DRAFT
VAPOR INTRUSION INVESTIGATION REPORT
NEW CASSEL INDUSTRIAL AREA
SITE # 130043

WORK ASSIGNMENT NO. D004434-31

Prepared for:

New York State Department of Environmental Conservation
Albany, New York

Prepared by:

MACTEC Engineering and Consulting, P.C.
Portland, Maine

MACTEC: 3612092127

AUGUST 2010

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GLOSSARY OF ACRONYMS AND ABBREVIATIONS

AS	air sparge
bgs	below ground surface
CDM	Camp Dresser and McKee
DCA	dichloroethane
DCE	dichloroethene
DUSR	Data Usability Summary Report
FAP	Field Activities Plan
IRM	interim remedial measure
MACTEC	MACTEC Engineering and Consulting, P.C.
MTBE	Methyl Tertiary Butyl Ether
NCIA	New Cassel Industrial Area
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OU	operable unit
PCE	tetrachloroethene
PID	photoionization detector
QAPP	Quality Assurance Program Plan
Report	Vapor Intrusion Investigation Report
ROD	Record of Decision

GLOSSARY OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

RI	Remedial Investigation
Site	New Cassel Industrial Area site
SVE	soil vapor extraction
TCA	trichloroethane
TCE	trichloroethene
µg/m^3	microgram(s) per cubic meter
USEPA	United States Environmental Protection Agency
VI	vapor intrusion
VOC	volatile organic compound
WA	work assignment

1.0 INTRODUCTION

MACTEC Engineering and Consulting, P.C. (MACTEC) was tasked by the New York State Department of Environmental Conservation (NYSDEC) to conduct a Vapor Intrusion (VI) Investigation for the New Cassel Industrial Area (NCIA) site (Site) (Site # 130043) in Nassau County, New York (Figure 1.1). The VI Investigation was conducted in accordance with Work Assignment (WA) No. D004434-31 (NYSDEC, 2009) and the Field Activities Plan (FAP) (MACTEC, 2010) to assess the potential for contamination at seven spill sites within the NCIA to result in exposure to volatile organic compounds (VOCs) from soil vapor migration.

1.1 PROJECT BACKGROUND

WA D004434-31 included seven discrete properties within the NCIA:

- IMC Magnetics, 570 Main Street, New Cassel, NYSDEC Site No. 130043A;
- Atlas Graphics, 567 Main Street, New Cassel, NYSDEC Site No. 130043B;
- Tishcon Corp. (125 State Street), New Cassel, NYSDEC Site No. 130043C;
- Former Tishcon Corp., 68 Kinkel Street, Westbury, NYSDEC Site No. 130043F;
- Former Laka Industries, Inc., 62 Kinkel Street, Westbury, NYSDEC Site No. 130043K;
- EZ-EM, Inc., 750 Summa Avenue, North Hempstead, NYSDEC Site No. 130043N; and
- Tishcon Corp. (New York Ave), 29 New York Avenue, North Hempstead, NYSDEC Site No. 130043V.

Access was not attained after repeated attempts at the Tishcon Corp. site located at 125 State Street (NYSDEC Site No. 130043C); therefore VI sampling was not conducted.

1.2 PURPOSE OF INVESTIGATION AND REPORT

Past activities associated with each of the sites within the NCIA have contributed to groundwater contamination. A soil vapor study around the perimeter of these properties in 2008 identified the potential for vapor migration into the buildings (Camp Dresser and McKee [CDM], 2008). This VI Investigation inside Site buildings was conducted to assess the potential for vapor migration.

The VI field work was performed in accordance with the FAP (MACTEC, 2010), Health and Safety Plan (MACTEC, 2005), and Quality Assurance Program Plan (QAPP) (MACTEC, 2007).

1.3 REPORT ORGANIZATION

This Vapor Intrusion Investigation Report (Report) was prepared to summarize the field activities and corresponding soil vapor, indoor air, ambient air, and soil sampling results. A summary of field sampling activities completed in February and May 2010 is provided in Section 2. Findings from field sampling activities are presented in Section 3. Conclusions from the field sampling activities are presented in Section 4.

The following are provided as appendices:

- Appendix A: Field Data Records
- Appendix B: Structure Inspection/Inventory and Questionnaire
- Appendix C: Photographic Logs
- Appendix D: Direct Push Soil Boring Logs
- Appendix E: Data Usability Summary Reports (DUSRs) and Analytical Data

2.0 FIELD ACTIVITIES

Field activities summarized in this Report include one round of VI sampling during the 2010 heating season. VI sampling activities were performed in February 2010 to evaluate the potential for vapor migration at six properties within the NCIA. A direct push soil sampling program was also performed at the Tishcon Corp. New York Avenue Site (NYSDEC Site No. 130043V) to evaluate the presence/absence of a potential source area(s) in shallow soil adjacent to the building.

A summary of the property addresses and their corresponding structure identification number is provided in Table 2.1. Locations of the seven sites are shown on Figure 2.1.

2.1 VI SAMPLING – FEBRUARY 2010

VI sampling was conducted during the 2010 heating season at six structures in the NCIA. VI samples were collected over a 24-hour duration from each of the six structures. A seventh site (NYSDEC Site No. 130043C) was not sampled due to site access issues. Each structure included VI samples from three (3) sub-slab locations and two (2) indoor air locations for VOC analysis. Per New York State Department of Health (NYSDOH) guidance. When possible, an outdoor ambient air sample was collected in conjunction with the indoor air sample.

A total of 18 sub-slab vapor samples, 12 indoor air samples, as well as three exterior ambient air samples and one duplicate sample were collected. VI samples were analyzed for VOCs using United States Environmental Protection Agency (USEPA) Method TO-15 (soil vapor/air) by Centek Laboratory from Syracuse, New York, a NYSDEC Environmental Laboratory Approval Program certified laboratory. Field data records were completed during the investigation and are provided in Appendix A.

2.1.1 Structure Inspection/Inventory and Questionnaire

Prior to sample collection, MACTEC completed the NYSDOH "Indoor Air Quality Questionnaire and Building Inventory" form for each structure, screened ambient indoor air for total VOCs using a parts

per billion miniRAE, and selected sample locations. Copies of the completed questionnaires are provided in Appendix B.

2.1.2 Sub-Slab Vapor Sampling

Sub-slab vapor samples were collected from below the building's concrete slab in 1-liter SUMMA®-type canisters regulated with a 24-hour flow valve. The procedure detailed in the FAP (MACTEC, 2010) was followed for all sub-slab vapor point installations.

A digital photograph was taken of the set-up and surrounding area; a photographic log for the six structures that were sampled are provided in Appendix C.

Approximately 24 hours after sample collection, the flow valves were shut off. The time and remaining vacuum in the canister were noted on the field data record (see Appendix A). Upon completion of the sampling, the tubing and stopper were removed from the building floor and the holes were filled with a fast drying concrete.

2.1.3 Air Sampling

Indoor air samples were collected in 1-liter SUMMA®-type canisters in the vicinity of the sub-slab vapor sample collection points. MACTEC collected the indoor air sample away from any sumps. Indoor air samples were collected from approximately four to six feet above the floor level. Indoor air samples were set up with 24-hour flow valves. Approximately 24 hours after sample collection, the flow valves were shut off. The time and remaining vacuum in the canister were noted on the field data record (Appendix A).

Ambient air samples were collected in 1-liter SUMMA®-type canisters from the vicinity of three structures being sampled for indoor air and sub-slab vapor VOC contamination. Samples were collected from approximately three to six feet above ground surface. Ambient air samples were set up with 24-hour flow valves. Approximately 24 hours after sample collection, the flow valves were shut off. The time and remaining vacuum in the canister were noted on the field data record (Appendix A).

Field quality control samples included duplicate sample collection. One field duplicate sample was collected at a sub-slab vapor point using an in-line tee fitting to split the sub-slab vapor sample between two canisters.

2.2 DIRECT PUSH SOIL SAMPLING – MAY 2010

Results obtained during the 2008 soil gas sampling program at the Tishcon Corp. New York Ave. Site (NYSDEC Site No. 130043V) (CDM, 2008) suggested a potential source area in soil adjacent to the southern portion of the Site. To fill this data gap, direct push soil sampling was conducted at the site: five (5) soil borings were advanced (DP-1 through DP-5). Soil borings were advanced using direct push technology as described in the Section 4.5.1.1 of the QAPP (MACTEC, 2007). Soil samples were collected from a five-foot long, 2 inch diameter core sampler with an acrylic liner. Soil samples were collected continuously from the ground surface to 25 feet below ground surface (bgs), or until refusal. Photoionization detector (PID) headspace readings was used to screen soil samples for the presence of total VOCs as each soil sample was removed from the sample collection tube. Samples were described using the Unified Soil Classification System. The sample description and classification, VOC headspace reading, and boring observations were recorded on the field data record as described in Subsection 4.5.2 of the QAPP (Appendix D). Refusal was encountered at location DP-3 at approximately 1 foot bgs; therefore soils samples were not collected from this location.

Based on the PID screening readings, the sample exhibiting the highest screening measurement from each of the soil borings (a total of four samples) was submitted to Chemtech Laboratories of Mountainside, New Jersey for VOCs by USEPA Method 8260B. Appendix D provides the direct push soil boring logs and relevant site photos.

3.0 VAPOR INTRUSION INVESTIGATION FINDINGS

Laboratory results were reviewed and evaluated in accordance with the "Guidance for the Development of Data Usability Reports" (NYSDEC, 2002). Validated results and the Data Usability Summary Report are included as Appendix E. Tables 3.1 through 3.8 provide a summary of compounds detected and applicable New York State standards and/or guidance criteria.

The field data records and Structure Inspection/Inventory and Questionnaire for the NCIA sites are provided in Appendices A and B.

Ambient air samples were not collected at each structure; rather three (3) samples were collected from the NCIA study area to demonstrate overall ambient air conditions at the time of sampling (see Table 3.7).

3.1 IMC MAGNETICS (SITE 130043A) FINDINGS

The IMC Magnetics site is located at 570 Main St., New Cassel, New York in the western part of the NCIA. The site was listed as a Class 2 site in 1995. From October 1997 to 2004, IMC Magnetics Inc. operated a soil vapor extraction (SVE) system to remediate on-site soil contamination at the northwest corner of the Site. The Record of Decision (ROD) for operable unit (OU)-1, On-Site Soil Contamination, incorporating the SVE system, was issued in January of 1998. The ROD for OU-2 On-Site Groundwater was issued in March 2000. The remedy selected for groundwater remediation at this site was in-situ oxidation using hydrogen peroxide injection; treatment began in December 2001. It is unknown if groundwater treatment is currently taking place. A soil vapor and groundwater investigation which consisted of five direct push borings drilled around the perimeter of the facility was conducted by CDM in 2008. Results from the investigation revealed high concentrations of solvent VOCs in the soil vapor in excess of NYDOH guidelines, and concentrations of tetrachloroethene (PCE) and trichloroethene (TCE) in excess of New York State standards for Class GA groundwater. The investigation suggested a potential source area in the northwest corner of the site and concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion (CDM, 2008)

VOCs detected in sub-slab vapor, indoor and ambient air samples for the IMC Magnetics site (Structure A) during the 2010 VI Investigation are shown in Table 3.1. Sample locations are shown in Figure 3.1.

Chlorinated VOCs with NYSDOH guidance criteria detected in the sub-slab samples at locations A-SS-01, A-SS-02 and A-SS-03 are listed below:

- Tetrachloroethene (PCE) concentrations ranged from 4,600 micrograms per cubic meter (µg/m^3) to 400,000 µg/m^3;
- cis-1,2-Dichloroethene (DCE) concentrations ranged from non-detect to 2,800 EJ µg/m^3;
- 1,1,1- Trichloroethane (TCA) concentrations ranged from 2.8 µg/m^3 to 240 µg/m^3;
- Trichloroethene (TCE) concentrations ranged from 19 µg/m^3 to 4,400 J µg/m^3, and,
- Carbon tetrachloride, 1,1-DCE and vinyl chloride were not detected above the reporting limit.

Chlorinated VOCs with NYSDOH guidance criteria detected in the indoor air samples at locations A-IA-01 and A-IA-02 are listed below:

- PCE concentrations ranged from 74 J µg/m^3 to 220 µg/m^3;
- cis-1,2-DCE concentrations ranged from non-detect to 1.6 µg/m^3;
- TCE concentrations ranged from 1.6 J µg/m^3 to 5.6 J µg/m^3,
- Carbon tetrachloride concentrations ranged from 0.45 J µg/m^3 to 0.51 J µg/m^{3}and,
- 1,1,1-TCA, vinyl chloride and 1,1-DCE were not detected above the reporting limit.

3.2 ATLAS GRAPHICS (SITE 130043B) FINDINGS

The Atlas Graphics site (Structure B) is located at 567 Main Street, Westbury, New York in the western part of the NCIA. The building was built in 1950, and used as a warehouse for construction vehicles until 1997. In 1997, the property was purchased by Atlas Graphics Inc., which currently operates a photo-engraving manufacturing operation. This operation uses a reported 312 gallons per year of TCE. At the time of its purchase, the building was connected to a cesspool for its sanitary waste disposal. In 1977, there was a documented discharge of approximately 50 gallons of TCE to the cesspool. Analytical results detected elevated concentrations of TCE in the soil and groundwater above New York State standards. The ROD for this site was issued in February 2000, and selected an air sparging (AS) and SVE system as the remedy to address the on-site contaminated soil and

groundwater. The AS/SVE system was constructed in October 2000 and was operated through November 2003. A soil vapor and groundwater investigation which consisted of five direct push borings drilled around the perimeter of the facility was conducted by CDM in 2008. Results from the investigation revealed concentrations of solvent VOCs in the soil vapor in excess of NYSDOH guidelines and concentrations of PCE, TCE, and 1, 1, 1-TCA in excess of New York State standards for Class GA groundwater. The investigation suggested a potential source area at the site and concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion (CDM, 2008).

VOCs detected in sub-slab vapor, indoor and ambient air samples for the Atlas Graphics site (Structure B) during the 2010 VI Investigation are shown in Table 3.2. Sample locations are shown in Figure 3.2.

Chlorinated VOCs with NYSDOH guidance criteria detected in the sub-slab samples at locations B-SS-01, B-SS-02 and B-SS-03 are listed below:

- PCE concentrations ranged from 1,400 µg/m^3 to 4,200 µg/m^3;
- cis-1,2-DCE concentrations ranged from 8.5 µg/m^3 to 26 µg/m^3;
- 1,1,1-TCA concentrations ranged from 160 EJ µg/m^3 to 240 µg/m^3;
- TCE concentrations ranged from 4,100 µg/m^3 to 31,000 µg/m^3,
- 1,1-DCE concentrations ranged from non-detect to 2.5 µg/m^3; and
- Carbon tetrachloride and vinyl chloride were not detected above the reporting limit.

Chlorinated VOCs with NYSDOH guidance criteria detected in the indoor air samples at locations B-IA-01 and B-IA-02 are listed below:

- PCE concentrations ranged from 1.6 J µg/m^3 to 1.9 J µg/m^3;
- TCE concentrations ranged from 27 µg/m^3 to 28 µg/m^3; and
- cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, carbon tetrachloride and vinyl chloride were not detected above the reporting limit.

3.3 TISHCON CORP (125 STATE STREET) (SITE 130043C) FINDINGS

The Tishcon Corp site (Structure C) located at 125 State Street, New Cassel, New York is within the central part of the NCIA. Tishcon produced dietary supplements and vitamin products in the form of

powders and tablets. The powders and tablets were produced in a dry blending process. From 1985 to 1993, the chemicals methylene chloride, 1,1,1-TCA, and methanol were used in the tablet coating process. Equipment used in the process was rinsed in the driveway where storm drains were located. Based on the presence of VOCs and metals in four storm drains at the site, the Nassau County Department of Health requested that contaminated sediment be removed from the storm drains and a distribution box on the property. The excavation and restoration of the contaminated source areas, including two storm drains and a distribution box was completed as an Interim Remedial Measure (IRM) in October 1997. The ROD for the site was issued in January 1998 and required the excavation and restoration of the remaining source area. Excavation and disposal of this material was completed in the spring of 1999. In March 2000, the site was reclassified as a Class 4 site indicating the site was properly closed and monitoring is required. It is uncertain whether a monitoring program is currently being implemented at the Site. A soil vapor and groundwater investigation which consisted of five direct push borings drilled around the perimeter of the facility was conducted by CDM in 2008. Results from the investigation detected concentrations of solvent VOCs in the soil vapor in excess of NYSDOH guidelines. VOCs were detected in groundwater including PCE, TCE, and 1,1,1-TCA but concentrations did not exceed New York State standards for Class GA groundwater. It was concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion at the site (CDM, 2008).

MACTEC made repeated attempts to gain access and collect VI samples from this property; however, access was not obtained during the February 2010 sampling event and no indoor or subslab VI samples were collected.

3.4 FORMER TISHCON CORP., 68 KINKEL STREET (SITE 130043F) FINDINGS

The Former Tishcon Corporation site located at 68 Kinkel Street, Westbury, NY is located within the central part of the NCIA. The one quarter acre site is occupied by a single story, 2-bay garage. In 1982 and 1983, Tishcon utilized 1650 gallons of 1,1,1-TCA, 8000 gallons of methylene chloride, and 3000 gallons of shellac in its manufacturing process. A superfund investigation was completed in July 1996 and a ROD was issued in January 1997, requiring no action for this site. A soil vapor and groundwater investigation which consisted of five direct push borings drilled at the north, northeast, and northwest perimeter of the facility was conducted by CDM in 2008. Results from the investigation revealed elevated concentrations of solvent VOCs in the soil vapor that exceeded NYSDOH guidelines. VOCs

were detected in groundwater including concentrations of PCE, TCE, Methyl Tertiary Butyl Ether (MTBE) and cis-1,2-DCE in excess of New York State standards for Class GA groundwater. The investigation suggested a potential source area at the site and concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion (CDM, 2008).

VOCs detected in sub-slab vapor, indoor and ambient air samples for the Former Tishcon Corp site (Structure F) during the 2010 VI Investigation are shown in Table 3.3. Sample locations are shown in Figure 3.3.

Chlorinated VOCs with NYSDOH guidance criteria detected in the sub-slab samples at locations F-SS-01, F-SS-02 and F-SS-03 are listed below:

- PCE concentrations ranged from 110 J µg/m^3 to 290 µg/m^3;
- 1,1,1-TCA concentrations ranged from 9.9 µg/m^3 to 110 µg/m^3; and
- TCE concentrations ranged from 0.6 J µg/m^3 to 4.2 µg/m^3.
- Carbon tetrachloride, cis-1,2-DCE, 1,1-DCE and vinyl chloride were not detected above the reporting limit.

Chlorinated VOCs with NYSDOH guidance criteria detected in the indoor air samples at locations F-IA-01 and F-IA-02 are listed below:

- PCE concentrations ranged from 1.7 J µg/m^3 to 1.9 J µg/m^3;
- Carbon tetrachloride concentrations ranged from 0.45 J µg/m^3 to 0.51 J µg/m^3
- TCE concentrations ranged from 1.8 J µg/m^3 to 3.2 µg/m^3; and,
- cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE and vinyl chloride were not detected above the reporting limit.

3.5 FORMER LAKA INDUSTRIES, INC. (SITE 130043K) FINDINGS

The Former LAKA Industries, Inc. site located at 62 Kinkel Street, Westbury, New York is within the central part of the NCIA. The former occupants, LAKA Tools and Stamping, and LAKA Industries used TCE as a degreaser. Soil samples collected from an abandoned drywell or cesspool contained TCE and cis-1,2- DCE. Groundwater samples collected at the same locations also contained TCE and cis-1,2-DCE. A plume of contaminated groundwater emanates from the site and has reportedly migrated approximately 700 feet down gradient from the Site. A Focused Remedial Investigation (RI) Report dated November 1998 and a Focused Feasibility Study dated May 1999 have been completed.

The Proposed Remedial Action Plan for OU-1 on-site soil and groundwater was completed in September 1999; the selected remedy was the excavation and off-site disposal of soil and monitoring of the on-site groundwater for at least two years. The ROD for OU-1 was issued in February 2000 and remedial action for OU-1 began in February 2002. A soil vapor and groundwater investigation which consisted of five direct push borings drilled around the northern perimeter of the facility was conducted by CDM in 2008. Results from the investigation revealed concentrations of solvent VOCs in the soil vapor that exceeded NYSDOH guidelines. VOCs were detected in groundwater including PCE, TCE, MTBE, 1,1-DCA and cis-1,2-DCE but no VOC contaminants were detected in excess of New York State standards for Class GA groundwater. The investigation concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion (CDM, 2008).

VOCs detected in sub-slab vapor, indoor and ambient air samples for the Former LAKA Industries, Inc site (Structure K) during the 2010 VI Investigation are shown in Table 3.4. Sample locations are shown in Figure 3.4.

Chlorinated VOCs with NYSDOH guidance criteria detected in the sub-slab samples located at K-SS-01, K-SS-02 and K-SS-03 are listed below:

- PCE concentrations ranged from 280 µg/m^3 to 1,500 µg/m^3;
- Carbon tetrachloride concentrations ranged from non-detect to 0.7 J µg/m^3,
- cis-1,2-DCE concentrations ranged from 1.3 µg/m^3 to 120 µg/m^3;
- 1,1,1-TCA concentrations ranged from 36 µg/m^3 to 2,100 µg/m^3;
- TCE concentrations ranged from 490 J µg/m^3 to 10,000 µg/m^3, and
- 1,1-DCE and vinyl chloride were not detected above the reporting limit.

Chlorinated VOCs with NYSDOH guidance criteria detected in the indoor air samples located at K-IA-01 and K-IA-02 are listed below:

- PCE concentrations ranged from 1.7 µg/m^3 to 5.4 µg/m^3;
- Carbon tetrachloride was detected at 0.51 J µg/m^3;
- TCE concentrations ranged from 0.6 µg/m^3 to 0.87 µg/m^3; and
- cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA and vinyl chloride were not detected above the reporting limit.

3.6 EZ-EM, INC. (SITE 130043N) FINDINGS

The EZ-EM, Inc. site is located at 750 Summa Ave, North Hempstead, NY in the NCIA. Advanced Food Service Equipment Manufacturing, a stainless steel kitchen equipment supplier, occupied the site between 1968 and 1971. Micro Industries, a machine shop, occupied the site between 1971 and 1982. EZ-EM has been at the site since 1982. Records indicate that Advanced Food Service stored or used 1,1,1-TCA and other solvents while at the site. A vat used for degreasing operations was located in the southwest corner of the building. A floor drain near the vat was sealed in 1978. Sample(s) collected from a dry well between 1978 and 1985 contained 1,1,1-TCA. The degreasing vat was removed in 1985. Records also show that 1,1,1-TCA and waste oil were stored in drums in the rear of the facility. It is reported that previous investigations have found high concentrations of contaminants in groundwater near the former disposal area and lower levels of contaminants from upgradient locations. Contamination at the site has been considered to be localized. A soil vapor and groundwater investigation which consisted of five direct push borings drilled at the perimeter of the facility was conducted by CDM in 2008. Results from the investigation revealed concentrations of solvent VOCs in the soil vapor that exceeded NYSDOH guidelines. VOCs were detected in groundwater including PCE, TCE, and 1,1,1-TCA with PCE and 1,1-TCA detected in excess of New York State standards for Class GA groundwater. The investigation concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion (CDM, 2008).

VOCs detected in sub-slab vapor, indoor and ambient air samples for the EZ-EM, Inc site (Structure N) during the 2010 VI Investigation are shown in Table 3.5. Sample locations are shown on Figure 3.5.

Chlorinated VOCs with NYSDOH guidance criteria detected in the sub-slab samples located at N-SS-01, N-SS-02 and N-SS-03 are listed below:

- PCE concentrations ranged from 1,200 µg/m^3 to 15,000 µg/m^3;
- 1,1-DCE concentrations ranged from non-detect to 32 µg/m^3;
- cis-1,2-DCE concentrations ranged from non-detect to 2 µg/m^3;
- 1,1,1-TCA concentrations ranged from 390 µg/m^3 to 53,000 µg/m^3;
- TCE concentrations ranged from 80 µg/m^3 to 3,200 J µg/m^3, and
- Carbon tetrachloride and vinyl chloride were not detected above the reporting limit.

Chlorinated VOCs with NYSDOH guidance criteria detected in the indoor air samples located at N-IA-01 and N-IA-02 are listed below:

- PCE concentrations ranged from 1 µg/m^3 to 1.6 µg/m^3;
- Carbon tetrachloride concentrations ranged from 0.58 J µg/m^3 to 0.7 J µg/m^3;TCE concentrations ranged from non-detect to 0.33 µg/m^3;
- 1,1,1-TCA concentrations were 1.2 µg/m^3, and
- cis-1,2-DCE, 1,1-DCE and vinyl chloride were not detected above the reporting limit.

3.7 THE TISHCON CORPORATION, NEW YORK AVE (SITE 130043V) FINDINGS

The Tishcon Corporation New York Avenue site is located within the NCIA at 29 New York Avenue, North Hempstead, NY midway between Old County Road and Main Street. The Site was developed in 1952 and was used to manufacture electronic equipment until the late 1970s. Tishcon occupied the Site from 1979 to 1991 (CDM, 2008). The Tishcon Corporation manufactures dietary supplements such as vitamins. Soft gelatin capsules are also manufactured by this company. As part of the process, a 1,1,1-TCA dip was used to remove mineral oil from the capsules. Approximately four drums of 1,1,1-TCA were used per week. Soil samples collected in 1998 from an open catch basin located in the parking lot contained 1,1,1-TCA, 1,1-DCA, and methylphenol. Past operations have contaminated at least one dry well with VOCs, and the on-site contamination is believed to affect underlying groundwater with a resulting plume that has migrated approximately 1000 feet down gradient. A RI was completed in January 2000. Based on the results, an IRM was carried out in 2000 to remove contaminated soil from the on-site dry well. The dry well was remediated in 2001. Confirmation samples showed concentrations of VOCs remaining in soils on site were below cleanup levels. A ROD was signed in 2002 recommending no further action and the site was delisted (NYSDEC, 2002). A soil vapor and groundwater investigation which consisted of five direct push borings drilled at the perimeter of the facility was conducted by CDM in 2008. Results from the investigation revealed concentrations of solvent VOCs in the soil vapor that exceeded NYSDOH guidelines. VOCs were detected in groundwater including PCE, TCE, 1,1,1-TCA, cis-1,2-DCE, 1,1-DCA and 1,1-DCE detected in excess of New York State standards for Class GA groundwater. Concentrations of VOC contaminants in excess of the groundwater standards were observed in all five of the sample locations. The investigation concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion (CDM, 2008).

VOCs detected in sub-slab vapor, indoor and ambient air samples for the Tishcon Corp., New York Avenue site (Structure V) during the 2010 VI Investigation are shown in Table 3.6. Indoor air and sub-slab soil vapor locations are shown in Figure 3.6.

Chlorinated VOCs with NYSDOH guidance criteria detected in the sub-slab samples located at V-SS-01, V-SS-02 and V-SS-03 are listed below:

- PCE concentrations ranged from 780 J µg/m^3 to 1,500 µg/m^3;
- 1,1-DCE concentrations ranged from 54 µg/m^3 to 780 J µg/m^3;
- cis-1,2-DCE concentrations ranged from non-detect to 49 µg/m^3;
- Carbon tetrachloride concentrations ranged from non-detect to 0.9 J µg/m^3,
- 1,1,1-TCA concentrations ranged from 290 J µg/m^3 to 27,000 µg/m^3;
- TCE concentrations ranged from 5.8 J µg/m^3 to 1,000 µg/m^3, and
- Vinyl chloride was not detected above the reporting limit.

Chlorinated VOCs with NYSDOH guidance criteria detected in the indoor air samples located at V-IA-01 and V-IA-02 are listed below:

- PCE concentrations ranged from 610 µg/m^3 to 1,600 J µg/m^3;
- TCE concentrations were 2.5 J µg/m^3;
- Carbon tetrachloride concentrations were 0.51 J µg/m^3;
- 1,1,1-TCA concentrations ranged from 4.2 J µg/m^3 to 4.7 J µg/m^3; and
- cis-1,2-DCE, 1,1-DCE and vinyl chloride concentrations were non-detect.

Table 3.8 provides direct push soil VOC results. Soil boring locations are shown on Figure 3.7. Direct push soil boring results indicate potential site contaminants (1,1,1-TCA and 1,1-DCA) detected in two of the four samples collected. Soil VOC results for the Tishcon Corp., New York Avenue site did not exceed the New York Codes, Rules and Regulations Title 6 Part 375 Soil Cleanup Objectives for unrestricted use for any of the compounds detected.

4.0 CONCLUSIONS

MACTEC Engineering and Consulting, P.C. sampled six Structures in the NCIA as part of a VI Investigation in February 2010 for the NYSDEC. Based on the results of study, VOCs for which NYSDOH guidance criteria exist, were detected at the six Structures sampled. Results were compared to criteria as established in the New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (NYSDOH, 2006). In five of the six structures sampled during the 2010 VI Investigation, soil vapor and indoor air results for at least one compound exceeded the NYSDOH Guidance criteria for *Mitigate*, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH, 2006). Results exceeding NYSDOH Guidance criteria for *Mitigate* are as follows:

Structure A: IMC Magnetics (NYSDEC Site No. 130043A).

- Cis-1,2-DCE, TCE and PCE exceeded NYSDOH Guidance criteria for *Mitigate*.

Structure B: Atlas Graphics (NYSDEC Site No. 130043B).

- TCE and PCE exceeded NYSDOH Guidance criteria for *Mitigate*.

Structure F: Former Tishcon Corp. (NYSDEC Site No. 130043F).

- 1,1,1-TCA and PCE exceeded NYSDOH Guidance criteria for *Monitor*.

Structure K: Former LAKA Industries, Inc. (NYSDEC Site No. 130043K).

- 1,1,1-TCA, PCE and TCE exceeded NYSDOH Guidance criteria for *Mitigate*.

Structure N: Former EZ-EM, Inc. (NYSDEC Site No. 130043N).

- 1,1,1-TCA, PCE and TCE exceeded NYSDOH Guidance criteria for *Mitigate*.

Structure V: Tishcon Corp, New York Ave. (NYSDEC Site No. 130043V).

- 1,1,1-TCA, PCE and TCE exceeded NYSDOH Guidance criteria for *Mitigate*.

Results from the 2010 VI Investigation in the sub-slab soil vapor and indoor air samples suggest further evaluation is necessary.

5.0 REFERENCES

Camp Dresser and McKee (CDM), 2008. Draft Site Characterization Report, Soil Vapor Intrusion Evaluation, New Cassel Industrial Area. April 15, 2008.

MACTEC Engineering and Consulting, P.C. (MACTEC), 2005. Program Health and Safety Plan. Prepared for New York State Department of Environmental Conservation, Albany, New York. 2005.

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New York State Department of Environmental Conservation (NYSDEC), 2002. Record of Decision Tishcon at 29 New York Avenue Site, Town of North Hempstead, Nassau County, New York, Site Number 1-30-043V. 2002.

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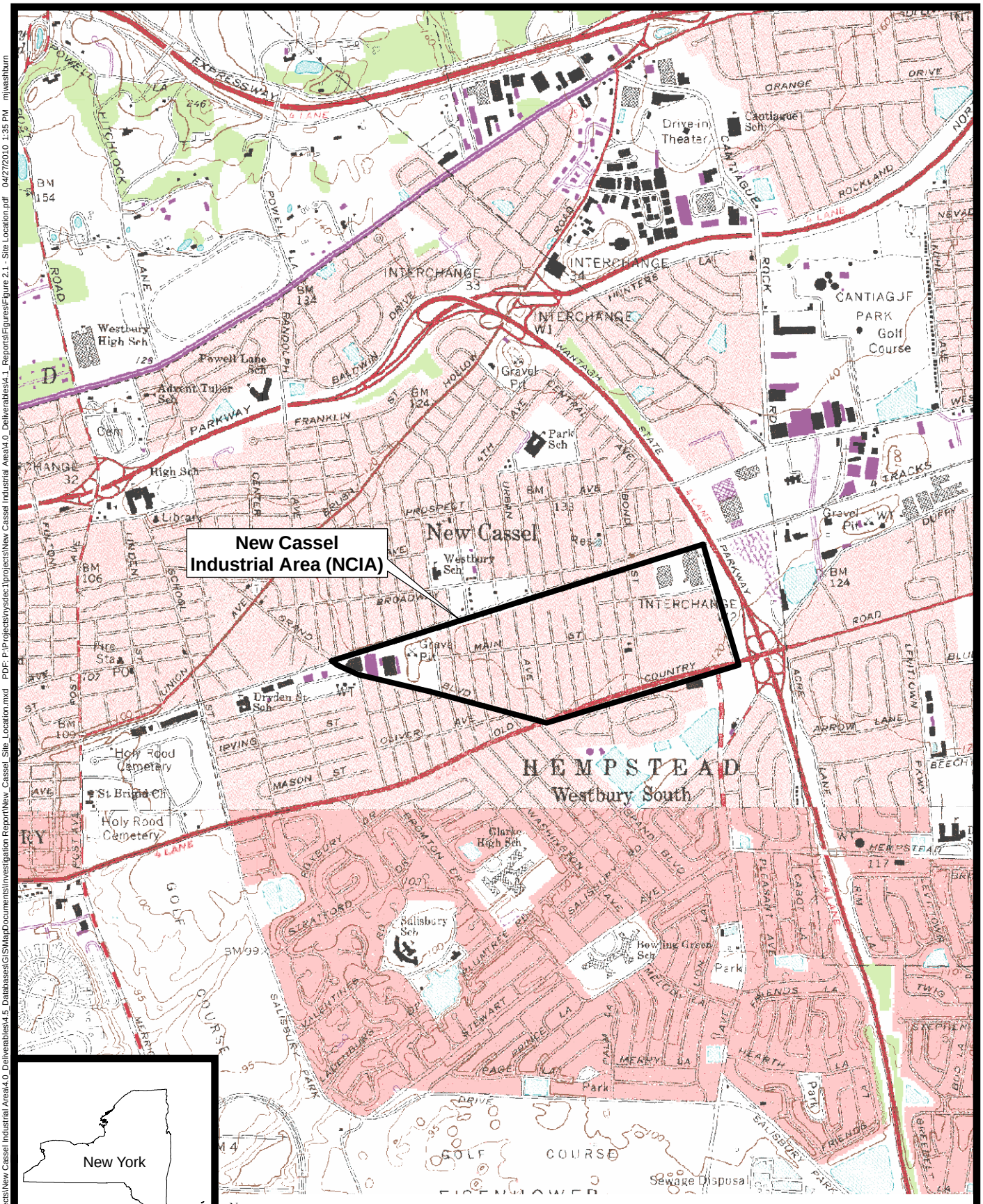
New York State Department of Health (NYSDOH), 2006. Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October 2006.

FIGURES



1:24,000 scale digital topographic map obtained from Cornell University Geospatial Information Repository (CUGIR) at: http://cugir.mannlib.cornell.edu

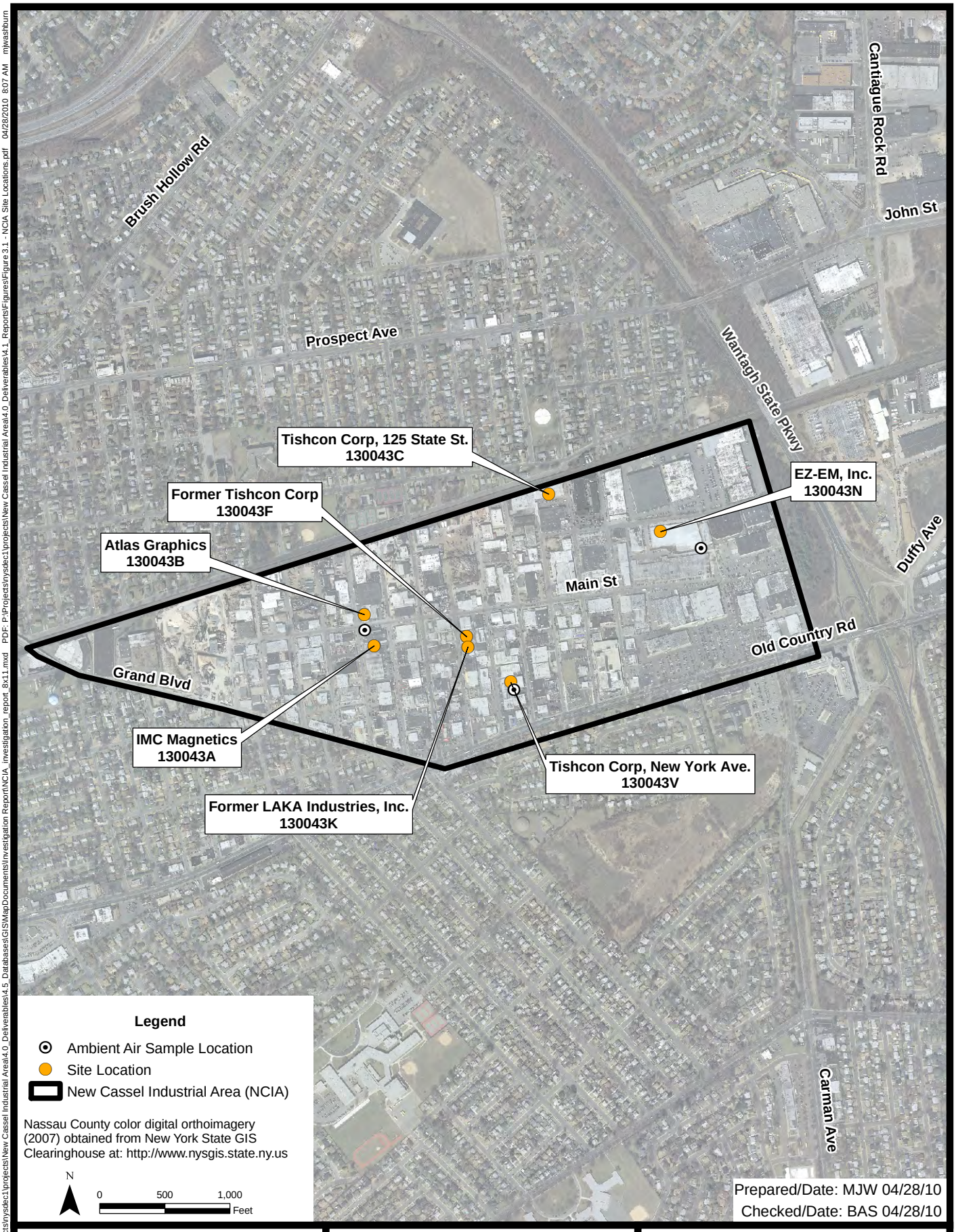
Prepared/Date: MJW 04/27/10
Checked/Date: BAS 04/27/10

VI INVESTIGATION REPORT
NEW CASSEL INDUSTRIAL AREA
NORTH HEMPSTEAD, NEW YORK

MACTEC

SITE LOCATION
Project 3612-09-2127
Figure 1.1

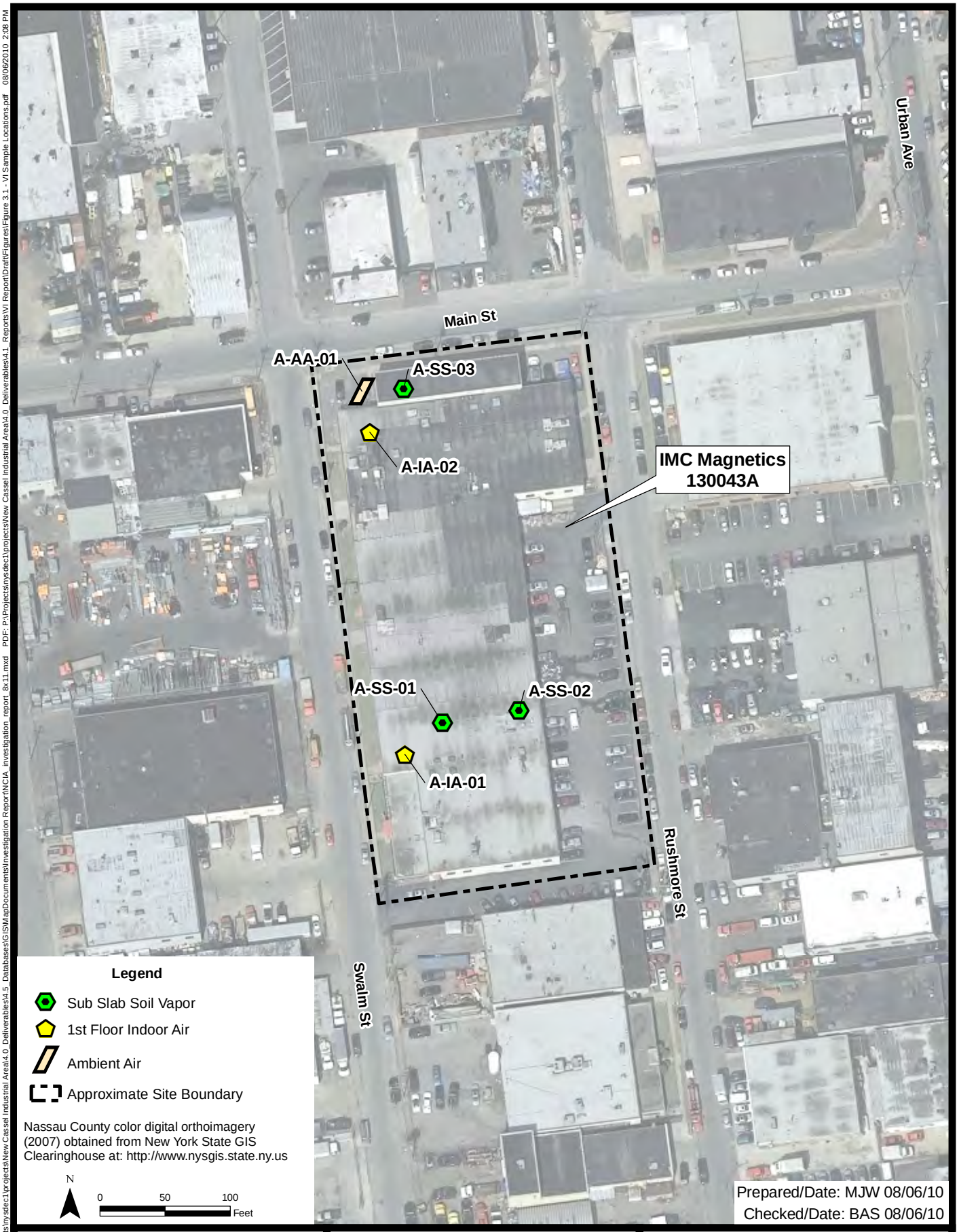
Document: P:\Projects\nysdec1\projects\New Cassel Industrial Area\4.0_Deliverables\4.5_Database\GISMapDocuments\Investigation Report\New_Cassel_Site_Location.mxd PDF: P:\Projects\nysdec1\projects\New Cassel Industrial Area\4.0_Deliverables\4.1_Reports\Figures\Figure 2.1 - Site Location.pdf 04/27/2010 1:35 PM mjwashburn



VI INVESTIGATION REPORT
NEW CASSEL INDUSTRIAL AREA
NORTH HEMPSTEAD, NEW YORK

MACTEC

NCIA Site Locations
Project 3612-09-2127
Figure 2.1



VI INVESTIGATION REPORT
NEW CASSEL INDUSTRIAL AREA
NORTH HEMPSTEAD, NEW YORK

MACTEC

VI Sample Locations
IMC Magnetics (130043A)
Project 3612-09-2127
Figure 3.1

Legend

- Sub Slab Soil Vapor
- 1st Floor Indoor Air
- Approximate Site Boundary

Nassau County color digital orthoimagery (2007) obtained from New York State GIS Clearinghouse at: http://www.nysgis.state.ny.us

N

0 50 100 Feet

Prepared/Date: MJW 08/06/10

Checked/Date: BAS 08/06/10

VI INVESTIGATION REPORT
NEW CASSEL INDUSTRIAL AREA
NORTH HEMPSTEAD, NEW YORK

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VI Sample Locations
Atlas Graphics (130043B)
Project 3612-09-2127
Figure 3.2

VI INVESTIGATION REPORT
NEW CASSEL INDUSTRIAL AREA
NORTH HEMPSTEAD, NEW YORK

MACTEC

VI Sample Locations
Former Tishcon Corp (130043F)
Project 3612-09-2127
Figure 3.3

VI INVESTIGATION REPORT
NEW CASSEL INDUSTRIAL AREA
NORTH HEMPSTEAD, NEW YORK

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VI Sample Locations
Former LAKA Industries, Inc. (130043K)
Project 3612-09-2127
Figure 3.4

Prepared/Date: MJW 08/06/10
Checked/Date: BAS 08/06/10

VI INVESTIGATION REPORT
NEW CASSEL INDUSTRIAL AREA
NORTH HEMPSTEAD, NEW YORK

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VI Sample Locations
EZ-EM, Inc. (130043N)
Project 3612-09-2127
Figure 3.5

VI INVESTIGATION REPORT
NEW CASSEL INDUSTRIAL AREA
NORTH HEMPSTEAD, NEW YORK

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VI Sample Locations
Tishcon Corp, New York Ave. (130043V)
Project 3612-09-2127
Figure 3.6

VI INVESTIGATION REPORT
NEW CASSEL INDUSTRIAL AREA
NORTH HEMPSTEAD, NEW YORK

MACTEC

Soil Boring Locations
Tishcon Corp, New York Ave. (130043V)
Project 3612-09-2127
Figure 3.7

TABLES

Table 2.1 - Property Address Summary

Property Address	Site Name	NYSDEC Site Number	Structure ID Number
570 Main Street, New Cassel, NY	IMC Magnetics	Site No. 130043A	Structure A
567 Main Street, New Cassel, NY	Atlas Graphics	Site No. 130043B	Structure B
68 Kinkel Street, Westbury, NY	Former Tishcon Corp	Site No. 130043F	Structure F
62 Kinkel Street, Westbury, NY	Former Laka Industries, Inc	Site No. 130043K	Structure K
750 Summa Avenue, North Hempstead, NY	EZ-EM, Inc	Site No. 130043N	Structure N
29 New York Avenue, North Hempstead, NY	Tishcon Corp (New York Ave)	Site No. 130043V	Structure V

Table 3.1 - IMC Magnetics (130043A) - 2010 Vapor Intrusion Results

Site Name and NYSDEC Site Number	IMC Magnetics (130043A)									
Site	Structure A									
Location	A-SS-01		A-SS-02		A-SS-03		A-IA-01		A-IA-02	
Sample Date	2/15/2010		2/15/2010		2/15/2010		2/15/2010		2/15/2010	
Sample ID	130043A-SS-01		130043A-SS-02		130043A-SS-03		130043A-IA-01		130043A-IA-02	
QC Code	FS		FS		FS		FS		FS	
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	**240**		**2.8**		**95**		0.83	UJ	0.83	UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	**11**		**2.3**		**470**	EJ	1.2	U	**1.8**	
1,1,2-Trichloroethane	**1.9**	J	0.83	U	0.83	U	0.83	UJ	0.83	UJ
1,1-Dichloroethane	**19**		0.62	U	0.62	U	0.62	U	0.62	U
1,2,4-Trimethylbenzene	**2.9**	J	**1.3**	J	**6.7**	J	**19**	J	**7**	J
1,3,5-Trimethylbenzene	**0.9**	J	0.75	UJ	**2.3**	J	**4.6**	J	**7.3**	J
2-Butanone	**13**		**2.9**		**4**		0.9	U	**5.2**	
2-Hexanone	1.2	UJ	1.2	U	**1.1**	J	1.2	UJ	1.2	UJ
2-Propanol	**260**		**40**		**53**		**120**		0.37	U
4-Ethyltoluene	0.75	UJ	0.75	U	**1.3**		**7.8**	J	**13**	J
4-Methyl-2-pentanone	**4.9**	J	**1**	J	**1**	J	**3.4**	J	**3.2**	J
Acetone	**170**		**28**		**46**		**39**		**49**	
Benzene	**17**		**0.62**		**4.3**		**8.4**	J	**11**	
Bromodichloromethane	1	UJ	1	U	1	U	1	UJ	**3.7**	J
Carbon disulfide	**6.8**		**0.98**		**1.3**		0.47	U	0.47	U
Carbon tetrachloride	0.96	UJ	0.96	U	0.96	U	**0.45**	J	**0.51**	J
Chloroform	**210**		**29**		**10**		**1.1**		**88**	
Chloromethane	0.31	U	0.31	U	0.31	U	**0.99**		**1.5**	
Cis-1,2-Dichloroethene	**2800**	EJ	0.6	U	0.6	U	**1.6**		0.6	U
Cyclohexane	**23**		**4.2**		0.52	U	**14**		**18**	
Dichlorodifluoromethane	0.75	U	**3.8**		**2.3**		**2.4**		**2.3**	
Ethyl acetate	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U
Ethyl benzene	**8.3**	J	**0.62**	J	**1.8**		**12**	J	**11**	J
Heptane	0.62	UJ	0.62	U	**3.6**		**13**		**27**	
Hexane	**5.9**		**1**		**3.7**		**21**		**29**	
Isooctane	**2.5**	J	0.71	U	**0.47**	J	**16**		**11**	
Methylene chloride	**71**		0.53	U	0.53	U	**3.5**		**1.2**	
Styrene	**1.6**	J	0.65	U	**0.69**		0.65	UJ	0.65	UJ
Tetrachloroethene	**400000**		**4600**		**42000**		**74**	J	**220**	J
Toluene	**19**		**3**		**7.7**		**41**		**47**	
trans-1,2-Dichloroethene	**420**		0.6	U	0.6	U	0.6	U	0.6	U
Trichloroethene	**4400**	J	**81**		**19**		**5.6**	J	**1.6**	J
Trichlorofluoromethane	0.86	U	**1.4**		**2.1**		**1.1**		**1**	
Xylene, m/p	**32**		**1.8**		**3.4**		**16**	J	**35**	J
Xylene, o	**8**	J	**0.62**	J	**1.5**		**13**	J	**10**	J

Notes:
NYSDEC = New York State Department of Environmental Conservation
Results in microgram per cubic meter ($\mu g/m^3$)
Samples analyzed for VOCs by USEPA Method TO-15.
Location Name: SV = Soil Vapor; IA = Indoor Air
QC Code:
FS = Field Sample
Qualifiers:
U = Not detected at a concentration greater than the reporting limit
E = Detected at a concentration greater than the calibration range
J = Estimated value
Bold = analyte detection
Reference:
New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.
Criteria:

Highlighted results within the guidance criteria for **Mitigate,** as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results within the criteria for **Monitor,** as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

Table 3.2 - Atlas Graphics (130043B) - 2010 Vapor Intrusion Results

Site Name and NYSDEC Site Number	Atlas Graphics (130043B)									
Site	Structure B									
Location	B-SS-01		B-SS-02		B-SS-03		B-IA-01		B-IA-02	
Sample Date	2/16/2010		2/16/2010		2/16/2010		2/16/2010		2/16/2010	
Sample ID	130043B-SS-01		130043B-SS-02		130043B-SS-03		130043B-IA-01		130043B-IA-02	
QC Code	FS		FS		FS		FS		FS	
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	**180**	EJ	**240**		**160**	EJ	0.83	U	0.83	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	**35**		**3.2**		**44**		1.2	U	1.2	U
1,1,2-Trichloroethane	0.83	U	**3.8**		**1.1**		0.83	U	0.83	U
1,1-Dichloroethane	**56**		**3.5**		**22**		0.62	U	0.62	U
1,1-Dichloroethene	0.6	U	**2.5**		0.6	U	0.6	U	0.6	U
1,2,4-Trimethylbenzene	**1.8**	J	**40**	J	**3.1**	J	**0.8**	J	**1.4**	J
1,3,5-Trimethylbenzene	0.75	UJ	**12**	J	**0.75**	J	0.75	UJ	**0.5**	J
1,4-Dioxane	1.1	U	**17**		1.1	U	1.1	U	1.1	U
2-Butanone	**6.6**	J	**7.8**	J	**5.7**	J	**1.5**		0.9	U
2-Hexanone	**1.3**		1.2	UJ	1.2	UJ	1.2	UJ	1.2	UJ
2-Propanol	**71**	EJ	**230**	J	**60**	EJ	**38**		**110**	
4-Ethyltoluene	**0.55**	J	**9.7**	J	**1.3**	J	**0.5**	J	**1**	J
4-Methyl-2-pentanone	**2.1**		**3.2**	J	1.2	UJ	1.2	UJ	1.2	UJ
Acetone	**110**	EJ	**610**		**82**	EJ	**180**		**360**	
Benzene	**1.5**		**5**		**1.8**		**1.3**		**2.1**	
Carbon disulfide	**10**		**10**		**3.2**		0.47	U	0.47	U
Chloroform	**4.6**		**31**		**17**		0.74	U	0.74	U
Chloromethane	0.31	U	0.31	U	0.31	U	**0.73**		**0.59**	
Cis-1,2-Dichloroethene	**19**		**26**		**8.5**		0.6	U	0.6	U
Cyclohexane	0.52	U	0.52	U	0.52	U	0.52	U	**3.3**	
Dichlorodifluoromethane	**2.3**		**2.6**		**2.8**		**2**		**2**	
Ethyl acetate	0.92	U	0.92	U	0.92	U	0.92	U	**1.4**	
Ethyl benzene	**22**		**270**		**180**	EJ	**1300**	EJ	**2300**	EJ
Heptane	0.62	U	0.62	U	0.62	U	**1.2**		**2.5**	
Hexane	0.54	U	0.54	U	0.54	U	**2.1**		**4.9**	
Isooctane	0.71	U	0.71	U	0.71	U	**1.1**		**2.2**	
Methylene chloride	0.53	U	0.53	U	0.53	U	**0.42**	J	**0.42**	J
Styrene	**2.6**		0.65	UJ	0.65	UJ	0.65	UJ	0.65	UJ
Tetrachloroethene	**4200**		**1400**		**1700**	J	**1.9**	J	**1.6**	J
Toluene	**17**		**76**		**46**		**600**		**1300**	EJ
trans-1,2-Dichloroethene	0.6	U	**5.1**		0.6	U	0.6	U	0.6	U
Trichloroethene	**16000**		**31000**		**4100**		**27**		**28**	
Trichlorofluoromethane	**3.5**		**53**		**42**		**0.97**		**0.97**	
Xylene, m/p	**92**		**1200**		**740**	EJ	**4600**	EJ	**6900**	EJ
Xylene, o	**10**		**150**		**80**		**430**		**900**	J

Notes:
NYSDEC = New York State Department of Environmental Conservation
Results in microgram per cubic meter ($\mu g/m^3$)
Samples analyzed for VOCs by USEPA Method TO-15.
Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air
QC Code:
FS = Field Sample
Qualifiers:
U = Not detected at a concentration greater than the reporting limit
E = Detected at a concentration greater than the calibration range
J = Estimated value
Bold = analyte detection
Reference:
New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.
Criteria:

Highlighted results within the guidance criteria for **Mitigate,** as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results within the criteria for **Monitor,** as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

Table 3.3 - Former Tishcon Corp. (130043F) - 2010 Vapor Intrusion Results

Site Name and NYSDEC Site Number	Former Tishcon Corp (130043F)									
Site	Structure F									
Location	F-SS-01		F-SS-02		F-SS-03		F-IA-01		F-IA-02	
Sample Date	2/16/2010		2/16/2010		2/16/2010		2/16/2010		2/16/2010	
Sample ID	130043F-SS-01		130043F-SS-02		130043F-SS-03		130043F-IA-01		130043F-IA-02	
QC Code	FS		FS		FS		FS		FS	
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	**60**		**9.9**		**110**		0.83	U	0.83	UJ
1,2,4-Trimethylbenzene	**1**	J	**7.4**	J	**1.2**		**7.4**	J	**2.7**	J
1,3,5-Trimethylbenzene	0.75	UJ	**2.7**	J	0.75	UJ	**1.6**	J	**1.2**	J
1,4-Dioxane	**0.4**	J	1.1	U	1.1	U	1.1	U	1.1	UJ
2-Butanone	**4.7**		**12**		**1.7**		**8.3**		0.9	U
2-Hexanone	1.2	U	**1.4**	J	1.2	U	1.2	UJ	1.2	UJ
2-Propanol	**66**	EJ	**59**		**25**		**5.5**		0.37	U
4-Ethyltoluene	0.75	U	**1.8**	J	0.75	U	**3.4**	J	**1.7**	J
4-Methyl-2-pentanone	**0.96**	J	**3.1**	J	**0.75**	J	**2**	J	**1.6**	J
Acetone	**63**	EJ	**300**		**43**		**24**	EJ	**24**	EJ
Benzene	**0.78**		**3.2**		**0.42**	J	**1.4**		**1.6**	J
Carbon disulfide	**1.2**		**5.6**		**0.57**		0.47	U	**0.6**	J
Carbon tetrachloride	0.96	U	0.96	U	0.96	U	**0.51**	J	**0.45**	J
Chloroform	0.74	U	**0.94**		0.74	U	0.74	U	0.74	U
Chloromethane	0.31	U	0.31	U	0.31	U	**0.86**		**0.76**	J
Cyclohexane	0.52	U	**14**		0.52	U	0.52	U	**36**	J
Dichlorodifluoromethane	**5.7**		**2.4**		0.75	U	**2.3**		**2.2**	J
Ethyl acetate	0.92	U	0.92	U	0.92	U	0.92	U	**26**	EJ
Ethyl benzene	**1.7**		**2.5**	J	**1.1**		**7.3**	J	**3.8**	J
Heptane	0.62	U	**8.3**		**0.46**	J	**1.7**		**3.1**	J
Hexane	0.54	U	**7.5**		0.54	U	0.54	U	**16**	EJ
Isooctane	0.71	U	0.71	U	0.71	U	0.71	U	**0.57**	J
Methylene chloride	0.53	U	0.53	U	0.53	U	**0.42**	J	**1.6**	J
Styrene	**0.61**	J	0.65	UJ	0.65	U	0.65	UJ	**1.3**	J
Tetrachloroethene	**280**		**110**	J	**290**		**1.7**	J	**1.9**	J
Toluene	**2.8**		**12**		**1.4**		**7.2**	J	**71**	EJ
Trichloroethene	**0.6**	J	**4.2**		**0.82**		**3.2**		**1.8**	J
Trichlorofluoromethane	**5.7**		**2.3**		**5.5**		**1.2**		**1**	J
Xylene, m/p	**5.4**		**14**	J	**3**		**5.5**	J	**9.7**	J
Xylene, o	**0.88**		**3.8**	J	**0.53**	J	**2.6**	J	**2.7**	J

Notes:
NYSDEC = New York State Department of Environmental Conservation
Results in microgram per cubic meter ($\mu g/m^3$)
Samples analyzed for VOCs by USEPA Method TO-15.
Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air
QC Code:
FS = Field Sample
Qualifiers:
U = Not detected at a concentration greater than the reporting limit
E = Detected at a concentration greater than the calibration range
J = Estimated value
Bold = analyte detection
Reference:
New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.
Criteria:

Highlighted results within the criteria for **Monitor,** as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

Table 3.4 - Former LAKA Industries, Inc. (130043K) - 2010 Vapor Intrusion Results

Site Name and NYSDEC Site Number	Former LAKA Industries, Inc. (130043K)									
Site	Structure K									
Location	K-SS-01		K-SS-02		K-SS-03		K-IA-01		K-IA-02	
Sample Date	2/16/2010		2/16/2010		2/16/2010		2/16/2010		2/16/2010	
Sample ID	130043K-SS-01		130043K-SS-02		130043K-SS-03		130043K-IA-01		130043K-IA-02	
QC Code	FS		FS		FS		FS		FS	
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	**77**		**36**		**2100**		0.83	U	0.83	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.2	U	1.2	U	**5**		1.2	U	1.2	U
1,1-Dichloroethane	**1.9**		**1.2**		**35**		0.62	U	0.62	U
1,2,4-Trimethylbenzene	**2.7**	J	0.75	UJ	**54**	J	**1.3**		**1.8**	
1,3,5-Trimethylbenzene	**0.8**	J	0.75	UJ	**21**	J	0.75	U	**0.55**	J
1,4-Dioxane	1.1	U	1.1	U	**6**	J	1.1	U	1.1	U
2-Butanone	**6.6**	J	**2**		**57**		**4.1**		**2.3**	
2-Hexanone	1.2	UJ	1.2	U	**26**	J	1.2	U	1.2	U
2-Propanol	**32**		**39**		0.37	UJ	**58**	EJ	**51**	EJ
4-Ethyltoluene	**0.95**	J	0.75	U	**15**	J	0.75	U	**0.8**	
4-Methyl-2-pentanone	**1.2**	J	1.2	U	**12**	J	1.2	U	1.2	U
Acetone	**96**		**32**		**200**	EJ	**29**	EJ	**74**	EJ
Benzene	**4.3**		**0.58**		**67**		**1.2**		**1.8**	
Carbon disulfide	**14**		**1.5**		**11**		0.47	U	0.47	U
Carbon tetrachloride	**0.7**	J	0.96	U	0.96	UJ	**0.51**	J	**0.51**	J
Chloroform	**20**		**8.9**		**23**		0.74	U	0.74	U
Chloromethane	0.31	U	0.31	U	0.31	U	**0.86**		**0.8**	
Cis-1,2-Dichloroethene	**1.3**		**2.8**		**120**		0.6	U	0.6	U
Cyclohexane	0.52	U	0.52	U	**16**		0.52	U	0.52	U
Dichlorodifluoromethane	0.75	U	**9.4**		0.75	U	**2.4**		**2.3**	
Ethyl benzene	**58**		**4.3**		**19**	J	**1.1**		**2.1**	
Heptane	**4**		0.62	U	**66**		**1.9**		**1.2**	
Hexane	**4.1**		0.54	U	**56**		0.54	U	0.54	U
Isooctane	0.71	U	0.71	U	0.71	UJ	0.71	U	**1.1**	
Methylene chloride	0.53	U	0.53	U	0.53	U	**0.46**	J	**0.39**	J
Styrene	**3.6**	J	0.65	U	0.65	UJ	**0.48**	J	**1.4**	
Tetrachloroethene	**280**		**650**		**1500**		**1.7**		**5.4**	
Toluene	**46**		**5.1**		**36**	J	**12**	EJ	**18**	EJ
Trichloroethene	**930**		**490**		**10000**		**0.87**		**0.6**	
Trichlorofluoromethane	**4.4**		**37**		**10**		**1.1**		**1.7**	
Xylene, m/p	**220**		**15**		**50**	J	**3.3**		**7.1**	
Xylene, o	**17**		**1.6**		**17**	J	**1.1**		**2.2**	

Notes:
NYSDEC = New York State Department of Environmental Conservation
Results in microgram per cubic meter ($\mu g/m^3$)
Samples analyzed for VOCs by USEPA Method TO-15.
Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air
QC Code:
FS = Field Sample
Qualifiers:
U = Not detected at a concentration greater than the reporting limit
E = Detected at a concentration greater than the calibration range
J = Estimated value
Bold = analyte detection
Reference:
New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

Criteria:

Highlighted results within the guidance criteria for **Mitigate,** as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results within the criteria for **Monitor,** as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

Created by: BAS 04/27/2010
Checked by: LJB 04/28/2010

Table 3.5 - Former EZ-EM, Inc. (130043N) - 2010 Vapor Intrusion Results

Site Name and NYSDEC Site Number	EZ-EM, Inc. (130043N)									
Site	Structure N									
Location	N-SS-01		N-SS-02		N-SS-03		N-IA-01		N-IA-02	
Sample Date	2/16/2010		2/16/2010		2/16/2010		2/16/2010		2/16/2010	
Sample ID	130043N-SS-01		130043N-SS-02		130043N-SS-03		130043N-IA-01		130043N-IA-02	
QC Code	FS		FS		FS		FS		FS	
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	**390**		**53000**		**640**		**1.2**		**1.2**	
1,1,2-Trichloro-1,2,2-Trifluoroethane	**1.9**		**26**		**3**		1.2	U	1.2	U
1,1-Dichloroethane	**2.1**		**10**		**0.78**		0.62	U	0.62	U
1,1-Dichloroethene	0.6	U	**32**		0.6	U	0.6	U	0.6	U
1,2,4-Trimethylbenzene	**2.1**	J	**660**	EJ	**3.9**	J	**1**		0.75	U
1,3,5-Trimethylbenzene	**1**	J	**380**	EJ	**1.7**	J	0.75	U	0.75	U
1,4-Dioxane	1.1	U	**20**		1.1	U	1.1	U	1.1	U
2-Butanone	**9.6**		**140**	EJ	**3.4**		**1.6**		**0.78**	J
2-Hexanone	**2.4**	J	**31**		**1.3**		1.2	U	1.2	U
2-Propanol	**64**		**87**	J	**68**	J	**2**		**2**	
4-Ethyltoluene	**0.75**	J	**280**	EJ	**1.3**		0.75	U	0.75	U
4-Methyl-2-pentanone	**1.3**	J	**17**		**0.75**	J	1.2	U	1.2	U
Acetone	**110**		**1100**	EJ	**35**		**14**	EJ	**12**	EJ
Benzene	**2.6**		**9.4**		**0.65**		**0.81**		**0.78**	
Carbon disulfide	**6.2**		**15**		**1.9**		0.47	U	0.47	U
Carbon tetrachloride	0.96	U	0.96	UJ	0.96	U	**0.58**	J	**0.7**	J
Chlorobenzene	0.7	UJ	**0.51**	J	0.7	U	0.7	U	0.7	U
Chloroform	**2.8**		**15**		**0.69**	J	0.74	U	0.74	U
Chloromethane	0.31	U	0.31	U	0.31	U	**1**		**0.78**	
Cis-1,2-Dichloroethene	**2**		**0.64**		0.6	U	0.6	U	0.6	U
Cyclohexane	**3.3**		0.52	UJ	0.52	U	0.52	U	0.52	U
Dichlorodifluoromethane	**2**		0.75	U	0.75	U	**2.3**		**2.3**	
Ethyl acetate	0.92	U	**0.73**	J	0.92	U	0.92	U	0.92	U
Ethyl benzene	**1.9**	J	**230**	EJ	**2.8**		0.66	U	0.66	U
Heptane	**1.5**		**7.3**	J	**0.79**		0.62	U	0.62	U
Isooctane	0.71	U	**1.3**	J	0.71	U	0.71	U	0.71	U
Methylene chloride	0.53	U	0.53	U	0.53	U	0.53	U	**0.39**	J
Styrene	**0.87**	J	0.65	UJ	0.65	U	0.65	U	0.65	U
Tetrachloroethene	**15000**		**9400**		**1200**		**1.6**		**1**	
Tetrahydrofuran	**1.7**	J	**50**	J	**18**	J	0.45	U	0.45	U
Toluene	**2.8**	J	**38**		**2.8**		**1.5**		**1.4**	
Trichloroethene	**1000**		**3200**	J	**80**		0.22	U	**0.33**	
Trichlorofluoromethane	**1.1**		0.86	U	**1.2**		**0.97**		**1.1**	
Xylene, m/p	**5.7**	J	**1500**	EJ	**12**		**0.79**	J	**0.66**	J
Xylene, o	**1.6**	J	**640**	EJ	**3**		0.66	U	0.66	U

Notes:
NYSDEC = New York State Department of Environmental Conservation
Results in microgram per cubic meter ($\mu g/m^3$)
Samples analyzed for VOCs by USEPA Method TO-15.
Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air
QC Code:
FS = Field Sample
Qualifiers:
U = Not detected at a concentration greater than the reporting limit
J = Estimated value
Bold = analyte detection
Reference:
New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

Criteria:

Highlighted results within the guidance criteria for **Mitigate,** as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

Table 3.6 - Tishcon Corp, New York Ave. (130043V) - 2010 Vapor Intrusion Results

Site Name and NYSDEC Site Number	Tishcon Corp, New York Ave. (130043V)											
Site	Structure V											
Location	V-SS-01		V-SS-02		V-SS-02		V-SS-03		V-IA-01		V-IA-02	
Sample Date	2/18/2010		2/18/2010		2/18/2010		2/18/2010		2/18/2010		2/18/2010	
Sample ID	130043V-SS-01		130043V-SS-02		130043V-SS-02D		130043V-SS-03		130043V-IA-01		130043V-IA-02	
QC Code	FS		FS		FD		FS		FS		FS	
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	**5500**		**3800**	J	**290**	J	**27000**		**4.2**	J	**4.7**	J
1,1,2-Trichloro-1,2,2-Trifluoroethane	**8.3**		**2.1**		**0.93**	J	**12**		1.2	U	1.2	U
1,1,2-Trichloroethane	0.83	U	0.83	U	0.83	UJ	**1.8**		0.83	UJ	0.83	UJ
1,1-Dichloroethane	**72**		**79**	J	**8.2**	J	**7900**		**1.5**		**1.6**	
1,1-Dichloroethene	**54**		**780**	J	**25**	J	**240**	EJ	0.6	U	0.6	U
1,2,4-Trimethylbenzene	**5**	J	**16**	J	**2.7**	J	**7**	J	**1**	J	**1.3**	J
1,3,5-Trimethylbenzene	**3.7**	J	**13**	J	**1.3**	J	**4.5**	J	0.75	UJ	0.75	UJ
1,4-Dichlorobenzene	0.92	U	**0.86**	J	**1.7**	J	0.92	U	**1.8**	J	**1.6**	J
1,4-Dioxane	**7.5**		**27**	J	1.1	UJ	**10**	EJ	1.1	UJ	1.1	UJ
2-Butanone	**2.7**		**4.9**		**4.5**		**2.8**		**4.9**		**4.4**	
2-Hexanone	1.2	U	**0.92**	J	1.2	UJ	**1**	J	1.2	UJ	1.2	UJ
2-Propanol	**95**	EJ	**21**	J	0.37	UJ	**42**		**28**		0.37	U
4-Ethyltoluene	**1.1**		0.75	UJ	**1.6**	J	**6.6**		**0.55**	J	**0.55**	J
4-Methyl-2-pentanone	**12**		**1000**	EJ	**31**	J	**13**		**2.6**	J	**3.6**	J
Acetone	**30**		**350**		**170**		**49**		**140**		**280**	
Benzene	**1.3**		**1.6**		**1.6**	J	**2.1**		**1.3**	J	**1.3**	J
Carbon disulfide	**0.79**		**9.2**		**0.98**		**4.1**		0.47	U	0.47	U
Carbon tetrachloride	**0.9**	J	0.96	U	0.96	UJ	0.96	U	**0.51**	J	**0.51**	J
Chlorobenzene	0.7	U	0.7	UJ	**0.51**	J	0.7	U	0.7	UJ	**0.47**	J
Chloroform	**8.7**		**1.3**		0.74	U	**40**		0.74	U	0.74	U
Chloromethane	0.31	U	0.31	U	0.31	U	0.31	U	**1.4**		**1.1**	
Cis-1,2-Dichloroethene	**1.8**		0.6	U	0.6	U	**49**		0.6	U	0.6	U
Dichlorodifluoromethane	0.75	U	**2.2**		0.75	U	0.75	U	**3**		**3.2**	
Ethyl acetate	0.92	U	**1.1**		**2.3**		0.92	U	**3.5**		**3.5**	
Ethyl benzene	**15**		**390**	J	**68**		**55**	EJ	**41**		**59**	
Heptane	**1.2**		**3.1**	J	**9.7**	J	**1.8**		**9.2**	J	**8.7**	
Hexane	0.54	U	**3.5**		**10**		0.54	U	**6.4**		**5.4**	
Methylene chloride	0.53	U	0.53	U	**1.6**		0.53	U	**1.5**		**1.7**	
Tetrachloroethene	**1100**		**780**	J	**1500**		**1500**		**610**		**1600**	J
Toluene	**5.1**		**320**		**110**		**12**		**59**		**68**	
trans-1,2-Dichloroethene	0.6	U	0.6	U	0.6	U	**2.9**		0.6	U	0.6	U
Trichloroethene	**1000**		**43**	J	**5.8**	J	**800**		**2.5**	J	**2.5**	J
Trichlorofluoromethane	**3**		**2.6**		**6.7**		**2.7**		**4.2**		**4.6**	
Xylene, m/p	**59**		**1500**		**250**		**200**	EJ	**83**	J	**290**	
Xylene, o	**10**		**360**	J	**80**	J	**53**	EJ	**27**		**38**	

Notes:
NYSDEC = New York State Department of Environmental Conservation
Results in microgram per cubic meter ($\mu g/m^3$)
Samples analyzed for VOCs by USEPA Method TO-15.
Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air
QC Code:
FS = Field Sample
FD = Field Duplicate Sample
Qualifiers:
U = Not detected at a concentration greater than the reporting limit
E = Detected at a concentration greater than the calibration range
J = Estimated value
Bold = analyte detection
Reference:
New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.
Criteria:

Highlighted results within the guidance criteria for **Mitigate,** as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results within the criteria for **Monitor,** as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

Table 3.7 - NCIA (130043) - Ambient Air Results

Location	A-AA-1		N-AA-2		V-AA-1	
Sample Date	2/15/2010		2/16/2010		2/18/2010	
Sample ID	130043-AA-01		130043-AA-02		130043V-AA-01	
QC Code	FS		FS		FS	
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	0.83	U	0.83	U	0.83	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.2	U	1.2	U	1.2	U
1,1,2-Trichloroethane	0.83	U	0.62	U	0.83	U
1,1-Dichloroethane	0.62	U	0.6	U	0.62	U
1,2,4-Trimethylbenzene	**2**		0.75	U	0.6	U
1,3,5-Trimethylbenzene	**1.2**		0.75	U	0.75	U
2-Butanone	0.9	U	1.1	U	0.75	U
2-Hexanone	1.2	U	**0.78**	J	0.92	U
2-Propanol	0.37	U	1.2	U	1.1	U
4-Ethyltoluene	**1.3**		**2.1**		**1.1**	
4-Methyl-2-pentanone	1.2	U	0.75	U	1.2	U
Acetone	**44**		1.2	U	**6.2**	EJ
Benzene	**1.3**		**12**	EJ	0.75	U
Bromodichloromethane	1	U	**0.75**		1.2	U
Carbon disulfide	**0.41**	J	0.47	U	**17**	EJ
Carbon tetrachloride	**0.58**	J	**0.58**	J	**0.88**	
Chloroform	**1.2**		0.7	U	0.47	U
Chloromethane	**0.69**		0.74	U	**0.58**	J
Cis-1,2-Dichloroethene	0.6	U	**0.78**		0.7	U
Cyclohexane	**12**		0.6	U	0.74	U
Dichlorodifluoromethane	**2.2**		0.52	U	**0.8**	
Ethyl acetate	**11**	J	**2.3**		0.6	U
Ethyl benzene	**11**		0.92	U	**2.5**	
Heptane	**1.7**		0.66	U	0.92	U
Hexane	**6.6**		0.62	U	**0.49**	J
Isooctane	**0.62**	J	0.71	U	0.62	U
Methylene chloride	**1.3**		0.53	U	0.54	U
Styrene	**1.7**		0.65	U	**1.3**	
Tetrachloroethene	**4.6**		**1.1**		**4.1**	
Toluene	**57**		0.45	U	**3.7**	
trans-1,2-Dichloroethene	**0.69**		**2.3**		0.6	U
Trichloroethene	**2.1**		0.22	U	0.22	U
Trichlorofluoromethane	**1.1**		**1**		**1.2**	
Xylene, m/p	**11**	J	1.3	U	**1.2**	J
Xylene, o	**6.3**		0.66	U	0.66	U

Notes:

NYSDEC = New York State Department of Environmental Conservation

Results in microgram per cubic meter ($\mu g/m^3$)

Samples analyzed for VOCs by USEPA Method TO-15.

Location Name: AA = Ambient Air

A-AA-1 = IMC Magnetics (130043A)

N-AA-2 = EZ-EM, Inc. (130043N)

V-AA-1 = Tishcon Corp, New York Ave. (130043V)

QC Code:

FS = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

E = Detected at a concentration greater than the calibration range

J = Estimated value

Bold = analyte detection

Reference:

New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

Table 3.8: Tishcon Corp, New York Ave. (130043V) Direct Push Soil VOC Results

Location		V-DP-01		V-DP-02		V-DP-04		V-DP-05	
Sample Date		5/19/2010		5/19/2010		5/19/2010		5/19/2010	
Sample ID		130043V-DP125		130043V-DP224		130043V-DP410		130043V-DP511	
Sample Depth (ft bgs)		25		24		10		11	
Parameter Name (mg/kg)	**Criteria**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	0.68	0.0055	U	0.0056	U	**0.0081**		0.0041	U
1,1-Dichloroethane	0.27	**0.0017**	J	0.0056	U	**0.0031**		0.0041	U
Acetone	0.05	**0.019**	J	**0.023**	J	0.015	U	0.02	U
Methylene chloride	0.05	**0.0036**	J	**0.0039**	J	0.003	U	**0.0012**	J
Tetrachloroethene	1.3	0.0055	U	0.0056	U	**0.0012**	J	0.0041	U

Notes:
VOC = volatile organic compounds (only detected compounds shown.)
Samples analyzed for VOCs by EPA Method 8260B
mg/kg = milligrams per kilogram
ft bgs = feet below ground surface
Qualifiers:
U = Not detected greater than the reporting limit
J = Estimated value
Criteria = 6 NYCRR 375 Soil Cleanup Objectives for unrestricted use.
Detections are indicated in **BOLD**

APPENDIX A

FIELD DATA RECORDS

INDOOR AIR SAMPLING RECORD

Project Name: NCA. Client: NYSDEC Location ID: A

Project Number: 3612092127 Collector: B Shaw Date: 02-15-2010

SUMMA Canister Record Information:

INDOOR AIR SAMPLE		INDOOR AIR SAMPLE		INDOOR AIR SAMPLE		ASSOCIATED AMBIENT	
Flow Regulator No:	688	Flow Regulator No:	695	Flow Regulator No:		Flow Regulator No:	678
Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):	
Canister Serial No:	314	Canister Serial No:	166	Canister Serial No:		Canister Serial No:	246
Start Date/Time:	02-15-10 1810	Start Date/Time:	02-15-10 1835	Start Date/Time:		Start Date/Time:	2-15-10 18:47
Start Pressure ("Hg):	-30	Start Pressure ("Hg):	-29	Start Pressure ("Hg):		Start Pressure ("Hg):	-30
Stop Date/Time:	02-16-10 1720	Stop Date/Time:	02-16-10 1732	Stop Date/Time:		Stop Date/Time:	02-16-10 1734
Stop Pressure ("Hg):	-2	Stop Pressure ("Hg):	-3	Stop Pressure ("Hg):		Stop Pressure ("Hg):	-3
Sample ID: 130043A-IA-01		Sample ID: 130043A-IA-02		Sample ID:		Sample ID: 130043-AA-01	

Other Sampling Information:

Story/Level:	1ST	Story/Level:	1st	Story/Level:		Direction from Building:	N
Room:	Classroom	Room:	office-pod	Room:		Distance from Building:	~5'
Potential Vapor Entry Points:	none	Potential Vapor Entry Points:	none	Potential Vapor Entry Points:		Distance from Roadway:	~50'
Floor Surface:	tile	Floor Surface:	carpet	Floor Surface:		Ground Surface:	Snow
Noticable Odor:	Slight.	Noticable Odor:	chlorine	Noticable Odor:		Noticable Odor:	none
PID Reading (ppb):	450 ppb	PID Reading (ppb):	950 ppb	PID Reading (ppb):		PID Reading (ppb):	<0.1
Intake Height:	~3'	Intake Height:	~4'	Intake Height:		Intake Height Above Ground Surface:	~2.5'
Indoor Air Temp:	~18°C	Indoor Air Temp:	~20°C	Indoor Air Temp:		Intake Tubing Used?	N

Comments/Location Sketch:

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INDOOR AIR SAMPLING RECORD

INDOOR AIR SAMPLING RECORD

Project Name: NCIA Client: NYSDEC Location ID: SS-01 A (RHW 2/15/10)

Project Number: 361209212 7 Collector: BAS Date: 2/15/10

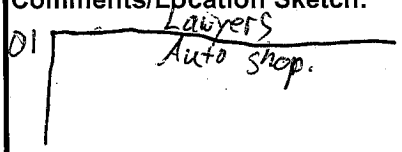
SUMMA Canister Record Information:

SUBSLAB SOIL VAPOR SAMPLE		SUBSLAB SOIL VAPOR SAMPLE		SUBSLAB SOIL VAPOR SAMPLE		ASSOCIATED AMBIENT	
Flow Regulator No:	699	Flow Regulator No:	690	Flow Regulator No:	679	Flow Regulator No:	678
Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):	
Canister Serial No:	627	Canister Serial No:	605	Canister Serial No:	576	Canister Serial No:	246
Start Date/Time:	2/15: 1811	Start Date/Time:	2/15: 1756	Start Date/Time:	02-15-10 1842	Start Date/Time:	02-15-10 1847
Start Pressure ("Hg):	-30+	Start Pressure ("Hg):	-29	Start Pressure ("Hg):	-30	Start Pressure ("Hg):	-30.
Stop Date/Time:	02-16-10 1709	Stop Date/Time:	02-16-10 1719	Stop Date/Time:	02-16-10 1734	Stop Date/Time:	02-16-10 1734
Stop Pressure ("Hg):	-4	Stop Pressure ("Hg):	-1	Stop Pressure ("Hg):	-1	Stop Pressure ("Hg):	-3
Sample ID: 130043A-SS-01		Sample ID: 130043A-SS-02		Sample ID: 130043A-SS-03		Sample ID: 130043-AA-01	

Other Sampling Information:

Finished Basement, Crawl Space, Unfinished Basement	Garage	Finished Basement, Crawl Space, Unfinished Basement	Finished	Finished Basement, Crawl Space, Unfinished Basement	Office	Direction from Building:	N
Floor Slab Thickness:	~6"	Floor Slab Thickness:	~5.5"	Floor Slab Thickness:	~6"	Distance from Building:	~5'
Potential Vapor Entry Points:	None.	Potential Vapor Entry Points:	None	Potential Vapor Entry Points:	None	Distance from Roadway:	~50'
Floor Surface:	Concrete	Floor Surface:	Concrete	Floor Surface:	tile	Ground Surface:	Snow
Noticable Odor:	na	Noticable Odor:	na	Noticable Odor:	na.	Noticable Odor:	None
PID Reading (ppb):	27.8 ppm	PID Reading (ppb):	2 ppm?	PID Reading (ppb):	8 ppm	PID Reading (ppb):	0.1
Intake Depth/Height:	~8"	Intake Depth/Height:	~7"	Intake Depth/Height:	~8"	Intake Height Above Ground Surface:	~2.5'
Helium Test Conducted? Breakthrough %:	No.	Helium Test Conducted?	NO.	Helium Test Conducted?	NO.	Intake Tubing Used?	N.

Comments/Location Sketch:



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INDOOR AIR SAMPLING RECORD

INDOOR AIR SAMPLING RECORD

Project Name: NUIA Client: NYSDEC Location ID: Structure B

Project Number: 361209217 Collector: B Shaw Date: 02-16-2010

SUMMA Canister Record Information:

INDOOR AIR SAMPLE		INDOOR AIR SAMPLE		INDOOR AIR SAMPLE		ASSOCIATED AMBIENT	
Flow Regulator No:	677	Flow Regulator No:	685	Flow Regulator No:		Flow Regulator No:	
Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):	
Canister Serial No:	323	Canister Serial No:	461	Canister Serial No:		Canister Serial No:	
Start Date/Time:	2/16/10 0956 ~~10:56~~ ET	Start Date/Time:	2/16/10 ~~10:54~~ 0954 ET	Start Date/Time:		Start Date/Time:	
Start Pressure ("Hg):	-30+	Start Pressure ("Hg):	-29	Start Pressure ("Hg):		Start Pressure ("Hg):	
Stop Date/Time:	02-17-10 0816	Stop Date/Time:	02-17-10 0817	Stop Date/Time:		Stop Date/Time:	
Stop Pressure ("Hg):	-5	Stop Pressure ("Hg):	-3	Stop Pressure ("Hg):		Stop Pressure ("Hg):	
Sample ID:	130043B-IA-01	Sample ID:	130043-IA-02	Sample ID:		Sample ID:	

Other Sampling Information:

Story/Level:	1st Floor or Ground Floor	Story/Level:	1st or Ground Floor	Story/Level:		Direction from Building:	
Room:	Office	Room:	Shop	Room:		Distance from Building:	
Potential Vapor Entry Points:	No	Potential Vapor Entry Points:	leaky door	Potential Vapor Entry Points:		Distance from Roadway:	
Floor Surface:	Concrete	Floor Surface:	Concrete	Floor Surface:		Ground Surface:	
Noticable Odor:	Yes. Developer	Noticable Odor:	Yes. Developer	Noticable Odor:		Noticable Odor:	
PID Reading ~~(ppb)~~:	21.4 ppm	PID Reading (ppb):	23.1 ppm	PID Reading (ppb):		PID Reading (ppb):	
Intake Height:	3 ft.	Intake Height:	4 ft.	Intake Height:		Intake Height Above Ground Surface:	
Indoor Air Temp:	68°F	Indoor Air Temp:	68°F	Indoor Air Temp:		Intake Tubing Used?	

Comments/Location Sketch:

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INDOOR AIR SAMPLING RECORD

INDOOR AIR SAMPLING RECORD

Project Name: NCIA Client: NYSDEC Location ID: Structure B

Project Number: 36120921271 Collector: B Shaw Date: 02-16-2010

SUMMA Canister Record Information:

SUBSLAB SOIL VAPOR SAMPLE		SUBSLAB SOIL VAPOR SAMPLE		SUBSLAB SOIL VAPOR SAMPLE		ASSOCIATED AMBIENT	
Flow Regulator No:	700	Flow Regulator No:	681	Flow Regulator No:	680	Flow Regulator No:	~~20~~
Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):	
Canister Serial No:	644	Canister Serial No:	636	Canister Serial No:	614	Canister Serial No:	
Start Date/Time:	2/16/10 0959	Start Date/Time:	2/16/10 0952	Start Date/Time:	2/16/10 0950	Start Date/Time:	
Start Pressure ("Hg):	-30	Start Pressure ("Hg):	-28	Start Pressure ("Hg):	-30.	Start Pressure ("Hg):	
Stop Date/Time:	02-17-10 0823	Stop Date/Time:	02-17-10 0821	Stop Date/Time:	02-17-10 0818	Stop Date/Time:	
Stop Pressure ("Hg):	-4	Stop Pressure ("Hg):	-5	Stop Pressure ("Hg):	-12	Stop Pressure ("Hg):	
Sample ID:	130043B-SS-01	Sample ID:	130043B-SS-02	Sample ID:	130043B-SS-03	Sample ID:	

Other Sampling Information:

Finished Basement, Crawl Space, Unfinished Basement	basement ~~on-grade~~ BTS	Finished Basement, Crawl Space, Unfinished Basement	on-grade	Finished Basement, Crawl Space, Unfinished Basement	on-grade	Direction from Building:	
Floor Slab Thickness:	~6"	Floor Slab Thickness:	~16"	Floor Slab Thickness:	~16"	Distance from Building:	
Potential Vapor Entry Points:	none	Potential Vapor Entry Points:	none	Potential Vapor Entry Points:	none	Distance from Roadway:	
Floor Surface:	concrete	Floor Surface:	Concrete	Floor Surface:	Concrete	Ground Surface:	
Noticable Odor:	NA.	Noticable Odor:	NA	Noticable Odor:	NA	Noticable Odor:	
PID Reading (ppb):	10.3 ppm	PID Reading (ppb):	32.3 ppm	PID Reading (ppb):	8.5 ppm	PID Reading (ppb):	
Intake Depth/Height:	~7"	Intake Depth/Height:	~17"	Intake Depth/Height:	~17"	Intake Height Above Ground Surface:	
Helium Test Conducted? Breakthrough %:	N.	Helium Test Conducted?	N	Helium Test Conducted?	N	Intake Tubing Used?	

Comments/Location Sketch:

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INDOOR AIR SAMPLING RECORD

INDOOR AIR SAMPLING RECORD

Project Name: NCIA Client: NYSDEC Location ID: Structure F

Project Number: 3612092127 Collector: B-Shaw Date: 02-16-2010

SUMMA Canister Record Information:

INDOOR AIR SAMPLE		INDOOR AIR SAMPLE		INDOOR AIR SAMPLE		ASSOCIATED AMBIENT	
Flow Regulator No:	62	Flow Regulator No:	689	Flow Regulator No:		Flow Regulator No:	
Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):	
Canister Serial No:	237	Canister Serial No:	164	Canister Serial No:		Canister Serial No:	
Start Date/Time:	02-16-10 1414	Start Date/Time:	02-16-10 1412	Start Date/Time:		Start Date/Time:	
Start Pressure ("Hg):	-28	Start Pressure ("Hg):	-29	Start Pressure ("Hg):		Start Pressure ("Hg):	
Stop Date/Time:	02-17-10 1330	Stop Date/Time:	02-17-10 1328	Stop Date/Time:		Stop Date/Time:	
Stop Pressure ("Hg):	0	Stop Pressure ("Hg):	-3	Stop Pressure ("Hg):		Stop Pressure ("Hg):	
Sample ID: 130043F-IA-01		Sample ID: 130043F-IA-02		Sample ID:		Sample ID:	

Other Sampling Information:

Story/Level:	1st	Story/Level:	1st	Story/Level:		Direction from Building:	
Room:	~~off~~ garage	Room:	office	Room:		Distance from Building:	
Potential Vapor Entry Points:	↓ None	Potential Vapor Entry Points:	Rear garage door	Potential Vapor Entry Points:		Distance from Roadway:	
Floor Surface:	Concrete	Floor Surface:	tile	Floor Surface:		Ground Surface:	
Noticable Odor:	Oils	Noticable Odor:	Smoke	Noticable Odor:		Noticable Odor:	
PID Reading (ppb):	345	PID Reading (ppb):	415	PID Reading (ppb):		PID Reading (ppb):	
Intake Height:	~4'	Intake Height:	~3'	Intake Height:		Intake Height Above Ground Surface:	
Indoor Air Temp:	~14°C	Indoor Air Temp:	~15°C	Indoor Air Temp:		Intake Tubing Used?	

Comments/Location Sketch:

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INDOOR AIR SAMPLING RECORD

INDOOR AIR SAMPLING RECORD

Project Name: NCIA Client: NYSDEC Location ID: Structure F-

Project Number: 36120121127 Collector: B Shaw Date: 02-16-2010

SUMMA Canister Record Information:

SUBSLAB SOIL VAPOR SAMPLE		SUBSLAB SOIL VAPOR SAMPLE		SUBSLAB SOIL VAPOR SAMPLE		ASSOCIATED AMBIENT	
Flow Regulator No:	697	Flow Regulator No:	698	Flow Regulator No:	682	Flow Regulator No:	
Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):	
Canister Serial No:	635	Canister Serial No:	631	Canister Serial No:	583	Canister Serial No:	
Start Date/Time:	02-16-10 1405	Start Date/Time:	02-16-10 1411	Start Date/Time:	02-16-10 1409	Start Date/Time:	
Start Pressure ("Hg):	-28	Start Pressure ("Hg):	-30+	Start Pressure ("Hg):	-29	Start Pressure ("Hg):	
Stop Date/Time:	02-17-10 1331	Stop Date/Time:	02-17-10 1334	Stop Date/Time:	02-17-10 1338	Stop Date/Time:	
Stop Pressure ("Hg):	-1	Stop Pressure ("Hg):	-7	Stop Pressure ("Hg):	-2	Stop Pressure ("Hg):	
Sample ID:	130043F-SS-01	Sample ID:	130043F-SS-02	Sample ID:	130043F-SS-03	Sample ID:	

Other Sampling Information:

Finished Basement, Crawl Space, Unfinished Basement	garage	Finished Basement, Crawl Space, Unfinished Basement	garage	Finished Basement, Crawl Space, Unfinished Basement	garage	Direction from Building:	
Floor Slab Thickness:	~5"	Floor Slab Thickness:	~7.5"	Floor Slab Thickness:	~7.5"	Distance from Building:	
Potential Vapor Entry Points:	none	Potential Vapor Entry Points:	none	Potential Vapor Entry Points:	none	Distance from Roadway:	
Floor Surface:	Concrete	Floor Surface:	Concrete	Floor Surface:	Concrete	Ground Surface:	
Noticable Odor:	oils	Noticable Odor:	oils	Noticable Odor:	oils	Noticable Odor:	
PID Reading (ppb):	651	PID Reading (ppb):	2655	PID Reading (ppb):	360	PID Reading (ppb):	
Intake Depth/Height:	~6'	Intake Depth/Height:	~9"	Intake Depth/Height:	~9"	Intake Height Above Ground Surface:	
Helium Test Conducted? Breakthrough %:	N	Helium Test Conducted?	N	Helium Test Conducted?	N	Intake Tubing Used?	

Comments/Location Sketch:

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INDOOR AIR SAMPLING RECORD

INDOOR AIR SAMPLING RECORD

Project Name: NCIA Client: NYSDEC Location ID: Structure E

Project Number: 36120921127 Collector: B Shaw Date: 02-16-2010.

SUMMA Canister Record Information:

INDOOR AIR SAMPLE		INDOOR AIR SAMPLE		INDOOR AIR SAMPLE		ASSOCIATED AMBIENT	
Flow Regulator No:	686	Flow Regulator No:	683	Flow Regulator No:		Flow Regulator No:	
Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):	
Canister Serial No:	549	Canister Serial No:	361	Canister Serial No:		Canister Serial No:	
Start Date/Time:	02-16-10. 1152	Start Date/Time:	02-16-10 1138.	Start Date/Time:		Start Date/Time:	
Start Pressure ("Hg):	-29	Start Pressure ("Hg):	-30	Start Pressure ("Hg):		Start Pressure ("Hg):	
Stop Date/Time:	02-17-10 1045	Stop Date/Time:	02-17-10 1106	Stop Date/Time:		Stop Date/Time:	
Stop Pressure ("Hg):	-4	Stop Pressure ("Hg):	-9	Stop Pressure ("Hg):		Stop Pressure ("Hg):	
Sample ID: 130043K-IA-01		Sample ID: 130043K-IA-02		Sample ID:		Sample ID:	

Other Sampling Information:

Story/Level:	1st	Story/Level:	1st	Story/Level:		Direction from Building:	
Room:	office	Room:	office	Room:		Distance from Building:	
Potential Vapor Entry Points:	none	Potential Vapor Entry Points:	none	Potential Vapor Entry Points:		Distance from Roadway:	
Floor Surface:	carpet	Floor Surface:	carpet	Floor Surface:		Ground Surface:	
Noticable Odor:	none	Noticable Odor:	none	Noticable Odor:		Noticable Odor:	
PID Reading (ppb):	481	PID Reading (ppb):	687	PID Reading (ppb):		PID Reading (ppb):	
Intake Height:	~5'	Intake Height:	~3'	Intake Height:		Intake Height Above Ground Surface:	
Indoor Air Temp:	~19°C	Indoor Air Temp:	~17°C	Indoor Air Temp:		Intake Tubing Used?	

Comments/Location Sketch:

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INDOOR AIR SAMPLING RECORD

Project Name: NCIA. Client: NYSDEC Location ID: Structure K.

Project Number: 36120427 Collector: B. Shaw Date: 02-16-2010.

SUMMA Canister Record Information:

SUBSLAB SOIL VAPOR SAMPLE		SUBSLAB SOIL VAPOR SAMPLE		SUBSLAB SOIL VAPOR SAMPLE		ASSOCIATED AMBIENT	
Flow Regulator No:	696	Flow Regulator No:	693094	Flow Regulator No:	693	Flow Regulator No:	
Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):	
Canister Serial No:	617	Canister Serial No:	4586	Canister Serial No:	641	Canister Serial No:	
Start Date/Time:	2/16/10 10:58	Start Date/Time:	02-16-10 1142	Start Date/Time:	2-16-10. 1128	Start Date/Time:	
Start Pressure ("Hg):	-30	Start Pressure ("Hg):	-29	Start Pressure ("Hg):	-28	Start Pressure ("Hg):	
Stop Date/Time:	02-17-10 1101	Stop Date/Time:	02-17-10 1108	Stop Date/Time:	02-17-10 1055	Stop Date/Time:	
Stop Pressure ("Hg):	-2	Stop Pressure ("Hg):	-1	Stop Pressure ("Hg):	0	Stop Pressure ("Hg):	
Sample ID:	130043K-SS-01	Sample ID:	130043K-SS-02	Sample ID:	130043K-SS-03	Sample ID:	

Other Sampling Information:

Finished Basement, Crawl Space, Unfinished Basement	No basement. Ground floor.	Finished Basement, Crawl Space, Unfinished Basement	office	Finished Basement, Crawl Space, Unfinished Basement	garage	Direction from Building:	
Floor Slab Thickness:	8 inch	Floor Slab Thickness:	~6"	Floor Slab Thickness:	~7"	Distance from Building:	
Potential Vapor Entry Points:	None.	Potential Vapor Entry Points:	none	Potential Vapor Entry Points:	none	Distance from Roadway:	
Floor Surface:	Concrete	Floor Surface:	Concrete/rug	Floor Surface:	Concrete	Ground Surface:	
Noticable Odor:	None	Noticable Odor:	na	Noticable Odor:	na	Noticable Odor:	
PID Reading (ppb):	1300ppm	PID Reading (ppb):	702	PID Reading (ppb):	15.9ppm	PID Reading (ppb):	
Intake Depth/Height:	10 inch	Intake Depth/Height:	~8"	Intake Depth/Height:	~8.5"	Intake Height Above Ground Surface:	
Helium Test Conducted? Breakthrough %:	N	Helium Test Conducted?	N	Helium Test Conducted?	N.	Intake Tubing Used?	

Comments/Location Sketch:

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511 Congress Street, Portland, ME 04101

INDOOR AIR SAMPLING RECORD

INDOOR AIR SAMPLING RECORD

Project Name: NOIA Client: NYSDEC Location ID: Structure N

Project Number: 3612092127 Collector: B Shaw Date: 02-16-2010

SUMMA Canister Record Information:

INDOOR AIR SAMPLE		INDOOR AIR SAMPLE		INDOOR AIR SAMPLE		ASSOCIATED AMBIENT	
Flow Regulator No:	41	Flow Regulator No:	123	Flow Regulator No:		Flow Regulator No:	176
Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):	
Canister Serial No:	286	Canister Serial No:	494	Canister Serial No:		Canister Serial No:	87
Start Date/Time:	02-16-10 1543	Start Date/Time:	02-16-10 1621	Start Date/Time:		Start Date/Time:	02-16-10 1635
Start Pressure ("Hg):	-26	Start Pressure ("Hg):	-29	Start Pressure ("Hg):		Start Pressure ("Hg):	-28
Stop Date/Time:	02-17-10 14:29	Stop Date/Time:	02-17-10 14:39	Stop Date/Time:		Stop Date/Time:	02-17-10
Stop Pressure ("Hg):	<1 needle all the way to pin	Stop Pressure ("Hg):	-5	Stop Pressure ("Hg):		Stop Pressure ("Hg):	
Sample ID:	130043N-IA-01	Sample ID:	130043N-IA-02	Sample ID:		Sample ID:	130043-AA-02

Other Sampling Information:

Story/Level:	1st	Story/Level:	1st	Story/Level:		Direction from Building:	N
Room:	Warehouse	Room:	warehouse	Room:		Distance from Building:	~5'
Potential Vapor Entry Points:	drafty overhead door	Potential Vapor Entry Points:	drafty doors	Potential Vapor Entry Points:		Distance from Roadway:	~500'
Floor Surface:	Concrete	Floor Surface:	concrete	Floor Surface:		Ground Surface:	snow
Noticable Odor:	none	Noticable Odor:	none	Noticable Odor:		Noticable Odor:	none
PID Reading (ppb):	220	PID Reading (ppb):	150	PID Reading (ppb):		PID Reading (ppb):	Lo.1
Intake Height:	~3'	Intake Height:	~3'	Intake Height:		Intake Height Above Ground Surface:	~3'
Indoor Air Temp:	~15°C	Indoor Air Temp:	~14°C	Indoor Air Temp:		Intake Tubing Used?	N

Comments/Location Sketch:

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511 Congress Street, Portland, ME 04101

INDOOR AIR SAMPLING RECORD

INDOOR AIR SAMPLING RECORD

Project Name: NCIA | Client: NYSDEC | Location ID: Structure N

Project Number: 3612092127 | Collector: B Shaw | Date: 02-16-2010.

SUMMA Canister Record Information:

SUBSLAB SOIL VAPOR SAMPLE		SUBSLAB SOIL VAPOR SAMPLE		SUBSLAB SOIL VAPOR SAMPLE		ASSOCIATED AMBIENT	
Flow Regulator No:	691	Flow Regulator No:	692	Flow Regulator No:	687	Flow Regulator No:	176
Flow Rate (mL/min):	≈0.7	Flow Rate (mL/min):	≈ 0.7	Flow Rate (mL/min):	≈ 0.7	Flow Rate (mL/min):	≈0.7
Canister Serial No:	588	Canister Serial No:	140.	Canister Serial No:	238	Canister Serial No:	87
Start Date/Time:	02-16-10. 1541	Start Date/Time:	02-16-10 1619	Start Date/Time:	02-16-10 1555	Start Date/Time:	02-16-10 1635
Start Pressure ("Hg):	-29	Start Pressure ("Hg):	-29	Start Pressure ("Hg):	-29	Start Pressure ("Hg):	-28
Stop Date/Time:	02-17-10 14:31	Stop Date/Time:	02-17-10 14:37	Stop Date/Time:	02-17-10 14:34	Stop Date/Time:	02-17-10 1448
Stop Pressure ("Hg):	-5	Stop Pressure ("Hg):	-3	Stop Pressure ("Hg):	-6	Stop Pressure ("Hg):	-1
Sample ID: 130043N-SS-01		Sample ID: 130043N-SS-02		Sample ID: 130043N-SS-03		Sample ID: 130043-AA-02	

Other Sampling Information:

Finished Basement, Crawl Space, Unfinished Basement	Warehouse	Finished Basement, Crawl Space, Unfinished Basement	Warehouse	Finished Basement, Crawl Space, Unfinished Basement	Warehouse	Direction from Building:	N
Floor Slab Thickness:	~4"	Floor Slab Thickness:	~5.5"	Floor Slab Thickness:	~5.5"	Distance from Building:	~5'
Potential Vapor Entry Points:	Cracks.	Potential Vapor Entry Points:	Cracks	Potential Vapor Entry Points:	Cracks.	Distance from Roadway:	~500'
Floor Surface:	Concrete	Floor Surface:	Concrete	Floor Surface:	Concrete	Ground Surface:	Snow
Noticable Odor:	na	Noticable Odor:	na	Noticable Odor:	na	Noticable Odor:	none
PID Reading (ppb):	264.	PID Reading (ppb):	2590	PID Reading (ppb):	570.	PID Reading (ppb):	20.1
Intake Depth/Height:	~7"	Intake Depth/Height:	~7"	Intake Depth/Height:	~7"	Intake Height Above Ground Surface:	~3'
Helium Test Conducted? Breakthrough %:	Yes, ~1200ppm	Helium Test Conducted?	NO.	Helium Test Conducted?	NO.	Intake Tubing Used?	N

Comments/Location Sketch:

INDOOR AIR SAMPLING RECORD

Project Name: NCIA Client: NYSDEC Location ID: Structure V

Project Number: 361209217 Collector: Brenda Newman Date: 02-17-2010

SUMMA Canister Record Information:

INDOOR AIR SAMPLE		INDOOR AIR SAMPLE		INDOOR AIR SAMPLE		ASSOCIATED AMBIENT	
Flow Regulator No:	392	Flow Regulator No:	337	Flow Regulator No:		Flow Regulator No:	68
Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):	
Canister Serial No:	420	Canister Serial No:	465	Canister Serial No:		Canister Serial No:	326
Start Date/Time:	02-17-2010 12:22	Start Date/Time:	02-17-2010 12:57	Start Date/Time:		Start Date/Time:	02-17-10 12:46
Start Pressure ("Hg):	-29	Start Pressure ("Hg):	-25	Start Pressure ("Hg):		Start Pressure ("Hg):	~~31~~ 30
Stop Date/Time:	2/18/10 12:22	Stop Date/Time:	2/18/10 12:57	Stop Date/Time:		Stop Date/Time:	2/18/10 12:46
Stop Pressure ("Hg):	-4	Stop Pressure ("Hg):	<1	Stop Pressure ("Hg):		Stop Pressure ("Hg):	10
Sample ID:	130043V-IA-02	Sample ID:	130043V-IA-01	Sample ID:		Sample ID:	130043V-AA-01

Other Sampling Information:

Story/Level:	1st	Story/Level:	1st	Story/Level:		Direction from Building:	South
Room:	warehouse	Room:	ware-house	Room:		Distance from Building:	30 ft.
Potential Vapor Entry Points:	none	Potential Vapor Entry Points:	none	Potential Vapor Entry Points:		Distance from Roadway:	100 ft
Floor Surface:	paint-fin concrete	Floor Surface:	paint-fin concrete	Floor Surface:		Ground Surface:	asphalt/snow
Noticable Odor:	none	Noticable Odor:	none	Noticable Odor:		Noticable Odor:	none
PID Reading (ppb):	288	PID Reading (ppb):	350	PID Reading (ppb):		PID Reading (ppb):	65
Intake Height:	3 ft	Intake Height:	5 ft	Intake Height:		Intake Height Above Ground Surface:	4.5 ft.
Indoor Air Temp:	70° F	Indoor Air Temp:	70°F	Indoor Air Temp:		Intake Tubing Used?	No

Comments/Location Sketch:

MACTEC

511 Congress Street, Portland, ME 04101

INDOOR AIR SAMPLING RECORD

INDOOR AIR SAMPLING RECORD

Project Name: NCIA Client: NYSDEC Location ID: Structure V

Project Number: 362092127 Collector: Brenda Newman Date: 02-17-2010

SUMMA Canister Record Information:

Duplicate SS

SUBSLAB SOIL VAPOR SAMPLE		SUBSLAB SOIL VAPOR SAMPLE		SUBSLAB SOIL VAPOR SAMPLE		~~ASSOCIATED AMBIENT~~	
Flow Regulator No:	684	Flow Regulator No:	379	Flow Regulator No:	436	Flow Regulator No:	379
Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):	
Canister Serial No:	600	Canister Serial No:	101	Canister Serial No:	558	Canister Serial No:	283
Start Date/Time:	02-17-2010 11:30	Start Date/Time:	02-17-2010 11:48	Start Date/Time:	02-17-2010 12:28	Start Date/Time:	02-17-2010 11:48
Start Pressure ("Hg):	-28	Start Pressure ("Hg):	-28	Start Pressure ("Hg):	-29	Start Pressure ("Hg):	-28
Stop Date/Time:	2/18/10 11:30	Stop Date/Time:	2/18/10 11:48	Stop Date/Time:	2/18/10 12:28	Stop Date/Time:	2/18/10 ~~11:48~~ 12:28
Stop Pressure ("Hg):	-2	Stop Pressure ("Hg):	<1	Stop Pressure ("Hg):	-8	Stop Pressure ("Hg):	<1
Sample ID: 130043V-SS-01		Sample ID: 130043V-SS-02		Sample ID: 130043V-SS-03		Sample ID: 130043V-SS-02D	

Other Sampling Information:

Finished Basement, Crawl Space, Unfinished Basement	None	Finished Basement, Crawl Space, Unfinished Basement	None	Finished Basement, Crawl Space, Unfinished Basement	None	Direction from Building:	None
Floor Slab Thickness:	6 inch	Floor Slab Thickness:	6 inch	Floor Slab Thickness:	6 inch	Distance from Building:	6 inch
Potential Vapor Entry Points:	none	Potential Vapor Entry Points:	none	Potential Vapor Entry Points:	none	Distance from Roadway:	none
Floor Surface:	Paint-finished concrete	Floor Surface:	Paint-finished concrete	Floor Surface:	Paint-fin. concrete	Ground Surface:	Paint-finished concrete
Noticable Odor:	none	Noticable Odor:	none	Noticable Odor:	none	Noticable Odor:	none
PID Reading (ppb):	1125	PID Reading (ppb):	5000	PID Reading (ppb):	1650	PID Reading (ppb):	5000
Intake Depth/Height:	8 inch	Intake Depth/Height:	8 inch	Intake Depth/Height:	8 inch	Intake Height Above Ground Surface:	8 inch
Helium Test Conducted? Breakthrough %:	Yes 0.04%	Helium Test Conducted?	No	Helium Test Conducted?	No	Intake Tubing Used?	No

Comments/Location Sketch:

Reached 100% Helium saturation in enclosure.

Duplicate taken at SS-02

MACTEC

511 Congress Street, Portland, ME 04101

INDOOR AIR SAMPLING RECORD

APPENDIX B

STRUCTURE INSPECTION/INVENTORY AND QUESTIONNAIRE

A

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Phil Muller / Brandon Newman Date/Time Prepared 2.15.10 / 1730

Preparer's Affiliation MACTEC Phone No. 207 775 5401

Purpose of Investigation Vapor Intrusion Investigation
NCIA (NYSDEC SITE # 130048A)

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: Parkinson First Name: Cleous

Address: 570 Main St. (75 Rushmore St.)

County: Nassau

Home Phone: _____ Office Phone: 516 333-2501

Number of Occupants/persons at this location 10-40 Age of Occupants 18 +

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential School (Commercial/Multi-use)
Industrial Church Other: _____

A

If the property is residential, type? (Circle appropriate response) N/A

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Vocational Auto. School / File Storage / Swimming Facility / Auto Storage Office

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 1 Building age_____

Is the building insulated? Y / (N) How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

_____

_____

_____

Airflow near source

_____

_____

_____

Outdoor air infiltration

_____

_____

_____

Infiltration into air ducts

_____

_____

_____

A

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	brick	Concrete block
b. Basement type:	full	crawlspace	slab	other _____	
c. Basement floor:	concrete	dirt	stone	other _____	
d. Basement floor:	uncovered	covered	covered with _____		
e. Concrete floor:	unsealed	sealed	sealed with _____		
f. Foundation walls:	poured	block	stone	other _____	
g. Foundation walls:	unsealed	sealed	sealed with _____		
h. The basement is:	wet	damp	dry	moldy	
i. The basement is:	finished	unfinished	partially finished		
j. Sump present?	Y / N	Floor drain @ bottom of stairs			
k. Water in sump?	Y / N / not applicable				

Basement/Lowest level depth below grade: _____(feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

_____

_____

6. **HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Natural gas

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other unknown
Air conditioning:	Central Air	Window units	Open Windows	None

A

Are there air distribution ducts present? (Y) / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom (Almost Never)

Level	General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)
Basement	storage
1st Floor	Auto repair, computer work stations, office, classrooms, restrooms
2nd Floor	
3rd Floor	
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? (Y) / N

b. Does the garage have a separate heating unit? Y / (N) / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) (Y) / N / NA Please specify_____

d. Has the building ever had a fire? Y / N When?_____

e. Is a kerosene or unvented gas space heater present? Y / N Where?_____

f. Is there a workshop or hobby/craft area? Y / N Where & Type?_____

g. Is there smoking in the building? Y / (N) How frequently?_____

h. Have cleaning products been used recently? (Y) / N When & Type? Daily

i. Have cosmetic products been used recently? Y / N When & Type?_____

A

j. Has painting/staining been done in the last 6 months? (Y) / N Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? (Y) / N When & Type? _____

m. Is there a ~~kitchen~~ exhaust fan? (Y) / N If yes, where vented? outside

n. Is there a bathroom exhaust fan? Y / N If yes, where vented? _____

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

Are there odors in the building? (Y) / N
If yes, please describe: Solvents

Do any of the building occupants use solvents at work? (Y) / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? automotive

If yes, are their clothes washed at work? Y / N N/A

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: N/A

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

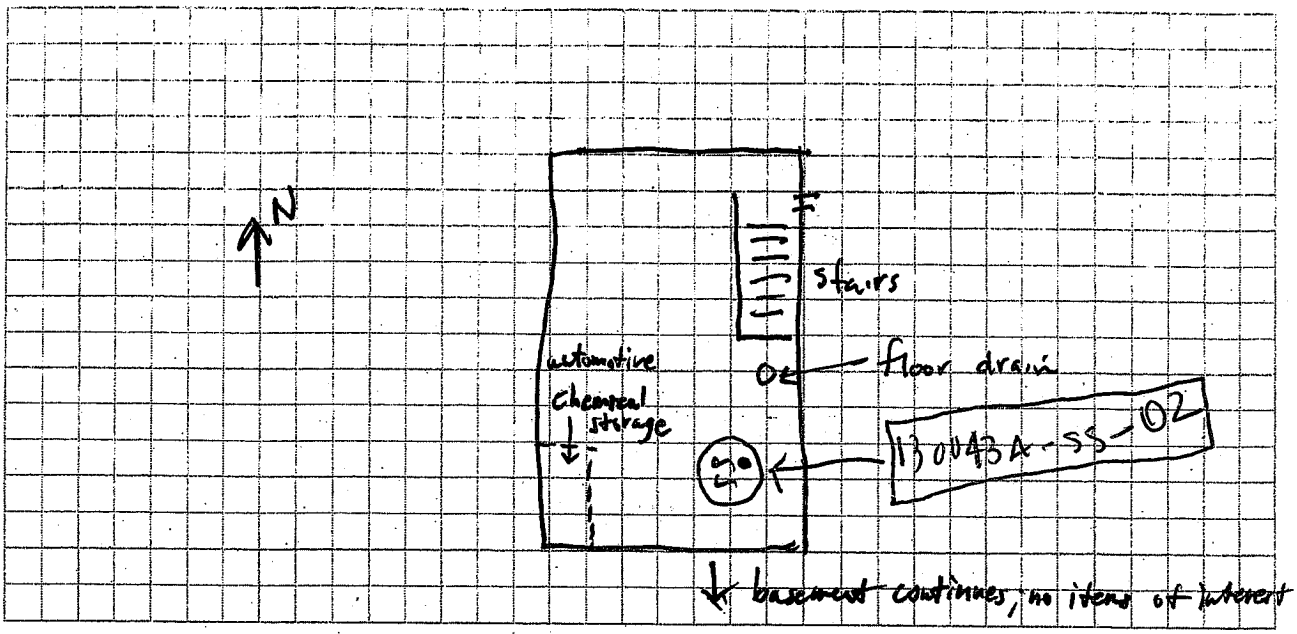
d. Relocation package provided and explained to residents? Y / N

A

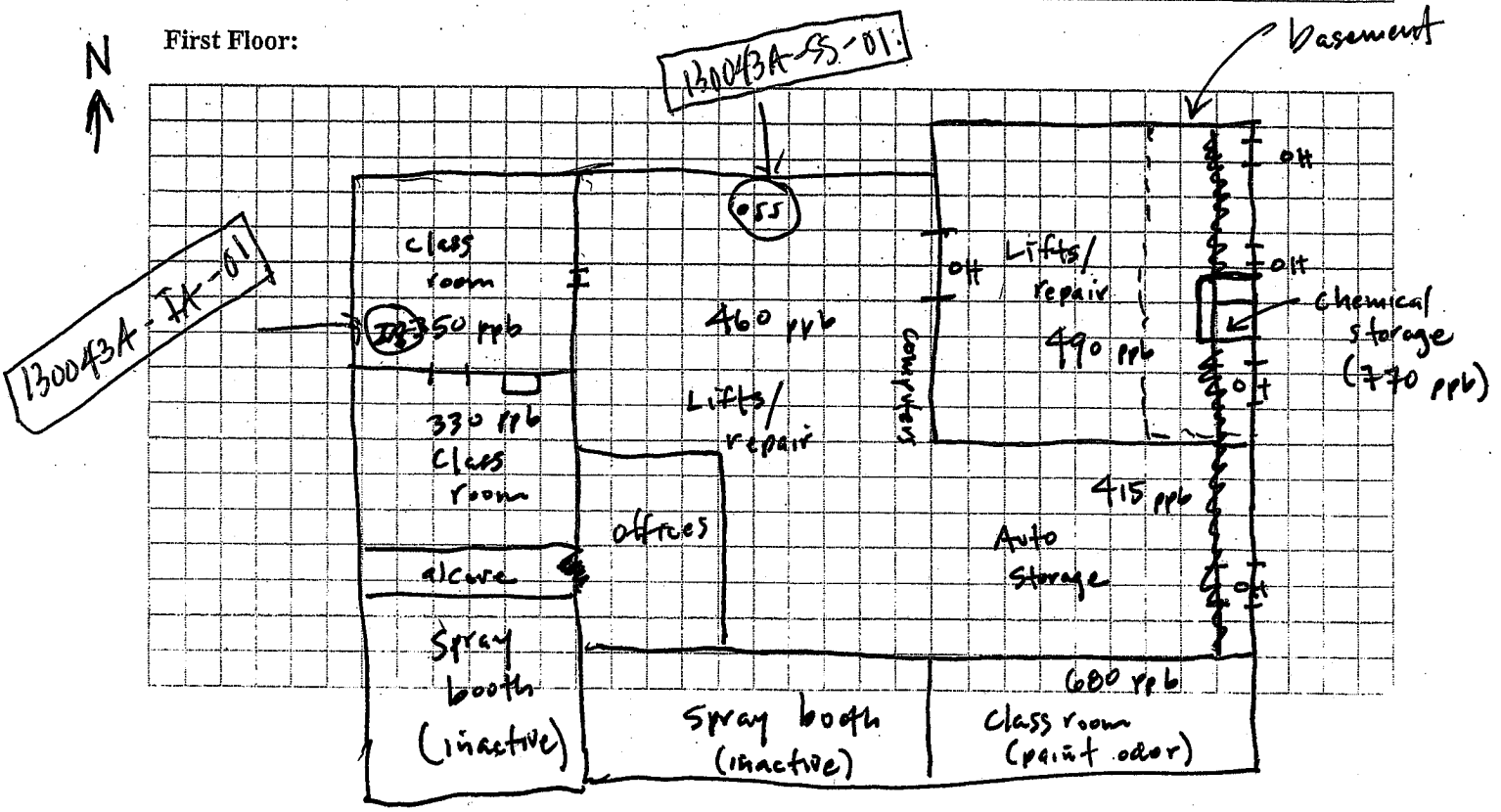
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



First Floor:



A

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

Refer to attached figure by PJM, 12/29/09

A

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Ppb RAE

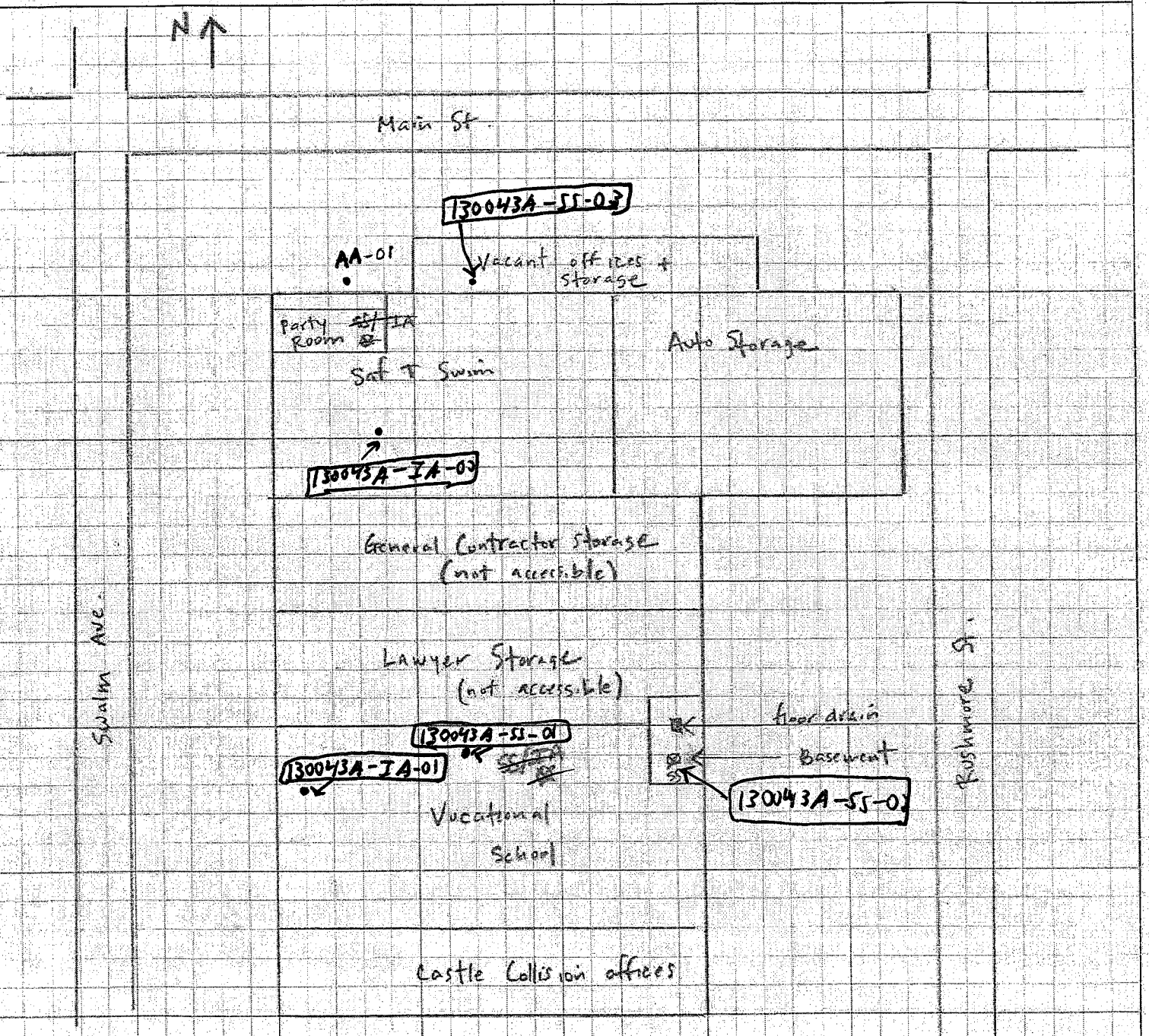
List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units) ppb	Photo** Y / N
Chem storage	Silicon Gasket + Sealant					
"	Bleach					
"	PineSol					
"	glass cleaner			Isopropyl alcohol	700	
"	degreaser					
"	brake cleaning fluid					
Chem. storage	Bathroom cleaner					
Basement	Throttle Body Cleaner		UO	Toluene	400	
"	Brake + Parts Cleaner		UO	Acetone		
	Motor Oil		UO			

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

MACTEC
MACTEC Engineering and Consulting, Inc.
107 Audubon Road, Bldg. 2, Suite 301
Wakefield, MA 01880

JOB NO. NHA SHEET 1 OF 1
PHASE 3612092127 TASK 01.01
JOB NAME 570 Main St.
BY PJM DATE 12-29-09
CHECKED BY DATE



Notes: Bob Scarcelli demands that MACTEC/DEC contact IML Magnetics before testing. Contact is Lance Turxley Mason, OH (513) 459-9677. Also, contact Chris Ramsley (603) 924-4100 at Hull + Assoc. - they performed clean-up. Syl Lamarca is owner's rep.

Vocational School is large and any convenient sub-slab point is appropriate.
SS - proposed sub-slab soil vapor sampling point.
IA - proposed indoor air sampling location.

OSR – 3

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Phil Muller / Brandon Newman Date/Time Prepared 2.15.10 / 1830

Preparer's Affiliation MACTEC Phone No. 207 775 5401

Purpose of Investigation Vapor Intrusion Investigation
(NYSDEC SITE #~~1300484~~ 130043A)

1. OCCUPANT: No interview

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	(Commercial/Multi-use)
Industrial	Church	Other: _____

A

If the property is residential, type? (Circle appropriate response) N/A

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Saf T Swim (Swimming Pool)

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

Other characteristics:

Number of floors 1 Building age _____

Is the building insulated? Y / (N) How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors N/A

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:		wood frame	concrete	stone	brick (concrete block)
b. Basement type:		full	crawlspace	slab	other none
c. Basement floor:		concrete	dirt	stone	other N/A
d. Basement floor:	N/A	uncovered	covered	covered with _____	
e. Concrete floor:	N/A	unsealed	sealed	sealed with _____	
f. Foundation walls:		(poured)	block	stone	other _____
g. Foundation walls:		(unsealed)	sealed	sealed with _____	
h. The basement is:	N/A	wet	damp	dry	moldy
i. The basement is:	N/A	finished	unfinished	partially finished	
j. Sump present?	N/A	Y / N			
k. Water in sump?		Y / N / (not applicable)			

Basement/Lowest level depth below grade: _____(feet) at grade

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

cracks, utilities

6. **HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

(Hot air circulation)	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: unknown gas ?

Boiler/furnace located in: Basement Outdoors Main Floor Other unknown

Air conditioning: (Central Air) Window units Open Windows None

A

Are there air distribution ducts present? (Y) N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? (Full-time) Occasionally Seldom Almost Never

Level	General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)
Basement	N/A
1st Floor	Swimming Pool + facilities
2nd Floor	
3rd Floor	
4th Floor	

8. FACTORS THAT MAY influence INDOOR AIR QUALITY

a. Is there an attached garage? (Y)/N (Psw) for chlorine storage

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / (NA) Please specify_____

d. Has the building ever had a fire? Y / (N) When?_____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where?_____

f. Is there a workshop or hobby/craft area? Y (N) Where & Type?_____

g. Is there smoking in the building? Y (N) How frequently?_____

h. Have cleaning products been used recently? (Y) N When & Type? daily

i. Have cosmetic products been used recently? (Y)/ N When & Type?_____

A

j. Has painting/staining been done in the last 6 months? (Y) / N Where & When? Swim Pool / office 2 months ago 2m ago

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? (Y) / N When & Type? _____

m. Is there a kitchen exhaust fan? (Y) / N If yes, where vented? _____

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? _____

o. Is there a clothes dryer? (Y) / N If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

Are there odors in the building? (Y) / N
If yes, please describe: Chlorine

Do any of the building occupants use solvents at work? Y / N unknown
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? unknown

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No
Yes, use dry-cleaning infrequently (monthly or less) (Unknown)
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: N/A

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

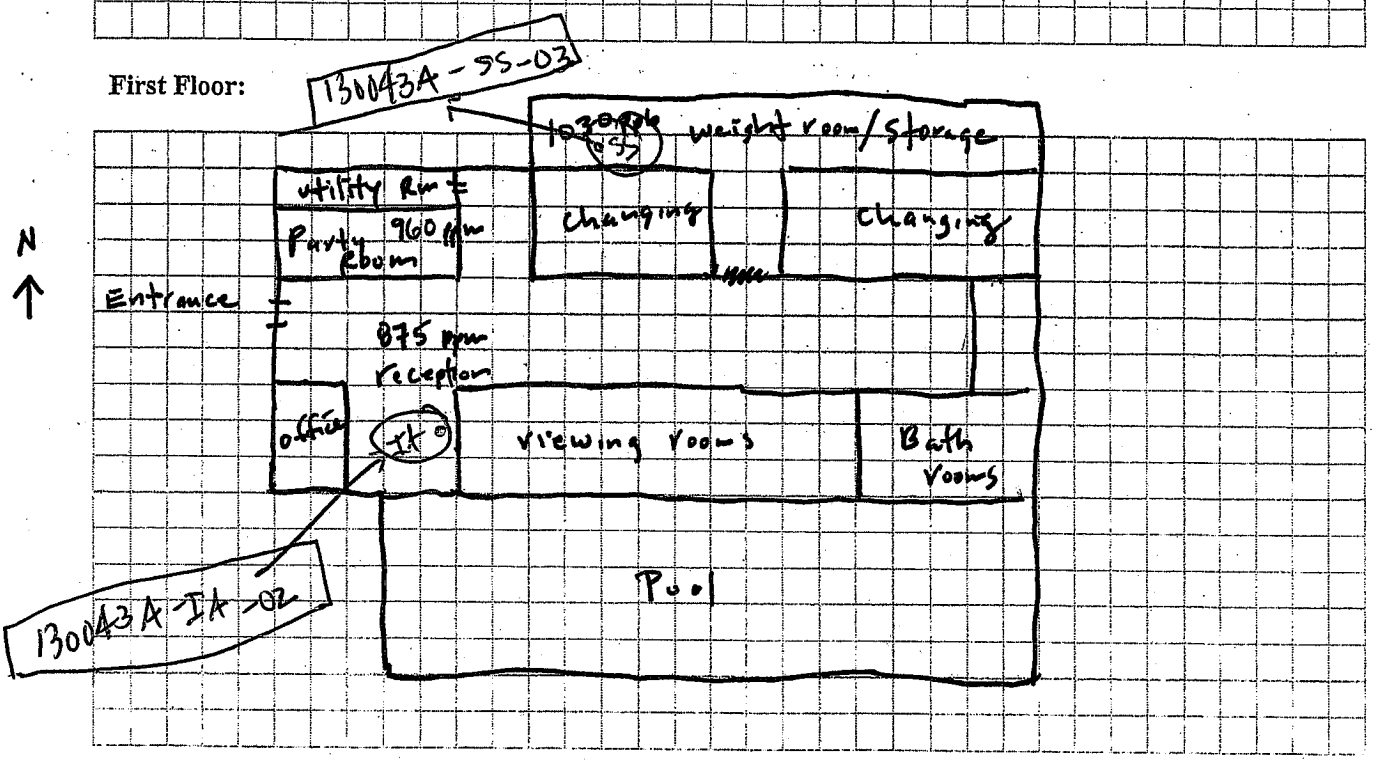
A

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

First Floor:



A

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

See attached figure for other 570 main street businesses
by PJM, 11/29/09

A

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: _____

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
weight room	Air freshener		UO	Acetone		N
"	Toilet freshener		UO	dipropylglycol		N
	Floor Tile Adhesive					

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

B

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Brandon Newman Date/Time Prepared 2/16/10 8:25

Preparer's Affiliation MACTEC Phone No. 207-775-5401

Purpose of Investigation Vapor Intrusion Investigation
(NYSDEC SITE # ~~130057B~~ 1300438

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: Newell First Name: Randy

Address: 567 Main St.

County: Nassau

Home Phone: — Office Phone: 516-997-5527

Number of Occupants/persons at this location 3 Age of Occupants 40-50

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / (N)

Last Name: Degenhardt First Name: Richard

Address: " "

County: " "

Home Phone: — Office Phone: —

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	(Commercial/Multi-use)
Industrial	Church	Other:

B

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) photo engraving

Does it include residences (i.e., multi-use)? Y (N) If yes, how many? 1

Other characteristics:

Number of floors 3 Building age un k

Is the building insulated? Y / (N) How air tight? Tight / Average / (Not Tight)

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors N/A

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	concrete blocks	stone	brick
b. Basement type:	full	crawlspace	slab	other _____
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	sealed	sealed with _____	
f. Foundation walls:	poured	block	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with _____	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: 6-7 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

cracks, utilities, floor drain in basement

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation in back	Heat pump	Hot water baseboard in offices	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: u c

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other_____
Air conditioning:	Central Air	Window units	Open Windows	None

B

Are there air distribution ducts present? (Y) / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time · Occasionally · Seldom · (Almost Never)

Level	General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)
Basement	none
1st Floor	offices, manufacturing (development)
2nd Floor	residence,
3rd Floor	
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / (NA) Please specify_____

d. Has the building ever had a fire? (Y) N When? unk. (more than a decade

e. Is a kerosene or unvented gas space heater present? Y (N) Where?_____

f. Is there a workshop or hobby/craft area? (Y) N Where & Type?_____

g. Is there smoking in the building? Y / (N) How frequently?_____

h. Have cleaning products been used recently? (Y) / N When & Type? standard bathroom chemicals, used infrequently

i. Have cosmetic products been used recently? Y / (N) When & Type?_____

B

j. Has painting/staining been done in the last 6 months? Y / (N) Where & When? _____

k. Is there new carpet, drapes or other textiles? Y (N) Where & When? _____

l. Have air fresheners been used recently? Y (N) When & Type? _____

m. Is there a kitchen exhaust fan? Y (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? (Y) N If yes, where vented? _____

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y (N) When & Type? _____

Are there odors in the building? (Y) N
If yes, please describe: photo developing agent

Do any of the building occupants use solvents at work? Y / (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? N/A

If yes, are their clothes washed at work? Y / N N/A

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) (No)
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y (N) Date of Installation: _____
Is the system active or passive? Active/Passive N/A

9. WATER AND SEWAGE

Water Supply:	(Public Water)	Drilled Well	Driven Well	Dug Well	Other: _____
Sewage Disposal:	(Public Sewer)	Septic Tank	Leach Field	Dry Well	Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: N/A

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

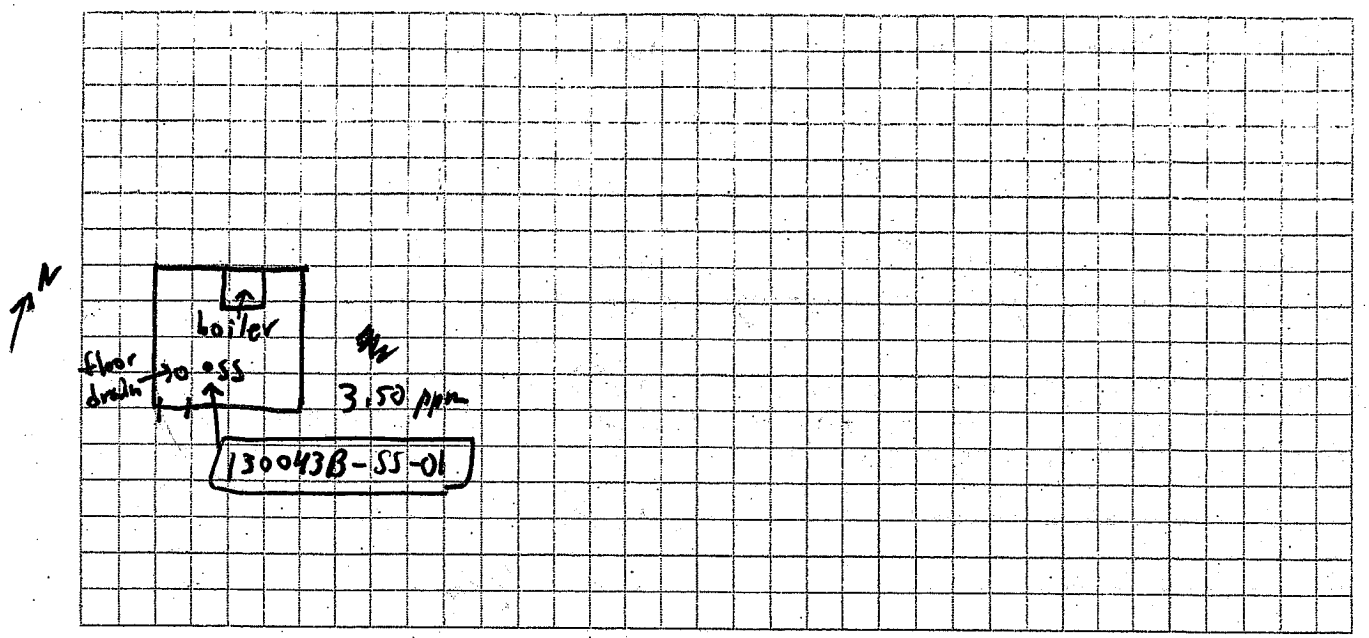
d. Relocation package provided and explained to residents? Y / N

B

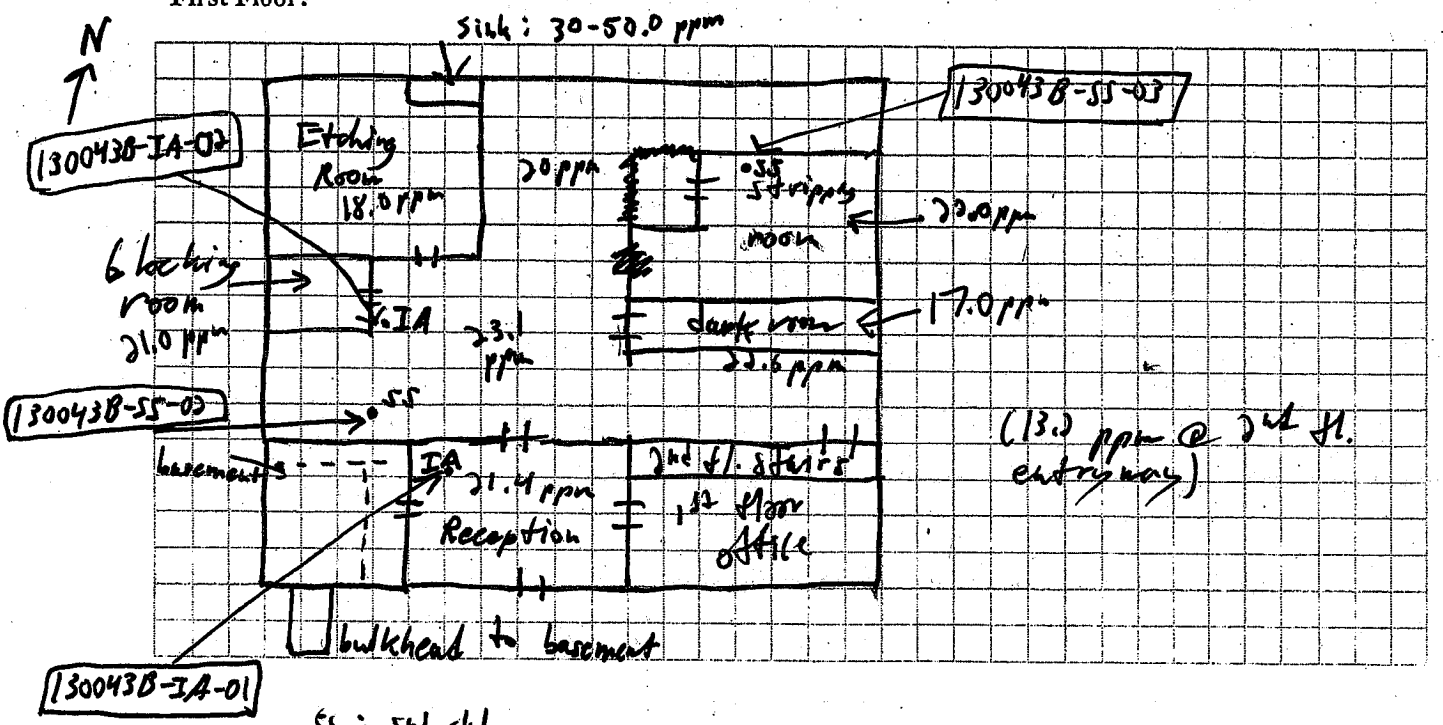
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



First Floor:



SS : soil-slab

IA : indoor air

B

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

See previous drawing by PJM (attached)

B

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PPb RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units) ppm	Photo** Y / N
Etching	Mg Etch Additive	5gal	U/UO		32.0	B1
" "	Nitric Acid	55gal	U	Nitric Acid	24.1	B2
O/P. Etching	Soda Ash	50lb. bags	UO	~~Soda~~ ash	~~24.8~~ 23.8	B3
" "	Magnesium Hydroxide	5gal	U	xylene/ethyl benzene/cyclo-hexanone	22.8	B4
TIC Gums Etching	Powdered Gum Arabic	50lb	U	gum arabic	20.0	B5
O/P. etching	Gasolene	1gal	U	gasolene	23.2	—
Darkroom	Developer	5gal	U/UO	see photo	17.2	B6
" "	Fixer	5gal	U/UO	see photo	17.2	B7

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

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MACTEC Engineering and Consulting, Inc.
107 Audubon Road, Bldg. 2, Suite 301
Wakefield, MA 01880

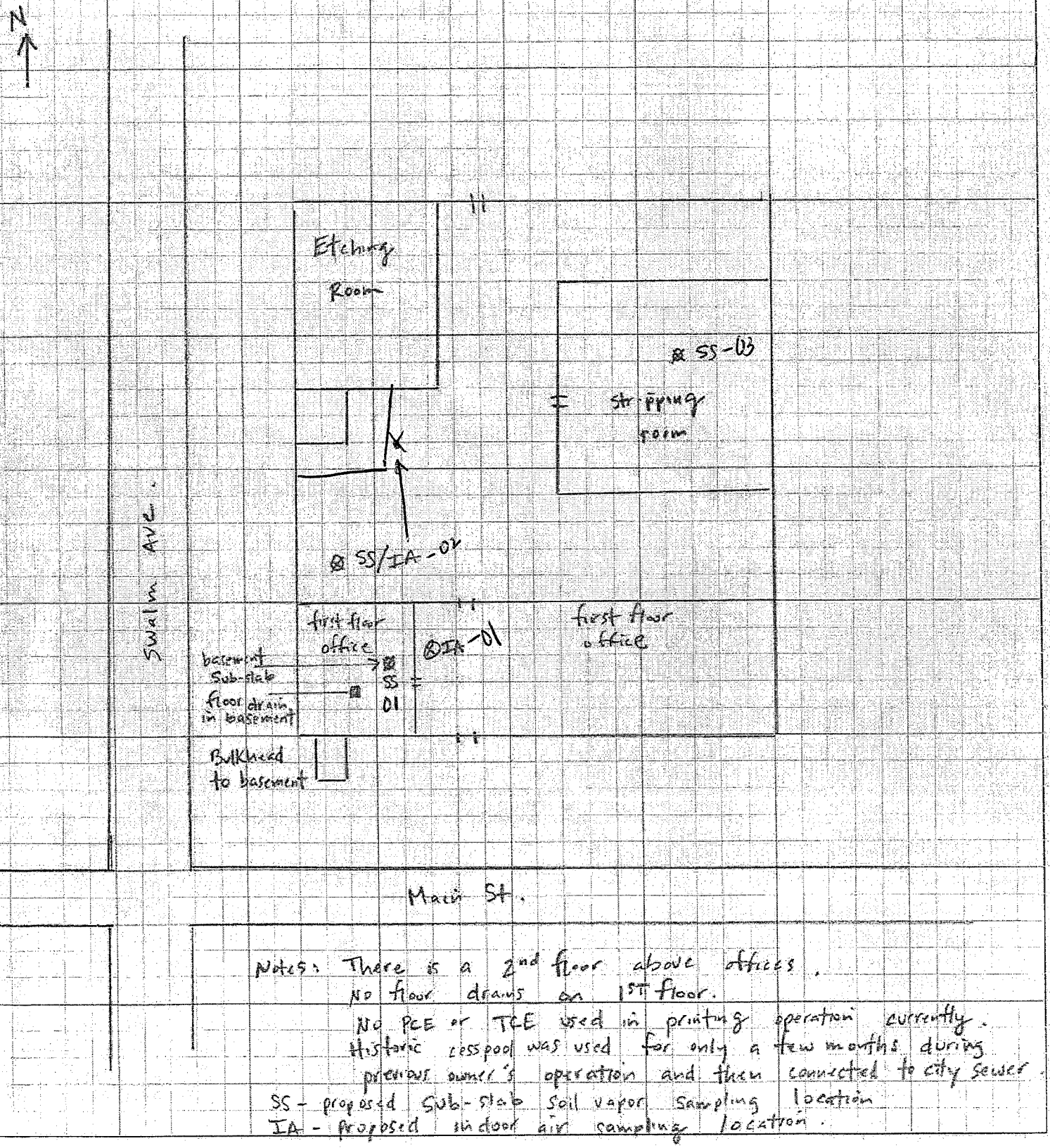
JOB NO. Ncin SHEET 1 OF 1

PHASE 36120 92127 TASK 02 01

JOB NAME 567 Main St.

BY PJM DATE

CHECKED BY DATE



Notes: There is a 2nd floor above offices.
No floor drains on 1ST floor.
No PCE or TCE used in printing operation currently.
Historic cesspool was used for only a few months during previous owner's operation and then connected to city sewer.
SS - proposed Sub-slab Soil vapor sampling location
IA - proposed indoor air sampling location.

F

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Brenda Newman Date/Time Prepared 2/16/10 13:15

Preparer's Affiliation MACTEC Phone No. 207-775-5401

Purpose of Investigation Vapor Intrusion Investigation
(NYSDEC SITE # 130053F)

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: Rubenstein First Name: Joe

Address: 68 Kinkel St.

County: Nassau

Home Phone: — Office Phone: 516-333-2130

Number of Occupants/persons at this location ~0 Age of Occupants —

2. OWNER OR LANDLORD: (Check if same as occupant ✓)

Interviewed: (Y) / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	(Commercial/Multi-use)
(Industrial)	Church	Other: _____

F

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Scrap metal salvage

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

Other characteristics:

Number of floors 1 2 (small 2nd story office) Building age 1985

Is the building insulated? Y / (N) How air tight? Tight / ~~Average~~ / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors N/A

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:		wood frame	concrete block	stone	brick
b. Basement type:	N/A	full	crawlspace	slab	other _____
c. Basement floor:	N/A	concrete	dirt	stone	other _____
d. Basement floor:	N/A	uncovered	covered	covered with _____	
e. Concrete floor:		unsealed	sealed	sealed with _____	
f. Foundation walls:		poured	block	stone	other _____
g. Foundation walls:		unsealed	sealed	sealed with _____	
h. The basement is:	N/A	wet	damp	dry	moldy
i. The basement is:	N/A	finished	unfinished	partially finished	
j. Sump present?	N/A	Y / N			
k. Water in sump?		Y / N / not applicable			

Basement/Lowest level depth below grade: 0 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

cracks (small)

6. **HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other _____
Air conditioning:	Central Air	Window units	Open Windows	None

F

Are there air distribution ducts present? Y / (N)

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time · Occasionally · (Seldom) · Almost Never

Level	General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)
Basement	—
1st Floor	storage (scrap metal)
2nd Floor	storage (office - small)
3rd Floor	
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / (NA) Please specify_____

d. Has the building ever had a fire? Y / (N) When?_____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where?_____

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type?_____

g. Is there smoking in the building? (Y) / N How frequently?_____

h. Have cleaning products been used recently? Y / (N) When & Type?_____

i. Have cosmetic products been used recently? Y / (N) When & Type?_____

F

j. Has painting/staining been done in the last 6 months? Y / (N) Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y / (N) If yes, where vented? _____

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

Are there odors in the building? Y / (N)
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y / (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) (No)
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: N/A

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

F

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement: none

First Floor:

see attached drawing (PID); 12/29/09

F

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

See attached drawing CPJM; 12/29/09

F

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units) ppb	Photo** Y / N
warehouse	Paint	55gal	U	Petroleum Distillates	248	Y
"	Oil	spill	N/A		251	Y
"	batteries (sp-end)	N/A	D		242	Y
~~warehouse~~ "	diesel gasoline (pump)	-	-		279	Y
(Not necessarily relevant here; noted to be transcribed later into logbook)						

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

F

MACTEC

MACTEC Engineering and Consulting, Inc.
107 Audubon Road, Bldg. 2, Suite 301
Wakefield, MA 01880

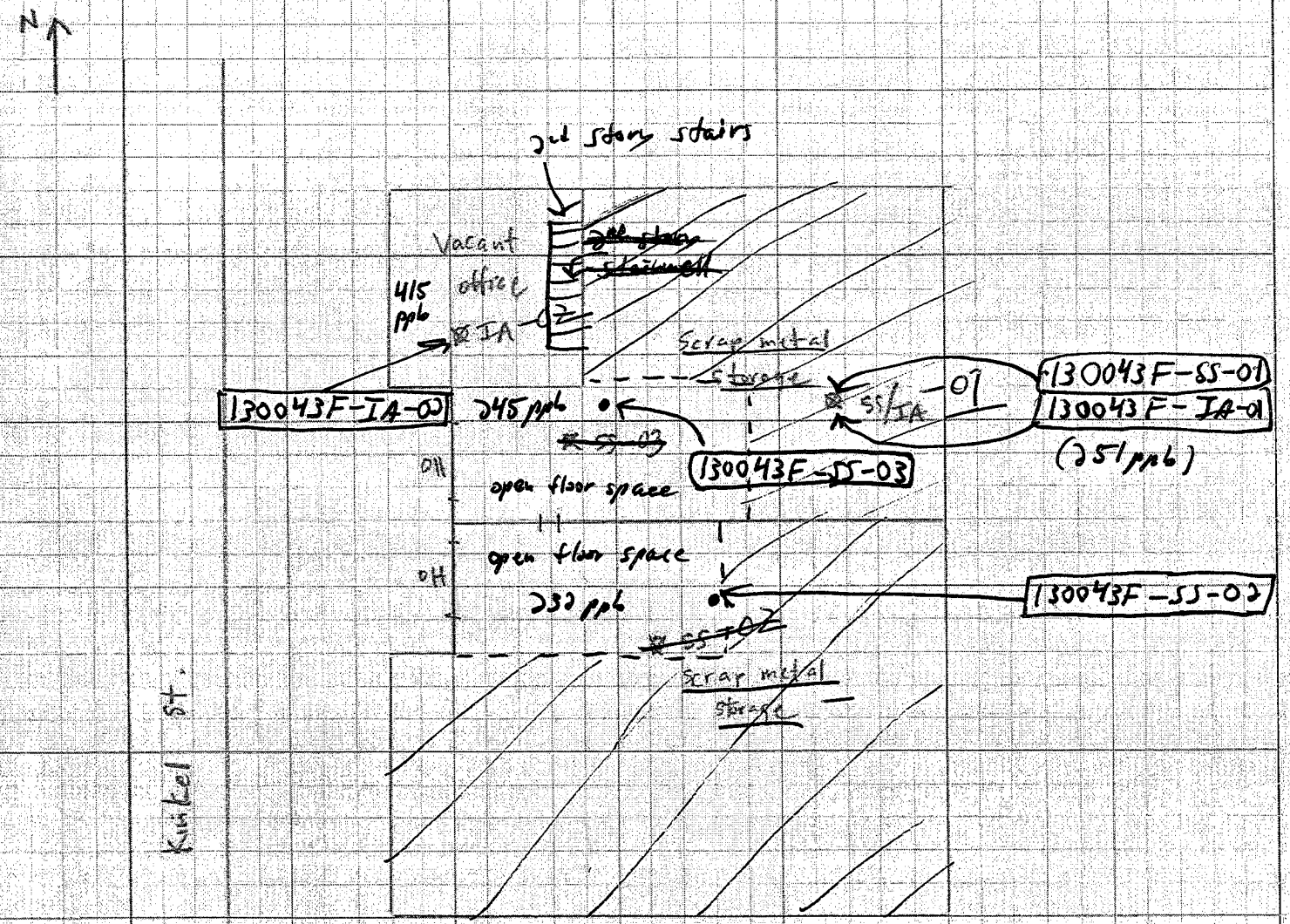
JOB NO. NCIA SHEET 1 OF 1

PHASE 3612092127 TASK 04.01

JOB NAME 68 Kinkel St.

BY TJM DATE 12-29-09

CHECKED BY _____ DATE _____



Notes: Sub-slab soil vapor sample locations can be placed anywhere concrete slab is exposed. One SS sample should be located as close as possible to northwest corner.

There are no occupants in this building — only occasional forklift operators.

Vacant office has vacant 2nd floor.

SS - Proposed sub-slab soil vapor sampling location.
IA - Proposed indoor air sampling location.

K

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Brandon Newman Date/Time Prepared 2/16/10

Preparer's Affiliation MACTEC Phone No. 207-775-5401

Purpose of Investigation Vapor Intrusion Investigation
(NYSDEC SITE # ~~130058K~~ 130043K)

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: Marasco First Name: Tom

Address: 62 Kinkel St

County: Nassau

Home Phone: — Office Phone: 516-333-1086

Number of Occupants/persons at this location 12 Age of Occupants 20-50

2. OWNER OR LANDLORD: (Check if same as occupant ✓)

Interviewed: (Y)/ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	(Commercial/Multi-use)
Industrial	Church	Other: _____

K

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) showroom & office

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

Other characteristics:

Number of floors 1 Building age 60 yrs

Is the building insulated? (Y) / N (partial) How air tight? Tight / (Average) / Not Tight

4. **AIRFLOW**

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors N/A

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:		wood frame	concrete blocks	stone	brick
b. Basement type:	N/A	full	crawlspace	slab	other _____
c. Basement floor:	N/A	concrete	dirt	stone	other _____
d. Basement floor:	N/A	uncovered	covered	covered with _____	
e. Concrete floor:		unsealed	sealed	sealed with _____	
f. Foundation walls:		poured	block	stone	other _____
g. Foundation walls:		unsealed	sealed	sealed with _____	
h. The basement is:	N/A	wet	damp	dry	moldy
i. The basement is:	N/A	finished	unfinished	partially finished	
j. Sump present?	N/A	Y / N			
k. Water in sump?		Y / N / not applicable			

Basement/Lowest level depth below grade: 0 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

cracks, utilities

6. **HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: N/A

Boiler/furnace located in: Basement Outdoors Main Floor Other roof top

Air conditioning: Central Air Window units Open Windows None

K

Are there air distribution ducts present? (Y)/ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? (Full-time) Occasionally Seldom Almost Never

Level	General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)
Basement	—
1st Floor	workshop, showroom, offices
2nd Floor	
3rd Floor	
4th Floor	

8. FACTORS THAT MAY influence INDOOR AIR QUALITY

a. Is there an attached garage? Y /(N)

b. Does the garage have a separate heating unit? Y / N /(NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N /(NA) Please specify_____

d. Has the building ever had a fire? Y /(N) When?_____

e. Is a kerosene or unvented gas space heater present? Y /(N) Where?_____

f. Is there a workshop or hobby/craft area? (Y)/N Where & Type? behind showroom; granite workshop

g. Is there smoking in the building? (Y) N How frequently?_____

h. Have cleaning products been used recently? Y /(N) When & Type?_____

i. Have cosmetic products been used recently? Y /(N) When & Type?_____

j. Has painting/staining been done in the last 6 months? Y / (N) Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? (Y) N If yes, where vented? roof

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

Are there odors in the building? Y / (N)
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y / (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N N/A

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) (No)
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____
Is the system active or passive? Active/Passive N/A

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: N/A

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

k

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement: No basement

First Floor:

See PJM's drawing (attached) 10/29/09

K

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

See PDMS drawing (attached); 11/24/09

K

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb Rae

List specific products found in the residence that have the potential to affect indoor air quality.

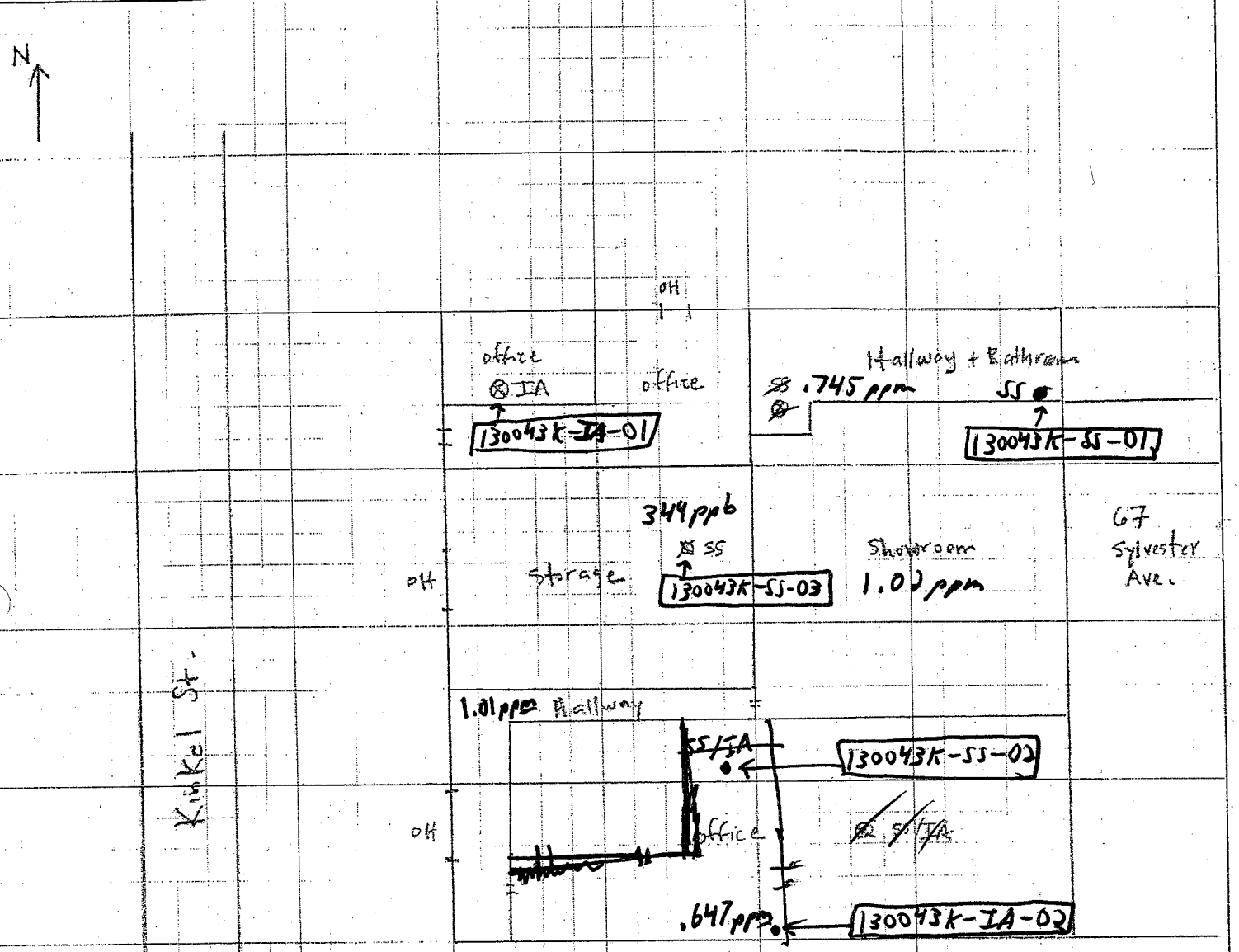
note: assorted automotive products + lubricants in storage room.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units) ppb	Photo** Y / N
Storage	Rustoleum	1 can	U	acetone, xylene	434	N
"	Brake fluid	1 can	U	diethylene glycol, triethylene glycol, polyalkylene glycol ether	"	Y
"	White lithium grease	1 can	U	liquefied petroleum gas, heptane, mineral oil	"	Y
"	WD40	2 cans	UO		"	Y

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

MACTEC
MACTEC Engineering and Consulting, Inc.
107 Audubon Road, Bldg. 2, Suite 301
Wakefield, MA 01880

JOB NO. NGIA SHEET 1 OF 1
PHASE 361209 2127 TASK 05.01
JOB NAME 62 Kinkel St. Former LAKA Bindery
BY PJM DATE 12-29-09
CHECKED BY _____ DATE _____



Notes: MACTEC was unable to access office space in the Southern section of the building. A sub-slab soil vapor sample should be collected in that space, if possible.

IA - proposed indoor air sampling location
SS - proposed sub-slab soil vapor sampling location.

OSR – 3

N

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Brandon Newman Date/Time Prepared 2/16/10 2:45

Preparer's Affiliation MACTEC Phone No. 207-775-5401

Purpose of Investigation Vapor Intrusion Investigation
(NYSDEC SITE # 130043N)

1. OCCUPANT:

Interviewed: (Y) N

Last Name: Schnepper First Name: Charles (Property mgr)

Address: 750 Summa Ave, Westbury 11590

County: Nassau

Home Phone: — Office Phone: _____

Number of Occupants/persons at this location 0 Age of Occupants —

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y (N)

Last Name: _____ First Name: _____

750 Summa Ave. LLC managed by Spiegel Associates

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use
Industrial	Church	Other: _____

N

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) none currently ; formerly EZM medical facility

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

Other characteristics:

Number of floors 2 (mostly 1 story warehouse) Building age 1967

Is the building insulated? Y / (N) How air tight? Tight / Average / (Not Tight)

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors N/A

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	concrete block	stone	brick
b. Basement type: N/A	full	crawlspace	slab	other _____
c. Basement floor: N/A	concrete	dirt	stone	other _____
d. Basement floor: N/A	uncovered	covered	covered with ~~paint~~ unk	
e. Concrete floor:	unsealed	sealed	sealed with _____	
f. Foundation walls:	poured	block	stone	other _____
g. Foundation walls:	~~unsealed~~	sealed	sealed with _____	
h. The basement is: N/A	wet	damp	dry	moldy
i. The basement is: N/A	finished	unfinished	partially finished	
j. Sump present? N/A	Y / N			
k. Water in sump?	Y / N / ~~not applicable~~			

Basement/Lowest level depth below grade: 0 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

~~None visible~~ cracks (mostly small), cut sections in warehouse floor, floor drain

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

~~Hot air circulation~~ (offices)	Heat pump	Hot water baseboard	
~~Space Heaters~~ (warehouse)	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

~~Natural Gas~~	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: " "

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other N/A
Air conditioning:	Central Air	Window units	Open Windows	None

Are there air distribution ducts present? Y / (N)

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom (Almost Never) currently

Level	General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)
Basement	—
1st Floor	warehouse
2nd Floor	offices
3rd Floor	
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / (NA) Please specify_____

d. Has the building ever had a fire? Y / (N) When?_____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where?_____

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type?_____

g. Is there smoking in the building? Y / (N) How frequently?_____

h. Have cleaning products been used recently? Y / (N) When & Type?_____

i. Have cosmetic products been used recently? Y / (N) When & Type?_____

j. Has painting/staining been done in the last 6 months? Y / (N) Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? roof

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

Are there odors in the building? Y / (N)
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y / (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) (No)
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: N/A

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

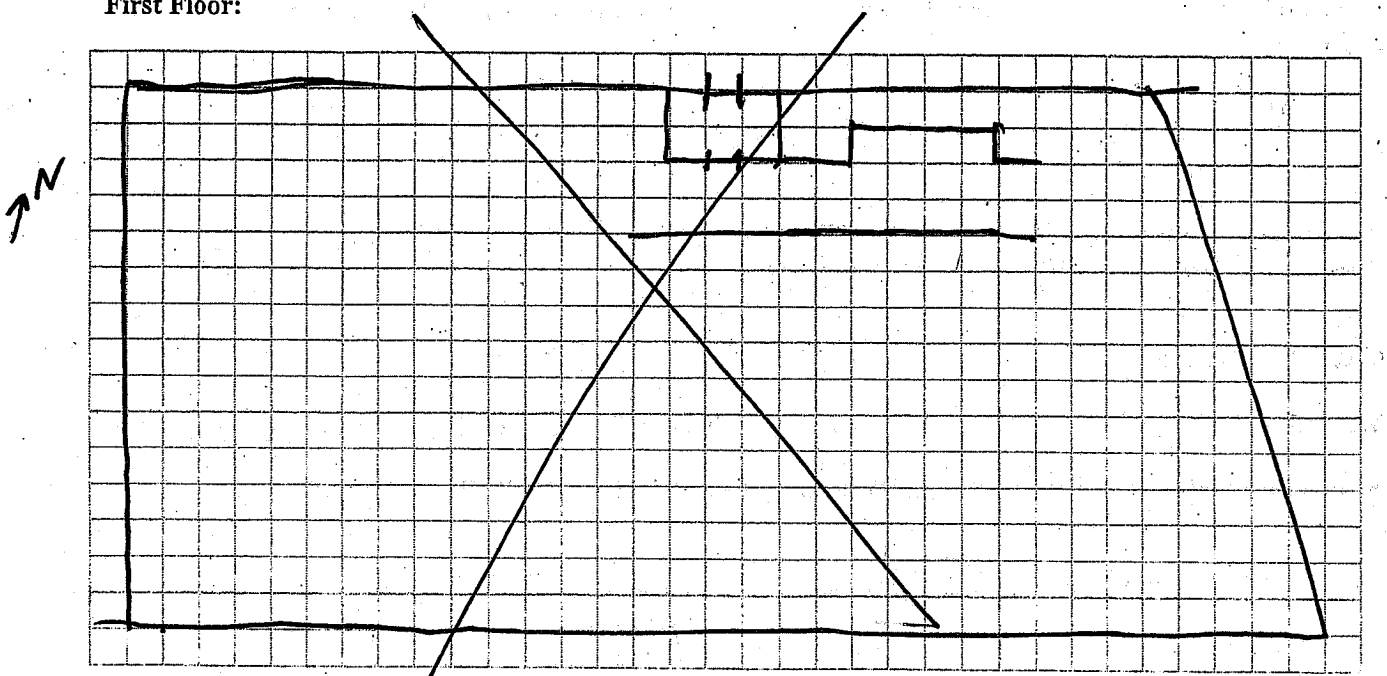
d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement: none

First Floor:

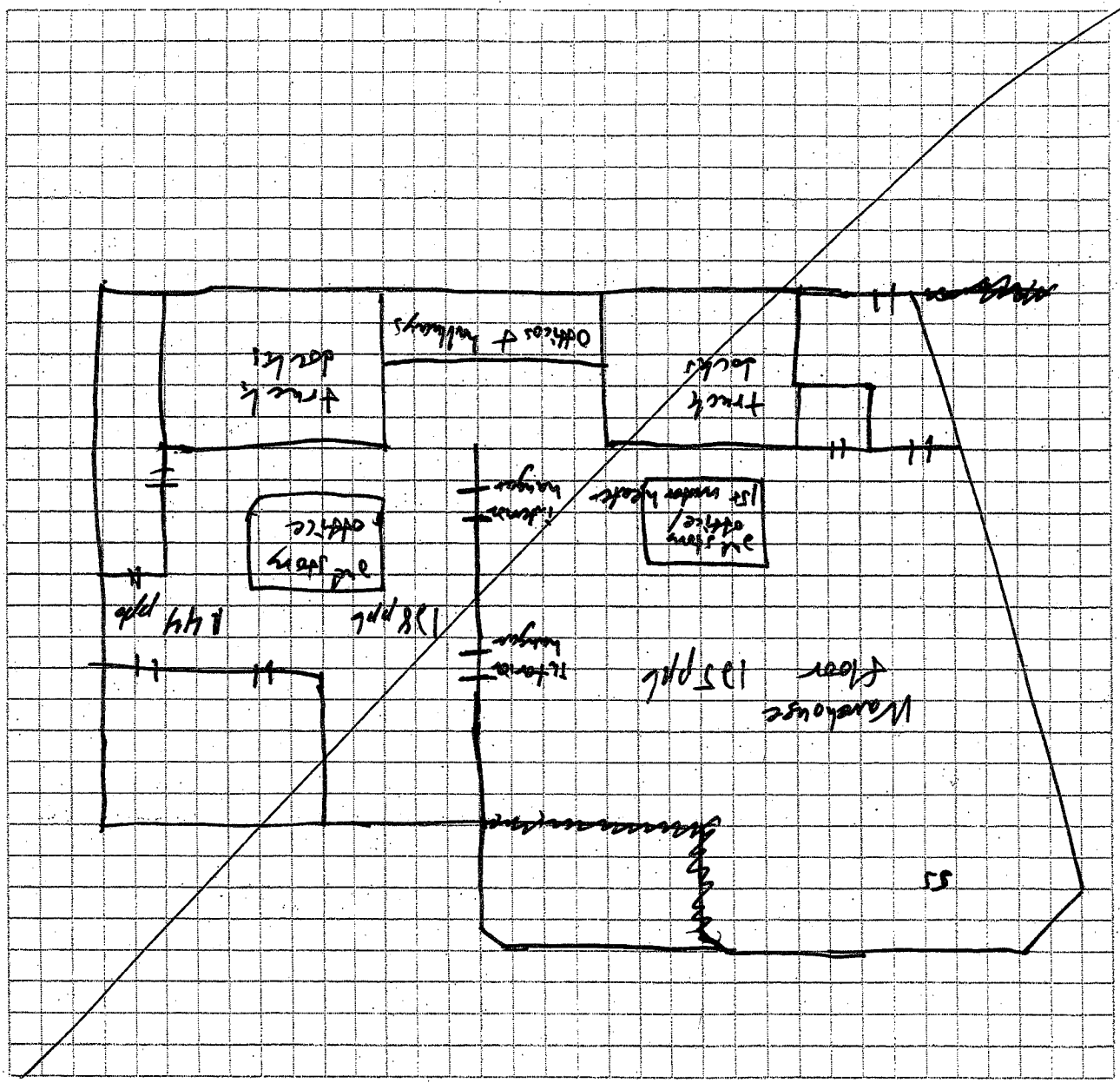


see next page

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



again, see attached; it's difficult to keep track of large layout

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb RAE

List specific products found in the residence that have the potential to affect indoor air quality.

None

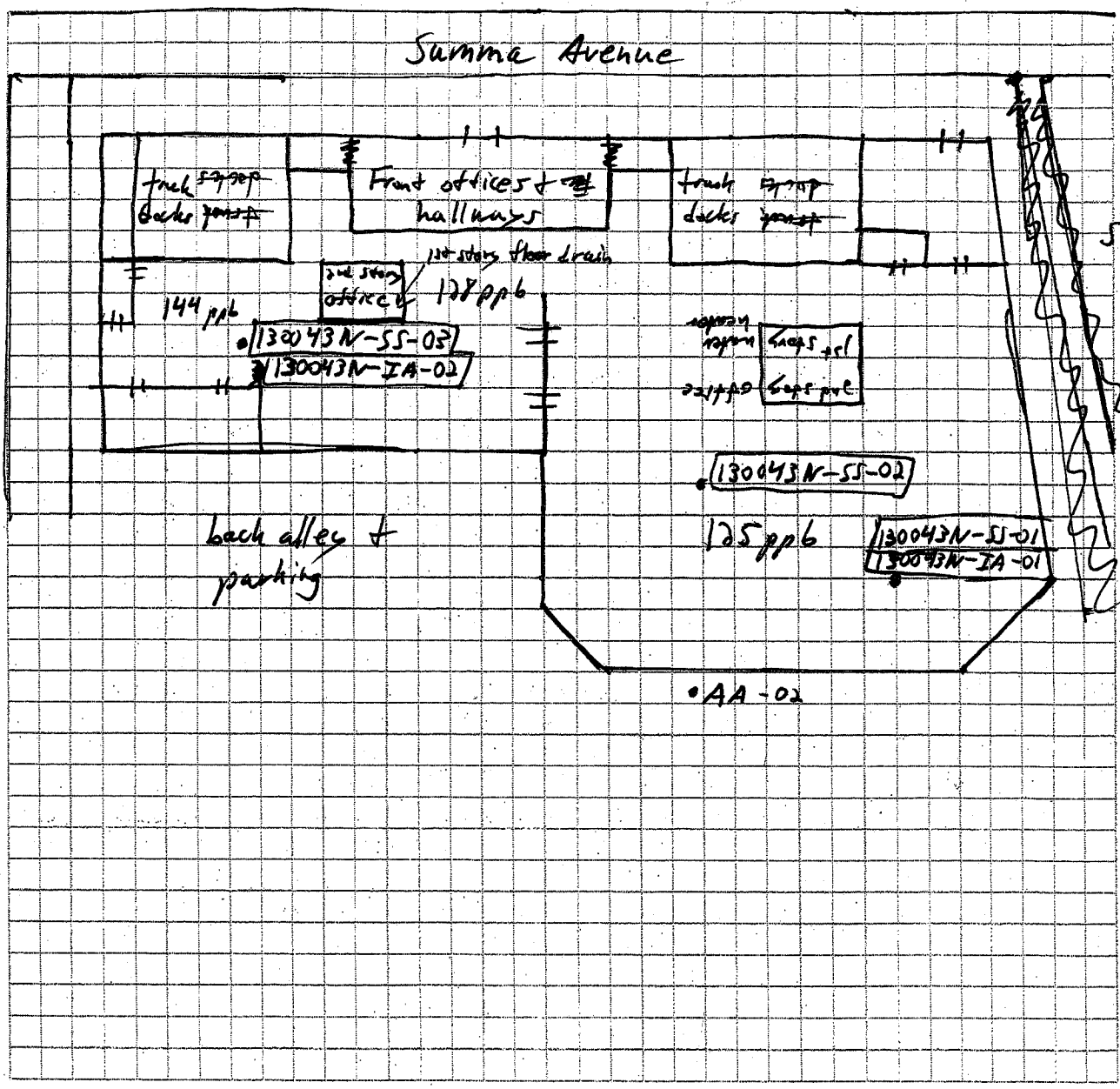
Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N

* Describe the condition of the product containers as **Unopened (UO), Used (U)**, or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: _____

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

MACTEC

MACTEC Engineering and Consulting, Inc.
107 Audubon Road, Bldg. 2, Suite 301
Wakefield, MA 01880

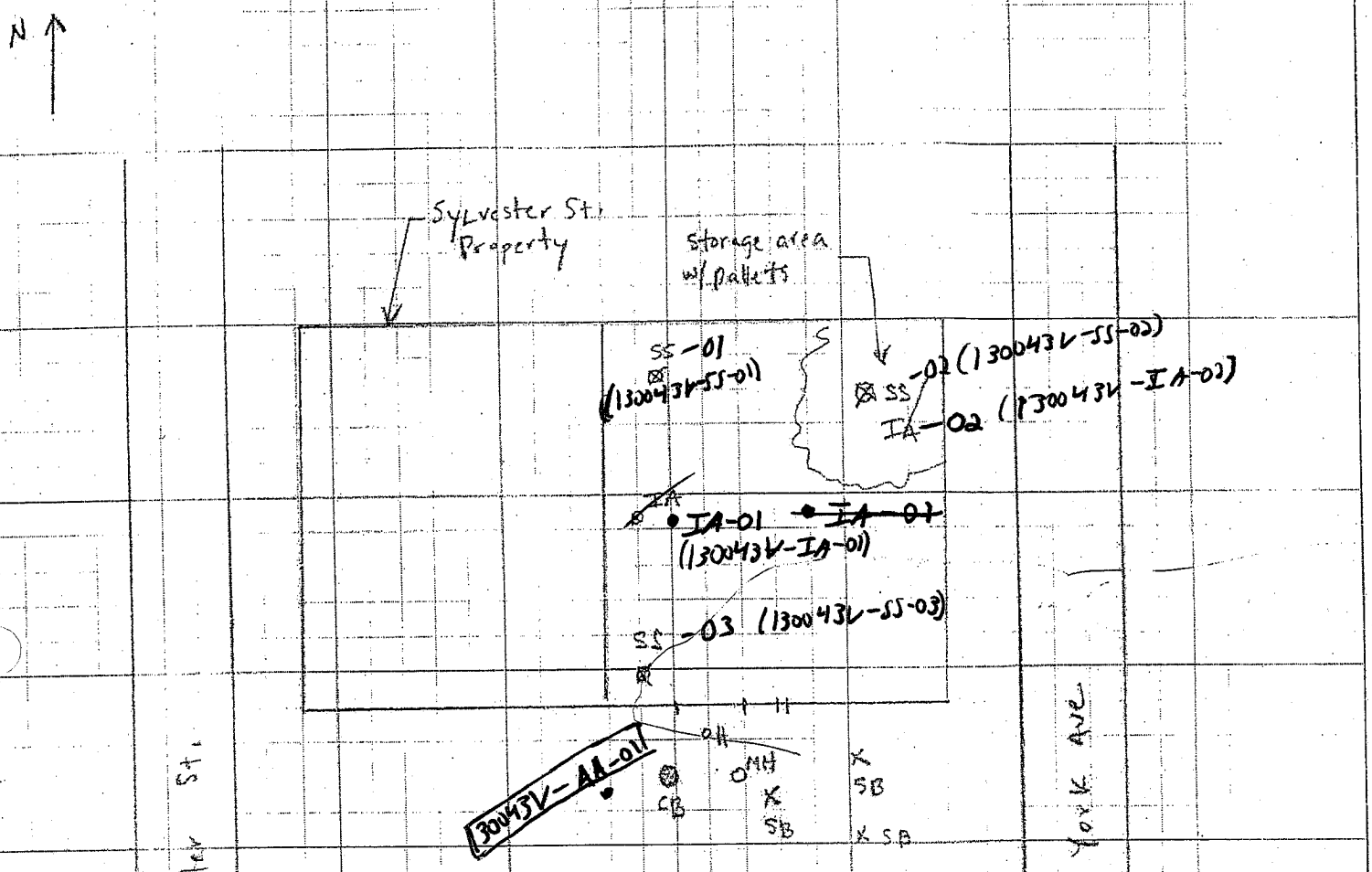
JOB NO. NGIA SHEET 1 OF 1

PHASE 3612092127 TASK 07.01

JOB NAME 29 New York Ave Tishcon Corp

BY PJM DATE 12.29.03

CHECKED BY _____ DATE _____



Note: sub-slab SV points can be placed almost anywhere in building. Check with Jim (facilities manager) (516) 333-7577 for utilities and for moving pallets.

IA - proposed indoor air sample location

SS - sub-slab soil vapor sample (proposed)

SB - proposed soil borings, exact location determined after locations are cleared by NY one Call

CB - catch basin, approximate location

MH - manhole, approximate location

V

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Rick Walzak Date/Time Prepared 2/17/10 13:00

Preparer's Affiliation Mactec Eng. + Cons. Phone No. 207-775-5401

Purpose of Investigation Soil Vapor Intrusion investigation @ NY Site # 130043V

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: Jacoby First Name: Jim

Address: 29 New York Ave

County: ~~X~~ Nassau

Home Phone: ——— Office Phone: 516-333-7577

Number of Occupants/persons at this location ~50 Age of Occupants 20-64

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y (N)

Last Name: First Name:

Address:

County:

Home Phone: Office Phone:

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use
(Industrial)	Church	Other:

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? NA 1

If the property is commercial, type?

Business Type(s) Light manufacturing w/ office space 2nd floor.

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

Other characteristics:

Number of floors 2 Building age ~45

Is the building insulated? Y / (N) How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors
Through stairwell

Airflow near source
NA

Outdoor air infiltration
Garage door. Two regular doors. Large opening with hanging plastic divider between two addresses

Infiltration into air ducts
No air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	(concrete) block	stone	brick
b. Basement type:	full	crawlspace	slab	other NA
c. Basement floor:	concrete	dirt	stone	other NA
d. Basement floor:	uncovered	covered	covered with NA	
e. Concrete floor:	unsealed	sealed	sealed with Painted	
f. Foundation walls:	poured	block	stone	other ?
g. Foundation walls:	unsealed	sealed	sealed with ?	
h. The basement is:	wet	damp	dry	moldy None
i. The basement is:	finished	unfinished	partially finished NA	
j. Sump present?	Y / (N)			
k. Water in sump?	Y / N / (not applicable)			

Basement/Lowest level depth below grade: NA (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Concrete slab joint. Rest looks competant.

6. **HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

(Hot air circulation)	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other Gas fired

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: NA Electric water heater

Boiler/furnace located in: Basement Outdoors (Main Floor) Other None

Air conditioning: (Central Air) Window units Open Windows None

2nd floor offices

Are there air distribution ducts present? Y / (N)

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

NA

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never No basement

Level	General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)
Basement	NA
1st Floor	Light manufacturing
2nd Floor	Offices
3rd Floor	NA
4th Floor	NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y (N)

b. Does the garage have a separate heating unit? Y / N (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N (NA) Please specify

d. Has the building ever had a fire? Y / N When? ?

e. Is a kerosene or unvented gas space heater present? Y (N) Where?

f. Is there a workshop or hobby/craft area? (Y) N Where & Type? Next door.

g. Is there smoking in the building? Y (N) How frequently?

h. Have cleaning products been used recently? (Y) / N When & Type? Every day

i. Have cosmetic products been used recently? (Y) / N When & Type? Only on the women

j. Has painting/staining been done in the last 6 months? Y / (N) Where & When? _____

k. Is there new carpet, drapes or other textiles? Y (N) Where & When? _____

l. Have air fresheners been used recently? Y (N) When & Type? _____

m. Is there a kitchen exhaust fan? Y (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y (N) If yes, where vented? _____

o. Is there a clothes dryer? Y (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y (N) When & Type? _____

Are there odors in the building? Y / N
If yes, please describe: None observed

Do any of the building occupants use solvents at work? (Y) / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? Mold cleaning products

If yes, are their clothes washed at work? Y (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)
Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service
~~No~~
Unknown

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

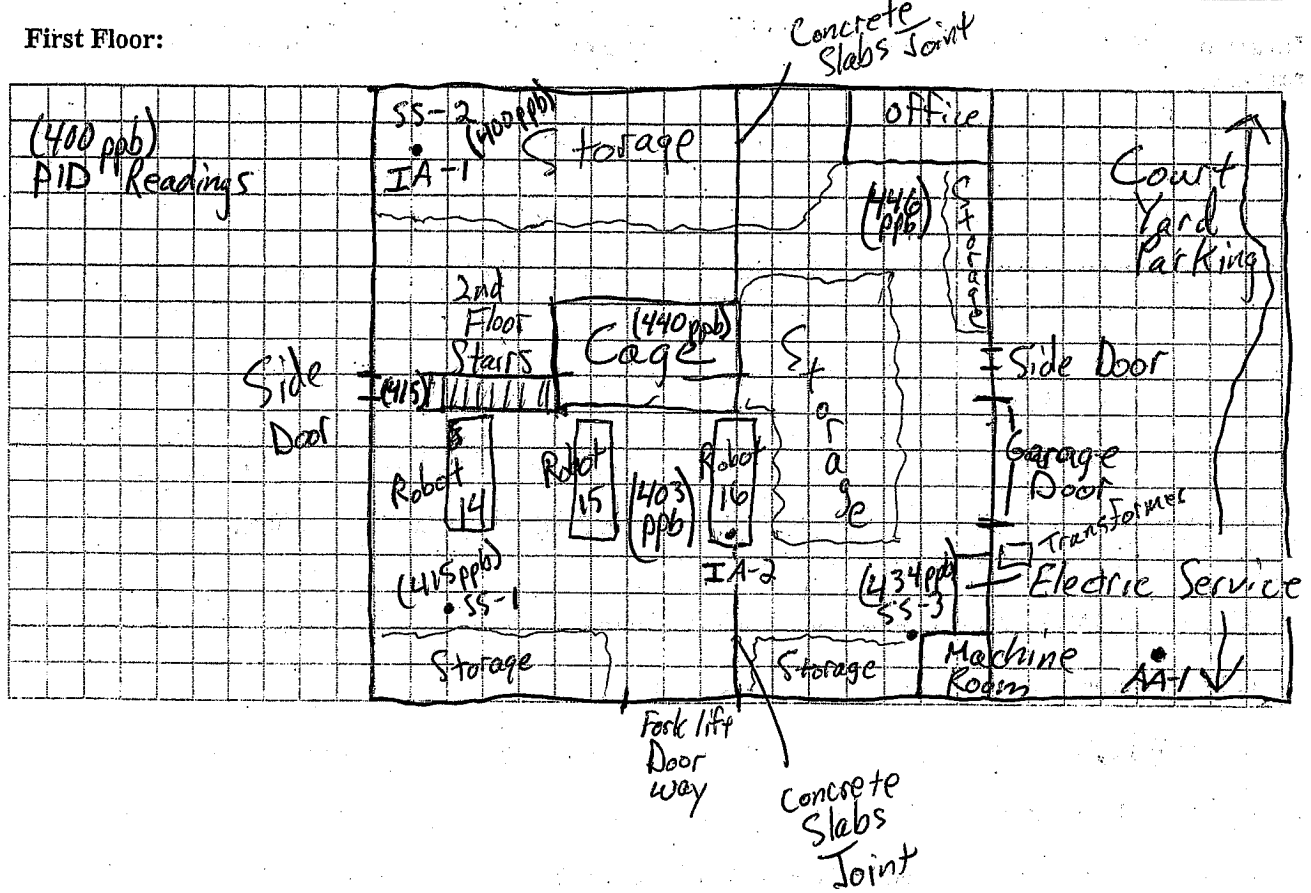
d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement: No Basement.

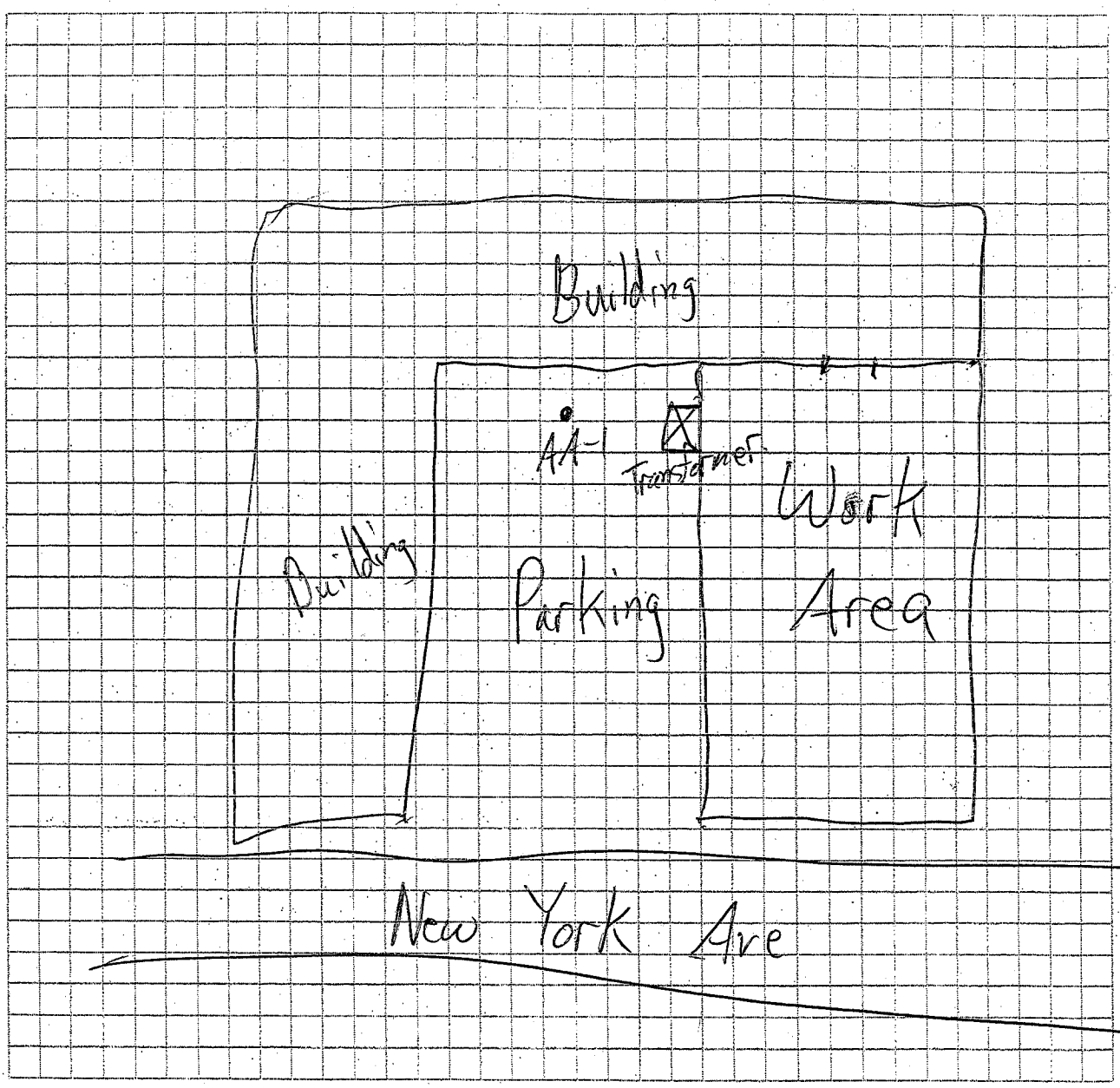
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: _____

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
Robot lines	Mold cleaner	16 oz spray can	O.K.	Perchloroethylene, Toluen, Acetone, CO_2	Background	N
"	Plastic Colorants	5 gal pale	Empty	Titanium Dioxide, Aluminum oxide Silicon Dioxide, Zirconium Dioxide	"	N
"	Acid Vapor Neutralizer	16 oz spray can		TCE	"	N
Cage	Cleaners	Gallon	Good	Simple Green, Pine-Sol, Lysol, Windex	"	N
"				Denatured Alcohol, WD-40 Paint thinner, Oil Paint		
				Floor cleaner, Can of xylene		

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

APPENDIX C

PHOTOGRAPHIC LOG

New Cassel Photos – IMC Magnetics (130043A)

Chemical Storage 1st Floor 1

Chemical Storage 1st Floor 2

Chemical Storage 1st Floor 3

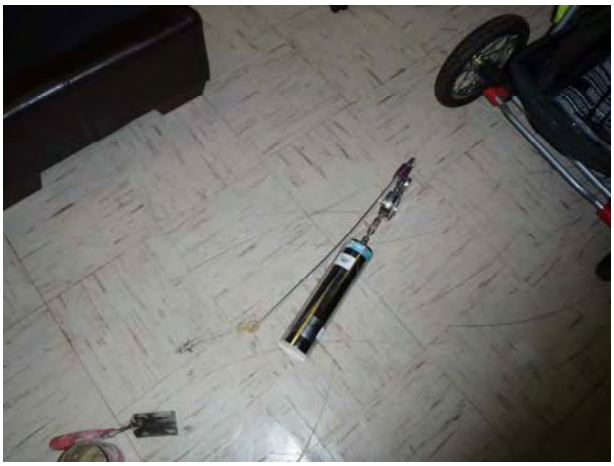
Chemical Storage 1st Floor 4

Chemical Storage Basement 1

Chemical Storage Basement 2

IA-01

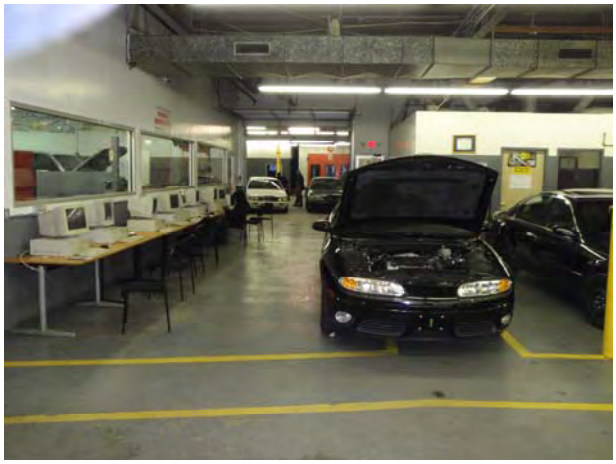
SS-01



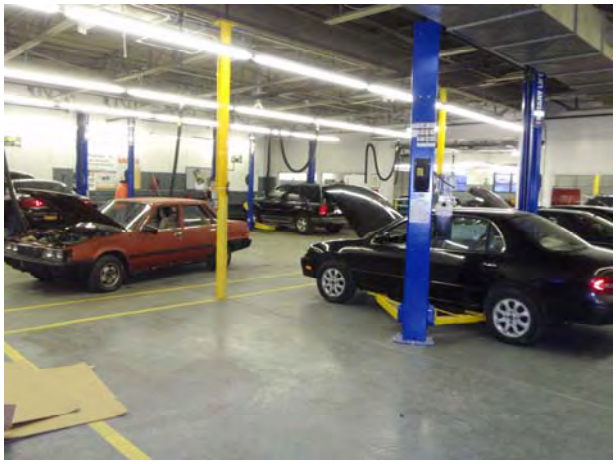
SS-03

Vocational School Basement

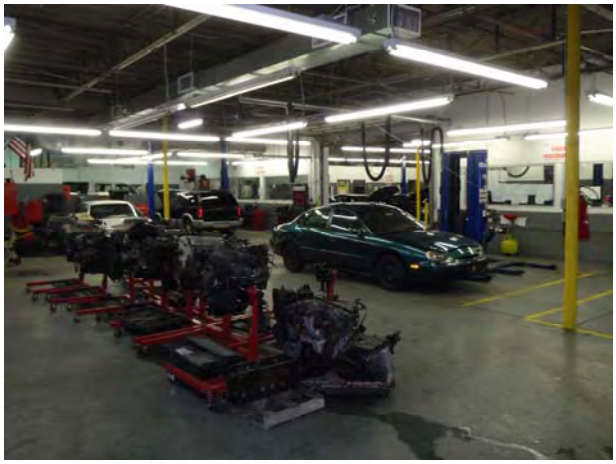
Vocational School Classroom



Vocational School Computer Cluster



Vocational School East



Vocational School West

New Cassel Photos – Atlas Graphics (130043B)

Blocking Room

Chemical Inventory 1

Chemical Inventory 2

Chemical Inventory 3

Chemical Inventory 4

Chemical Inventory 5

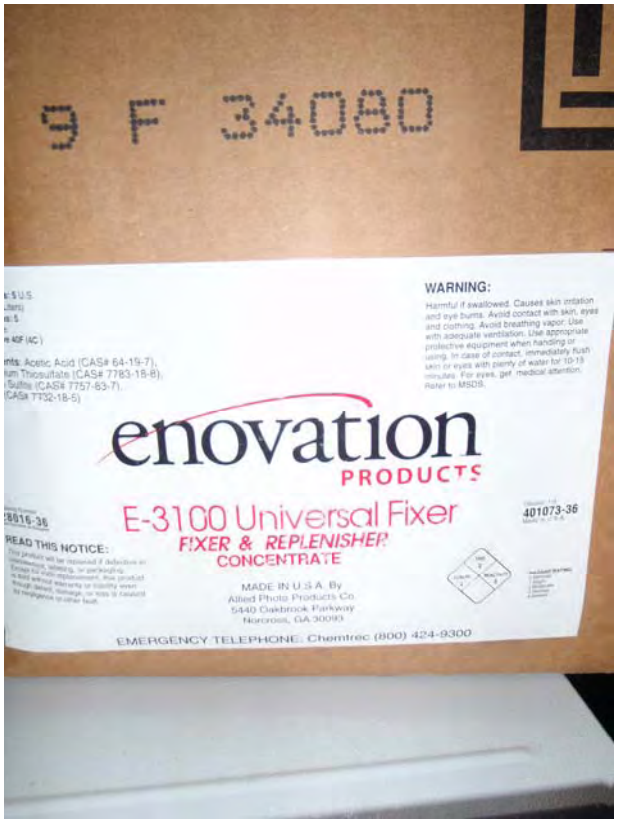
Chemical Inventory 6

Chemical Inventory 7

Chemical Inventory 8

Chemical Inventory 9

Chemical Inventory 10



Chemical Inventory 11

Etching Room

Front Office

SS-02

Stripping Room

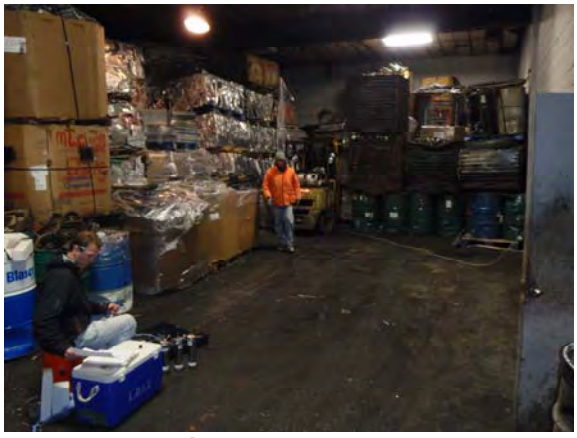
Workshop 1

Workshop 2

New Cassel Photos – Former Tishcon Corp (130043F)

Chemical Inventory 1


Fuel Pump


Northern Storage 1

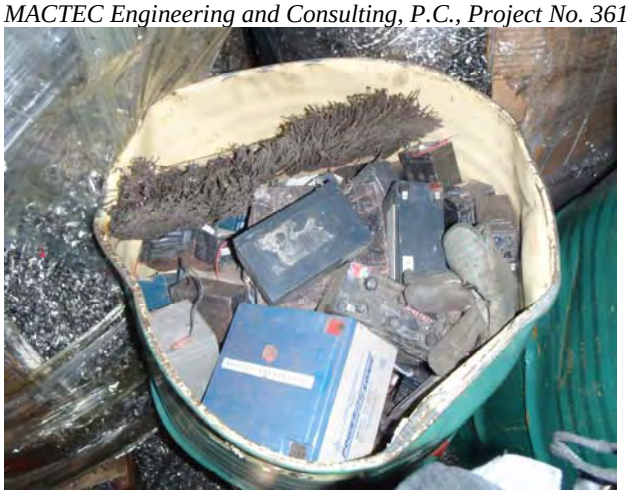

Northern Storage 2

Southern Storage 1

Southern Storage 2

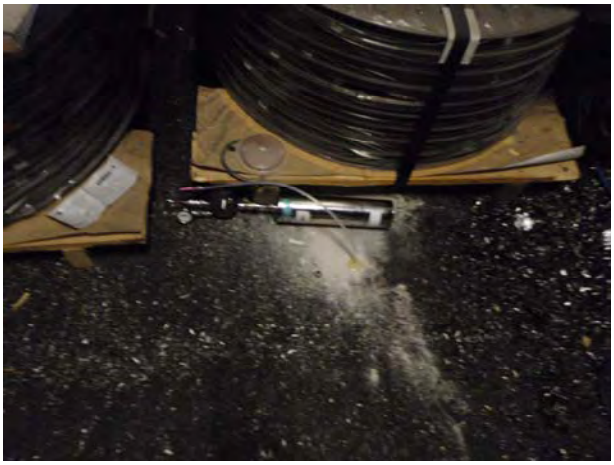
Southern Storage Batteries 1

Southern Storage Batteries 2



Southern Storage Batteries 3

Southern Storage Oil Spill



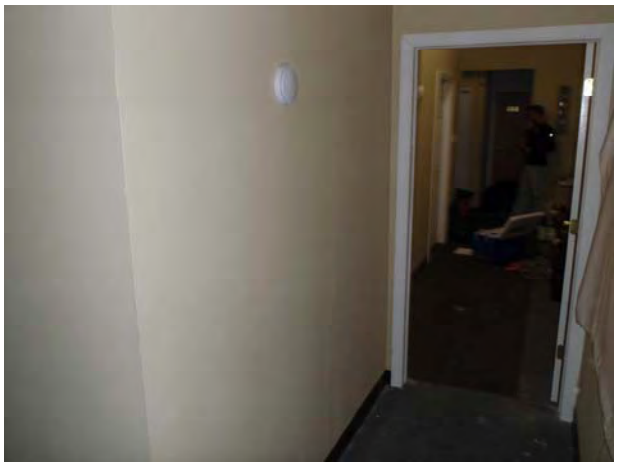
SS-02

SS-03

New Cassel Photos – Former LAKA Industries, Inc. (130043K)

Chemical Inventory

Hallway & Bathroom


Hallway


Show Room


SS-01


SS-02

SS-03

Storage Room

New Cassel Photos – Former EZ-EM, Inc. (130043N)

IA-01

IA-02

SS-01

SS-02

SS-03

Warehouse South Center

Warehouse Southwest

Warehouse West

APPENDIX D

DIRECT PUSH SOIL BORING LOGS

SOIL BORING LOG

Project: NUA		Boring/Well No.: DP-1	Project No.: 3612092127
Client: NYSDEC	Site: 29 New York Ave		Sheet No.: 1 of 3
Logged By: B. Shaw	Ground Elevation: —	Start Date: 05-19-10	Finish Date: 05-19-10
Drilling Contractor: Aztech	Driller's Name: Bob Gannon		Rig Type: Truck Mounted
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): 10.6	Casing Size: — / Auger Size: 2 1/2"
Soil Drilled: ~25'	Rock Drilled: —	Total Depth: ~25	Depth to Groundwater/Date: — Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests ID Sample
1	S1 @ 1400 2.6/5.0	52%	NA	0-0.2 Asphalt. 0.2-1.2 concrete 1.2-2.6 Lt olive to orange to black SAND. w/ fine gravel, poorly graded, MDense, damp, NP (SP) (FILL) 2.6-5 Lt Brown SAND, some fine gravel, poorly graded, MDense, damp to wet, SP.	Fill (SP)	0.6	ppm.	
2						0.6		
3						0.6		
4						1.0		
5								
6	S2 @ 1412 0.5/5.0	10%	NA	5-10 v. little recovery. Light grey, M course Sand, fine to coarse, poorly graded, loose, damp; NP. (SP)	SP	0.6		
7								
8						0.6		
9								
10								

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FIGURE 4-4
SOIL BORING LOG
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SOIL BORING LOG

Project: NGIA	Boring/Well No.: DP-1	Project No.: 36120942127	
Client: NYSDEC	Site: 29 New York Ave	Sheet No.: 2 of 3	
Logged By: B Shaw	Ground Elevation:	Start Date: 05-19-10	Finish Date: 05-19-10
Drilling Contractor: Aztech	Driller's Name: Bob Gannon	Rig Type: Truck Mounted	
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): 10.6	Casing Size: — / Auger Size: 2 1/2"
Soil Drilled: ~25'	Rock Drilled: —	Total Depth: ~25'	Depth to Groundwater/Date: —

Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests ID Sample
10								
11	S3 @ 1417	3.5 / 5.0	70%	NA	10-10.5 Lt olive silt, PO, m stiff, damp/wet, NP, (SM)	SM	0.2 ppm	
12					10.5-15 Lt Brown to yellow to orange m. coarse Sand, fine sand to fine gravel (trace gravel @ ~14'), well graded, damp, NP, MDense, fine gravel is well rounded (GW)	GW	0.6	
13							0.6	
14								
15								
16	S4 @ 1426	2.9 / 5.0	58%	NA	15-19 Lt orange to Lt yellowish Brown coarse sand, fine sand to fine gravel, Some gravel, well graded, MDense to Dense, damp, NP, (SW)	SW	0.6	
17							1.4	
18							1.0	
19					19-20 DK reddish/orangish Brown, m coarse Sand, w/ fine gravel, trace fine Sand, PO, damp, MDense, NP, (SP)	SP	0.6	
20								

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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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SOIL BORING LOG

Project: NUA		Boring/Well No.: DP-1	Project No.: 36120921.27
Client: NYSDEC	Site: 29 New York Ave		Sheet No.: 3 of 3
Logged By: B. Snad	Ground Elevation: —	Start Date: 05-19-10	Finish Date: 05-19-10
Drilling Contractor: Aztech	Driller's Name: Bob Gannon		Rig Type: Truck Mounted
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): 10.6	Casing Size: — / Auger Size:
Soil Drilled: 25'	Rock Drilled: —	Total Depth: 25'	Depth to Groundwater/Date: —

Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests ID Sample
20								
21	S5 @ 1435	2.3 / 5.0	46%	NA	20-23.5 Lt orange/brown m coarse sand little fine gravel, PG, Dense, damp, NP (SP)	SP	1.0	ppm
22							1.4	
23					23.5-25 Lt orange m coarse sand, trace coarse sand/fine gravel, PG, damp, NP (SP)		1.6	
24						SP		
25							1.8	*

* collected soil sample @ DP-1
136043V-DP0125 @
- 3 VOAs (MeOH, DI)
- 1 Z moisture

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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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SOIL BORING LOG

Project: NUA		Boring/Well No.: DP-2	Project No.: 3612092127
Client: NYSDEC	Site: 29 New York Ave		Sheet No.: 1 of 3
Logged By: B. Shaw	Ground Elevation: —	Start Date: 05-19-10	Finish Date: 05-19-10
Drilling Contractor: Aztech	Driller's Name: Bob Gannon		Rig Type: Truck Mounted
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): 10.6	Casing Size: — / Auger Size: 2 1/2"
Soil Drilled: ~25'	Rock Drilled: —	Total Depth: ~25'	Depth to Groundwater/Date: —

Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests ID Sample
1				0-0.2 Asphalt			0.6 ppm	
2	3.2 / 5.0	64%	NA	0.2-1.5 Concrete 1.5-5 Brown to olive to light brown silty sand, little gravel, wood fragment @ ~3.5 bgs, W6, Dense, to mDense, damp to moist, NP to np (@ ~4' bgs),	Fill (SM)		0.6	
3							0.4	
4								
5								
6	3.4 / 5.0	68%	NA	5-9.5 Lt orange brown to black in places, coarse Sand, fine sand to fine gravel, poorly graded, mDense, damp, NP, 9.5-10 clean mcoarse Sand, PG, damp, loose, NP,	SP		0.2	
7							0.4	
8								
9							0.4	
10					SP		0.2	

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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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SOIL BORING LOG

Project: NYIA		Boring/Well No.: DP-02	Project No.: 3612092127
Client: NYSDEC	Site: 29 New York Ave		Sheet No. 2 of 3
Logged By: B. Shand	Ground Elevation: —	Start Date: 05-19-10	Finish Date: 05-19-10
Drilling Contractor: Aztech	Driller's Name: Bob Gannon		Rig Type: Truck mounted
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): 10.6	Casing Size: — / Auger Size: ~2 1/2"
Soil Drilled: ~25'	Rock Drilled: —	Total Depth: ~25'	Depth to Groundwater/Date: —

Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests ID Sample
10				10 - 12 Same as 9.5-10				
11					SP	0.2 ~~0.2~~		
12	3.9 / 5.0	78%	NA	12 - 15 orange brown coarse Sand w/ gravel (fine Sand to fine gravel), trace coarse gravel, PG, M Dense to Dense, damp - gravel is well rounded, NP,				
13					SP	0.2		
14						0.2		
15				15 - 16.5 Same as 12-15				
16				16.5 - 20 Lt orange brown fine Sand, some m/coarse sand - well rounded, PG, M Dense, damp.	SP	0.2		
17	4.9 / 5.0	98%	NA			0.1		
18					SP			
19						<0.1		
20						<0.1		

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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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SOIL BORING LOG

Project: NUIA		Boring/Well No.: DP-2	Project No.: 361292127
Client: NYSDEC	Site: 29 New York Ave		Sheet No.: 3 of 3
Logged By: B. Snow	Ground Elevation: —	Start Date: 05-19-10	Finish Date: 05-19-10
Drilling Contractor: Aztech	Driller's Name: Bob Gannon		Rig Type: Truck Mounted
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): 10.6	Casing Size: — / Auger Size: 2 1/2"
Soil Drilled: ~25'	Rock Drilled: /	Total Depth: ~25'	Depth to Groundwater/Date: —

Piez ☐ Well ☐ Boring ☑

Depth(Feet)	Sample No. & Penetration/ Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests ID Sample
20								
21				20-25 Interval brown/orange brown medium coarse to coarse Sand, little fine Sand to f gravel, PG, moderate, damp, VS	SP	0.2	ppb	
22	4.3 / 5.0	86%	NA			0.1		
23						0.3		⊛
24						0.2		
25								

⊛ Collected Soil sample @ ~24' bgs
130043V-DP224 @ 1540.
- 3 rocks
- 7% moisture

bgs

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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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SOIL BORING LOG

Project: NUA, SITE V	Boring/Well No.: DP-4	Project No.: 36120921127-07.	
Client: NYSDEC	Site: Westbury, NY.	Sheet No.: 1 of 3	
Logged By: B Shaw	Ground Elevation: —	Start Date: 05-19-10	Finish Date: 05-19-10
Drilling Contractor: Aztech	Driller's Name: Bob HOGANNON	Rig Type: Truck mounted	
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): 10	Casing Size: — / Auger Size: ~2 1/2"
Soil Drilled: ~25'	Rock Drilled: —	Total Depth: ~25'	Depth to Groundwater/Date: —

Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests ID Sample
0								
1	2.8 / 5.6	56%	NA	0-0.3 Asphalt 0.3-1 concrete 1-5 brown to orange to black silty sand & gravel, well graded, m Dense, moist, NI ISP; slag @ ~4.5' bgs	Fill (SM)	0.2 ppm		
2						Lo.1		
3								
4						0.2		
5								
6	2.5 / 5.0	50%	NA	5-8 same as 1-5 8-10 light grey sandy silt & gravel, wet, WG, slight odor, SP, m dense, (*) collected Soil Sample @ DP-4 @ 9.5 130A3V-DP410 @ 1640 -3 VOAs -2 moisture	Fill (SM)	0.1		
7						Lo.1		
8								
9					SW/SC	2.3		(*)
10								

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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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SOIL BORING LOG

Project: NCIA		Boring/Well No.: DP-4	Project No.: 361209227
Client: NYSDEC	Site: 29 New York Ave		Sheet No.: 2 of 3
Logged By: B'Shaw	Ground Elevation: —	Start Date: 05-19-10	Finish Date: 05-19-10.
Drilling Contractor: AzTech	Driller's Name: Bob Gannon		Rig Type: Truck Mounted.
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): 10.6	Casing Size: /	Auger Size: ~2 1/2"
Soil Drilled: ~25'	Rock Drilled: /	Total Depth: ~25'	Depth to Groundwater/Date: —	Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests ID Sample
10								
11	S3 @ 1645	2.1/5.0	42%	NA	10-15 Lt orange brown, m coarse sand some coarse to fine gravel, PG, damp, m dense, NP	SP	0.6	ppm
12							0.4	
13								
14							0.5	
15								
16	S4 @ 1650	2.6/5.0	52%	NA	15-20 Lt yellowish brown m coarse to coarse sand, well round, PG, damp, Dense, NP,	SP	0.4	
17							0.2	
18								
19							0.2	
20								

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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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SOIL BORING LOG

Project: NUIA	Boring/Well No.: DP-4	Project No.: 36120921 27	
Client: NYSDEC	Site: 29 New York Ave	Sheet No.: 3 of 3	
Logged By: B. Shaw	Ground Elevation:	Start Date: 05-19-10	Finish Date: 05-19-10
Drilling Contractor: Aztech	Driller's Name: Bob Gannon	Rig Type: Truck Mounted	
Drilling Method: Direct Push	Protection Level: D	P.I.D. (eV): 10.6	Casing Size: /	Auger Size: 2 1/2"
Soil Drilled: ~25'	Rock Drilled: /	Total Depth: ~25'	Depth to Groundwater/Date: /	Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests ID Sample
20								
21				22-25' coarse Sand (yellowish brown to orange brown), some fine gravel, PG, damp, m Dense to Dense, NP.		0.3	ppm	
22	2.0 /	40%	N/A		SP.	0.3		
23	5.0							
24						0.2		
25								

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FIGURE 4-4
SOIL BORING LOG
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SOIL BORING LOG

Project NUA		Boring/Well No. DP-5	Project No. 361209.2127
Client NYSDEC	Site 29 New York Ave		Sheet No. 1 of 3
Logged By BShaw	Ground Elevation —	Start Date 05-19-10	Finish Date 05-19-10
Drilling Contractor Aztech	Driller's Name Bob Gannon		Rig Type Truck Mounted
Drilling Method Direct push	Protection Level D	P.I.D. (eV) 10.6	Casing Size / Auger Size ~2 1/2"
Soil Drilled ~25'	Rock Drilled /	Total Depth ~25'	Depth to Groundwater/Date — Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests ID Sample
0								
1				0-0.3 Asphalt		0.1 ppm		
2	2.9 / 5.0	48%	NA	0.3-5 Brown to olive brown m coarse sand, trace coarse sand to fine gravel, PG, moist, m dense, NP.	Fill (SP)	0.2		
3								
4						0.1		
5						<0.1		
6				5-7 Lt orange brown coarse sand and fine gravel, PG, damp, Dense, NP	SP	<0.1		
7	2.7 / 5.0	54%	NA	7-10. Orange brown fine to m coarse sand, PG, damp, m dense, NP-		0.1		
8					SP	0.2		
9								
10						0.1		

S1 @ 1700

S2 @ 1706

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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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SOIL BORING LOG

Project NUIA		Boring/Well No. DP-5	Project No. 3612092127
Client NYSDEC	Site 29 New York, Ave		Sheet No. 2 of 3
Logged By B Shaw	Ground Elevation	Start Date 05-19-10	Finish Date 05-19-2010
Drilling Contractor Aztech	Driller's Name Bob Gannon		Rig Type Truck mounted
Drilling Method Direct push	Protection Level D	P.I.D. (eV) 10.6	Casing Size / Auger Size ~2 1/2"
Soil Drilled ~25'	Rock Drilled /	Total Depth ~25'	Depth to Groundwater/Date — Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests ID Sample
10								
11				10-12 Brown m coarse sand, PG, m Dense moist, v. strong odor, NP	SP	0.2 / 2.8	1m	⊛
12	4.0 / 5.0	80%	NA	12-15 Lt yellow brown coarse sand, fine sand to fine gravel, PG, Dense, NP. dump; ⊛ collected soil sample @ DP-5 @ 11' bgs 132043V-DP5-11 @ 1725 -3 VOA, 2. moisture	SP	1.00 / 0.4 / 0.2		
15								
16				15-20 (cr. little recovery). olive brown m coarse sand, fine sand to coarse sand, PG, m Dense, damp/moist, trace fines, SP.	SP-SM	0.6 / 1.9		
17	1.3 / 5.0	26%	NA					
18						2.2		
19				⊛ potential hg moisture				
20						6.0 @		

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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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SOIL BORING LOG

Project: NUA		Boring/Well No.: DP-5	Project No.: 3612092127
Client: NYSDEC	Site: Westbury, NY, 29 New Hyde		Sheet No.: 3 of 3
Logged By: B Shaw	Ground Elevation: —	Start Date: 05-19-10	Finish Date: 05-19-10
Drilling Contractor: Aztech	Driller's Name: Bob Gannon		Rig Type: Truck Mounted
Drilling Method: Direct push	Protection Level: D	P.I.D. (eV): 10.6	Casing Size: — / Auger Size: 2 1/2"
Soil Drilled: 25'	Rock Drilled: —	Total Depth: 25'	Depth to Groundwater/Date: —

Piez ☐ Well ☐ Boring ☑

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm) PI Meter Field Scan	Monitoring (ppm) PI Meter Head Space	Lab Tests ID Sample
20								
21				20-25 reddish/orange brown, coarse sand, little coarse rounded sand, PG, damp, Dense, NP.		0.2	ppm	
22	3.1/5.0	62%	NA		SP	0.1		
23						0.1		
24								
25						0.1		

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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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Please TAKE THIS for your PROJECT FILE!

This helps document measurement quality and manage risks.

FIELD INSTRUMENTATION CALIBRATION RECORD

PROJECT: NYIA - direct push event DATE: 05-19-2010 0715

PROJECT NUMBER: 36/692127 CALIBRATED BY: BAS

MULTI-PARAMETER WATER QUALITY MONINTORING SYSTEM:

MODEL: Horiba-U22 Horiba-U10

UNIT ID NUMBER: M015-_____ M014-_____

	pH	Conductivity	DO	Temperature
	Units	mS/cm	mg/L *	deg. C
CONCENTRATION	4.00	4.49		
RESULTS				
ACCEPTABLE CRITERIA	+/- 10% of standard	+/- 10% of standard	+/- 10% of standard	+/- 2.0 deg. C

Auto Calibration Fluids: Auto Cal Solution

Standard Source: Lot Number:_____ Expiration Date:_____

TURBIDITY METER TYPE:

MODEL: HACH2100P Lamotte 2020

UNIT ID NUMBER: M024-_____

STANDARD VALUE	< 0.01 NTU (low)	800 NTU (high)
METER VALUE	_____ NTU	_____ NTU
ACCEPTABLE CRITERIA	within 0.3 NTU of standard	+/- 10% of standard

PHOTO IONIZATION DEVICE:

MODEL: thermo 580B Mini RAE 2000

UNIT ID NUMBER: M001- NYSDEC 1

CALIBRATION GAS LOT NUMBER: 010379

	Background Zero Air	Span Gas
BACKGROUND	0 ppmv	100 ppmv
METER VALUE	0.1 ppmv	105.7 ppmv
ACCEPTABLE CRITERIA	within 5 ppmv of 0	+/- 10% of standard

O2-LEL

MODEL: V-REA

UNIT ID NUMBER: M012-_____

CALIBRATION GAS LOT NUMBER:_____

GAS USED	METHANE	OXYGEN	H2S	CO
CONCENTRATION	50%	20.90%	25 ppm	50 ppm
RESULTS				

APPENDIX E

DATA USABILITY SUMMARY REPORTS AND ANALYTICAL DATA

DATA USABILITY SUMMARY REPORT
FEBRUARY 2010 AIR SAMPLING
NEW CASSEL INDUSTRIAL AREA
WESTBURY, NEW YORK

1.0 INTRODUCTION

Thirty-four air samples were collected at the New Cassel Industrial Area in Westbury, New York in February 2010 and submitted for off-site laboratory analysis. Samples were analyzed by Centek Laboratories located in Syracuse, New York. Results were reported in the following Sample Delivery Groups (SDGs): C1002059 and C1002060.

A listing of samples included in this Data Usability Summary Report is presented in Table 1. A summary of the analytical results is presented in Table 2. Samples were analyzed by the following method:

- Volatile organic compounds (VOCs) by USEPA Method TO-15

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

A project chemist review was completed based on NYSDEC Division of Environmental Remediation guidance for Data Usability Summary Reports (NYSDEC, 2002). Laboratory QC limits were used during the data evaluation unless noted otherwise. The project chemist review included evaluations of sample collection, data package completeness, holding times, QC data (blanks, instrument calibrations, duplicates, surrogate recovery, and spike recovery), data transcription, electronic data reporting, calculations, and data qualification. The following laboratory or data validation qualifiers are used in the final data presentation.

U = target analyte is not detected at the reported detection limit
J = concentration is estimated
UJ = target analyte is not detected at the reported detection limit and is estimated
EJ = concentration is above the calibration range and is estimated

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

2.0 VOLATILE ORGANIC COMPOUNDS (VOCS)

<u>VOC - Initial and Continuing Calibration</u>

SDG C1002059

For the continuing calibration (analyzed February 28, 2010) associated with a subset of samples, the percent difference between the initial calibration average relative response factor (RRF) and the continuing calibration RRF was greater than 30 for benzyl chloride (-46). Benzyl chloride

was not detected in the associated samples, and quantitation limits were qualified as estimated (UJ) in samples 130043B-IA-01, 130043B-IA-02, and 130043A-SS-01.

SDG C1002060

For the continuing calibration (analyzed March 1, 2010) associated with all samples, the percent difference between the initial calibration average relative response factor (RRF) and the continuing calibration RRF was greater than 30 for benzyl chloride (-59). Benzyl chloride was not detected in the associated samples, and quantitation limits were qualified as estimated (UJ) in all samples of SDG C1002060.

VOC - Surrogates

SDG C1002059

Percent recovery for the surrogate bromofluorobenzene (136) in sample 130043F-IA-02 was above the control limits of 70-130 percent, indicating a potential high bias. Positive detections of all target compounds reported in sample 130043F-IA-02 were qualified as estimated (J) and may represent potential high biases.

VOC - Internal Standards

SDG C1002059

One or more internal standard areas were outside control limits in the initial undiluted analyses and/or subsequent diluted analyses of the following samples:

130043A-IA-01	130043F-IA-02
130043A-IA-02	130043V-IA-01
130043B-IA-01	130043V-22-02D
130043B-IA-02	130043V-IA-02
130043F-IA-01	130043A-SS-01

Positive and non-detected results associated with these internal standards were qualified as estimated (J/UJ).

SDG C1002060

One or more internal standard areas were outside control limits in the initial undiluted analyses and/or subsequent diluted analyses of the following samples:

130043B-SS-02	130043K-SS-03
130043B-SS-03	130043N-SS-01
130043F-SS-02	130043N-SS-02
130043K-SS-01	130043V-SS-02

Positive and non-detected results associated with these internal standards were qualified as estimated (J/UJ).

VOC – Laboratory Control Samples

SDG C1002 059

Percent recoveries for bromodichloromethane (133) and carbon tetrachloride (142) were above the LCS control limits of 70-130 percent in the LCS (analyzed February 27, 2010). Positive detections of bromodichloromethane and carbon tetrachloride in associated samples were qualified as estimated (J).

Percent recoveries for 1,3,5-trimethylbenzene (65) and tetrachloroethene (201) were outside the control limits in the LCS (analyzed February 28, 2010) . In addition, the relative percent difference (RPD) between LCS and LCS duplicate recoveries for tetrachloroethene (49) was above the control limit of 30. Positive and non-detected results for 1,3,5-trimethylbenzene and tetrachloroethene were qualified as estimated (J/UJ) in associated samples.

SDG C1002060

Percent recovery for tetrachloroethene (201) was above the control limits in the LCS (analyzed February 28, 2010) associated with sample 130043F-SS-02. In addition, the relative percent difference (RPD) between LCS and LCS duplicate recoveries for tetrachloroethene (49) was above the control limit of 30. The positive detection of tetrachloroethene in associated sample 130043F-SS-02 was qualified as estimated (J).

Percent recoveries of 1,2,4-trimethylbenzene (65), 1,3,5-trimethylbenzene (68), 2-propanol (60), methyl tert-butyl ether (46), tetrahydrofuran (62), and vinyl acetate (63) were below the control limits in the LCS (analyzed March 1, 2010). Positive and non-detected results for these analytes were qualified as estimated (J/UJ) in associated samples.

VOC – Field Duplicates

A single field duplicate was collected from soil vapor location 130043V-SS-02. As discussed below, relatively large differences were observed between the original sample and the field duplicate indicating that low precision of measurement may have been obtained for the soil vapor samples. A detailed review of laboratory data and field collection records identified no sample identification or data reporting errors. The canister pressure for both samples had gone to <1 “Hg at the end of sample collection. This may have impacted the results reported from these canisters. Based on professional judgment, only results for the original sample 130043V-SS-02 and the associated field duplicate were qualified. However, the data user should consider all soil vapor results as potentially estimated due to uncertainties regarding sampling and/or analytical precision.

SDG C1002059 and C1002060

Relative percent differences (RPDs) between field duplicate results for sample 130043V-SS-02 (SDG C1002060) and field duplicate 130043V-SS-02D (SDG C1002059) were above the limit of 100 for a subset of target analytes. Duplicate pair results that are above the RPD limit and validation qualification actions are summarized below:

Analyte	Sample Conc (ug/m3)	Field Dup Conc (ug/m3)	RPD	Qualifier
1,1,1-Trichloroethane	290	3800	172	J
1,1-Dichloroethane	8.2	79	162	J
1,1-Dichloroethene	25	780	188	J
1,4-Dioxane	ND	27	184	J/UJ
2-Propanol	ND	21	193	J/UJ
4-Methyl-2-pentanone	31	1000	188	J
Heptane	9.7	3.1	103	J
Trichloroethene	5.8	43	153	J
o-Xylene	80	360	127	J

ND = Non-detected

VOC - Sample Quantitation

SDG C1002059 and C1002060

The laboratory qualified a subset of results with 'E' to indicate the reported concentrations were above the calibration range. During data validation, 'E' qualifiers were changed to 'EJ' qualifiers to indicate the results are above the calibration range and are considered estimated.

VOC - Sample Reporting

Two laboratory control sample summaries were missing from the data package originally submitted to MACTEC. The laboratory was contacted and the missing LCS summaries were received on April 21, 2010.

Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

New York State Department of Environmental Conservation (NYSDEC), 2002. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; Draft DER-10; Division of Environmental Remediation; December 2002.

USEPA Region 2, 2006. "Validating Volatile Organic Analysis of Ambient Air in Canisters by Method TO-15"; SOP # HW-31, Revision 4, Hazardous Waste Support Branch; October 2006.

Data Validator: Julie Ricardi
Date: 04/22/2010 CR for Julie Ricardi

Reviewed by Chris Ricardi, NRCC-EAC
Quality Assurance Officer

Chris Ricardi

Date: 7/26/2010

TABLE 1 – SAMPLE SUMMARY
DATA USABILITY SUMMARY REPORT
FEBRUARY 2010 AIR SAMPLING
NEW CASSEL INDUSTRIAL AREA
WESTBURY, NEW YORK

					Class	VOC
					Method	TO-15
					Fraction	T
SDG	Media	Location	Sample ID	Sample Date	QC Code	
C1002059	Air	A-AA-1	130043-AA-01	2/15/2010	FS	X
C1002059	Air	A-IA-01	130043A-IA-01	2/15/2010	FS	X
C1002059	Air	A-IA-02	130043A-IA-02	2/15/2010	FS	X
C1002059	Air	B-IA-01	130043B-IA-01	2/16/2010	FS	X
C1002059	Air	B-IA-02	130043B-IA-02	2/16/2010	FS	X
C1002059	Air	F-IA-01	130043F-IA-01	2/16/2010	FS	X
C1002059	Air	F-IA-02	130043F-IA-02	2/16/2010	FS	X
C1002059	Air	K-IA-01	130043K-IA-01	2/16/2010	FS	X
C1002059	Air	K-IA-02	130043K-IA-02	2/16/2010	FS	X
C1002059	Air	N-AA-2	130043-AA-02	2/16/2010	FS	X
C1002059	Air	N-IA-01	130043N-IA-01	2/16/2010	FS	X
C1002059	Air	N-IA-02	130043N-IA-02	2/16/2010	FS	X
C1002059	Air	V-AA-1	130043V-AA-01	2/18/2010	FS	X
C1002059	Air	V-IA-01	130043V-IA-01	2/18/2010	FS	X
C1002059	Air	V-IA-02	130043V-IA-02	2/18/2010	FS	X
C1002059	Air	V-SS-02	130043V-SS-02D	2/18/2010	FD	X
C1002059	SV	A-SS-01	130043A-SS-01	2/15/2010	FS	X
C1002060	SV	A-SS-02	130043A-SS-02	2/15/2010	FS	X
C1002060	SV	A-SS-03	130043A-SS-03	2/15/2010	FS	X
C1002060	SV	B-SS-01	130043B-SS-01	2/16/2010	FS	X
C1002060	SV	B-SS-02	130043B-SS-02	2/16/2010	FS	X
C1002060	SV	B-SS-03	130043B-SS-03	2/16/2010	FS	X
C1002060	SV	F-SS-01	130043F-SS-01	2/16/2010	FS	X
C1002060	SV	F-SS-02	130043F-SS-02	2/16/2010	FS	X
C1002060	SV	F-SS-03	130043F-SS-03	2/16/2010	FS	X
C1002060	SV	K-SS-01	130043K-SS-01	2/16/2010	FS	X
C1002060	SV	K-SS-02	130043K-SS-02	2/16/2010	FS	X
C1002060	SV	K-SS-03	130043K-SS-03	2/16/2010	FS	X
C1002060	SV	N-SS-01	130043N-SS-01	2/16/2010	FS	X
C1002060	SV	N-SS-02	130043N-SS-02	2/16/2010	FS	X
C1002060	SV	N-SS-03	130043N-SS-03	2/16/2010	FS	X
C1002060	SV	V-SS-01	130043V-SS-01	2/18/2010	FS	X
C1002060	SV	V-SS-02	130043V-SS-02	2/18/2010	FS	X
C1002060	SV	V-SS-03	130043V-SS-03	2/18/2010	FS	X

Notes:
QC Code: FS = Field Sample
Media: SV = Soil Vapor
Sample ID: IA = Indoor Air, AA = Ambient Air, SS = Sub-slab
Fraction: T = Total

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
FEBRUARY 2010 AIR SAMPLING
NEW CASSEL INDUSTRIAL AREA
WESTBURY, NEW YORK

		Sample Delivery Group	C1002059		C1002059		C1002059		C1002059		C1002059		C1002059		C1002059		C1002059	
		Location	A-AA-1		N-AA-2		V-AA-1		A-IA-01		A-IA-02		B-IA-01		B-IA-02		F-IA-01	
		Sample Date	2/15/2010		2/16/2010		2/18/2010		2/15/2010		2/15/2010		2/16/2010		2/16/2010		2/16/2010	
		Sample ID	130043-AA-01		130043-AA-02		130043V-AA-01		130043A-IA-01		130043A-IA-02		130043B-IA-01		130043B-IA-02		130043F-IA-01	
		QC Code	FS		FS		FS		FS		FS		FS		FS		FS	
Analysis	Param Name	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
TO15	1,1,1-Trichloroethane	ug/m3	0.83	U	0.83	U	0.83	U	0.83	UJ	0.83	UJ	0.83	U	0.83	U	0.83	U
TO15	1,1,2,2-Tetrachloroethane	ug/m3	1	U	1	U	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
TO15	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	1.2	U	1.2	U	1.2	U	1.2	U	1.8		1.2	U	1.2	U	1.2	U
TO15	1,1,2-Trichloroethane	ug/m3	0.83	U	0.83	U	0.83	U	0.83	UJ	0.83	UJ	0.83	U	0.83	U	0.83	U
TO15	1,1-Dichloroethane	ug/m3	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U
TO15	1,1-Dichloroethene	ug/m3	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
TO15	1,2,4-Trichlorobenzene	ug/m3	1.1	U	1.1	U	1.1	U	1.1	UJ	1.1	UJ	1.1	UJ	1.1	UJ	1.1	UJ
TO15	1,2,4-Trimethylbenzene	ug/m3	2		0.75	U	0.75	U	19	J	7	J	0.8	J	1.4	J	7.4	J
TO15	1,2-Dibromoethane	ug/m3	1.2	U	1.2	U	1.2	U	1.2	UJ	1.2	UJ	1.2	UJ	1.2	UJ	1.2	UJ
TO15	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
TO15	1,2-Dichlorobenzene	ug/m3	0.92	U	0.92	U	0.92	U	0.92	UJ	0.92	UJ	0.92	UJ	0.92	UJ	0.92	UJ
TO15	1,2-Dichloroethane	ug/m3	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U
TO15	1,2-Dichloropropane	ug/m3	0.7	U	0.7	U	0.7	U	0.7	UJ	0.7	UJ	0.7	U	0.7	U	0.7	U
TO15	1,3,5-Trimethylbenzene	ug/m3	1.2		0.75	U	0.75	U	4.6	J	7.3	J	0.75	UJ	0.5	J	1.6	J
TO15	1,3-Butadiene	ug/m3	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
TO15	1,3-Dichlorobenzene	ug/m3	0.92	U	0.92	U	0.92	U	0.92	UJ	0.92	UJ	0.92	UJ	0.92	UJ	0.92	UJ
TO15	1,4-Dichlorobenzene	ug/m3	0.92	U	0.92	U	0.92	U	0.92	UJ	0.92	UJ	0.92	UJ	0.92	UJ	0.92	UJ
TO15	1,4-Dioxane	ug/m3	1.1	U	1.1	U	1.1	U	1.1	UJ	1.1	UJ	1.1	U	1.1	U	1.1	U
TO15	2-Butanone	ug/m3	0.9	U	0.78	J	1.1		0.9	U	5.2		1.5		0.9	U	8.3	
TO15	2-Hexanone	ug/m3	1.2	U	1.2	U	1.2	U	1.2	UJ	1.2	UJ	1.2	UJ	1.2	UJ	1.2	UJ
TO15	2-Propanol	ug/m3	0.37	U	2.1		6.2	EJ	120		0.37	U	38		110		5.5	
TO15	4-Ethyltoluene	ug/m3	1.3		0.75	U	0.75	U	7.8	J	13	J	0.5	J	1	J	3.4	J
TO15	4-Methyl-2-pentanone	ug/m3	1.2	U	1.2	U	1.2	U	3.4	J	3.2	J	1.2	UJ	1.2	UJ	2	J
TO15	Acetone	ug/m3	44		12	EJ	17	EJ	39		49		180		360		24	EJ
TO15	Allyl chloride	ug/m3	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U
TO15	Benzene	ug/m3	1.3		0.75		0.88		8.4	J	11		1.3		2.1		1.4	
TO15	Benzyl chloride	ug/m3	0.88	U	0.88	U	0.88	U	0.88	UJ	0.88	UJ	0.88	UJ	0.88	UJ	0.88	UJ
TO15	Bromodichloromethane	ug/m3	1	U	1	U	1	U	1	UJ	3.7	J	1	U	1	U	1	U
TO15	Bromoform	ug/m3	1.6	U	1.6	U	1.6	U	1.6	UJ	1.6	UJ	1.6	UJ	1.6	UJ	1.6	UJ
TO15	Bromomethane	ug/m3	0.59	U	0.59	U	0.59	U	0.59	U	0.59	U	0.59	U	0.59	U	0.59	U
TO15	Carbon disulfide	ug/m3	0.41	J	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U
TO15	Carbon tetrachloride	ug/m3	0.58	J	0.58	J	0.58	J	0.45	J	0.51	J	0.26	U	0.26	U	0.51	J
TO15	Chlorobenzene	ug/m3	0.7	U	0.7	U	0.7	U	0.7	UJ	0.7	UJ	0.7	UJ	0.7	UJ	0.7	UJ
TO15	Chlorodibromomethane	ug/m3	1.3	U	1.3	U	1.3	U	1.3	UJ	1.3	UJ	1.3	UJ	1.3	UJ	1.3	UJ
TO15	Chloroethane	ug/m3	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
TO15	Chloroform	ug/m3	1.2		0.74	U	0.74	U	1.1		88		0.74	U	0.74	U	0.74	U
TO15	Chloromethane	ug/m3	0.69		0.78		0.8		0.99		1.5		0.73		0.59		0.86	
TO15	Cis-1,2-Dichloroethene	ug/m3	0.6	U	0.6	U	0.6	U	1.6		0.6	U	0.6	U	0.6	U	0.6	U
TO15	cis-1,3-Dichloropropene	ug/m3	0.69	U	0.69	U	0.69	U	0.69	UJ	0.69	UJ	0.69	U	0.69	U	0.69	U
TO15	Cyclohexane	ug/m3	12		0.52	U	0.52	U	14		18		0.52	U	3.3		0.52	U
TO15	Dichlorodifluoromethane	ug/m3	2.2		2.3		2.5		2.4		2.3		2		2		2.3	
TO15	Ethyl acetate	ug/m3	11	J	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	1.4		0.92	U
TO15	Ethyl benzene	ug/m3	11		0.66	U	0.49	J	12	J	11	J	1300	EJ	2300	EJ	7.3	J
TO15	Heptane	ug/m3	1.7		0.62	U	0.62	U	13		27		1.2		2.5		1.7	
TO15	Hexachlorobutadiene	ug/m3	1.6	U	1.6	U	1.6	U	1.6	UJ	1.6	UJ	1.6	UJ	1.6	UJ	1.6	UJ
TO15	Hexane	ug/m3	6.6		0.54	U	0.54	U	21		29		2.1		4.9		0.54	U
TO15	Isooctane	ug/m3	0.62	J	0.71	U	0.71	U	16		11		1.1		2.2		0.71	U
TO15	Methyl Tertbutyl Ether	ug/m3	0.55	U	0.55	U	0.55	U	0.55	U	0.55	U	0.55	U	0.55	U	0.55	U
TO15	Methylene chloride	ug/m3	1.3		0.53	U	1.3		3.5		1.2		0.42	J	0.42	J	0.42	J

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
FEBRUARY 2010 AIR SAMPLING
NEW CASSEL INDUSTRIAL AREA
WESTBURY, NEW YORK

		Sample Delivery Group	C1002059		C1002059		C1002059		C1002059		C1002059		C1002059		C1002059		C1002059	
		Location	A-AA-1		N-AA-2		V-AA-1		A-IA-01		A-IA-02		B-IA-01		B-IA-02		F-IA-01	
		Sample Date	2/15/2010		2/16/2010		2/18/2010		2/15/2010		2/15/2010		2/16/2010		2/16/2010		2/16/2010	
		Sample ID	130043-AA-01		130043-AA-02		130043V-AA-01		130043A-IA-01		130043A-IA-02		130043B-IA-01		130043B-IA-02		130043F-IA-01	
		QC Code	FS		FS		FS		FS		FS		FS		FS		FS	
Analysis	**Param Name**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
TO15	Propylene	ug/m3	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
TO15	Styrene	ug/m3	1.7		0.65	U	0.65	U	0.65	UJ	0.65	UJ	0.65	UJ	0.65	UJ	0.65	UJ
TO15	Tetrachloroethene	ug/m3	4.6		1.1		4.1		74	J	220	J	1.9	J	1.6	J	1.7	J
TO15	Tetrahydrofuran	ug/m3	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U
TO15	Toluene	ug/m3	57		2.3		3.7		41		47		600		1300	EJ	7.2	J
TO15	trans-1,2-Dichloroethene	ug/m3	0.69		0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
TO15	trans-1,3-Dichloropropene	ug/m3	0.69	U	0.69	U	0.69	U	0.69	UJ	0.69	UJ	0.69	U	0.69	U	0.69	U
TO15	Trichloroethene	ug/m3	2.1		0.22	U	0.22	U	5.6	J	1.6	J	27		28		3.2	
TO15	Trichlorofluoromethane	ug/m3	1.1		1		1.2		1.1		1		0.97		0.97		1.2	
TO15	Vinyl acetate	ug/m3	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U
TO15	Vinyl bromide	ug/m3	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U
TO15	Vinyl chloride	ug/m3	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
TO15	Xylene, m/p	ug/m3	11	J	1.3	U	1.2	J	16	J	35	J	4600	EJ	6900	EJ	5.5	J
TO15	Xylene, o	ug/m3	6.3		0.66	U	0.66	U	13	J	10	J	430		900	J	2.6	J

NOTES:
QC Code: FS = Field Sample, FD = Field Duplicate
Qualifiers: U = Non-detected, UJ = Non-detected estimated, J = Estimated,
EJ = Estimated; concentration is above the linear range of calibration
Units: ug/m3 = Micrograms per cubic meter

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
FEBRUARY 2010 AIR SAMPLING
NEW CASSEL INDUSTRIAL AREA
WESTBURY, NEW YORK

	Sample Delivery Group	C1002059		C1002059		C1002059		C1002059		C1002059		C1002059		C1002059		C1002059	
	Location	F-IA-02		K-IA-01		K-IA-02		N-IA-01		N-IA-02		V-IA-01		V-SS-02		V-IA-02	
	Sample Date	2/16/2010		2/16/2010		2/16/2010		2/16/2010		2/16/2010		2/18/2010		2/18/2010		2/18/2010	
	Sample ID	130043F-IA-02		130043K-IA-01		130043K-IA-02		130043N-IA-01		130043N-IA-02		130043V-IA-01		130043V-SS-02D		130043V-IA-02	
	QC Code	FS		FS		FS		FS		FS		FS		FD		FS	
Analysis	Param Name	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
TO15	1,1,1-Trichloroethane	ug/m3	0.83	UJ	0.83	U	0.83	U	1.2		1.2		4.2	J	290	J	4.7	J
TO15	1,1,2,2-Tetrachloroethane	ug/m3	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	UJ
TO15	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	0.93	J	1.2	U
TO15	1,1,2-Trichloroethane	ug/m3	0.83	UJ	0.83	U	0.83	U	0.83	U	0.83	U	0.83	UJ	0.83	UJ	0.83	UJ
TO15	1,1-Dichloroethane	ug/m3	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U	1.5		8.2	J	1.6	
TO15	1,1-Dichloroethene	ug/m3	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	25	J	0.6	U
TO15	1,2,4-Trichlorobenzene	ug/m3	1.1	UJ	1.1	U	1.1	U	1.1	U	1.1	U	1.1	UJ	1.1	UJ	1.1	UJ
TO15	1,2,4-Trimethylbenzene	ug/m3	2.7	J	1.3		1.8		1		0.75	U	1	J	2.7	J	1.3	J
TO15	1,2-Dibromoethane	ug/m3	1.2	UJ	1.2	U	1.2	U	1.2	U	1.2	U	1.2	UJ	1.2	UJ	1.2	UJ
TO15	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
TO15	1,2-Dichlorobenzene	ug/m3	0.92	UJ	0.92	U	0.92	U	0.92	U	0.92	U	0.92	UJ	0.92	UJ	0.92	UJ
TO15	1,2-Dichloroethane	ug/m3	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U
TO15	1,2-Dichloropropane	ug/m3	0.7	UJ	0.7	U	0.7	U	0.7	U	0.7	U	0.7	UJ	0.7	UJ	0.7	UJ
TO15	1,3,5-Trimethylbenzene	ug/m3	1.2	J	0.75	U	0.55	J	0.75	U	0.75	U	0.75	UJ	1.3	J	0.75	UJ
TO15	1,3-Butadiene	ug/m3	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
TO15	1,3-Dichlorobenzene	ug/m3	0.92	UJ	0.92	U	0.92	U	0.92	U	0.92	U	0.92	UJ	0.92	UJ	0.92	UJ
TO15	1,4-Dichlorobenzene	ug/m3	0.92	UJ	0.92	U	0.92	U	0.92	U	0.92	U	1.8	J	1.7	J	1.6	J
TO15	1,4-Dioxane	ug/m3	1.1	UJ	1.1	U	1.1	U	1.1	U	1.1	U	1.1	UJ	1.1	UJ	1.1	UJ
TO15	2-Butanone	ug/m3	0.9	U	4.1		2.3		1.6		0.78	J	4.9		4.5		4.4	
TO15	2-Hexanone	ug/m3	1.2	UJ	1.2	U	1.2	U	1.2	U	1.2	U	1.2	UJ	1.2	UJ	1.2	UJ
TO15	2-Propanol	ug/m3	0.37	U	58	EJ	51	EJ	2		2		28		0.37	UJ	0.37	U
TO15	4-Ethyltoluene	ug/m3	1.7	J	0.75	U	0.8		0.75	U	0.75	U	0.55	J	1.6	J	0.55	J
TO15	4-Methyl-2-pentanone	ug/m3	1.6	J	1.2	U	1.2	U	1.2	U	1.2	U	2.6	J	31	J	3.6	J
TO15	Acetone	ug/m3	24	EJ	29	EJ	74	EJ	14	EJ	12	EJ	140		170		280	
TO15	Allyl chloride	ug/m3	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U
TO15	Benzene	ug/m3	1.6	J	1.2		1.8		0.81		0.78		1.3	J	1.6	J	1.3	J
TO15	Benzyl chloride	ug/m3	0.88	UJ	0.88	U	0.88	U	0.88	U	0.88	U	0.88	UJ	0.88	UJ	0.88	UJ
TO15	Bromodichloromethane	ug/m3	1	UJ	1	U	1	U	1	U	1	U	1	UJ	1	UJ	1	UJ
TO15	Bromoform	ug/m3	1.6	UJ	1.6	U	1.6	U	1.6	U	1.6	U	1.6	UJ	1.6	UJ	1.6	UJ
TO15	Bromomethane	ug/m3	0.59	U	0.59	U	0.59	U	0.59	U	0.59	U	0.59	U	0.59	U	0.59	U
TO15	Carbon disulfide	ug/m3	0.6	J	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U	0.98		0.47	U
TO15	Carbon tetrachloride	ug/m3	0.45	J	0.51	J	0.51	J	0.58	J	0.7	J	0.51	J	0.96	UJ	0.51	J
TO15	Chlorobenzene	ug/m3	0.7	UJ	0.7	U	0.7	U	0.7	U	0.7	U	0.7	UJ	0.51	J	0.47	J
TO15	Chlorodibromomethane	ug/m3	1.3	UJ	1.3	U	1.3	U	1.3	U	1.3	U	1.3	UJ	1.3	UJ	1.3	UJ
TO15	Chloroethane	ug/m3	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
TO15	Chloroform	ug/m3	0.74	U	0.74	U	0.74	U	0.74	U	0.74	U	0.74	U	0.74	U	0.74	U
TO15	Chloromethane	ug/m3	0.76	J	0.86		0.8		1		0.78		1.4		0.31	U	1.1	
TO15	Cis-1,2-Dichloroethene	ug/m3	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
TO15	cis-1,3-Dichloropropene	ug/m3	0.69	UJ	0.69	U	0.69	U	0.69	U	0.69	U	0.69	UJ	0.69	UJ	0.69	UJ
TO15	Cyclohexane	ug/m3	36	J	0.52	U	0.52	U	0.52	U	0.52	U	0.52	UJ	0.52	UJ	0.52	UJ
TO15	Dichlorodifluoromethane	ug/m3	2.2	J	2.4		2.3		2.3		2.3		3		0.75	U	3.2	
TO15	Ethyl acetate	ug/m3	26	EJ	0.92	U	0.92	U	0.92	U	0.92	U	3.5		2.3		3.5	
TO15	Ethyl benzene	ug/m3	3.8	J	1.1		2.1		0.66	U	0.66	U	41		68		59	
TO15	Heptane	ug/m3	3.1	J	1.9		1.2		0.62	U	0.62	U	9.2	J	9.7	J	8.7	
TO15	Hexachlorobutadiene	ug/m3	1.6	UJ	1.6	U	1.6	U	1.6	U	1.6	U	1.6	UJ	1.6	UJ	1.6	UJ
TO15	Hexane	ug/m3	16	EJ	0.54	U	0.54	U	0.54	U	0.54	U	6.4		10		5.4	
TO15	Isooctane	ug/m3	0.57	J	0.71	U	1.1		0.71	U	0.71	U	0.71	UJ	0.71	UJ	0.71	UJ
TO15	Methyl Tertbutyl Ether	ug/m3	0.55	U	0.55	U	0.55	U	0.55	U	0.55	U	0.55	U	0.55	U	0.55	U
TO15	Methylene chloride	ug/m3	1.6	J	0.46	J	0.39	J	0.53	U	0.39	J	1.5		1.6		1.7	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
FEBRUARY 2010 AIR SAMPLING
NEW CASSEL INDUSTRIAL AREA
WESTBURY, NEW YORK

		Sample Delivery Group	C1002059		C1002059		C1002059		C1002059		C1002059		C1002059		C1002059		C1002059	
		Location	F-IA-02		K-IA-01		K-IA-02		N-IA-01		N-IA-02		V-IA-01		V-SS-02		V-IA-02	
		Sample Date	2/16/2010		2/16/2010		2/16/2010		2/16/2010		2/16/2010		2/18/2010		2/18/2010		2/18/2010	
		Sample ID	130043F-IA-02		130043K-IA-01		130043K-IA-02		130043N-IA-01		130043N-IA-02		130043V-IA-01		130043V-SS-02D		130043V-IA-02	
		QC Code	FS		FS		FS		FS		FS		FS		FD		FS	
Analysis	Param Name	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
TO15	Propylene	ug/m3	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
TO15	Styrene	ug/m3	1.3	J	0.48	J	1.4		0.65	U	0.65	U	0.65	UJ	0.65	UJ	0.65	UJ
TO15	Tetrachloroethene	ug/m3	1.9	J	1.7		5.4		1.6		1		610		1500		1600	J
TO15	Tetrahydrofuran	ug/m3	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U	0.45	U
TO15	Toluene	ug/m3	71	EJ	12	EJ	18	EJ	1.5		1.4		59		110		68	
TO15	trans-1,2-Dichloroethene	ug/m3	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
TO15	trans-1,3-Dichloropropene	ug/m3	0.69	UJ	0.69	U	0.69	U	0.69	U	0.69	U	0.69	UJ	0.69	UJ	0.69	UJ
TO15	Trichloroethene	ug/m3	1.8	J	0.87		0.6		0.22	U	0.33		2.5	J	5.8	J	2.5	J
TO15	Trichlorofluoromethane	ug/m3	1	J	1.1		1.7		0.97		1.1		4.2		6.7		4.6	
TO15	Vinyl acetate	ug/m3	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U
TO15	Vinyl bromide	ug/m3	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U
TO15	Vinyl chloride	ug/m3	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.39	U	0.1	U
TO15	Xylene, m/p	ug/m3	9.7	J	3.3		7.1		0.79	J	0.66	J	83	J	250		290	
TO15	Xylene, o	ug/m3	2.7	J	1.1		2.2		0.66	U	0.66	U	27		80	J	38	

NOTES:
QC Code: FS = Field Sample, FD = Field Duplicate
Qualifiers: U = Non-detected, UJ = Non-detected estimated, J = Estimated,
EJ = Estimated; concentration is above the linear range of calibratic
Units: ug/m3 = Micrograms per cubic meter

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
FEBRUARY 2010 AIR SAMPLING
NEW CASSEL INDUSTRIAL AREA
WESTBURY, NEW YORK

		Sample Delivery Group	C1002059		C1002060		C1002060		C1002060		C1002060		C1002060		C1002060	
		Location	A-SS-01		A-SS-02		A-SS-03		B-SS-01		B-SS-02		B-SS-03		F-SS-01	
		Sample Date	2/15/2010		2/15/2010		2/15/2010		2/16/2010		2/16/2010		2/16/2010		2/16/2010	
		Sample ID	130043A-SS-01		130043A-SS-02		130043A-SS-03		130043B-SS-01		130043B-SS-02		130043B-SS-03		130043F-SS-01	
		QC Code	FS		FS		FS		FS		FS		FS		FS	
Analysis	Param Name	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
TO15	1,1,1-Trichloroethane	ug/m3	240		2.8		95		180	EJ	240		160	EJ	60	
TO15	1,1,2,2-Tetrachloroethane	ug/m3	1	UJ	1	U	1	U	1	U	1	UJ	1	UJ	1	U
TO15	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	11		2.3		470	EJ	35		3.2		44		1.2	U
TO15	1,1,2-Trichloroethane	ug/m3	1.9	J	0.83	U	0.83	U	0.83	U	3.8		1.1		0.83	U
TO15	1,1-Dichloroethane	ug/m3	19		0.62	U	0.62	U	56		3.5		22		0.62	U
TO15	1,1-Dichloroethene	ug/m3	0.6	U	0.6	U	0.6	U	0.6	U	2.5		0.6	U	0.6	U
TO15	1,2,4-Trichlorobenzene	ug/m3	1.1	UJ	1.1	U	1.1	U	1.1	U	1.1	UJ	1.1	UJ	1.1	U
TO15	1,2,4-Trimethylbenzene	ug/m3	2.9	J	1.3	J	6.7	J	1.8	J	40	J	3.1	J	1	J
TO15	1,2-Dibromoethane	ug/m3	1.2	UJ	1.2	U	1.2	U	1.2	U	1.2	UJ	1.2	UJ	1.2	U
TO15	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
TO15	1,2-Dichlorobenzene	ug/m3	0.92	UJ	0.92	U	0.92	U	0.92	U	0.92	UJ	0.92	UJ	0.92	U
TO15	1,2-Dichloroethane	ug/m3	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U
TO15	1,2-Dichloropropane	ug/m3	0.7	UJ	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U
TO15	1,3,5-Trimethylbenzene	ug/m3	0.9	J	0.75	UJ	2.3	J	0.75	UJ	12	J	0.75	J	0.75	UJ
TO15	1,3-Butadiene	ug/m3	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
TO15	1,3-Dichlorobenzene	ug/m3	0.92	UJ	0.92	U	0.92	U	0.92	U	0.92	UJ	0.92	UJ	0.92	U
TO15	1,4-Dichlorobenzene	ug/m3	0.92	UJ	0.92	U	0.92	U	0.92	U	0.92	UJ	0.92	UJ	0.92	U
TO15	1,4-Dioxane	ug/m3	1.1	UJ	1.1	U	1.1	U	1.1	U	17		1.1	U	0.4	J
TO15	2-Butanone	ug/m3	13		2.9		4		6.6	J	7.8	J	5.7	J	4.7	
TO15	2-Hexanone	ug/m3	1.2	UJ	1.2	U	1.1	J	1.3		1.2	UJ	1.2	UJ	1.2	U
TO15	2-Propanol	ug/m3	260		40		53		71	EJ	230	J	60	EJ	66	EJ
TO15	4-Ethyltoluene	ug/m3	0.75	UJ	0.75	U	1.3		0.55	J	9.7	J	1.3	J	0.75	U
TO15	4-Methyl-2-pentanone	ug/m3	4.9	J	1	J	1	J	2.1		3.2	J	1.2	UJ	0.96	J
TO15	Acetone	ug/m3	170		28		46		110	EJ	610		82	EJ	63	EJ
TO15	Allyl chloride	ug/m3	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U
TO15	Benzene	ug/m3	17		0.62		4.3		1.5		5		1.8		0.78	
TO15	Benzyl chloride	ug/m3	0.88	UJ	0.88	UJ	0.88	UJ	0.88	UJ	0.88	UJ	0.88	UJ	0.88	UJ
TO15	Bromodichloromethane	ug/m3	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U
TO15	Bromoform	ug/m3	1.6	UJ	1.6	U	1.6	U	1.6	U	1.6	UJ	1.6	UJ	1.6	U
TO15	Bromomethane	ug/m3	0.59	U	0.59	U	0.59	U	0.59	U	0.59	U	0.59	U	0.59	U
TO15	Carbon disulfide	ug/m3	6.8		0.98		1.3		10		10		3.2		1.2	
TO15	Carbon tetrachloride	ug/m3	0.96	UJ	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U
TO15	Chlorobenzene	ug/m3	0.7	UJ	0.7	U	0.7	U	0.7	U	0.7	UJ	0.7	UJ	0.7	U
TO15	Chlorodibromomethane	ug/m3	1.3	UJ	1.3	U	1.3	U	1.3	U	1.3	UJ	1.3	UJ	1.3	U
TO15	Chloroethane	ug/m3	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
TO15	Chloroform	ug/m3	210		29		10		4.6		31		17		0.74	U
TO15	Chloromethane	ug/m3	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U
TO15	Cis-1,2-Dichloroethene	ug/m3	2800	EJ	0.6	U	0.6	U	19		26		8.5		0.6	U
TO15	cis-1,3-Dichloropropene	ug/m3	0.69	UJ	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U
TO15	Cyclohexane	ug/m3	23		4.2		0.52	U	0.52	U	0.52	U	0.52	U	0.52	U
TO15	Dichlorodifluoromethane	ug/m3	0.75	U	3.8		2.3		2.3		2.6		2.8		5.7	
TO15	Ethyl acetate	ug/m3	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U
TO15	Ethyl benzene	ug/m3	8.3	J	0.62	J	1.8		22		270		180	EJ	1.7	
TO15	Heptane	ug/m3	0.62	UJ	0.62	U	3.6		0.62	U	0.62	U	0.62	U	0.62	U
TO15	Hexachlorobutadiene	ug/m3	1.6	UJ	1.6	U	1.6	U	1.6	U	1.6	UJ	1.6	UJ	1.6	U
TO15	Hexane	ug/m3	5.9		1		3.7		0.54	U	0.54	U	0.54	U	0.54	U
TO15	Isooctane	ug/m3	2.5	J	0.71	U	0.47	J	0.71	U	0.71	U	0.71	U	0.71	U
TO15	Methyl Tertbutyl Ether	ug/m3	0.55	U	0.55	UJ	0.55	UJ	0.55	UJ	0.55	UJ	0.55	UJ	0.55	UJ
TO15	Methylene chloride	ug/m3	71		0.53	U	0.53	U	0.53	U	0.53	U	0.53	U	0.53	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
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FEBRUARY 2010 AIR SAMPLING
NEW CASSEL INDUSTRIAL AREA
WESTBURY, NEW YORK

		Sample Delivery Group	C1002059		C1002060		C1002060		C1002060		C1002060		C1002060		C1002060	
		Location	A-SS-01		A-SS-02		A-SS-03		B-SS-01		B-SS-02		B-SS-03		F-SS-01	
		Sample Date	2/15/2010		2/15/2010		2/15/2010		2/16/2010		2/16/2010		2/16/2010		2/16/2010	
		Sample ID	130043A-SS-01		130043A-SS-02		130043A-SS-03		130043B-SS-01		130043B-SS-02		130043B-SS-03		130043F-SS-01	
		QC Code	FS		FS		FS		FS		FS		FS		FS	
Analysis	Param Name	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
TO15	Propylene	ug/m3	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
TO15	Styrene	ug/m3	1.6	J	0.65	U	0.69		2.6		0.65	UJ	0.65	UJ	0.61	J
TO15	Tetrachloroethene	ug/m3	400000		4,600		42,000		4,200		1,400		1,700	J	280	
TO15	Tetrahydrofuran	ug/m3	0.45	U	0.45	UJ	0.45	UJ	0.45	UJ	0.45	UJ	0.45	UJ	0.45	UJ
TO15	Toluene	ug/m3	19		3		7.7		17		76		46		2.8	
TO15	trans-1,2-Dichloroethene	ug/m3	420		0.6	U	0.6	U	0.6	U	5.1		0.6	U	0.6	U
TO15	trans-1,3-Dichloropropene	ug/m3	0.69	UJ	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U
TO15	Trichloroethene	ug/m3	4400	J	81		19		16000		31000		4100		0.6	J
TO15	Trichlorofluoromethane	ug/m3	0.86	U	1.4		2.1		3.5		53		42		5.7	
TO15	Vinyl acetate	ug/m3	0.54	U	0.54	UJ	0.54	UJ	0.54	UJ	0.54	UJ	0.54	UJ	0.54	UJ
TO15	Vinyl bromide	ug/m3	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U
TO15	Vinyl chloride	ug/m3	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U
TO15	Xylene, m/p	ug/m3	32		1.8		3.4		92		1200		740	EJ	5.4	
TO15	Xylene, o	ug/m3	8	J	0.62	J	1.5		10		150		80		0.88	

NOTES:
QC Code: FS = Field Sample, FD = Field Duplicate
Qualifiers: U = Non-detected, UJ = Non-detected estimated, J = Estimated,
EJ = Estimated; concentration is above the linear range of calibratic
Units: ug/m3 = Micrograms per cubic meter

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
FEBRUARY 2010 AIR SAMPLING
NEW CASSEL INDUSTRIAL AREA
WESTBURY, NEW YORK

	Sample Delivery Group		C1002060		C1002060		C1002060		C1002060		C1002060		C1002060		C1002060	
	Location		F-SS-02		F-SS-03		K-SS-01		K-SS-02		K-SS-03		N-SS-01		N-SS-02	
	Sample Date		2/16/2010		2/16/2010		2/16/2010		2/16/2010		2/16/2010		2/16/2010		2/16/2010	
	Sample ID		130043F-SS-02		130043F-SS-03		130043K-SS-01		130043K-SS-02		130043K-SS-03		130043N-SS-01		130043N-SS-02	
	QC Code		FS		FS		FS		FS		FS		FS		FS	
Analysis	Param Name	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
TO15	1,1,1-Trichloroethane	ug/m3	9.9		110		77		36		2100		390		53000	
TO15	1,1,2,2-Tetrachloroethane	ug/m3	1	UJ	1	U	1	UJ	1	U	1	UJ	1	UJ	1	UJ
TO15	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	1.2	U	1.2	U	1.2	U	1.2	U	5		1.9		26	
TO15	1,1,2-Trichloroethane	ug/m3	0.83	U	0.83	U	0.83	U	0.83	U	0.83	UJ	0.83	U	0.83	UJ
TO15	1,1-Dichloroethane	ug/m3	0.62	U	0.62	U	1.9		1.2		35		2.1		10	
TO15	1,1-Dichloroethene	ug/m3	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	32	
TO15	1,2,4-Trichlorobenzene	ug/m3	1.1	UJ	1.1	UJ	1.1	UJ	1.1	U	1.1	UJ	1.1	UJ	1.1	UJ
TO15	1,2,4-Trimethylbenzene	ug/m3	7.4	J	1.2		2.7	J	0.75	UJ	54	J	2.1	J	660	EJ
TO15	1,2-Dibromoethane	ug/m3	1.2	UJ	1.2	U	1.2	UJ	1.2	U	1.2	UJ	1.2	UJ	1.2	UJ
TO15	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
TO15	1,2-Dichlorobenzene	ug/m3	0.92	UJ	0.92	U	0.92	UJ	0.92	U	0.92	UJ	0.92	UJ	0.92	UJ
TO15	1,2-Dichloroethane	ug/m3	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U	0.62	U
TO15	1,2-Dichloropropane	ug/m3	0.7	U	0.7	U	0.7	U	0.7	U	0.7	UJ	0.7	U	0.7	UJ
TO15	1,3,5-Trimethylbenzene	ug/m3	2.7	J	0.75	UJ	0.8	J	0.75	UJ	21	J	1	J	380	EJ
TO15	1,3-Butadiene	ug/m3	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
TO15	1,3-Dichlorobenzene	ug/m3	0.92	UJ	0.92	U	0.92	UJ	0.92	U	0.92	UJ	0.92	UJ	0.92	UJ
TO15	1,4-Dichlorobenzene	ug/m3	0.92	UJ	0.92	U	0.92	UJ	0.92	U	0.92	UJ	0.92	UJ	0.92	UJ
TO15	1,4-Dioxane	ug/m3	1.1	U	1.1	U	1.1	U	1.1	U	6	J	1.1	U	20	
TO15	2-Butanone	ug/m3	12		1.7		6.6	J	2		57		9.6		140	EJ
TO15	2-Hexanone	ug/m3	1.4	J	1.2	U	1.2	UJ	1.2	U	26	J	2.4	J	31	
TO15	2-Propanol	ug/m3	59		25		32		39		0.37	UJ	64		87	J
TO15	4-Ethyltoluene	ug/m3	1.8	J	0.75	U	0.95	J	0.75	U	15	J	0.75	J	280	EJ
TO15	4-Methyl-2-pentanone	ug/m3	3.1	J	0.75	J	1.2	J	1.2	U	12	J	1.3	J	17	
TO15	Acetone	ug/m3	300		43		96		32		200	EJ	110		1100	EJ
TO15	Allyl chloride	ug/m3	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U
TO15	Benzene	ug/m3	3.2		0.42	J	4.3		0.58		67		2.6		9.4	
TO15	Benzyl chloride	ug/m3	0.88	UJ	0.88	UJ	0.88	UJ	0.88	UJ	0.88	UJ	0.88	UJ	0.88	UJ
TO15	Bromodichloromethane	ug/m3	1	U	1	U	1	U	1	U	1	UJ	1	U	1	UJ
TO15	Bromoform	ug/m3	1.6	UJ	1.6	U	1.6	UJ	1.6	U	1.6	UJ	1.6	UJ	1.6	UJ
TO15	Bromomethane	ug/m3	0.59	U	0.59	U	0.59	U	0.59	U	0.59	U	0.59	U	0.59	U
TO15	Carbon disulfide	ug/m3	5.6		0.57		14		1.5		11		6.2		15	
TO15	Carbon tetrachloride	ug/m3	0.96	U	0.96	U	0.7	J	0.96	U	0.96	UJ	0.96	U	0.96	UJ
TO15	Chlorobenzene	ug/m3	0.7	UJ	0.7	U	0.7	UJ	0.7	U	0.7	UJ	0.7	UJ	0.51	J
TO15	Chlorodibromomethane	ug/m3	1.3	UJ	1.3	U	1.3	UJ	1.3	U	1.3	UJ	1.3	UJ	1.3	UJ
TO15	Chloroethane	ug/m3	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
TO15	Chloroform	ug/m3	0.94		0.74	U	20		8.9		23		2.8		15	
TO15	Chloromethane	ug/m3	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U
TO15	Cis-1,2-Dichloroethene	ug/m3	0.6	U	0.6	U	1.3		2.8		120		2		0.64	
TO15	cis-1,3-Dichloropropene	ug/m3	0.69	U	0.69	U	0.69	U	0.69	U	0.69	UJ	0.69	U	0.69	UJ
TO15	Cyclohexane	ug/m3	14		0.52	U	0.52	U	0.52	U	16		3.3		0.52	UJ
TO15	Dichlorodifluoromethane	ug/m3	2.4		0.75	U	0.75	U	9.4		0.75	U	2		0.75	U
TO15	Ethyl acetate	ug/m3	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.73	J
TO15	Ethyl benzene	ug/m3	2.5	J	1.1		58		4.3		19	J	1.9	J	230	EJ
TO15	Heptane	ug/m3	8.3		0.46	J	4		0.62	U	66		1.5		7.3	J
TO15	Hexachlorobutadiene	ug/m3	1.6	UJ	1.6	U	1.6	UJ	1.6	U	1.6	UJ	1.6	UJ	1.6	UJ
TO15	Hexane	ug/m3	7.5		0.54	U	4.1		0.54	U	56		0.54	U	0.54	U
TO15	Isooctane	ug/m3	0.71	U	0.71	U	0.71	U	0.71	U	0.71	UJ	0.71	U	1.3	J
TO15	Methyl Tertbutyl Ether	ug/m3	0.55	UJ	0.55	UJ	0.55	UJ	0.55	UJ	0.55	UJ	0.55	UJ	0.55	UJ
TO15	Methylene chloride	ug/m3	0.53	U	0.53	U	0.53	U	0.53	U	0.53	U	0.53	U	0.53	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
FEBRUARY 2010 AIR SAMPLING
NEW CASSEL INDUSTRIAL AREA
WESTBURY, NEW YORK

		Sample Delivery Group	C1002060		C1002060		C1002060		C1002060		C1002060		C1002060		C1002060	
		Location	F-SS-02		F-SS-03		K-SS-01		K-SS-02		K-SS-03		N-SS-01		N-SS-02	
		Sample Date	2/16/2010		2/16/2010		2/16/2010		2/16/2010		2/16/2010		2/16/2010		2/16/2010	
		Sample ID	130043F-SS-02		130043F-SS-03		130043K-SS-01		130043K-SS-02		130043K-SS-03		130043N-SS-01		130043N-SS-02	
		QC Code	FS		FS		FS		FS		FS		FS		FS	
Analysis	Param Name	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
TO15	Propylene	ug/m3	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
TO15	Styrene	ug/m3	0.65	UJ	0.65	U	3.6	J	0.65	U	0.65	UJ	0.87	J	0.65	UJ
TO15	Tetrachloroethene	ug/m3	110	J	290		280		650		1,500		15,000		9,400	
TO15	Tetrahydrofuran	ug/m3	0.45	UJ	0.45	UJ	0.45	UJ	0.45	UJ	0.45	UJ	1.7	J	50	J
TO15	Toluene	ug/m3	12		1.4		46		5.1		36	J	2.8	J	38	
TO15	trans-1,2-Dichloroethene	ug/m3	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
TO15	trans-1,3-Dichloropropene	ug/m3	0.69	U	0.69	U	0.69	U	0.69	U	0.69	UJ	0.69	U	0.69	UJ
TO15	Trichloroethene	ug/m3	4.2		0.82		930		490		10000		1000		3200	J
TO15	Trichlorofluoromethane	ug/m3	2.3		5.5		4.4		37		10		1.1		0.86	U
TO15	Vinyl acetate	ug/m3	0.54	UJ	0.54	UJ	0.54	UJ	0.54	UJ	0.54	UJ	0.54	UJ	0.54	UJ
TO15	Vinyl bromide	ug/m3	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U
TO15	Vinyl chloride	ug/m3	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U
TO15	Xylene, m/p	ug/m3	14	J	3		220		15		50	J	5.7	J	1500	EJ
TO15	Xylene, o	ug/m3	3.8	J	0.53	J	17		1.6		17	J	1.6	J	640	EJ

NOTES:
QC Code: FS = Field Sample, FD = Field Duplicate
Qualifiers: U = Non-detected, UJ = Non-detected estimated, J = Estimated,
EJ = Estimated; concentration is above the linear range of calibratic
Units: ug/m3 = Micrograms per cubic meter

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
FEBRUARY 2010 AIR SAMPLING
NEW CASSEL INDUSTRIAL AREA
WESTBURY, NEW YORK

	Sample Delivery Group		C1002060		C1002060		C1002060		C1002060	
	Location		N-SS-03		V-SS-01		V-SS-02		V-SS-03	
	Sample Date		2/16/2010		2/18/2010		2/18/2010		2/18/2010	
	Sample ID		130043N-SS-03		130043V-SS-01		130043V-SS-02		130043V-SS-03	
	QC Code		FS		FS		FS		FS	
Analysis	Param Name	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
TO15	1,1,1-Trichloroethane	ug/m3	640		5500		3800	J	27000	
TO15	1,1,2,2-Tetrachloroethane	ug/m3	1	U	1	U	1	UJ	1	U
TO15	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	3		8.3		2.1		12	
TO15	1,1,2-Trichloroethane	ug/m3	0.83	U	0.83	U	0.83	U	1.8	
TO15	1,1-Dichloroethane	ug/m3	0.78		72		79	J	7900	
TO15	1,1-Dichloroethene	ug/m3	0.6	U	54		780	J	240	EJ
TO15	1,2,4-Trichlorobenzene	ug/m3	1.1	U	1.1	U	1.1	UJ	1.1	U
TO15	1,2,4-Trimethylbenzene	ug/m3	3.9	J	5	J	16	J	7	J
TO15	1,2-Dibromoethane	ug/m3	1.2	U	1.2	U	1.2	UJ	1.2	U
TO15	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3	1.1	U	1.1	U	1.1	U	1.1	U
TO15	1,2-Dichlorobenzene	ug/m3	0.92	U	0.92	U	0.92	UJ	0.92	U
TO15	1,2-Dichloroethane	ug/m3	0.62	U	0.62	U	0.62	U	0.62	U
TO15	1,2-Dichloropropane	ug/m3	0.7	U	0.7	U	0.7	U	0.7	U
TO15	1,3,5-Trimethylbenzene	ug/m3	1.7	J	3.7	J	13	J	4.5	J
TO15	1,3-Butadiene	ug/m3	0.34	U	0.34	U	0.34	U	0.34	U
TO15	1,3-Dichlorobenzene	ug/m3	0.92	U	0.92	U	0.92	UJ	0.92	U
TO15	1,4-Dichlorobenzene	ug/m3	0.92	U	0.92	U	0.86	J	0.92	U
TO15	1,4-Dioxane	ug/m3	1.1	U	7.5		27	J	10	EJ
TO15	2-Butanone	ug/m3	3.4		2.7		4.9		2.8	
TO15	2-Hexanone	ug/m3	1.3		1.2	U	0.92	J	1	J
TO15	2-Propanol	ug/m3	68	J	95	EJ	21	J	42	
TO15	4-Ethyltoluene	ug/m3	1.3		1.1		0.75	UJ	6.6	
TO15	4-Methyl-2-pentanone	ug/m3	0.75	J	12		1000	EJ	13	
TO15	Acetone	ug/m3	35		30		350		49	
TO15	Allyl chloride	ug/m3	0.48	U	0.48	U	0.48	U	0.48	U
TO15	Benzene	ug/m3	0.65		1.3		1.6		2.1	
TO15	Benzyl chloride	ug/m3	0.88	UJ	0.88	UJ	0.88	UJ	0.88	UJ
TO15	Bromodichloromethane	ug/m3	1	U	1	U	1	U	1	U
TO15	Bromoform	ug/m3	1.6	U	1.6	U	1.6	UJ	1.6	U
TO15	Bromomethane	ug/m3	0.59	U	0.59	U	0.59	U	0.59	U
TO15	Carbon disulfide	ug/m3	1.9		0.79		9.2		4.1	
TO15	Carbon tetrachloride	ug/m3	0.96	U	0.9	J	0.96	U	0.96	U
TO15	Chlorobenzene	ug/m3	0.7	U	0.7	U	0.7	UJ	0.7	U
TO15	Chlorodibromomethane	ug/m3	1.3	U	1.3	U	1.3	UJ	1.3	U
TO15	Chloroethane	ug/m3	0.4	U	0.4	U	0.4	U	0.4	U
TO15	Chloroform	ug/m3	0.69	J	8.7		1.3		40	
TO15	Chloromethane	ug/m3	0.31	U	0.31	U	0.31	U	0.31	U
TO15	Cis-1,2-Dichloroethene	ug/m3	0.6	U	1.8		0.6	U	49	
TO15	cis-1,3-Dichloropropene	ug/m3	0.69	U	0.69	U	0.69	U	0.69	U
TO15	Cyclohexane	ug/m3	0.52	U	0.52	U	0.52	U	0.52	U
TO15	Dichlorodifluoromethane	ug/m3	0.75	U	0.75	U	2.2		0.75	U
TO15	Ethyl acetate	ug/m3	0.92	U	0.92	U	1.1		0.92	U
TO15	Ethyl benzene	ug/m3	2.8		15		390	J	55	EJ
TO15	Heptane	ug/m3	0.79		1.2		3.1	J	1.8	
TO15	Hexachlorobutadiene	ug/m3	1.6	U	1.6	U	1.6	UJ	1.6	U
TO15	Hexane	ug/m3	0.54	U	0.54	U	3.5		0.54	U
TO15	Isooctane	ug/m3	0.71	U	0.71	U	0.71	U	0.71	U
TO15	Methyl Tertbutyl Ether	ug/m3	0.55	UJ	0.55	UJ	0.55	UJ	0.55	UJ
TO15	Methylene chloride	ug/m3	0.53	U	0.53	U	0.53	U	0.53	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
FEBRUARY 2010 AIR SAMPLING
NEW CASSEL INDUSTRIAL AREA
WESTBURY, NEW YORK

		Sample Delivery Group	C1002060		C1002060		C1002060		C1002060	
		Location	N-SS-03		V-SS-01		V-SS-02		V-SS-03	
		Sample Date	2/16/2010		2/18/2010		2/18/2010		2/18/2010	
		Sample ID	130043N-SS-03		130043V-SS-01		130043V-SS-02		130043V-SS-03	
		QC Code	FS		FS		FS		FS	
Analysis	Param Name	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
TO15	Propylene	ug/m3	0.26	U	0.26	U	0.26	U	0.26	U
TO15	Styrene	ug/m3	0.65	U	0.65	U	0.65	UJ	0.65	U
TO15	Tetrachloroethene	ug/m3	1,200		1,100		780	J	1,500	
TO15	Tetrahydrofuran	ug/m3	18	J	0.45	UJ	0.45	UJ	0.45	UJ
TO15	Toluene	ug/m3	2.8		5.1		320		12	
TO15	trans-1,2-Dichloroethene	ug/m3	0.6	U	0.6	U	0.6	U	2.9	
TO15	trans-1,3-Dichloropropene	ug/m3	0.69	U	0.69	U	0.69	U	0.69	U
TO15	Trichloroethene	ug/m3	80		1000		43	J	800	
TO15	Trichlorofluoromethane	ug/m3	1.2		3		2.6		2.7	
TO15	Vinyl acetate	ug/m3	0.54	UJ	0.54	UJ	0.54	UJ	0.54	UJ
TO15	Vinyl bromide	ug/m3	0.67	U	0.67	U	0.67	U	0.67	U
TO15	Vinyl chloride	ug/m3	0.39	U	0.39	U	0.39	U	0.39	U
TO15	Xylene, m/p	ug/m3	12		59		1500		200	EJ
TO15	Xylene, o	ug/m3	3		10		360	J	53	EJ

NOTES:
QC Code: FS = Field Sample, FD = Field Duplicate
Qualifiers: U = Non-detected, UJ = Non-detected estimated, J = Estimated,
EJ = Estimated; concentration is above the linear range of calibratic
Units: ug/m3 = Micrograms per cubic meter

DATA USABILITY SUMMARY REPORT
MAY 2010 SOIL SAMPLING
NEW CASSEL INDUSTRIAL AREA
WESTBURY, NEW YORK

1.0 INTRODUCTION

Four soil samples were collected at the New Cassel Industrial Area in Westbury, New York in May 2010 and submitted for off-site laboratory analysis. Samples were analyzed by CHEMTECH located in Mountainside, New Jersey. Results were reported in the following Sample Delivery Group (SDG): B2399.

A listing of samples included in this Data Usability Summary Report is presented in Table 1. A summary of the analytical results is presented in Table 2. Samples were analyzed by the following method:

- Volatile organic compounds (VOCs) by USEPA Method 8260B

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

A project chemist review was completed based on NYSDEC Division of Environmental Remediation guidance for Data Usability Summary Reports (NYSDEC, 2002). Laboratory QC limits were used during the data evaluation unless noted otherwise. The project chemist review included evaluations of sample collection, data package completeness, holding times, QC data (blanks, instrument calibrations, duplicates, surrogate recovery, and spike recovery), data transcription, electronic data reporting, calculations, and data qualification. The following laboratory or data validation qualifiers are used in the final data presentation.

U = target analyte is not detected at the reported detection limit
J = concentration is estimated
UJ = target analyte is not detected at the reported detection limit and is estimated

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

2.0 VOLATILE ORGANIC COMPOUNDS (VOCS)

VOC - Initial Calibration

The initial calibration exceeded the percent relative standard deviation limit of 20 for the compound chloroethane (25). Chloroethane was not detected in any of the associated samples, and the reporting limits were qualified as estimated (UJ).

VOC- Tentatively Identified Compounds

Naphthalene was identified as a tentatively identified compound (TIC) in sample 130043V-DP511 and was qualified as 'NJ'.

Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

New York State Department of Environmental Conservation (NYSDEC), 2002. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; Draft DER-10; Division of Environmental Remediation; December 2002.

Data Validator: Michael Washburn

Date: 06/23/2010

Reviewed by Chris Ricardi, NRCC-EAC
Quality Assurance Officer

Date: 7/21/2010

TABLE 1 – SAMPLE AND ANALYTICAL SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2010 SOIL SAMPLING
NEW CASSEL INDUSTRIAL AREA
WESTBURY, NEW YORK

					Class	VOC
					Method	SW8260B
					Fraction	T
SDG	**Media**	**Location**	**Sample ID**	**Sample Date**	**QC Code**	
B2399	Soil	V-DP-1	130043V-DP125	5/19/2010	FS	X
B2399	Soil	V-DP-2	130043V-DP224	5/19/2010	FS	X
B2399	Soil	V-DP-4	130043V-DP410	5/19/2010	FS	X
B2399	Soil	V-DP-5	130043V-DP511	5/19/2010	FS	X

NOTES:
QC Code: FS = Field Sample
Media: SV = Soil Vapor
Sample ID: IA = Indoor Air, AA = Ambient Air, SS = Sub-slab

TABLE 2 - FINAL RESULTS
DATA USABILITY SUMMARY REPORT
MAY 2010 SOIL SAMPLING
NEW CASSEL INDUSTRIAL AREA
WESTBURY, NEW YORK

		Location	V-DP-01		V-DP-02		V-DP-04		V-DP-05	
		Sample Date	5/19/2010		5/19/2010		5/19/2010		5/19/2010	
		Sample ID	130043V-DP125		130043V-DP224		130043V-DP410		130043V-DP511	
		Qc Code	FS		FS		FS		FS	
Analysis	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260B	1,1,1-Trichloroethane	ug/Kg	5.5	U	5.6	U	8.1		4.1	U
SW8260B	1,1,2,2-Tetrachloroethane	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	1,1,2-Trichloroethane	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	1,1-Dichloroethane	ug/Kg	1.7	J	5.6	U	3.1		4.1	U
SW8260B	1,1-Dichloroethene	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	1,2,4-Trichlorobenzene	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	1,2-Dibromo-3-chloropropane	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	1,2-Dibromoethane	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	1,2-Dichlorobenzene	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	1,2-Dichloroethane	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	1,2-Dichloropropane	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	1,3-Dichlorobenzene	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	1,4-Dichlorobenzene	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	2-Butanone	ug/Kg	27	U	28	U	15	U	20	U
SW8260B	2-Hexanone	ug/Kg	27	U	28	U	15	U	20	U
SW8260B	4-Methyl-2-pentanone	ug/Kg	27	U	28	U	15	U	20	U
SW8260B	Acetic acid, methyl ester	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Acetone	ug/Kg	19	J	23	J	15	U	20	U
SW8260B	Benzene	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Bromodichloromethane	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Bromoform	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Bromomethane	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Carbon disulfide	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Carbon tetrachloride	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Chlorobenzene	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Chlorodibromomethane	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Chloroethane	ug/Kg	5.5	UJ	5.6	UJ	3	UJ	4.1	UJ
SW8260B	Chloroform	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Chloromethane	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Cis-1,2-Dichloroethene	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	cis-1,3-Dichloropropene	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Cyclohexane	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Dichlorodifluoromethane	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Ethyl benzene	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Isopropylbenzene	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Methyl cyclohexane	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Methyl Tertbutyl Ether	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Methylene chloride	ug/Kg	3.6	J	3.9	J	3	U	1.2	J
SW8260B	Styrene	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Tetrachloroethene	ug/Kg	5.5	U	5.6	U	1.2	J	4.1	U
SW8260B	Toluene	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	trans-1,2-Dichloroethene	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	trans-1,3-Dichloropropene	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Trichloroethene	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Trichlorofluoromethane	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Vinyl chloride	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
SW8260B	Xylene, m/p	ug/Kg	11	U	11	U	5.9	U	8.2	U
SW8260B	Xylene, o	ug/Kg	5.5	U	5.6	U	3	U	4.1	U
Tentatively Identified Compounds (TICs)										
SW8260B	Naphthalene	ug/Kg							1.6	NJ

prepared by BJS
reviewed by MJW 7/22/10