blower is observed. The filter element should be either cleaned or replaced depending on the condition of the element.

Vacuum Relief Valve

There are no periodic maintenance procedures recommended by the manufacturer.

Carbon Canisters

- The sampling ports on the discharge side of the blower (after the carbon filtration units) should be monitored quarterly using a Photo-Ionization Detector (PID) such as a MiniRae® 2000 and the values recorded. Once the meter indicates breakthrough of the carbon, CA RICH should be contacted to arrange for replacement of the carbon unit(s).
- There are no periodic maintenance procedures recommended by the manufacturer.

6.2 Sub-Slab Depressurization System

Currently, there is a Sub-Slab Depressurization (SSD) system operating in the basement of the existing building. The system consists of a perforated pipe buried beneath the basement floor that is connected to a Fantech® low pressure SSD blower that exhausts extracted soil vapor at a rate of approximately 150 cfm. Indoor air quality tests currently indicate that this system is effectively controlling any PCE vapors inside the building.

Operations & Maintenance procedures that apply to the Fantec® low pressure blower includes a physical inspection of the blower to confirm that air is being discharged and that the fan is operating. These inspection were performed during 2010.

7.0 Overall Periodic Review Report Conclusions and Recommendations

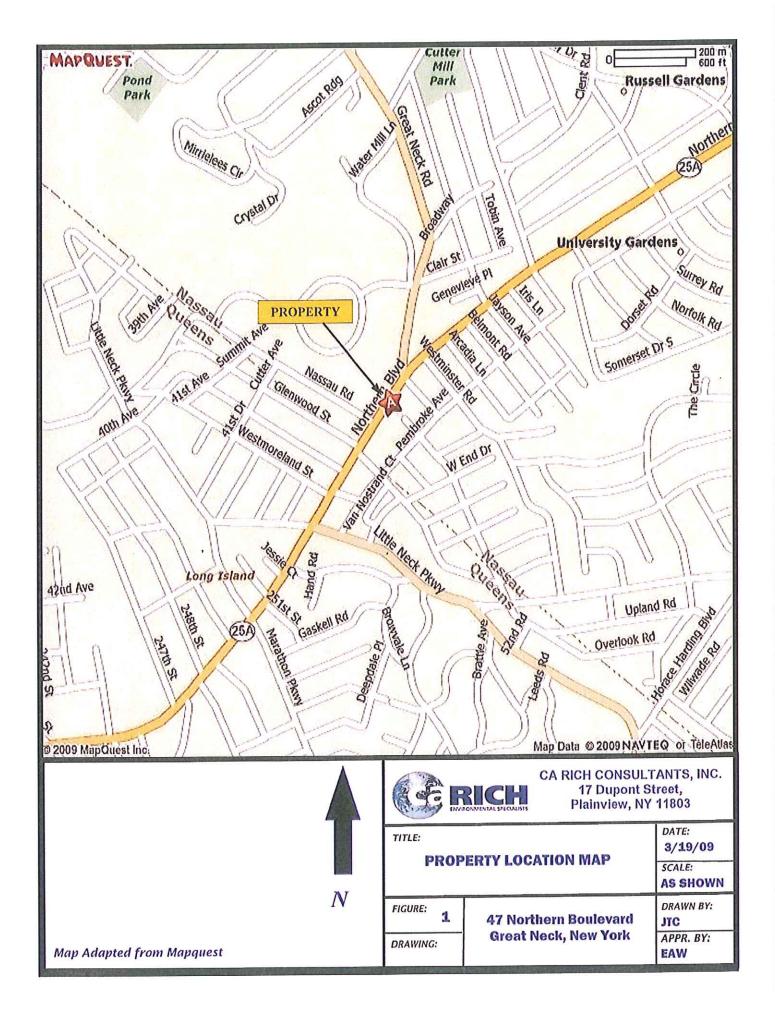
The corrective actions implemented at this Site has been evaluated by reviewing data collected at the Site, and they are deemed to be effective and protective.

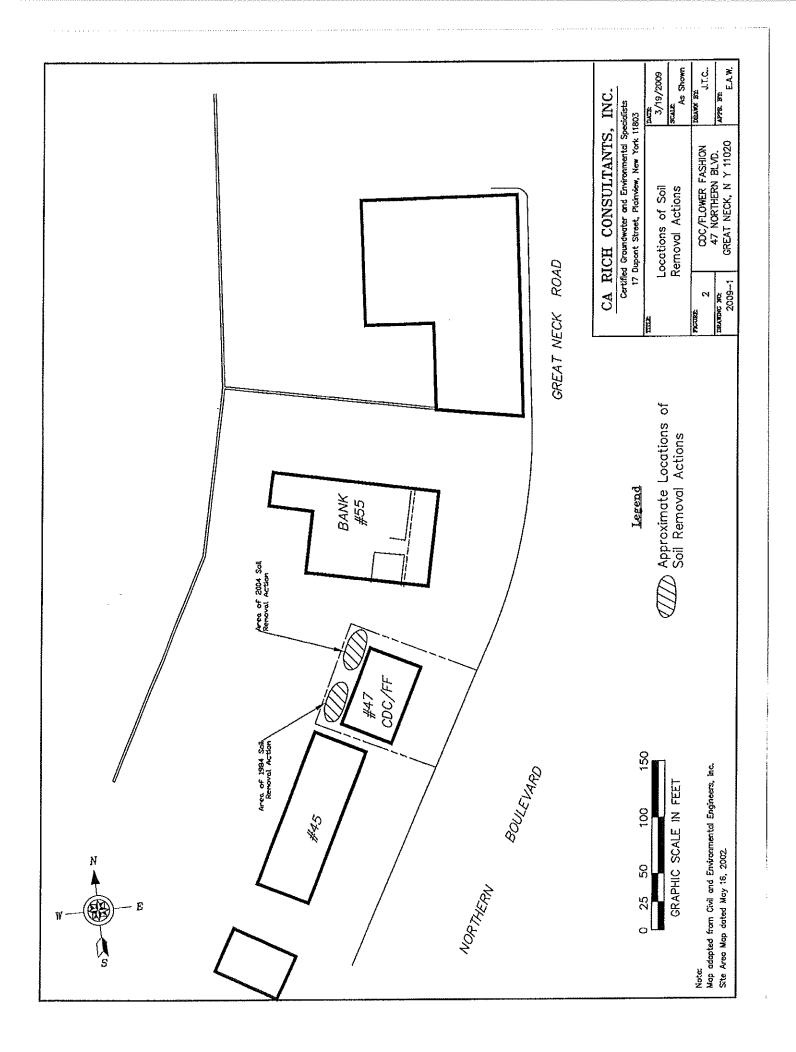
- Based on the results of the monitoring wells downgradient of the application site, the In-Situ Chemical Oxidation remedial effort is deemed to have been effective. Well MW-4, (the well that has historically had the highest PCE levels at the site), contained PCE at a concentration of 7.1 ug/l during the December 2010 sampling round, just slightly above the groundwater standard of 5.0 ug/l. Based on the historical analytical results, we request permission to terminate the program of annual groundwater monitoring at this site
- During 2009, three post-remediation soil borings were installed. The PCE levels in two of
 those borings were less than the TAGM levels. Since that time, two additional SVE wells
 have been installed at the Site. The soil from 4 to 6 feet in the location of the third boring
 was resampled in December 2010 and the results are now below TAGM levels. In
 accordance with the SMP, we request permission to convert the SVE system to a smaller
 and more energy efficient SSD system as outlined in the SMP.
- The operation of the existing SSD fan is checked on a regular basis. No operational
 problems have been reported during 2010. Based on the results of the indoor air
 samples collected in the AT&T store, the SSD system is deemed to have been effective
 and protective. No modifications to the SSD system are recommended at this time.
- Lastly, we recommend that the program of indoor air monitoring and inspection of the SSD system continue on an annual basis in accordance with the SMP.

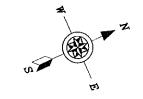
REFERENCES

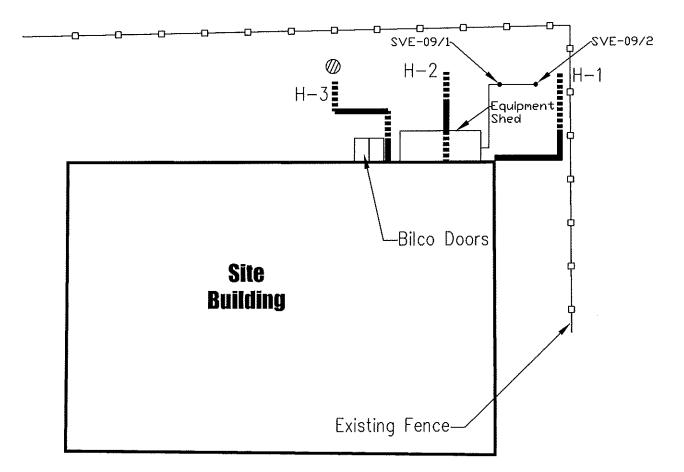
- 1. Cabot Kilburn, (1979), Hydrogeology of the Town of North Hempstead, Nassau County, Long Island, New York, USGS Long Island Water Resources Bulletin 12.
- 2. JR Kolmer + Associates, (February 1998), Citizen Development Company Final RI/FS Report.
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- 4. JR Kolmer + Associates, (December 2001), Operable Unit 2 Remedial Investigation Feasibility Study Report Flower Fashion Site.
- 5. CEC, Inc., (June 2002), Supplemental Remedial Investigation Work Plan Citizen Development Company, Great Neck, New York.
- 6. CEC, Inc., (October 2002), Groundwater Quality Data for the Flower Fashion Site.
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- 8. CA RICH, (January 2005), Interim Remedial Measures Report Part A, The Citizens Development Company / Flower Fashion Site, 47 Northern Blvd., Great Neck, New York.
- 9. CA RICH, (April 2005), Interim Remedial Measures Report Part B, Final Engineering Report and Operations, Maintenance & Monitoring Plan, The Citizens Development Company / Flower Fashion Site, 47 Northern Blvd., Great Neck, New York.
- CA RICH, (January 2006), Annual Groundwater and Indoor Air Monitoring Report December 2005, The Citizens Development Company / Flower Fashion Site, 47 Northern Blvd., Great Neck, New York.
- 11. NYSDEC, (January 24, 1994), Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objectives and Cleanup Levels.
- 12. CA RICH, (June 2006), Site Management Plan, The Citizens Development Company / Flower Fashion Site, 47 Northern Blvd., Great Neck, New York.
- 13. CA RICH, (July 2009), Post-Remediation Borings Report, The Citizens Development Company / Flower Fashion Site, 47 Northern Blvd., Great Neck, New York.
- CA RICH, (August 2009), Additional SVE Well Installation Report, The Citizens Development Company / Flower Fashion Site, 47 Northern Blvd., Great Neck, New York.
- CA RICH (April 2010) Additional Post-Remediation Borings Report, The Citizens Development Company / Flower Fashion Site, 47 Northern Boulevard, Great Neck, New York

Figures

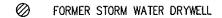








LEGEND



2-INCH DIAMETER 20 SLOT PVC PIPE

2-INCH DIAMETER PVC PIPE



GRAPHIC SCALE IN FEET

CA RICH CONSULTANTS, INC.

Certified Groundwater and Environmental Specialists 17 Dupont Street, Plainview, New York 11803

Stephen J. Osmundsen, P.E.

Consulting Engineer 514 Pantigo Road # 16, East Hampton New York 11937

LOCATION OF SUBSURFACE PIPING LAYOUT FOR SOIL VAPOR EXTRACTION SYSTEM

1/20/2010 SCALE:

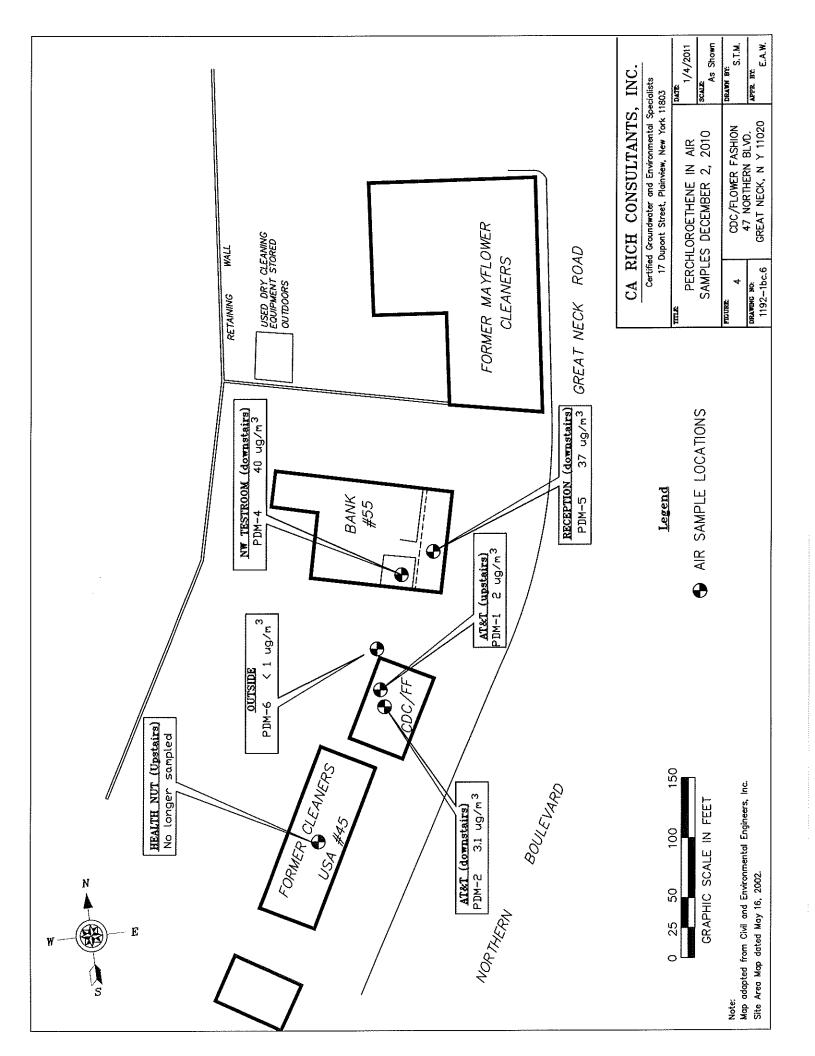
FIGURE:

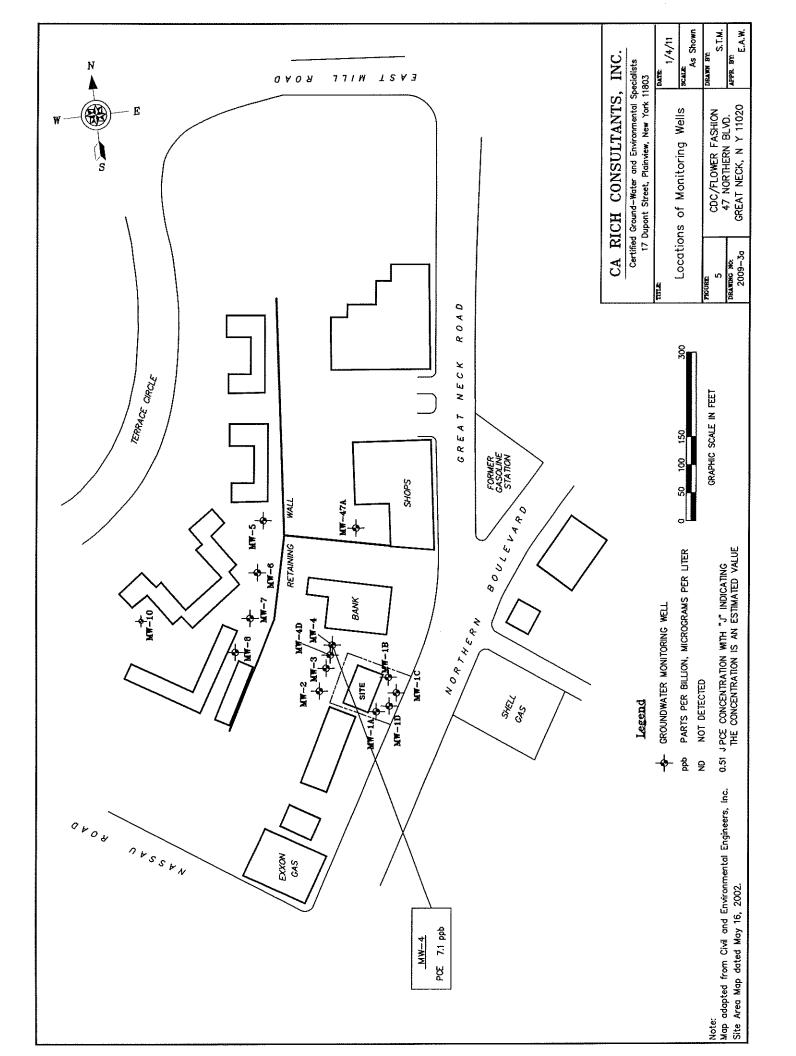
CDC/FLOWER FASHION 47 NORTHERN BLVD. DRAWING NO: 2009 - 2

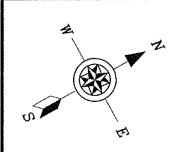
J.T.C.

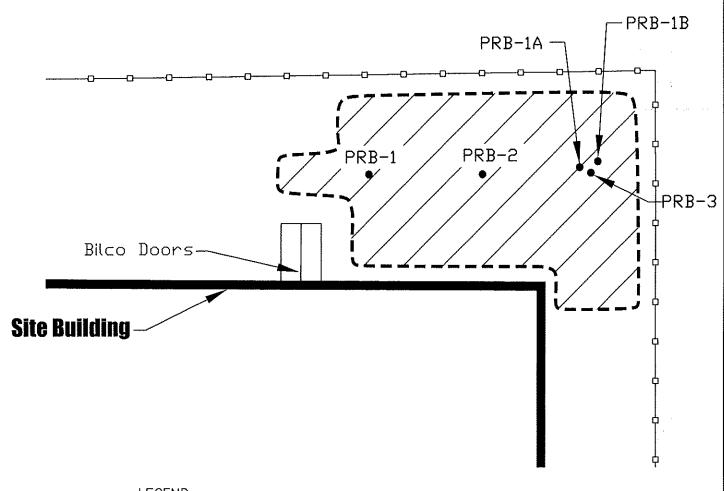
1" = 16'

APPR. BY: GREAT NECK, NY 11020









LEGEND

POST REMEDIATION BORING LOCATIONS

CHAIN LINK FENCE

SOIL EXCAVATION AREA

SEE TABLE 2 FOR RESULTS OF SOIL SAMPLES FROM BORINGS PRB-3, 1A, AND 1B

CA RICH CONSULTANTS, INC.

Certified Groundwater and Environmental Specialists 17 Dupont Street, Plainview, New York 11803

,, ,,		
тітьє: Ро	ost Remediation	DATE: 1/5/2010
В	oring Locations	SCALE: As Shown
FIGURE: 6	CDC/FLOWER FASHION	DRAWN BY: S.T.M.
drawing no: 2009-4	47 NORTHERN BLVD. GREAT NECK, NY 11020	APPR, BY: E.A.W.

0 10 20 30

GRAPHIC SCALE IN FEET

Tables

Table 1
Summary of Analytical Detections in Well MW-4
for Tetrachloroethene ("PCE") in Groundwater
Citizen Development Company - Flower Fashion Site

Well ID MW-4 MW-4 MW-4 MW-4 MW-4 MW-4 Date Sampled 02/01/91 03/01/91 04/01/91 05/01/91 05/01/91	D MW.	4 MW-4 91 03/01/91	MW-4 04/01/91	MW-4 05/01/91	MW-4 06/01/91	MW-4 07/01/91	MW-4 02/01/93 0	MW-4 N 3 03/01/93 07.	1W-4	MW-4 MW-4 10/01/99 10/01/00	MW-4 3/01/00 11	MW-4 MW-4 11/01/00 07/01/01	MW-4 1	MW-4 N	VIW-4 N (22/03 12/	17/03 06/	MW-4 MW-4 MW-4 MW-4 MW-4 10/08/02 01/22/03 12/17/03 06/15/04 10/21/04		MW-4 MV 10/26/04 10/2	MW-4 M 10/29/04 11//	MW-4 MV 1/05/04 12/10	MW-4 MV 12/16/04 03/2	N-4 MV 5/05 04/1:	MW-4 MW-4 MW-4 MW-4 MW-4 MW-4 MW-4 MW-4	4 MW '05 05/12/	4 MW-4 05 05/26/0	4 MW-4 15 06/14/0:	MW-4 5 12/06/05	MW-4 12/04/06	MW-4 2/26/07	MW-4 MW-4 MW-4 N 12/10/08 12/16/09 12/02/10	MW.4 12/16/09	MW-4 12/02/10	NYSDEC TOGS*
Votatile Organics	ķ																																	
Units	ts <u>ug/L</u>	T ug/L	ug/L	ng/L	UG/L	ua/L	ug/L	UG/L	UQ/L	ug/L	Ud/L	ng/L	ng/L	ng/L	ua/L	na/L u	ng/L	nd/L u	7/5/n	na/L. u	na/L ug	5n √7,5n	ug/L ug/L	T) na/F	<u>1,00/L</u>	_ <u>ua/L</u>	<u>1/5/1</u>	T/671	ug/L	UG/L	<u>1/67</u>	ug/L	뒒	T/On
Tetrachloroethene	ne 327	1,732	1,441	1,367	1,479	1,780	1,800	850	180	140	1 4	410	620	464	48.7	544 4	480 (670 5	520 40	400	610 64	640 46	460 290	0 210) 160	190	8.9	45.4	47.8	59	7.6	18.9	7.1	цэ
Comments	ş																Begi	Began Perm. Injections	Ender	Ēnded Perm. Injections														-

Notes:

ND: Indicates compound analyzed but not detected at labora *NYSDEC Technical and Operational Guidance Series (1.1.1) ug/l.: micrograms per liter or parts per billion. Ambient Water Quality Standards and Guidance Values; 10-22-93

H/projects/CDC-ff/graphs.wk4

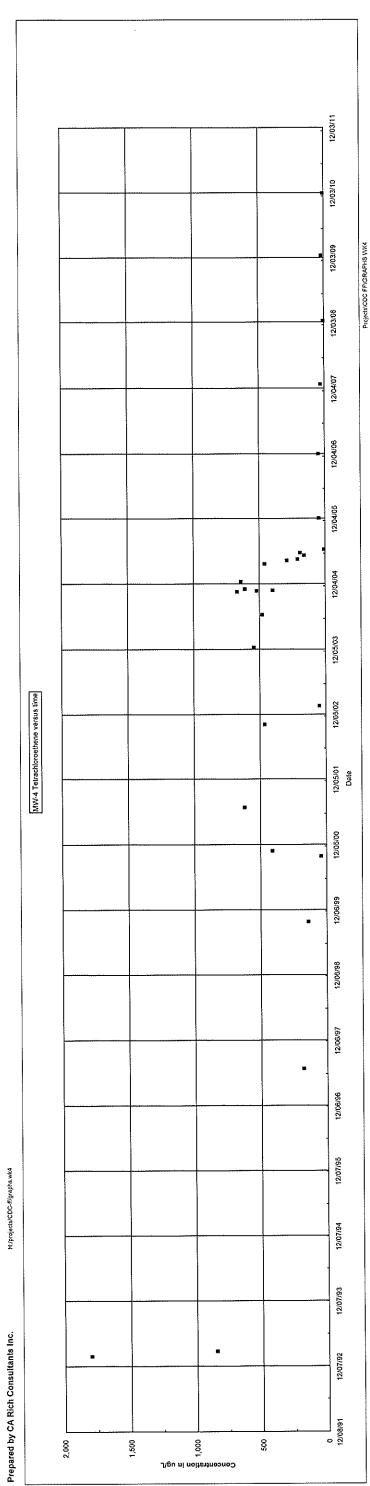


Table 2 Summary of VOCs in Soil Samples CDC/FF Site, Great Neck, New York

Ola Wiisabaal	DDD 02 (4.6)	PRB-01A	PRB-1B (4-6)	
Sample Number Boring Description	PRB-03 (4-6) 3rd boring from initial	Re-sampling adjacent to 3rd	Re-sampling adjacent to 3rd boring	
Boiling Description	sampling effort	boring from initial sampling effort	from initial sampling effort	NYSDEC
Depth in Feet	4 to 6	4 to 6	4 to 6	TAGM*
Date	6/9/2009	3/24/2010	12/2/2010	Standard
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg
J.1113				
1,1 Dichloroethane	< 1,100	< 6	< 5.8	NA
1,1 Dichloroethene	< 1,100	< 6	< 5.8	NA
1,1-Dichloropropene	< 1,100	< 6	< 5.8	NA
1,2 Dibromoethane	< 1,100	< 6	< 5.8	NA
1,2 Dichlorobenzene (v)	< 1,100	< 6	< 5.8	NA
1,2 Dichloroethane	< 1,100	< 6	< 1.2	NA
1,2 Dichloropropane	< 1,100	< 6	< 5.8	NA
1,3 Dichforobenzene (v)	< 1,100	< 6	< 5.8	NA
1,3-Dichloropropane	< 1,100	< 6	< 5.8	NA
1,4 Dichlorobenzene (v)	< 1,100	< 6	< 5.8	NA
111 Trichloroethane	< 1,100	< 6	< 5.8	NA NA
1112Tetrachloroethane	< 1,100	< 6	< 5.8	NA NA
112 Trichloroethane	< 1,100	< 6	< 5.8	NA NA
1122Tetrachloroethane	< 1,100	< 6	< 5.8 < 5.8	NA NA
123-Trichlorobenzene	< 1,100	< 6 < 6	< 5.8	NA NA
123-Trichloropropane	< 1,100		< 5.8	NA
124-Trichlorobenzene (v)	< 1,100	< 6 < 6	< 5.8	NA.
124-Trimethylbenzene	< 1,100 < 1,100	< 6	< 5.8	NA.
135-Trimethylbenzene	< 1,100 < 1,100	< 6	< 5.8	NA
2,2-Dichloropropane 2-Chlorotoluene	< 1,100	< 6	< 5.8	NA
4-Chlorotoluene	< 1,100	< 6	< 5.8	NA
Acetone	< 11,000	< 60	< 5.8	NA
Benzene	< 1,100	< 6	< 5.8	NA
Bromobenzene	< 1,100	< 6	< 5.8	NA
Bromochloromethane	< 1,100	< 6	< 5.8	NA
Bromodichloromethane	< 1,100	< 6	< 5.8	NA
Bromoform	< 1,100	< 6	< 5.8	NA
c-1,2-Dichloroethene	< 1,100	< 6	< 5.8	NA
c-1,3Dichloropropene	< 1,100	< 6	< 5.8	NA
Carbon Tetrachloride	< 1,100	< 6	< 5.8	NA
Chlorobenzene	< 1,100	< 6	< 5.8	NA
Chlorodibromomethane	< 1,100	< 6	< 5.8	NA
Chloroform	< 1,100	< 6	< 5.8	NA
DBCP	< 1,100	< 6	< 5.8	NA
Dibromomethane	< 1,100	< 6	< 5.8	NA
Ethyl Benzene	< 1,100	< 6	< 5.8	NA NA
Hexachlorobutadiene	< 1,100	< 6	< 5.8	NA NA
Isopropylbenzene	< 1,100	< 6	< 5.8	NA NA
m + p Xylene	< 2,300	< 12	< 5.8 < 5.8	NA NA
Methylene Chloride	< 1,100	< 6 < 6	< 5.8 < 5.8	NA NA
n-Propylbenzene	< 1,100	< 6 < 6	< 5.8	NA NA
Naphthalene(v)	< 1,100		< 5.8	NA.
o Xylene	< 1,100	< 6	< 5.8	NA
p-Isopropyitoluene sec-Butylbenzene	< 1,100 < 1,100	< 6	< 5.8	NA.
Sec-Butylberizene Styrene	< 1,100	< 6	< 5.8	NA
t-1.2-Dichloroethene	< 1,100	< 6	< 5.8	NA
t-1,3Dichloropropene	< 1,100	< 6	< 5.8	NA
tert-Butylbenzene	< 1,100	< 6	< 5.8	NA
Tetrachloroethene	1,500,000	8,700	3.0	1,400
Toluene	< 1,100	< 6	< 5.8	NA
Trichloroethene	< 1,100	< 6	< 5,8	NA
			1	
Trichlorofluoromethane	< 1,100	< 6	< 5.8	NA

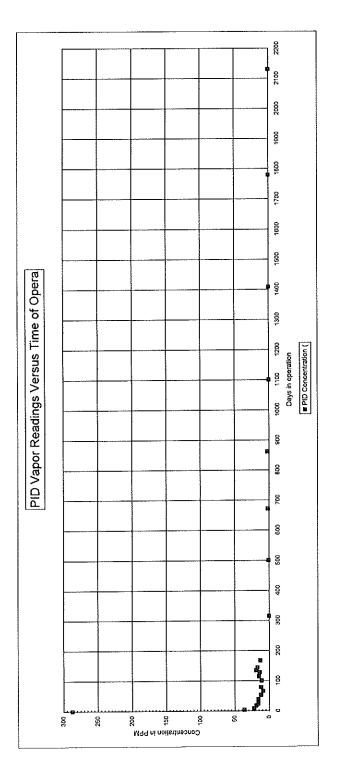
Notes: < = less than or not detected

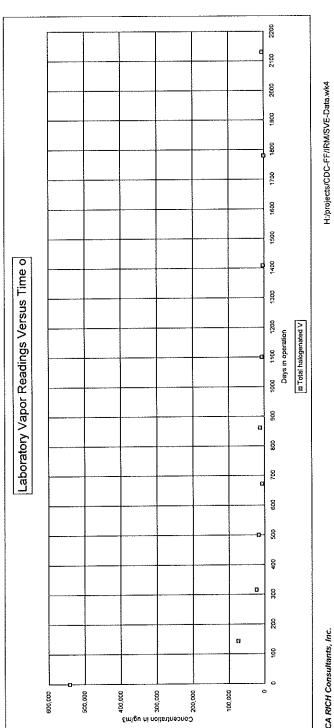
 ^{: &}lt;= less than or not detected
 NA = Not applicable as constituent is not detected
 *= NYSDEC (Jan. 24, 1994), Technical & Administrative Guidance
 Memorandum: Determination of Soil Cleanup Objectives and Cleanup Levels.
 ** = NYSDEC (Dec. 14, 2006) DER Part 375 Table 375-6.8(b) Restricted Use
 Soil Cleanup Objectives

Table 3
Soil Vapor Extraction Readings
Citizen Development Company - Flower Fashion
47 Northern Boulevard, Great Neck, NY

Comments	Pilot Test & System Start-up - tube sample		Inject 10 gals. (5%) sodium permanganate		Inject 10 gals. (5%) sodium permanganate		Inject 10 gals. (5%) sodium permanganate	Inject 10 gals. (5%) sodium permanganate		Inject 10 gals. (5%) sodium permanganate	Inject 10 gals. (5%) sodium permanganate	Inject 10 gals. (5%) sodium permanganate					Very Cold, Temp. may have effected PID		Annual Winter Sample	Summer		Annual Winter Sample	Annual Winter Sample	Annual Winter Sample
Total VOCs Before Carbon™	541,770														74,000		23,000	16,464	6,548	11,704	6,071	2,540	270.91	4403.54
Vinyl Chloride Before Carbon**	9														8		Q	6.4	6.7	8	9	2	2	ð
DCE Before Carbon™	670														2		9	83.0	41.2	æ	29	2	S	32.53
TCE Before Carbon™	1,100														2		9	9	82	98	4	53	0.91	29.01
PCE Before Carbon™	540,000		•												74,000		23,000	16,284	6,446	11,535	5,968	2,511	270	4342
MiniRae PID Before Carbon*	287	36	23	5	4	16	16	12	თ	12	-	15	4	19	17	51	0	-	1.7	2.1	N/A	2.0	0	0.3
Number of Days in Operation	0	4	6	18	24	32	39	53	99	62	101	115	128	135	4	168	316	501	672	862	1101	1409	1780	2131
Date	01/31/05	02/04/05	02/09/05	02/18/05	02/24/05	03/04/05	03/11/05	03/25/05	04/07/05	04/20/05	05/12/05	05/26/05	90/08/09	06/15/05	06/24/05	07/18/05	12/13/05	06/16/06	12/04/06	06/12/07	02/06/08	12/10/08	12/16/09	12/02/10

Notes: *- MiniRae PID field meter measures total VOCs in PPM ** - All laboratory analyses reported in ug/m3 ND - Non Detect.
N/A - Not Available due to PID maifunction.





CA RICH Consultants, Inc.

Table 4
Citizens Development Co./Flower Fashion Site
Summary of Perchloroethene Indoor Air Readings
Units - ug/m3

Sample #:	PDM-1	PDM-2	PDM-3	PDM-4	PDM-5	PDM-6*
Location:	Cingular/AT&T	Cingular/AT&T	Health Nut	55 No. Blvd. NW test rm.	55 No. Blvd. Reception	Outdoors
Level:	(Ground Fl.)	(Downstairs)	(Ground Fl.)	(Downstairs)	•	NA
<u>Date</u> 11/20/02	120	280	NA	170	150	7
12/02/03	27	18	4	47	47	6.4
06/15/04	22	27	6.6	39	39	10
12/17/04	47	52	5.5	70	91	2.6
06/23/05	4.5	8.3	1.4	8.8	10	5.7
12/13/05	2.5	1.6	<0.5	6.2	6.2	<0.5
12/04/06	2.3	1.4	<1.4	9.7	8.9	<1.4
12/27/07	8.5	3.4	2.0	59	48	15
02/06/08	5.2	3.9	2.6	22	48	6.1
03/27/08	NA	NA	NA	21	17	3
04/29/08	NA	NA	NA	29	34	7.1
05/29/08	NA	NA	NA	14	17	11
12/05/08	3.1	2.0	<1	19	11	2.9
12/17/09	<1	<1	NA	30	32	<1
12/02/10	2	3.1	NA	40	37	<1

Notes:

- 1-AT&T store now known as Cingular
- 2-Subslab venting system in basement of AT&T installed during the Spring of 2002
- 3-SVE system in rear yard installed January 2005
- 4-November 20, 2002 samples collected and analyzed by NYSDOH
- 5-December 27, 2007 SVE system shut down for unknown time period (<1 month)
- 6-January 25, 2008 SVE repairs completed and system restarted
- 7- Additional SVE wells added during August 2009
- * Outdoor air sample

NA - Not Analyzed

See attached Figure 4 for sample locations

Enclosures



Enclosure 1 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



		•	· · · · · · · · · · · · · · · · · · ·	David	
s	Site No.	130070	Site Details	Box 1	
5	Site Name	Citizens Development Co.			
5	Site Addres	s: 47 Northern Boulevard	Zip Code: 11020		
C	City/Town:	Great Neck	,		
C	County: Na:	ssau			
Α	Allowable U	ise(s) (if applicable, does not a	ddress local zoning): Industriál		
S	ite Acreag	e: 1.0			
				Bo	ox 2
		Ve	erification of Site Details	YES	NO
1	. Are the	Site Details above, correct?		X	D 1
	If NO, a	re changes handwritten above	or included on a separate sheet?		
2.	. Has son tax map	ne or all of the site property be amendment since the initial/la	een sold, subdivided, merged, or undergone a ast certification?		X
	If YES, I submitte	is documentation or evidence to included with this certification.	that documentation has been previously on?		
3.	. Have an for or at	y federal, state, and/or local p the property since the initial/la	ermits (e.g., building, discharge) been issued est certification?	D	X
	If YES, I submitte	s documentation (or evidence d) included with this certificati	that documentation has been previously on?		
4.	If use of restrictio	the site is restricted, is the cur	rent use of the site consistent with those	X	
	If NO, is	an explanation included with t	his certification?		
5.	here any	significant-threat Brownfield C new information revealed that nent regarding offsite contamir	leanup Program Sites subject to ECL 27-1415. assumptions made in the Qualitative Exposure nation are no longer valid?	7(c),	
	If YES, is submitte	s the new information or evide d included with this Certificatio	nce that new information has been previously on?		
6.	are the a	significant-threat Brownfield C ssumptions in the Qualitative every five years)?	leanup Program Sites subject to ECL 27-1415. Exposure Assessment still valid (must be	7(c),	G G

SITE NO. 130070

Box 3

Description of Institutional Controls.

<u>Parcel</u>

:

Institutional Control

S_B_L Image: 0020051202

Decision Document

Ground Water Use Restriction

Box 4

Description of Engineering Controls

Engineering Control

S_B_L Image: 0020051202

Vapor Mitigation

Attach documentation if IC/ECs cannot be certified or why IC/ECs are no longer applicable. (See instructions)

Control Description for Site No. 130070

Parcel: 0020051202

The OU-2 ROD calls for institutional controls in the form of an environmental easement to restrict groundwater use and continued OM&M of the soil vapor extraction system and the active sub-slab depressurization system.

		Box 5	
	Periodic Review Report (PRR) Certification Statements		
1.	I certify by checking "YES" below that:		
	 a) the Periodic Review report and all attachments were prepared under the direction reviewed by, the party making the certification; 	of, and	
	b) to the best of my knowledge and belief, the work and conclusions described in this	certifica	tion
	b) to the best of my knowledge and belief, the work and constant and generally are in accordance with the requirements of the site remedial program, and generally a	YES	NO
2.	If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for ea or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that al following statements are true:	ch Institu I of the	itional
a) Coi	the Institutional Control and/or Engineering Control(s) employed at this site is unchanged nitrol was put in-place, or was last approved by the Department;	since the	date that the
b) he	nothing has occurred that would impair the ability of such Control, to protect public health environment;	and	
SV6	access to the site will continue to be provided to the Department, to evaluate the remedy, sluate the continued maintenance of this Control;		
d) Cor	nothing has occurred that would constitute a violation or failure to comply with the Site Ma ntrol; and	nageme	nt Plan for this
e)	if a financial assurance mechanism is required by the oversight document for the site, the is sufficient for its intended purpose established in the document.	mechani	sm remains valid
		YES	NO
		X	
3.	If this site has an Operation and Maintenance (O&M) Plan (or equivalent as required in the	e Decisio	n Document);
	I certify by checking "YES" below that the O&M Plan Requirements (or equivalent as requirement) are being met.		
	,	X	
	If this site has a Monitoring Plan (or equivalent as required in the remedy selection docum	ent);	
	I certify by checking "YES" below that the requirements of the Monitoring Plan (or equivalently by checking "YES" below that the requirements of the Monitoring Plan (or equivalently by checking "YES" below that the requirements of the Monitoring Plan (or equivalently by checking "YES" below that the requirements of the Monitoring Plan (or equivalently by checking "YES" below that the requirements of the Monitoring Plan (or equivalently by checking "YES" below that the requirements of the Monitoring Plan (or equivalently by checking "YES" below that the requirements of the Monitoring Plan (or equivalently by checking "YES" below that the requirements of the Monitoring Plan (or equivalently by checking "YES" below that the requirements of the Monitoring Plan (or equivalently by checking "YES" below that the requirements of the Monitoring Plan (or equivalently by checking "YES" below that the requirements of the Monitoring Plan (or equivalently by checking "YES" below that the requirements of the Monitoring Plan (or equivalently by checking "YES" below the properties of the Monitoring Plan (or equivalently by checking "YES" below the properties of the properties of the Monitoring Plan (or equivalently by checking "YES" below the properties of the Monitoring Plan (or equivalently by checking "YES" by the properties of the properties of the Monitoring Plan (or equivalently by checking "YES" by the properties of the		quired
	in the Decision Document) is being met.	YES	NO
	·	×	
	_ ,		
	•		

IC CERTIFICATIONS SITE NO. 130070

Βοχ θ

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE I certify that all information and statements in Boxes 2 and/or 3 are true, 1 understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.
PETER GALLETYA at 111-15 QUEETOS BLUD, FORNEST HAS
am certifying asOCONER(Owner or Remedial Party)
for the Site named in the Site Details Section of this form.
Signature of Owner or Remedial Perty Rendering Certification Date
IC/EC CERTIFICATIONS Box 7
QUALIFIED ENVIRONMENTAL PROFESSIONAL (QEP) SIGNATURE I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210,45 of the Penal Law.
Pric Weinstock at CARich, 17 Dufont St., Mainview NY 11803
em certifying as a Qualified Environmental Professional for the
(Owner or Remedial Party) for the Site named in the Site Details Section of this form.
THE OF PROFECOION AND THE PROFEC
Enci Venstell State Berger Date
Signature of Qualified Environmental Professional, for Internation Slamp (ERENIMED) Date

Appendix A Groundwater Laboratory Results With DUSR

Premier Environmental Services

DATA USABILTY SUMMARY REPORT (DUSR)
OF THE
CDC FLOWER STATION SITE
GREAT NECK, NEW YORK

ORGANIC ANALYSES IN AQUEOUS AND NON-AQUEOUS SAMPLES

ACCUTEST LABORATORIES, INC. DAYTON, NEW JERSEY

LABORATORY REPORT: JA63130

February, 2011.

Prepared for C.A. Rich Consultants, Inc. Plainview, New York

Prepared by
Premier Environmental Services
2815 Covered Bridge Road
Merrick, New York 11566
(516)223-9761

NYS DEC Data Usability Summary Report

DATA VALIDATION FOR: Volatile Organic Analyses

(EPA Method 8260B)

SITE: CDC- Flower Station

Great Neck, NY

CONTRACT LAB: Accutest Laboratories, Inc.

Dayton, New Jersey

LAB REPORT NO.: JA63130

REVIEWER: Rence Cohen

DATE REVIEW COMPLETED: February, 2011

MATRIX: Aqueous and Non-Aqueous

The data validation was performed according to the guidelines in the described in the New York State Department of Environmental Conservation, Division of Environmental Remediation, Guidance for the Development of Data Usability Summary Reports (DUSR). In addition the data was been reviewed using the protocol specified in the NYS Analytical Services Protocol ('95).

All data are considered valid and acceptable except those analytes which have been rejected "R" (unreliable/unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material, "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All actions are detailed on the attached sheets. A copy of the data qualifiers that may be used in this report is located in Appendix A of this report. Appendix B of this report contains a copy of each sample result page associated with this data set. When data qualifiers were necessary they have been added to these result pages.

Several factors should be noted for all persons using this data. Persons using this data should be aware that no result is guaranteed to be accurate even if it has passed all QC tests. The main purpose of this review is to appropriately qualify outliers and to determine whether the results presented meet the specific site/project criteria for data quality and data use.

This data assessment includes two (2) non-aqueous samples, two (2) aqueous samples, two (2) Field Blank samples and one (1) Trip Blank sample collected December 2, 2010. The samples associated with this data set are summarized in Table 1 of this report. All of the samples were delivered to Accutest Laboratories, located in Dayton, New Jersey. The samples were received at the laboratory on December 3, 2010. All samples were received in good condition. The samples were analyzed for Volatile Organic Analytes (EPA Method 8260B) as specified on the Chain of Custody (COC) documentation that accompanied the samples to the laboratory. A copy of the COC documents associated with this data set is located in Appendix C of this report.

DATA USABILITY SUMMARY REPORT (DUSR)

1. OVERVIEW:

Two (2) non-aqueous, two (2) aqueous samples, two (2) Field Blank samples and one (1) Trip Blank sample were submitted to the laboratory for the analyses requested on the Chain of Custody (COC) documentation. The samples were analyzed for Volatile Organic Analytes using EPA Test Methods for the Evaluation of Solid Waste (SW 846), Method 8260B. The laboratory reported the Halogenated Volatile Organic Compounds. The laboratory provided a deliverables package in accordance with the guidelines in the NYSDEC ASP, Rev '95, Category B.

2. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Preserved volatile organic analyses are required to be analyzed within 10 days of validated time of sample receipt (VTSR) in accordance with the NYSDEC ASP, Rev '95. The technical holding time for properly preserved aqueous and non-aqueous samples is 14 days from collection.

The aqueous and non-aqueous samples in this data set were analyzed for Volatile Organic Analytes. The samples and associated QC samples were analyzed within the ten (10) days of VTSR. All sample analyses were completed by December 9, 2010. The holding times for all analyses associated with this data set were met.

3. SURROGATES:

All samples are spiked with surrogate compounds prior to sample preparation to evaluate the overall laboratory performance and the efficiency of the analytical technique. If the measured surrogate concentrations are outside the QC limits, qualifiers were applied to the effected samples.

Each sample was spiked with the surrogate compounds Dibromofluoromethane, 1,2-Dichloroethane-d4, 4-Bromofluorobenzene and Toluene-d8. In-house surrogate recovery limits were reported by the laboratory. The percent recovery of each surrogate met QC criteria in each of the field samples and QC samples associated with this data set.

4. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data. The laboratory used the in-house generated recovery criteria and RPD (precision) data for reporting purposes.

Additional sample volume was collected at location MW-4 for MS/MSD analysis. Accutest Laboratories performed a full component MS/MSD and reported the percent recovery of each target analyte and relative percent difference on this summary form. A review of the percent recoveries and relative percent differences was performed. 2-Chloroethylvinyl ether was not detected in either the MS or MSD sample due to the preservation of the VOA vial. Data was not qualified based on the percent recovery or the RPD of the site specific MS/MSD sample set.

In addition to the site specific MS/MSD analysis was performed on sample PRB-1B (4-6). The matrix spike sample was fortified with all target analytes. The percent recovery of all target analytes and each RPD met QC criteria.

In addition one (1) Blank Spike sample is associated with each sample batch as required by the method. The Blank spike sample was fortified with all target analytes. The recover of all analytes in each of the blank spike samples met QC criteria.

5. BLANK CONTAMINATION:

Quality assurance (QA) blanks, such as the method, trip, field, or rinse blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations. Samples are then qualified based on blank contamination when detected.

A) Method Blank contamination

Three (3) aqueous method blank samples are associated with this data set. Each was free from contamination of all target analytes.

B) Field Blank contamination

One (1) aqueous and one (1) non-aqueous Field Blank sample are reported with set. The non-aqueous sample Field Blank sample (PRBFB12210) was free from contamination of all target analytes. The aqueous sample Field Blank sample (MW4FB122110) was free from contamination of all target analytes.

C) Trip Blank contamination

The Trip Blank sample (TRIP BLANK) was free from contamination of all target analytes.

6. GC/MS CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument is giving satisfactory daily performance. USEPA data validation criteria is the same for all analytes in both GC/MS Volatile and GC/MS Semivolatile Organic analyses, therefore, all text discussion is for VOA and SVOA samples analyses.

A) RESPONSE FACTOR

The response factor measures the instrument's response to specific chemical compounds. USEPA data review requires that the response factor of all analytes be greater than or equal to 0.05 in both initial and continuing calibration analyses. A value less than 0.05 indicates a serious detection and quantitation problem (poor sensitivity). USEPA data validation criteria states that if the minimum RRF criteria are not met in an initial calibration the positive results are qualified "J". Non-detect results in the initial calibration with a RRF <0.05 are qualified "R", unusable. If RRF criteria is not met in the continuing calibration curve analysis, affected positive analytes will be qualified "J" estimated. Those analytes not detected are not qualified. The SW-846 Methods cite specific analytes known as System Performance Check Compounds (SPCC). Minimum response criteria has been set for these analytes. If the minimum criteria are not met, analyses must stop and the source of problems must be found and corrected. Data associated with this set has been reviewed for the criteria in the cited in the EPA Method and the USEPA criteria.

One (1) aqueous initial calibration curve and one (1) non-aqueous calibration curve analysis is associated with this data set. The laboratory performed an aqueous initial multi-level calibration on December 2, 2010 (Inst. 4D). The RRF for all target compounds met QC criteria in this initial calibration curve.

One (1) continuing calibration standard is associated with this data set. The response factor for all target analytes met QC criteria in this continuing calibration standard analysis.

The laboratory performed a non-aqueous initial multi-level calibration on December 1, 2010 (Inst. V). The RRF for all target compounds.

Two (2) continuing calibration standard is associated with this data set. The response factor for all target analytes met QC criteria in this continuing calibration standard analysis.

6. GC/MS CALIBRATION (cont'd):

B) PERCENT RELATIVE STANDARD DEVIATION (RSD) AND PERCENT DIFFERENCE (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the compounds in the continuing calibration standard to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Region II data validation criteria states that the percent RSD of the initial calibration curve must be less than or equal to 30%. The %D must be <25% in the continuing calibration standard. This criteria has been applied to all target analytes. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects may be flagged "UJ", based on professional judgment. If %RSD and %D grossly exceed QC criteria (>90%), non-detects data may be qualified "R", unusable. Data associated with this set has been reviewed for the criteria in the cited in the USEPA Data Validation Guidelines.

One (1) aqueous initial calibration curve and one (1) non-aqueous calibration curve analysis is associated with this data set. The laboratory performed an aqueous initial multi-level calibration on December 2, 2010 (Inst. 4D). The %RSD of all target compounds met QC criteria in this initial calibration curve.

One (1) continuing calibration standard is associated with this data set. The %Difference/%Drift for all target analytes met QC criteria in this continuing calibration standard analysis.

The laboratory performed a non-aqueous initial multi-level calibration on December 1, 2010 (Inst. V). The %RSD for all target compounds met QC criteria in this initial calibration curve.

Two (2) continuing calibration standard is associated with this data set. The %Difference/%Drift factor for all target analytes met QC criteria in each of these continuing calibration standard analyses with the exception of that listed below:

File ID	Date of Analysis	Analyte	%Difference
V110209.D	12/9/10	Bromodichloromethane	26.1
		Trans 1,3-Dichloropropene	27.2
		1,1,2-Trichloroethane	27.8
		Tetrachloroethene	27.0
		Dibromochloromethane	26.8
		Bromoform	31.0

This continuing calibration standard analysis is associated with the site specific MS/MSD analysis of sample PRB-1B (4-6). All other non-aqueous samples in this data set were analyzed with the CCV standard V110227.D in which all %Difference/%Drift criteria were met.

7. GC/MS MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is Bromofluorobenzene (BFB). If the mass calibration is in error, or missing, all associated data will be classified as unusable, "R".

All BFB Instrument Tuning criteria were met for these sample analyses.

8. GC/MS INTERNAL STANDARDS PERFORMANCE:

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every run. The method recommends that the internal standard area count must not vary by more than a factor of 2 (-50%to +100%) from the associated continuing calibration standard. The method recommends that the retention time of the internal standard must not vary more than ±30 seconds from the associated continuing calibration standard. The EPA CLP validation guidelines state that if the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified estimated, "J", and all non-detects below 50% are qualified "UJ", non detects above 100% should not be qualified or "R" if there is a severe loss of sensitivity. The internal standard evaluation criteria are applied to all field and QC samples.

All samples were fortified with the internal standards Tert Butyl Alcohol-d9, Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4. All internal standard area criteria were met n each of the samples associated with this data set.

9. COMPOUND IDENTIFICATION:

Target compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within \pm 0.06 RRT units of the standard compound, and have an ion spectra which has a ratio of the primary and secondary ion intensities with 20% of that in the standard compound.

The samples in this data set were analyzed in accordance with EPA Method 8260B. The Halogenated list of analytes was reported. The samples in this data set were all analyzed and reported without dilution to the laboratory reporting limit. The laboratory provided the sample chromatogram, quantitation report and spectra for the positive hits detected in each of the samples in this sample set. The sample data was reported in accordance with the cited method.

10. FIELD DUPLICATE ANALYSES:

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Soil samples will have a greater variance due to the difficulties associated with collecting exact duplicate soil samples than aqueous samples. If the RPD among sample duplicates was greater than thirty-five (35) for sample results above the method detection limit the data was qualified based on the actions cited in the validation guidelines used to review this data set. Analytes reported above the reporting limit are listed.

CA Rich Consultants collected one (1) non-aqueous and one (1) aqueous sample in duplicate in this data set. Below is a summary of detected analytes in these field duplicate sample analyses.

Sample ID: PRB-1B (4-6) (JA63130-1)/MW-XX (JA63130-5)

Analyte	Result	Result	RPD
	(ug/kg)	(ug/kg)	(%)
Tetrachloroethene	3.0 J	0.92 J	>100

Sample ID: MW-4 (JA63130-4)/PRB-XX (JA63130-2)

Analyte	Result	Result	RPD
	(ug/l)	(ug/l)	(%)
Tetrachloroethene	7.1	6.3	11.9

The results of the duplicate sample data are reported above. Tetrachloroethene has been qualified "J" estimated in the soil sample field duplicate sample set. The aqueous field duplicate analysis met the criteria described in the validation guidelines.

Qualified data result pages are located in Appendix B of this report.

11. OVERALL ASSESSMENT:

Analytical QC criteria were met for these analyses. The data reported agrees with the raw data provided in the final report. The laboratory reported the sample data using acceptable protocols and laboratory qualifiers as defined in the report package. The data provided for this data set is acceptable for use with the noted data qualifiers.

A copy of the data result pages is located in Appendix B of this report. Qualifiers when applied are noted on these data result pages.

TABLE 1

CLIENT SAMPLE ID LABORATORY SAMPLE ID

PRB-1B(4-6)	JA63130-1
PRB-1B(4-6)MS	JA63130-1MS
PRB-1B(4-6)MSD	JA63130-1MSD
PRB-XX	JA63130-2
PRBFB12210	JA63130-3
MW-4	JA63130-4
MW-4MS	JA63130-4MS
MW-4MSD	JA63130-4MSD
MW-XX	JA63130-5
MW-4FB122110	JA63130-6
TRIP BLANK	JA63130-7

APPENDIX A

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
- NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are unreliable/unusable. The presence or absence of the analyte cannot be verified.
- K The analyte is present. The reported value may be biased high. The actual value is expected to be lower than reported.
- L The analyte is present. The reported value may be biased low. The actual value is expected to be higher than reported.
- UL The analyte was not detected, and the reported quantitation limit is probably higher than reported.

APPENDIX B

Accutest Laboratories

Report of Analysis

By

JLI

Page 1 of 2

Client Sample ID: PRB-1B(4-6)

Lab Sample ID: JA63130-1 Date Sampled: 12/02/10

Matrix: Method: SO - Soil SW846 8260B

DF

1

Date Received: Percent Solids: 93.1

Prep Date

n/a

12/03/10

n/a

Project:

Flower Station, 47 Northern Boulevard, Great Neck, NY

Analyzed

12/09/10

Prep Batch Analytical Batch VV4662

Run #1 Run #2

Initial Weight

V110233.D

File ID

Run #1 4.6 g

Run #2

VOA Halogenated List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-27-4	Bromodichloromethane	ND	5.8	0.30	ug/kg	
75-25-2	Bromoform	ND	5.8	0.18	ug/kg	
74-83-9	Bromomethane	ND	5.8	0.47	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.8	0.65	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	0.40	ug/kg	
75-00-3	Chloroethane	ND	5.8	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	29	0.48	ug/kg	
67-66-3	Chloroform	ND	5.8	0.37	ug/kg	
74-87-3	Chloromethane	ND	5.8	0.19	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.8	0.32	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.8	0.32	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.8	0.39	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.8	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.40	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.8	0.77	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.8	0.28	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.8	0.52	ug/kg	
540-59-0	1,2-Dichloroethene (total)	ND	5.8	0.28	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	0.15	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	0.11	ug/kg	
75-09-2	Methylene chloride	ND	5.8	0.26	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	0.34	ug/kg	
127-18-4	Tetrachloroethene	3.0	5.8	0.17	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	5.8	0.15	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	0.22	ug/kg	
79-01-6	Trichloroethene	ND	5.8	0.61	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.8	0.27	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	0.21	ug/kg	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Page 2 of 2

Client Sample ID: PRB-1B(4-6) Lab Sample ID: JA63130-1

> SO - Soil SW846 8260B

Date Sampled: 12/02/10 Date Received: 12/03/10 Percent Solids: 93.1

Method: Project:

Matrix:

Flower Station, 47 Northern Boulevard, Great Neck, NY

VOA Halogenated List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		67-127%
17060-07-0	1,2-Dichloroethane-D4	86%		65-132%
2037-26-5	Toluene-D8	108%		74-129%
460-00-4	4-Bromofluorobenzene	85%		62-138%



MDL - Method Detection Limit

 $RL = Reporting \ Limit$

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

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Page 1 of 2

 Client Sample ID:
 PRB-XX

 Lab Sample ID:
 JA63130-2
 Date Sampled:
 12/02/10

 Matrix:
 SO - Soil
 Date Received:
 12/03/10

 Method:
 SW846 8260B
 Percent Solids:
 88.2

Project: Flower Station, 47 Northern Boulevard, Great Neck, NY

File ID Ву DF Analyzed Prep Date Prep Batch **Analytical Batch** Run #1 V110234.D 12/09/10 1 JLI n/a n/a VV4662 Run #2

Initial Weight

Run #1 4.6 g

Run #2

VOA Halogenated List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-27-4	Bromodichloromethane	ND	6.2	0.32	ug/kg	
75-25-2	Bromoform	ND	6.2	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.2	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.2	0.68	ug/kg	
108-90-7	Chlorobenzene	ND	6.2	0.42	ug/kg	
75-00-3	Chloroethane	ND	6.2	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	31	0.51	ug/kg	
67-66-3	Chloroform	ND	6.2	0.39	ug/kg	
74-87-3	Chloromethane	ND	6.2	0.20	ug/kg	
124-48-1	Dibromochloromethane	ND	6.2	0.14	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.2	0.33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.2	0.34	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.2	0.42	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.2	1.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.2	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.43	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.2	0.82	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.2	0.29	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.2	0.55	ug/kg	
540-59-0	1,2-Dichloroethene (total)	ND	6.2	0.29	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.2	0.16	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.2	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.2	0.12	ug/kg	
75-09-2	Methylene chloride	ND	6.2	0.27	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.2	0.36	ug/kg	
127-18-4	Tetrachloroethene	0.92 丁	6.2	0.18	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	6.2	0.16	ug/kg	25
79-00-5	1,1,2-Trichloroethane	ND	6.2	0.23	ug/kg	
79-01-6	Trichloroethene	ND	6.2	0.65	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.2	0.28	ug/kg	
75-01-4	Vinyl chloride	ND	6.2	0.22	ug/kg	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 2 of 2

Client Sample ID: PRB-XX Lab Sample ID: JA63130-2 Matrix: SO - Soil Method:

SW846 8260B

Date Sampled: 12/02/10 Date Received: 12/03/10 Percent Solids: 88.2

Project:

Flower Station, 47 Northern Boulevard, Great Neck, NY

VOA Halogenated List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		67-127%
17060-07-0	1,2-Dichloroethane-D4	88%		65-132%
2037-26-5	Toluene-D8	109%		74-129%
460-00-4	4-Bromofluorobenzene	83%		62-138%



MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

 $B \,=\, Indicates \ analyte \ found \ in \ associated \ method \ blank$





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Client Sample ID: PRBFB12210 Lab Sample ID: JA63130-3 Matrix: AO - Field Bl:

AQ - Field Blank Soil

Date Sampled: 12/02/10
Date Received: 12/03/10

Method: SW846 8260B Percent Solids: n/a
Project: Flower Station, 47 Northern Boulevard, Great Neck, NY

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 4D04783.D 1 12/08/10 MMC n/a n/a V4D210 Run #2

Purge Volume

Run #1 5.0 ml

Run #2

VOA Halogenated List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	4.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.26	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.4	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/I	
74-87-3	Chloromethane	ND	1.0	0.29	ug/I	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.92	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.22	ug/I	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.25	ug/I	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.27	ug/I	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.27	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.24	ug/I	
75-69-4	Trichlorofluoromethane	ND	5.0	0.54	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





Client Sample ID: PRBFB12210

Lab Sample ID:JA63130-3Date Sampled:12/02/10Matrix:AQ - Field Blank SoilDate Received:12/03/10Method:SW846 8260BPercent Solids:n/a

Project: Flower Station, 47 Northern Boulevard, Great Neck, NY

VOA Halogenated List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		76-120%
17060-07-0	1,2-Dichloroethane-D4	95%		64-135%
2037-26-5	Toluene-D8	102%		76-117%
460-00-4	4-Bromofluorobenzene	100%		72-122%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



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of 2

Client Sample ID: MW-4
Lab Sample ID: JA63130-4
Matrix: AO - Ground

Matrix: AQ - Ground Water Method: SW846 8260B

Date Received: 12/03/10
Percent Solids: n/a

Date Sampled: 12/02/10

Project:

Flower Station, 47 Northern Boulevard, Great Neck, NY

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch
Run #1 4D04782.D 1 12/08/10 MMC n/a n/a V4D210

Run #2

Purge Volume

Run #1 5.0 ml

Run #2

VOA Halogenated List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	4.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.26	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.4	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.92	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.22	ug/I	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.25	ug/I	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/I	
127-18-4	Tetrachloroethene	7.1	1.0	0.27	ug/I	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/I	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.24	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.54	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



4

Client Sample ID: MW-4

Lab Sample ID:JA63130-4Date Sampled:12/02/10Matrix:AQ - Ground WaterDate Received:12/03/10Method:SW846 8260BPercent Solids:n/a

Project: Flower Station, 47 Northern Boulevard, Great Neck, NY

VOA Halogenated List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		76-120%
17060-07-0	1,2-Dichloroethane-D4	93%		64-135%
2037-26-5	Toluene-D8	103%		76-117%
460-00-4	4-Bromofluorobenzene	101%		72-122%



MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 2

Client Sample ID: MW-XX

Lab Sample ID: Matrix: Method:

JA63130-5 AQ - Ground Water SW846 8260B

Date Received: 12/03/10 Percent Solids: n/a

Date Sampled: 12/02/10

Project:

Flower Station, 47 Northern Boulevard, Great Neck, NY

File ID DF Analyzed Ву Prep Date Analytical Batch Prep Batch Run #1 4D04784.D 1 12/08/10 **MMC** n/a V4D210 n/a

Run #2

Purge Volume 5.0 ml

Run #1

Run #2

VOA Halogenated List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	4.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.26	ug/I	
108-90-7	Chlorobenzene	ND	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.4	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.92	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.22	ug/I	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l	
127-18-4	Tetrachloroethene	6.3	1.0	0.27	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.24	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.54	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Client Sample ID: MW-XX

Lab Sample ID: JA63130-5
Matrix: AO - Grou

AQ - Ground Water SW846 8260B Date Sampled: 12/02/10 Date Received: 12/03/10

Date Received: 12/03/10
Percent Solids: n/a

Method: Project:

Flower Station, 47 Northern Boulevard, Great Neck, NY

VOA Halogenated List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		76-120%
17060-07-0	1,2-Dichloroethane-D4	96%		64-135%
2037-26-5	Toluene-D8	102%		76-117%
460-00-4	4-Bromofluorobenzene	102%		72-122%



MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





Page 1 of 2

Client Sample ID: MW4FB122110 Lab Sample ID:

File ID

4D04785.D

JA63130-6

Date Sampled: 12/02/10 Date Received: 12/03/10

Matrix: Method:

AQ - Field Blank Water SW846 8260B

DF

1

Percent Solids: n/a

Project:

Flower Station, 47 Northern Boulevard, Great Neck, NY

Prep Date Prep Batch **Analytical Batch**

Run #1

Run #2

Analyzed By 12/08/10 **MMC**

n/a

V4D210 n/a

Purge Volume

Run #1 5.0 ml

Run #2

VOA Halogenated List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	4.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.26	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.4	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.92	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.27	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/I	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.24	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.54	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 2 of 2

Client Sample ID: MW4FB122110

Lab Sample ID: JA63130-6 Date Sampled: 12/02/10
Matrix: AQ - Field Blank Water Date Received: 12/03/10
Method: SW846 8260B Percent Solids: n/a

Project: Flower Station, 47 Northern Boulevard, Great Neck, NY

VOA Halogenated List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		76-120%
17060-07-0	1,2-Dichloroethane-D4	95%		64-135%
2037-26-5	Toluene-D8	102%		76-117%
460-00-4	4-Bromofluorobenzene	102%		72-122%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



3.6

Accutest Laboratories

Report of Analysis

Page 1 of 2

TRIP BLANK Client Sample ID: JA63130-7

Lab Sample ID: AQ - Trip Blank Water Matrix: Method: SW846 8260B

12/02/10 Date Sampled: Date Received: 12/03/10

Percent Solids: n/a

Flower Station, 47 Northern Boulevard, Great Neck, NY Project:

Prep Batch Analytical Batch Prep Date File ID DF Analyzed By V4D210 n/a 12/08/10 **MMC** n/a Run #1 4D04786.D 1

Run #2

Purge Volume

5.0 ml Run #1

Run #2

VOA Halogenated List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	4.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.26	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.4	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.92	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.30	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.27	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.24	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.54	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/I	

ND = Not detected

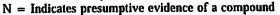
MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





Page 2 of 2

Client Sample ID: TRIP BLANK

Lab Sample ID: JA63130-7 Date Sampled: 12/02/10

Matrix: AQ - Trip Blank Water Date Received: 12/03/10

Method: SW846 8260B Percent Solids: n/a

Project: Flower Station, 47 Northern Boulevard, Great Neck, NY

VOA Halogenated List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		76-120%
17060-07-0	1,2-Dichloroethane-D4	97%		64-135%
2037-26-5	Toluene-D8	102%		76-117%
460-00-4	4-Bromofluorobenzene	101%		72-122%



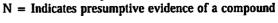
MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





APPENDIX C

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JA63130: Chain of Custody Page 1 of 4



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Page 2 of 4 JA63130: Chain of Custody

Appendix B Indoor Air Laboratory Data



Mr. Eric Weinstock CA Rich Consultants, Inc. 17 Dupont Street Plainview, NY 11803 December 10, 2010

DOH ELAP# 11626

Account# 14715

Login# L229687

Dear Mr. Weinstock:

Enclosed are the analytical results for the samples received by our laboratory on December 03, 2010. All test results meet the quality control requirements of AIHA and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report.

Please contact Charlene Moser at (888) 432-5227, if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Mary & Unangst

Sincerely,

Galson Laboratories

Mary G. Unangst Laboratory Director

Enclosure(s)



LABORATORY ANALYSIS REPORT

6601 Kirkville Road

East Syracuse, NY 13057

(315) 432-5227

FAX: (315) 437-0571 www.galsonlabs.com

Client Site

: CA Rich Consultants, Inc

: 47 Northern Blvd

Project No.

: FF-CDC

Date Sampled : 02-DEC-10

Date Received : 03-DEC-10

Date Analyzed : 07-DEC-10 Report ID : 674696

Account No.: 14715

Login No. : L229687

Perchloroethylene

Sample ID	<u>Lab ID</u>	Time minutes	Raw ug	Total ug	Conc ug/m3
PDM-1	L229687-1	1495	0.07	0.07	2
PDM-2	L229687-2	1500	0.13	0.13	3.1
PDM-4	L229687-3	1465	1.7	1.7	40
PDM-5	L229687-4	1475	1.6	1.6	37
PDM-6	L229687-5	1490	<0.06	<0.06	<1

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.06 ug

Analytical Method : mod. NYS DOH 311-9

OSHA PEL (TWA) Collection Media

: 100 ppm : M3M-3500

Approved by : rjw

Date : 10-DEC-10 NYS DOH # : 11626

Submitted by: mln

QC by: Tony D'Amico

< -Less Than

mg -Milligrams

m3 -Cubic Meters

kg -Kilograms

> -Greater Than

ug -Micrograms

1 -Liters

NS -Not Specified

NA -Not Applicable

ND -Not Detected



FAX: (315) 437-0571

www.galsonlabs.com

LABORATORY FOOTNOTE REPORT

Client Name : CA Rich Consultants, Inc Site : 47 Northern Blvd Project No. : FF-CDC

6601 Kirkville Road East Syracuse, NY 13057 Date Sampled: 02-DEC-10 (315) 432-5227 Date Received: 03-DEC-10

Date Analyzed: 07-DEC-10

Account No.: 14715 Login No. : L229687

Unless otherwise noted below, all quality control results associated with the samples were within established control limits.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded in order to fit the report format and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

L229687 (Report ID: 674696):

Total ug corrected for a desorption efficiency of 103%.

SOPs: GC-SOP-12(3), GC-SOP-16(5), GC-SOP-9(4)

-Less Than

-Greater Than

NA -Not Applicable

mg -Milligrams

ug -Micrograms

ND -Not Detected

m3 -Cubic Meters

l -Liters

kg -Kilograms NS -Not Specified

ppm -Parts per Million

	chack if change	Report To:	CA Riels Consultants, Inc.	hants Inc.	Invoice To :	Z-SAME	6
GALSON	of address		Plaintiew. A	NY 11803	(B)		
Kirkville Syracus	New Client? yes	Phone No. :		Http	Phone No. :		
1ef. (315) 432-5227 888-432-LABS (5227)	•	Fax No.:	576 576 00	0093	Fax No.:		
Fax: (315) 437-0571 www.galsonlabs.com		Site Name :	47 Northern Blud	d Project: FF-C)C		Sampled By : \mathcal{M} . \mathcal{V}	M. YASER
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五 另 Sample Identification a	Date Sampled Collection Medium	Collection Medium	*Air Volume Passive Monitors (Liters) (Min)		Analysis Requested	Method Reference	Specific DL Needed
1. m/d fer 1.	12/1-12/2/10 3m 3500 0V	3m.3500 oum	1495	FOE		NYSDOH 3129	5 49/113
2. 8 phm - 2	12/1-12/21	2/10 Sm 3500 oun	00.51			NYS-BOH 311.9	5 ug/m3
	12/11-12/20	10 3M 3500 OVM	1465	POE		P.UE HODSKM	5 ug/m3
4. 3plM-5	12/1-12/10	14/16 3m 3500 oum	147	5 POE		1.115 410QSXX	5 49/m3
5. Bollm - 6	01/6/61-1/61	MAO 035 WE 01/01	16#1,	POE		NYS DOH 311.9	5 wa/m3
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Comments:	Policies / Respond to		ping area.				
	Print Name	The second secon	jis +	Signature		Date/Time	
	Michael Yagar -	CA Rich	Wachay 1	lager	12/2/10	Md	
Received by LAB:	Costello		1 atoth	7	01/2/10	0934	
	Samples received	Samples received after 3pm will be c	considered as next day's business.		sample collection time X LPM = Air Vol.	ol. Page	
			LABORIGINAL				

Appendix C SVE System Laboratory Data



ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.105589.00

12/06/10

C.A. Rich Consultants, Incorporated

17 Dupont Street

Plainview, NY 11803

ATTN: Eric Weinstock

PO#:

SOURCE OF SAMPLE:

CDC-FF, 47 Northern Blvd., Great Neck, NY

SOURCE OF SAMPLE:

COLLECTED BY: C1:

Client

DATE COL'D:12/02/10 RECEIVED:12/02/10

TIME COL'D:0815

MATRIX: Air

SAMPLE: RAW 12/2/10

			DATE TIME	Α	NALYTICAL
ANALYTICAL PARAMETERS UNIT	TS	RESULT	FLAG OF ANALYSIS		METHOD
Propylene ppl		< 0.5	120310	0.5	EPATO-15
10	bv	< 0.2	120310	0.2	EPATO-15
1,2-Dichlorotetrafluoroethan ppl		< 0.2	120310	0.2	EPATO-15
	bv	< 1	120310	1	EPATO-15
1,3 Butadiene ppt		< 1	120310	1	EPATO-15
	bv	< 0.2	120310	0.2	EPATO-15
Bromomethane ppl		< 0.2	120310	0.2	EPATO-15
Chloroethane ppl		< 1	120310	1	EPATO-15
Vinyl Bromide ppl	bv	< 0.2	120310	0.2	EPATO-15
Trichlorofluoromethane ppl	bv	< 0.2	120310	0.2	EPATO-15
Ethyl alcohol ppl	bv	< 2	120310	2	EPATO-15
Freon 113 ppl	bv	< 0.1	120310	0.1	EPATO-15
1,1 Dichloroethene ppl	bv	< 0.1	120310	0.1	EPATO-15
Acetone ppl	bv	< 1	120310	1	EPATO-15
Carbon disulfide ppl	bv	< 0.5	120310	0.5	EPATO-15
Isopropyl Alcohol ppl	bv	< 5	120310	5	EPATO-15
3-Chloropropene ppl	bv	< 0.5	120310	0.5	EPATO-15
Methylene Chloride ppl	bv	< 0.2	120310	0.2	EPATO-15
tert. Butyl Alcohol ppl		< 2	120310	2	EPATO-15
ter.ButylMethylEther ppl	by	< 0.2	120310	0.2	EPATO-15
t-1,2-Dichloroethene ppl		< 0.2	120310	0.2	EPATO-15
	bv	< 1	120310	1	EPATO-15
Hexane ppl		< 0.5	120310	0.5	EPATO-15
	bv	< 0.5	120310	0.5	EPATO-15
1,1 Dichloroethane ppl	bv	< 0.2	120310	0.2	EPATO-15

LRL=Laboratory Reporting Limit

REMARKS: Grab sample.

The LOQ for all analytes was confirmed with a daily LOQ std.

DIRECTOR

1 of

NYSDOH ID # 10320

cc:

105589.XLS

ECOTEST ID	105589.00				
SOURCE OF SAMPLE	CDC-FF, 47 N	orthern Blvd., G	rea	t Neck, NY	
SAMPLE ID	RAW 12/2/10			T	
DATE SAMPLED	12/2/2010				
MATRIX	Air				
ANALYTICAL METHOD	EPA TO-15				
		DATE OF		CONC	LRL
ANALYTE	CAS NO	ANALYSIS	ļ	UG/M3	UG/M3
1,1 Dichloroethane	75-34-3	12/3/2010	<	0.81	0.81
1,1 Dichloroethene	75-35-4	12/3/2010	<	0.40	0.40
1,2 Dibromoethane	106-93-4	12/3/2010	<	1.54	1.54
1,2 Dichlorobenzene (v)	95-50-1	12/3/2010	<	3.01	3.01
1,2 Dichloroethane	107-06-2	12/3/2010		2.03	2.03
1,2 Dichloropropane	78-87-5	12/3/2010		2.31	2.31
1,2-Dichlorotetrafluoroethane	76-14-2	12/3/2010		1.40	1.40
1,3 Butadiene	106-99-0	12/3/2010		2.21	2.21
1,3 Dichlorobenzene (v)	541-73-1	12/3/2010		1.20	1.20
1,4 Dichlorobenzene (v)	106-46-7	12/3/2010		3.01	3.01
1,4-Dioxane	123-91-1	12/3/2010		3.60	3.60
III Trichloroethane	71-55-6	12/3/2010		1.09	1.09
112 Trichloroethane	79-00-5	12/3/2010		1.09	1.09
I 122Tetrachloroethane	79-34-5	12/3/2010		1.37	1.37
124-Trimethylbenzene	95-63-6	12/3/2010		2.46	2.46
135-Trimethylbenzene	108-67-8	12/3/2010		2.46	2.46
2,2,4-Trimethylpentane	540-84-1	12/3/2010		2.33	2.33
2-Hexanone	591-78-6	12/3/2010		2.05	2.05
3-Chloropropene	107-05-1	12/3/2010		1.57	1.57
Acetone	67-64-1	12/3/2010	<	2.38	2.38
Acrylonitrile	107-13-1	12/3/2010		2.17	2.17
Benzene	71-43-2	12/3/2010	<	0.64	0.64
Benzyl Chloride	100-44-7	12/3/2010		1.04	1.04
Bromodichloromethane	75-27-4	12/3/2010	<	1.33	1.33
Bromoform	75-25-2	12/3/2010	< !	2.07	2.07
Bromomethane	74-83-9	12/3/2010	< 0	0.78	0.78
c-1,2-Dichloroethene	156-59-2	12/3/2010		32.53	0.79
c-1,3Dichloropropene	10061-01-5	12/3/2010		2.27	2.27
Carbon disulfide	75-15-0	12/3/2010		1.56	1.56
Carbon Tetrachloride	56-23-5	12/3/2010		2.52	2.52
Chlorobenzene	108-90-7	12/3/2010		0.92	0.92
Chlorodibromomethane	124-48-1	12/3/2010		1.69	1.69
Chloroethane	75-00-3	12/3/2010		2.64	2.64
Chloroform	67-66-3	12/3/2010).97	0.97
Chloromethane	74-87-3	12/3/2010		2.07	2.07
Cyclohexane	110-82-7	12/3/2010).69	0.69
	75-71-8	12/3/2010		.99	0.99
Ethyl Acetate	141-78-6	12/3/2010		8.01	18.01
Ethyl alcohol	64-17-5	12/3/2010		3.77	3.77
Ethyl Benzene	100-41-4	12/3/2010		0.87	0.87
Freon 113	76-13-1	12/3/2010).77	0.77

105589.XLS

Heptane	142-82-5	12/3/2010	<	2.05	2.05
Hexachlorobutadiene	87-68-3	12/3/2010	<	5.34	5.34
Hexane	110-54-3	12/3/2010	<	1.76	1.76
Isopropyl Alcohol	67-63-0	12/3/2010	<	12.28	12.28
m + p Xylene	XYL-MP	12/3/2010	<	2.17	2.17
Methyl Ethyl Ketone	78-93-3	12/3/2010	<	2.95	2.95
Methylene Chloride	75-09-2	12/3/2010	<	0.69	0.69
Methylisobutylketone	108-10-1	12/3/2010	<	4.10	4.10
o Xylene	95-47-6	12/3/2010	<	0.87	0.87
p-Ethyltoluene	622-96-8	12/3/2010	<	2.46	2.46
Propylene	115-07-1	12/3/2010	<	0.86	0.86
Styrene	100-42-5	12/3/2010	<	0.85	0.85
t-1,2-Dichloroethene	156-60-5	12/3/2010	<	0.79	0.79
t-1,3Dichloropropene	10061-02-6	12/3/2010	<	0.91	0.91
ter.ButylMethylEther	1634-04-4	12/3/2010	<	0.70	0.70
tert. Butyl Alcohol	75-65-0	12/3/2010	<	6.06	6.06
Tetrachloroethene	127-18-4	12/3/2010		4342.40	1.36
Tetrahydrofuran	109-99-9	12/3/2010	<	1.47	1.47
Toluene	108-88-3	12/3/2010	<	0.75	0.75
Trichloroethene	79-01-6	12/3/2010		29.01	1.07
Trichlorofluoromethane	75-69-4	12/3/2010	<	1.12	1.12
Vinyl Acetate	108-05-4	12/3/2010	<	1.76	1.76
Vinyl Bromide	593-60-2	12/3/2010	<	0.88	0.88
Vinyl Chloride	75-01-4	12/3/2010	<	0.51	0.51

ECO EST LABORATORIES INC.

377 Sheffield Ave.

North Babylon, NY 11703

tel. 631-422-5777, fax 631-422-5770, Email ECOTESTLAB@aol.com

CANISTER SAMPLING D	ATA SHEET	RAIN SERIAL	NO. F	LOW		
CANISTER SERIAL NO.	SWAII DE 1					
EcoTest 35		NA	GRAL	3		
This above referenced Summa can and DATE: 11/30/2010	sample train was received	in good condition	n			
	L. I. Harry					
CLIENTS AGENT (print): Mich	Mel YAger					
SIGNED: Michael	6/1960					
Client agrees to pay all replacement costs associa	/ / ated with loss or damage of canis	st				
train. Client acknowledges that this canister is v	alid for a maximum of 30 days f	rom the date of				
evacuation. Client is responsibe for any vacuum	loss or contamination while in o	lients custody.				
•				S. S.L 1 12		
VAC leaving EcoTest:	29" Hg		eiving report: <i>F.</i> 2	1 Weinstock		
Date Evacuated:	11/30/2010	ANALYSIS: TO15				
VAC/PRES returned EcoTest:	0	TAT: 5/And	AARd			
	*7 ~					
CANISTER SERIAL NO.	35					
SAMPLE TRAIN SERIAL NO.	N/A					
RETURNED IN GOOD CONDITION	TO ECOTEST LABORA	TORIES INC.				
DATE: $ \lambda \lambda \lambda \lambda $						
SIGNED:	for ECOTEST LA	<u>N</u> BS.				
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ALL INFORMATION BELOW MU	ST BE PROVIDED BY					
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SAMPLE RAW 12/3/10			MBIENT AIR			
DATE SAMPLED 12/2/10			JB SLAB VAPOR			
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TEMPERATURE SAMPLING STAR			RPECTED CONC	ł		
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DATE: 12/2/2010)W			
CLIENT: GA RICK COUSA!			EDIUM			
CLIENTS AGENT: STATE	SOBSTIL	HI	GH			
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RECEIVED BY:		DATE/TIME:	12/2/10/141.	2 (
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