AECOM Environment

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Prepared by:
AECOM
Chestnut Ridge, NY
60250556
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2013 Periodic Review Report
Farmingdale Plaza Cleaners Site, Site #1-30-107
Work Assignment No. D007626-14

Final

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Engineering Certification

I, Scott A. Underhill, certify that I am currently a NYS registered professional engineer and that this Periodic Review Report for the Farmingdale Plaza Site (Site Number # 1-30-107) was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Respectfully submitted,

AECOM Technical Services Northeast, Inc.

STATE OF NEW YORK
SCOTT ANDREW UNDERHILL
075332
LICENSED PROFESSIONAL ENGINEER

4-30-13

Scott Underhill Date
Registered Professional Engineer
New York License No. 075332

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Executive Summary

AECOM Technical Services Northeast, Inc (AECOM) has prepared this Periodic Review Report (PRR) for the Farmingdale Plaza Cleaners Site in Farmingdale, Nassau County, NY (Figure 1). The period of review for this report is September 2011 to January 2013.

The Site is located at 450 Main Street in the Village of Farmingdale, Town of Oyster Bay, Nassau County, New York. The Farmingdale Plaza Cleaners was part of the Farmingdale Plaza, a one-story masonry structure of approximately 33,000 square feet that includes (from north to south): Waldbaum's Supermarket (currently closed and not occupied), Farmingdale Plaza Cleaners (closed), Lucky House Chinese Restaurant, and Best Choice Cards & Gifts.

Farmingdale Plaza was constructed in 1983, at which time the Farmingdale Plaza Cleaners began operation. Environmental investigations near the Site began in the late 1990s as a result of a nearby National Priority List (NPL) site, known as the Liberty Industrial Finishing NPL Site (LIFS), located approximately 1,000 feet south (downgradient) of the Plaza. A groundwater plume, identified as Plume B, of tetrachloroethene (PCE) was identified at the LIFS as coming from an upgradient source and was found to be originating from the Site during 1999 investigation.

Numerous environmental investigations were performed by consultants of the property owner, A&P, between 2000 and 2004. Additional investigations were performed by consultants working for USEPA at the Liberty Industrial Finishing Superfund Site. Consultants working for New York State Department of Environmental Conservation (NYSDEC) have also conducted numerous on-site and off-site environmental investigations since 2000. The results of the USEPA and NYSDEC investigations concluded that the dry cleaning operations had contaminated soil and groundwater at the Site, resulting in a soil vapor issues for the Plaza and nearby structures.

A soil vapor extraction (SVE) system was selected as an interim remedial measure (IRM) to prevent exposure to contaminated soil vapors and treat residual soil contamination. A SVE pilot test was performed in February 2009. The results of the pilot study were used to design a full-scale SVE system (AECOM, 2011), which was constructed in the Fall of 2011 and started operations on November 1, 2011.

NYSDEC divided the Site into two operable units (OU): OU1 for the onsite soil and soil vapor, and OU-2 which covers on-site and off-site groundwater. The ROD for OU-1 was issued in March 2012. The selected remedy for OU-1 is No Further Action with the stipulation that the IRM continue operation until no longer necessary and the implementation of any prescribed institutional controls/engineering controls that have been identified for the Site. A ROD for OU-2 has not been issued as of this date since the remedial investigation for the Site is still on-going.

The periodic review (PR) process is used for determining if a remedy continues to be properly managed, as set forth in the ROD and continues to be protective of human health and the environment. The results of PR have lead to the determination that the site is in general compliance with the applicable requirements as presented in the ROD.

Conclusions

- Operation of the SVE system continues to remove PCE from the subsurface. The total system flow rate has averaged 318 cubic feet per minute (CFM) and has removed 13.2 pounds of total volatile organic compounds (VOCs) since system startup in 2011. Effluent samples indicate that the system is effectively removing contaminants prior to discharge.
- Indoor air samples indicate that contaminants are not entering any of the buildings included in the sampling.
- Soil vapor samples indicate rebound in PCE concentrations at most locations after the SVE system was turned off (based on March 2012 and December 2012 results).
- Sampling at the Garden Apartments and the former Waldbaum's demonstrate that subslab air PCE concentrations are below 100 micrograms per cubic meter (µg/m3), indicating "No Further Action".

Recommendations

- Complete a Site Management Plan for OU-1.
- File an environmental easement for the site with the Suffolk County.
- Re-sample the McDonalds (B02-SS1/IA1) due to the summa canister malfunction in December 2012.
- Screen the Milestone Apartments using PERC badges to establish a baseline for indoor air conditions.
- Temporarily shut down SVE-1 and SVE-5 as the sampling locations are at "Monitoring/No Further Action" levels. Modify the SVE system to include SVE-3 as an extraction point. Re-start the SVE system for the 2013-2014 heating season.
- Collect another round of indoor air samples during the 2013-2014 heating season from the Milestone Apartments, Lucky House Restaurant, Best Choice Cards & Gifts and the former dry cleaners based on the following:
    - PCE recovery at the SVE system influent (concentrations reaching asymptotic levels?);
    - PID readings at B01-SS1 (former dry cleaners), B01-SS4 (Best Choice Cards & Gifts) and B01-SS5 (Luck House Restaurant);
    - If PCE recovery shows asymptotic levels and the PID readings show low detections of VOCs, then the SVE system will be shut down for a rebound period prior to Summa-canisters sample collection at Milestone Apartments, former dry cleaners, Lucky House Restaurant and Best Choice Cards & Gifts. If significant rebound of

PCE concentrations occurs, the SVE system may require another season of operation for SVE-1, SVE-3 or SVE-5 locations, depending on the sampling results.

- Perform periodic reviews at the Site while the SVE system is operating.

1.0 Site Overview

AECOM has prepared this PRR for the Farmingdale Plaza Cleaners Site, located in the Town of Farmingdale, Nassau County, New York. This PRR covers the period of September 2011 through January 2013. This work was performed for the NYSDEC under Work Assignment D007626-14 of AECOM's Superfund Standby Contract with NYSDEC. The NYSDEC has assigned the Site the ID No. 1-30-107 on the NYSDEC's registry of inactive hazardous waste sites. Farmingdale Plaza Cleaners is a Class 2 site.

1.1 Objectives of the Periodic Review

The periodic review process is used for determining if a remedy continues to be properly managed as set forth in the guidance documents for the Site, and is protective of human health and the environment. The objectives of the periodic review for sites in the State Superfund Program are as follows:

- Determine if the remedy remains in place, is performing properly and effectively, and is protective of public health and the environment;
- Evaluate compliance with the decision document(s) and the SMP;
- Evaluate the condition of the remedy;
- Verify, if appropriate, that the intent of Institutional Controls (IC) continues to be met, and that Engineering Controls (EC) remain in place, are effective and protective of public health and the environment;
- Evaluate the implemented remedies' effectiveness towards moving the Site to closure; and,
- Evaluate costs.

1.2 Remedial History

The Farmingdale Plaza Cleaners (Site) is located at 450 Main Street in Farmingdale, Nassau County, New York (Figure 1). The Farmingdale Plaza Cleaners operated a dry cleaning business from 1983 to 2008. These operations led to soil and groundwater contamination at the Plaza and adjacent structures (Garden Apartments, McDonalds and Milestone Apartments).

Environmental investigations near the Site began in the late 1990s as a result of a nearby National Priority List (NPL) site, known as the Liberty Industrial Finishing NPL Site (LIFS), located approximately 1,000 feet south (downgradient) of the Plaza (Figure 2). A groundwater plume, identified as Plume B, of tetrachloroethene (PCE) was identified at the LIFS as coming from an upgradient source and was found to be originating from the Site during a remedial investigation performed in 1999.

In 2000, a Phase I Environmental Assessment was completed by Malcolm Pirnie on behalf of the Great Atlantic and Pacific Tea Company (A&P), Inc., the owner of Farmingdale Plaza. Malcolm Pirnie conducted a Phase II Site Investigation in 2001. Soil samples were collected from two soil borings and two groundwater samples were collected from two monitoring wells. Malcolm Pirnie suggested that the groundwater contamination was a result of an off-site source but NYSDEC did not concur.

In 2001, an Environmental Site Investigation was conducted by Whitestone Associates on behalf of A&P. Soil and groundwater samples from ten soil borings and six existing monitoring wells were collected. No VOCs were reported in soil samples but PCE, trichloroethene (TCE), and cis-1,2-dichloroethene were detected in several groundwater samples.

The Site was listed as a Class 2 Inactive Hazardous Waste Site in December 2002.

In 2003, Whitestone Associates conducted a Historical Site Use Investigation. The investigation found no VOCs present in soils above the TAGM RSCOs. Groundwater contamination was identified as unrelated to historic Site activities. In addition, groundwater flow was interpreted as flowing south to north. Subsequent investigations by USEPA and NYSDEC interpreted groundwater flow as north to south.

An investigation conducted by Earth Tech for USEPA at the LIFS in 2004 confirmed that Plume B originated in the vicinity of Farmingdale Plaza. High levels of soil vapor were also identified in the parking lot area to the south of the Site.

Whitestone Associates conduct a Supplemental Remedial Investigation in 2004. The investigation concluded that there was no evidence of a PCE source at the Site and groundwater contamination was a result of background conditions. NYSDEC did not concur with these conclusions.

In January 2005, NYSDEC referred the Farmingdale Plaza Cleaners Site for funding by the State Superfund for implementation of a remedial investigation/feasibility study (RI/FS).

O'Brien & Gere conducted a remedial investigation (RI) on behalf of NYSDEC in 2006 and 2007. The RI identified PCE and degradation products in soil and groundwater above cleanup standards. The RI report recommended mitigation efforts at the Plaza and the Garden Apartments.

In 2008, YU & Associates, a subconsultant of AECOM, conducted an off-site groundwater investigation on behalf of NYSDEC. Ten Solinst continuous multilevel tubing (CMT) monitoring wells were install at off-site locations along two transects as shown on Figure 2. Each CMT was completed with seven separate screened intervals to characterize the saturated portion of the Upper Glacial Aquifer. Groundwater samples were collected from 69 of the 70 CMT channels and four existing monitoring wells. Groundwater flow was confirmed moving towards the south. PCE and its degradation products were detected in numerous samples at concentrations exceeding the Class GA standard of 5 micrograms per liter (µg/L).

A SVE system was selected as an interim remedy to prevent exposure to contaminated soil vapors and treat residual soil contamination. A SVE pilot test was performed by Yu & Associates (subcontractor of AECOM) in February 2009. The results of the pilot study were used to design a full-scale SVE system (AECOM, 2011). Environmental Assessment and Remediation (EAR) was selected to install the SVE system by NYSDEC using a bidding process. A chronology of events is show on Table 1. The system was constructed July through September 2011 and began operation on November 1, 2011. Several rounds of soil vapor samples were collected. Sample dates and locations are shown on Table 2. The first was in September 2011 prior to SVE system startup. The next round was in January 2012 during heating season (SVE system was on). The third round was in March 2012 (SVE system was on). The fourth round was in June 2012 (system was off for the summer). The fifth round was collected in December 2012 (SVE system was temporarily turned off for two weeks during the sampling event). Due to access issues, the Garden Apartments were sampled the week after the other points were sampled. Between the period of December 2011 and March 2013, the SVE system has removed 11.8 pounds of VOCs, 7.6 pounds of which are PCE.

The periodic review (PR) process is used for determining if a remedy continues to be properly managed, as set forth in the ROD and continues to be protective of human health and the environment for the areas covered under the SVE system. The results of PR have lead to the determination that the site is in general compliance with the applicable requirements as presented in the ROD.

2.0 Evaluate Remedy Performance, Effectiveness, and Protectiveness

Work plans were developed under previous work assignments (D004436-15, D004445-27 and 28, and D007626-14). The current work assignment outlines the following activities:

- Collect co-located subslab and indoor air/crawl space samples and soil vapor samples from ten locations shown on Figure 3. An ambient air sample will be collected during each sampling event.
- Continued operation and maintenance of the SVE system by EAR under a NYSDEC callout contract.

3.0 IC/EC Plan Compliance Report

Engineering controls at the Site currently consist of the operation of a SVE system and environmental monitoring to determine effectiveness of the interim remedial measure. Institutional controls at the Site consist of an environmental easement, which has not been filed for the site yet.

Comparison of DER-10, NYSDEC Unified Information System and Actual Site Conditions

DER-10	Unified Information System	Actual Site Conditions
Source Removal	Active IRM - SVE system	Active IRM - SVE system
Source Control when removal is not feasible	NA	NA
Containment / Isolation	NA	NA
Long Term Monitoring	NA	NA

3.1 IC/EC Requirements and Compliance

Determination of compliance with the IC/EC at the Site is made based on the following criteria:

- The EC(s) applied at the site are in place and unchanged from the previous certification,
- Nothing has occurred that would impair the ability of such controls to protect the public health and the environment, or constitute a violation or failure to comply with any element of the SMP for such controls,
- Access to the Site will continue to be provided to the NYSDEC to evaluate the remedy, including access to evaluate the continued maintenance of such controls (*future access cannot be guaranteed, but access for maintenance and inspections has not been an issue to date, and is not anticipated to become one*).

3.2 IC/EC Certification Forms

Certification forms are not required at this time as the groundwater remedial investigation for OU-2 has not been completed as of the date of this report.

4.0 Monitoring Plan Compliance Report

The various work plans (AECOM, 2010, 2011, 2012) and Operation and Maintenance (O&M) Manual (EAR, 2012) are referenced as the Site guidance documents. This PRR assesses whether the site has been managed as set forth in these documents. To date, five rounds of soil vapor sampling have been collected. EAR continues to collect influent/effluent samples to monitor system operations.

The current monitoring program is as follows:

- Weekly monitoring of the SVE system (presently performed by EAR); and
- Soil vapor sampling from various locations around the Site (presently performed by AECOM).

4.1 Monitoring Plan Compliance Report

The following summarizes monitoring activities at the Site conducted to-date in accordance with the work assignments. Soil vapor sampling events at the Farmingdale Plaza were performed in September 2011, January 2012, March 2012, June 2012 and December 2012. SVE sampling has been performed monthly since regular O&M began on the system in 2011.

Activity	Required Frequency	Compliance Dates
Soil Vapor Sampling	Varies, as required	2011-2012
SVE-1 & SVE-5	Monthly	2011-2012
Influent sampling (pre carbon)	Monthly	2011-2012
Effluent sampling (post-carbon)	Monthly	2011-2012

Soil Vapor Sampling

Co-located subslab and crawl space/indoor air samples have been collected from ten locations around the Site: one in McDonalds, four in the Garden Apartments, one in the Best Choice Cards & Gifts store, one in the Lucky House Restaurant, one in the former dry cleaners, and two in the former Waldbaum's Supermarket. Two soil vapor points in the parking lot next to the Milestone Apartments were also sampled.

4.2 Confirm that Performance Standards are Being Met

The sections below discuss the results of the soil vapor and treatment system sampling conducted in accordance with the guidance documents and provides a summary of the results.

Soil Vapor

Five rounds of soil vapor sampling have been conducted since the SVE system was constructed: September 2011 (pre-system startup), January 2012 (approximately two months after system startup), March 2012 (heating season), June 2012 and December 2012 (heating season). Air sampling logs are included in Appendix B. A summary of soil vapor results for these sampling events is presented in Table 2. A summary of soil vapor results is presented in Figure 4. The plaza locations are summarized on Figure 5 and the off-site buildings are summarized on Figure 6.

Indoor air samples collected during the IRM evaluation period do not indicate any health concerns for PCE in indoor air in any of the buildings currently included in the sampling program as all indoor air samples are significantly below the 100 µg/m3 ambient air guidance value (Table 3.1, NYSDOH, 2006). There was one anomalous reading from the McDonalds indoor air sample collected in December 2012 which had 7.4 µg/m3 TCE (NYSDOH Air guidance value is 5 µg/m3). The source of the TCE is unknown and was not present in previous samples. The subslab sample for the December round was not collected due to a malfunction in the Summa canister. This location will be re-sampled in the near future.

Comparing the December 2012 air sampling results to the Soil Vapor/Indoor Air Matrix 2 Table for PCE (New York State Department of Health [NYSDOH], 2006), indicates that the soil vapor beneath the former dry cleaners still requires monitoring as the concentration is 320 µg/m3 at B01-SS1.

The two most recent samples from Waldbaum's indicate no further action. However, both samples indicate PCE concentrations rebounded in December 2012 after the SVE system was shut down for the summer months.

Lucky House Restaurant and Choice Cards both indicate the need for further monitoring. Garden Apartments north building indicates the need for further monitoring. This location also showed significant PCE rebound in December 2012 after the SVE system was shut down for the summer.

The samples from the Garden Apartments building crawl space air samples indicate no further action is necessary.

Sample B04-SV2 located in the parking lot in front of the Milestone Apartments indicate the need for mitigation as the PCE concentration is 1,800 µg/L (criterion is 1,000 µg/m3). Previous PCE results from this location have ranged in concentration from 550 µg/m3 to 4,000 µg/m3.

Influent Sampling

Influent samples are collected on a monthly basis by EAR to monitor soil vapor concentrations in the ground and assess the contaminant concentrations entering the treatment system. The summary for SVE-1 is shown on Table 3 and the summary for SVE-5 is shown on Table 4.

While in operation, the flow rate for SVE-1 has averaged 150 CFM. The cumulative removal of contaminants through February 14, 2013 amount to 3.7 pounds of total VOCs. The flow rate at SVE-5

has averaged 168 CFM with a cumulative removal of contaminants through February 14, 2013 of 9.5 pounds of total VOCs.

Effluent Sampling

Effluent samples are collected on a monthly basis by EAR to monitoring the effectiveness of the treatment system in removing contaminants prior to being discharged to the atmosphere. A summary of SVE system effluent samples is presented in Table 5.

There were no exceedances of the discharge criteria during the operating months November 2011 through February 2013.

5.0 Operation and Maintenance Plan Compliance Report

The current operation and monitoring (O&M) program at the Site consists of maintaining the operation of the SVE system, collection of process samples to monitor the condition of the carbon units and collection of soil vapor samples to evaluate the effectiveness of the treatment system.

5.1 O&M Plan Compliance

The following summarizes operation and maintenance activities undertaken at the Site from 2011 through 2013:

Activity	Required Frequency (X)		Compliance Dates
	Weekly	As needed	
Inspect the SVE system	X		2011, 2012 & 2013
Monitor the SVE influent/effluent air streams	X		2011, 2012 & 2013
Soil vapor monitoring		X	2011, 2012 & 2013

5.2 Evaluation of O&M Activities

Monthly SVE inspection reports have been submitted to NYSDEC by EAR during system operations. Summary reports of soil vapor sampling have been submitted to NYSDEC after each round of sample collection.

6.0 Conclusions and Recommendations

6.1 Conclusions

6.1.1 Operations and Maintenance

The SVE system operates in compliance with the O&M Manual prepared by EAR.

Periodic soil vapor monitoring is conducted as requested by NYSDEC.

6.1.2 Monitoring

A summary of PCE and TCE results in soil vapor samples from pre-system startup to the present is show on Table 2 and Figure 4.

Groundwater

Groundwater is not a part of OU1. Results of groundwater sampling will be discussed in the PRR for OU2.

Soil Vapor

PCE soil vapor concentrations continues to exceed the NYSDOH criterion at several locations, the highest of which are the soil vapor points near the Milestone Apartments (1,800 µg/m3 at B04-SV2). Rebound was noted in the PCE concentrations during the December 2012 sampling event compared to the March 2012 results for several locations including the former Waldbaum's samples, the former dry cleaners and the Garden Apartments. Some areas may require additional assessment of soil vapor concentrations.

Indoor Air

The December 2012 indoor air sample from the McDonalds had a TCE concentration of 7.4 µg/m3, which exceeds the 5 µg/m3 criterion. Further sampling is needed to verify this concentration.

SVE Treatment System Samples

Influent samples from SVE-1 and SVE-5 indicate the system is still removing PCE from shallow soils. The total system flow rate has averaged 318 CFM and has removed 13.2 pounds of total VOCs since system startup in 2011. Effluent samples indicate that the system is effectively removing contaminants prior to discharge.

6.2 Recommendations

In order to maintain compliance with the requirements presented in the ROD and OM&M program, a summary of the recommended investigation and maintenance activities is provided below:

- Complete a Site Management Plan for OU-1.
- File an environmental easement for the site with the Suffolk County.
- Re-sample the McDonalds (B02-SS1/IA1) due to the summa canister malfunction in December 2012.
- Screen the Milestone Apartments using PERC badges to establish a baseline for indoor air conditions.
- Temporarily shut down SVE-1 and SVE-5 as the sampling locations are at “Monitoring/No Further Action” levels. Modify the SVE system to include SVE-3 as an extraction point. Re-start the SVE system for the 2013-2014 heating season.
- Collect another round of indoor air samples during the 2013-2014 heating season from the Milestone Apartments, Lucky House Restaurant, Best Choice Cards & Gifts and the former dry cleaners based on the following:
    - PCE recovery at the SVE system influent (concentrations reaching asymptotic levels?);
    - PID readings at B01-SS1 (former dry cleaners), B01-SS4 (Best Choice Cards & Gifts) and B01-SS5 (Luck House Restaurant);
    - If PCE recovery shows asymptotic levels and the PID readings show low detections of VOCs, then the SVE system will be shut down for a rebound period prior to Summa-canisters sample collection at Milestone Apartments, former dry cleaners, Lucky House Restaurant and Best Choice Cards & Gifts. If significant rebound of PCE concentrations occurs, the SVE system may require another season of operation for SVE-1, SVE-3 or SVE-5 locations, depending on the sampling results.
    - Perform periodic reviews at the Site while the SVE system is operating.

7.0 References

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Tables

Table 1
Farmingdale Plaza Cleaners (1-30-107)
Chronology of Events

Date	Event	Sampling Points											
		B01-SS1/IA1 Dry Cleaners	B01-SS2/IA2 Waldbaums	B01-SS3/IA3 Waldbaums	B01-SS4/IA4 Best Choice Cards	B01-SS5/IA5 Lucky House	B02-SS1/IA1 McDonalds	B03-SS1/IA1 Garden Apts	B03-SS2/CS2 Garden Apts	B03-CS3/IA3 Garden Apts	B03-CS4/IA4 Garden Apts	B04-SV1 Milestone Apts	B04-SV2 Milestone Apts
7/20/11	Contruction Kick-off Meeting												
7/25/11	Install Utility Poles												
8/2/11	Drilling for SVE-5 and monitoring points												
8/22/11 - 9/19/11	Trenching and Piping												
9/21/11 - 9/22/11	Pre-system startup sampling	X	X	X			X	X	X	X	X	X	X
9/23/11	SVE System delivered to the Site												
1/1/11	***SVE system turned on***												
1/4/12 - 1/5/12	Sampling	X	X	X			X[1]	X	X	X	X	X	X
3/28/11 - 3/29/12	Sampling	X	X	X			X	X	X	X	X	X	X
5/11/12	***System shutdown for the summer***												
6/25/12 - 6/26/12	Install new points and sample				X	X							X
10/4/12	***System startup for the heating season***												
12/5/12	***Temporary shutdown for sampling***												
12/11/12 - 12/12/12	Sampling	X	X	X	X	X	X[2]					X	X
12/19/12 - 12/20/12	Sampling at Garden Apartments only							X	X	X	X		
12/24/12	***System turned back on***												

Notes: 1 - Malfunction of indoor air summa canister, no sample
2 - Malfunction of subslab air summa canister, no sample

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	Dry cleaners					
Sample ID	B01-IA1					
Matrix	Indoor Air					
Sample Date	9/22/11	1/5/12	1/5/12 Duplicate	3/28/12	3/28/12 Duplicate	12/12/12
1,1,1-Trichloroethane	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2-Trichlorotrifluoroethane	0.61 U	0.61 U	0.68	0.61 U	0.61 U	0.77
1,2,4-Trimethylbenzene	0.59	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1,2-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
1,2-Dichloroethane	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,3,5-Trimethylbenzene	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1,4-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
2,2,4-Trimethylpentane	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
2-Butanone (MEK)	4.1	0.94 U	0.94 U	1.1	0.94 U	0.94 U
4-Methyl-2-pentanone (MIBK)	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Benzene	0.89	1.2	1.6	0.56	0.49	1.0
Carbon tetrachloride	0.5	0.45	0.66	0.46	0.52	0.74
Chlorobenzene	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Chloroethane	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Chloroform	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Chloromethane	1.1	1	1.2	1.1	1.7	1.6
cis-1,2-Dichloroethene	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Cyclohexane	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Dichlorodifluoromethane	3.2	2.4	2.9	3.1	2.6	3.2
Ethanol	25	15	19	14	13	12
Ethylbenzene	0.86	0.36	0.49	0.35 U	0.35 U	0.35 U
Methyl tert-butyl ether	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U
Methylene chloride	1.2	2.0	3.2	0.71	0.69 U	0.69 U
m-Xylene & p-Xylene	2.2	0.89	1.4	0.68	0.78	0.84
n-Hexane	0.7 U	0.84	1.1	0.7 U	0.7 U	0.83
o-Xylene	0.67	0.35 U	0.48	0.35 U	0.35 U	0.35 U
Styrene	0.81	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
tert-Butyl alcohol	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U
Tetrachloroethene	37	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
Toluene	3.1	2.1	2.8	1.4	1.3	1.6
Trichloroethene	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Trichlorofluoromethane	9.3	1.7	2.2	3.1	2.9	1.8

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	Dry cleaners			
Sample ID	B01-SS1			
Matrix	Subslab			
Sample Date	9/22/11	1/5/12	3/28/12	12/12/12
1,1,1-Trichloroethane	11 U	0.44 U	0.44 U	0.44 U
1,1,2-Trichlorotrifluoroethane	15 U	0.68	0.61 U	0.61 U
1,2,4-Trimethylbenzene	9.8	0.39 U	48 J	1.0
1,2-Dichlorobenzene	12 U	0.48 U	0.48 U	0.48 U
1,2-Dichloroethane	8.1 U	0.32 U	0.32 U	0.32 U
1,3,5-Trimethylbenzene	9.8 U	0.39 U	40 J	0.42
1,4-Dichlorobenzene	12 U	0.48 U	0.48 U	0.48 U
2,2,4-Trimethylpentane	23 U	0.93 U	0.93 U	0.93 U
2-Butanone (MEK)	24 U	0.94 U	3.3 J	1.5
4-Methyl-2-pentanone (MIBK)	20 U	0.82 U	1.3 J	1.1
Benzene	6.4 U	1.6	0.68 J	0.26 U
Carbon tetrachloride	6.3 U	0.65	0.5 J	0.55
Chlorobenzene	9.2 U	0.37 U	0.37 U	0.37 U
Chloroethane	5.3 U	0.21 U	0.26 J	0.21 U
Chloroform	9.8 U	0.39 U	0.39 U	0.39 U
Chloromethane	10 U	1.3	0.41 U	0.41 U
cis-1,2-Dichloroethene	7.9 U	0.32 U	0.32 U	0.32 U
Cyclohexane	17 U	0.69 U	0.81 J	0.69 U
Dichlorodifluoromethane	44	3	3.1 J	2.6
Ethanol	180	20	6.8 J	3.6
Ethylbenzene	8.7 U	0.5	3.7 J	0.35 U
Methyl tert-butyl ether	14 U	0.58 U	0.58 U	0.58 U
Methylene chloride	17 U	2.1	0.69 U	0.69 U
m-Xylene & p-Xylene	19	1.4	17 J	0.67
n-Hexane	18 U	1.1	110 D	4.9
o-Xylene	8.7 U	0.49	26 J	0.35 U
Styrene	8.5 U	0.34 U	0.34 U	0.34 U
tert-Butyl alcohol	24 U	0.97 U	0.97 U	0.97 U
Tetrachloroethene	2300 D	0.54 U	50 D	320 D
Toluene	24	2.9	14 J	1.2
Trichloroethene	16	0.21 U	0.32 J	0.94
Trichlorofluoromethane	23	2.4	3.4 J	2.0

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	Waldbaums			
Sample ID	B01-IA2			
Matrix	Indoor Air			
Sample Date	9/22/11	1/5/12	3/28/12	12/12/12
1,1,1-Trichloroethane	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2-Trichlorotrifluoroethane	0.61 U	0.61 U	0.72	0.61 U
1,2,4-Trimethylbenzene	0.61	0.39 U	0.39 U	0.39 U
1,2-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.48 U
1,2-Dichloroethane	0.32 U	0.32 U	0.32 U	0.32 U
1,3,5-Trimethylbenzene	0.39 U	0.39 U	0.39 U	0.39 U
1,4-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.48 U
2,2,4-Trimethylpentane	0.93 U	0.93 U	0.93 U	0.93 U
2-Butanone (MEK)	2.3	0.94 U	1.9	0.96
4-Methyl-2-pentanone (MIBK)	0.82 U	0.82 U	0.82 U	0.82 U
Benzene	0.69	0.97	0.72	0.89
Carbon tetrachloride	0.51	0.48	0.69	0.63
Chlorobenzene	0.37 U	0.37 U	0.37 U	0.37 U
Chloroethane	0.42	0.21 U	0.21 U	0.21 U
Chloroform	0.39 U	0.39 U	0.39 U	0.39 U
Chloromethane	1.8	1.0	1.3	1.4
cis-1,2-Dichloroethene	0.32 U	0.32 U	0.32 U	0.32 U
Cyclohexane	0.69 U	0.69 U	0.69 U	0.69 U
Dichlorodifluoromethane	3.6	2.8	3.6	3.2
Ethanol	30	14	15	20
Ethylbenzene	0.94	0.35 U	0.35 U	0.35 U
Methyl tert-butyl ether	0.58 U	0.58 U	0.58 U	0.58 U
Methylene chloride	1.3	3.0	0.93	0.69 U
m-Xylene & p-Xylene	2.2	0.8	0.68	0.71
n-Hexane	0.7 U	0.93	0.7 U	0.7 U
o-Xylene	0.61	0.35 U	0.35 U	0.35 U
Styrene	0.82	0.34 U	0.34 U	0.34 U
tert-Butyl alcohol	0.97 U	0.97 U	0.97 U	0.97 U
Tetrachloroethene	1.2	0.54 U	0.54 U	0.54 U
Toluene	2.8	2.1	1.6	1.9
Trichloroethene	0.21 U	0.21 U	0.21 U	0.21 U
Trichlorofluoromethane	12	3.4	3.5	3.7

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	Waldbaums			
Sample ID	B01-SS2			
Matrix	Subslab			
Sample Date	9/22/11	1/5/12	3/28/12	12/12/12
1,1,1-Trichloroethane	2.2 U	0.44 U	0.44 U	0.44 U
1,1,2-Trichlorotrifluoroethane	3.1 U	0.61 U	0.64 J	0.61 U
1,2,4-Trimethylbenzene	15	7.5 J	10 J	1.1 J
1,2-Dichlorobenzene	2.4 U	0.48 U	0.48 U	0.48 U
1,2-Dichloroethane	1.6 U	0.32 U	0.32 U	0.32 U
1,3,5-Trimethylbenzene	3.6	4.3 J	6.4 J	1.1 J
1,4-Dichlorobenzene	2.4 U	0.48 U	0.48 U	0.48 U
2,2,4-Trimethylpentane	4.7 U	0.93 U	0.93 U	7.3 J
2-Butanone (MEK)	4.7 U	1.4 J	4.8 J	13 J
4-Methyl-2-pentanone (MIBK)	4.1 U	2.2 J	0.82 U	1.5 J
Benzene	1.3 U	3.4 J	0.26 U	0.42 J
Carbon tetrachloride	1.3 U	0.44 J	0.56 J	0.43 J
Chlorobenzene	1.8 U	0.37 U	0.37 U	0.37 U
Chloroethane	1.1 U	0.21 U	0.21 J	0.21 U
Chloroform	2 U	0.39 U	0.39 U	0.39 U
Chloromethane	2.1 U	0.72 J	0.41 U	1.1 J
cis-1,2-Dichloroethene	1.6 U	0.32 U	0.32 U	0.32 U
Cyclohexane	3.4 U	0.69 U	0.69 U	0.69 U
Dichlorodifluoromethane	5.0	2.5 J	3.5 J	2.7 J
Ethanol	7.5 U	10 J	5.3 J	10 J
Ethylbenzene	3.2	2.2 J	1.3 J	3.7 J
Methyl tert-butyl ether	2.9 U	0.58 U	0.58 U	0.58 U
Methylene chloride	3.5 U	0.84 J	0.69 U	0.69 U
m-Xylene & p-Xylene	15	9 J	3.1 J	11 J
n-Hexane	3.5 U	54 J	110 D	38 J
o-Xylene	5.3	5.6 J	3.3 J	3.2 J
Styrene	1.7 U	0.34 U	0.34 U	0.34 U
tert-Butyl alcohol	4.9 U	0.97 U	0.97 U	0.97 U
Tetrachloroethene	380	6.1 J	26 J	46 J
Toluene	7.4	16 J	1.9 J	6.1 J
Trichloroethene	1.1 U	0.21 U	0.21 U	0.21 U
Trichlorofluoromethane	13	3.2 J	4.7 J	3.1 J

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	Waldbaums			
Sample ID	B01-IA3			
Matrix	Indoor Air			
Sample Date	9/22/11	1/5/12	3/28/12	12/12/12
1,1,1-Trichloroethane	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2-Trichlorotrifluoroethane	0.61 U	0.61 U	0.62	0.61 U
1,2,4-Trimethylbenzene	0.64	0.39 U	0.39 U	0.39 U
1,2-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.48 U
1,2-Dichloroethane	0.32 U	0.32 U	0.32 U	0.32 U
1,3,5-Trimethylbenzene	0.39 U	0.39 U	0.39 U	0.39 U
1,4-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.48 U
2,2,4-Trimethylpentane	0.93 U	0.93 U	0.93 U	0.93 U
2-Butanone (MEK)	2.0	0.94 U	0.94 U	0.94 U
4-Methyl-2-pentanone (MIBK)	0.82 U	0.82 U	0.82 U	0.82 U
Benzene	0.69	0.88	0.54	0.8
Carbon tetrachloride	0.43	0.42	0.51	0.56
Chlorobenzene	0.37 U	0.37 U	0.37 U	0.37 U
Chloroethane	0.21 U	0.21 U	0.21 U	0.21 U
Chloroform	0.39 U	0.39 U	0.39 U	0.39 U
Chloromethane	0.87	0.98	1.1	1.2
cis-1,2-Dichloroethene	0.32 U	0.32 U	0.32 U	0.32 U
Cyclohexane	0.69 U	0.69 U	0.69 U	0.69 U
Dichlorodifluoromethane	3.8	2.6	3.0	2.9
Ethanol	38	16	10	11
Ethylbenzene	1.1	0.35 U	0.35 U	0.35
Methyl tert-butyl ether	0.58 U	0.58 U	0.58 U	0.58 U
Methylene chloride	4.8	3.7	0.83	0.69 U
m-Xylene & p-Xylene	2.8	0.88	0.58	1.2
n-Hexane	0.71	0.96	0.7 U	0.7 U
o-Xylene	0.83	0.35 U	0.35 U	0.44
Styrene	1	0.34 U	0.34 U	0.34 U
tert-Butyl alcohol	0.97 U	0.97 U	0.97 U	0.97 U
Tetrachloroethene	1.6	12	0.54 U	0.54 U
Toluene	3.4	2.1	1.3	2.8
Trichloroethene	0.21 U	0.21 U	0.21 U	0.21 U
Trichlorofluoromethane	14	3.2	3.1	3.5

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	Waldbaums			
Sample ID	B01-SS3			
Matrix	Subslab			
Sample Date	9/22/11	1/5/12	3/28/12	12/12/12
1,1,1-Trichloroethane	0.87 U	0.44 U	0.57	0.5 J
1,1,2-Trichlorotrifluoroethane	1.2 U	0.61 U	0.61 U	0.61 U
1,2,4-Trimethylbenzene	7.3	1.2	1.3	5.8 J
1,2-Dichlorobenzene	0.96 U	0.48 U	0.48 U	0.48 U
1,2-Dichloroethane	0.65 U	0.32 U	0.32 U	0.32 U
1,3,5-Trimethylbenzene	1.8	0.51	0.39 U	3.3 J
1,4-Dichlorobenzene	0.96 U	0.48 U	0.48 U	0.48 U
2,2,4-Trimethylpentane	1.9 U	0.93 U	0.93 U	0.93 U
2-Butanone (MEK)	2.7	1.2	1.3	2.3 J
4-Methyl-2-pentanone (MIBK)	1.6 U	0.82 U	0.82 U	0.89 J
Benzene	1.4	1.4	0.26 U	0.26 U
Carbon tetrachloride	0.5 U	0.28	0.25 U	0.25 U
Chlorobenzene	0.74 U	0.37 U	0.37 U	0.37 U
Chloroethane	0.42 U	0.21 U	0.21 U	0.21 U
Chloroform	0.78 U	0.39 U	0.39 U	0.39 U
Chloromethane	2.0	0.41 U	0.41 U	0.41 U
cis-1,2-Dichloroethene	0.63 U	0.32 U	0.32 U	0.32 U
Cyclohexane	1.4 U	0.69 U	0.69 U	0.69 U
Dichlorodifluoromethane	1.7	3.1	3.4	0.6 J
Ethanol	30	9.2	2.4	1.9 J
Ethylbenzene	3.4	1.6	0.52	0.45 J
Methyl tert-butyl ether	1.2 U	0.58 U	0.58 U	0.58 U
Methylene chloride	2.0	2.0	0.69 U	0.69 U
m-Xylene & p-Xylene	13	5.2	2.1	1.6 J
n-Hexane	1.4 U	1.3	0.7 U	79 J
o-Xylene	4.5	1.6	0.65	1.3 J
Styrene	0.78	0.34 U	0.34 U	0.34 U
tert-Butyl alcohol	1.9 U	0.97 U	0.97 U	0.97 U
Tetrachloroethene	13	7.2	37	59 J
Toluene	12	7.0	1.3	2.1 J
Trichloroethene	0.43 U	0.21 U	0.26	0.21 U
Trichlorofluoromethane	14	4.4	5.7	2.3 J

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	Best Choice Cards & Gifts				
Sample ID	B01-IA4			B01-SS4	
Matrix	Indoor Air			Subslab	
Sample Date	6/26/12	6/26/12 Duplicate	12/12/12	6/26/12	12/12/12
1,1,1-Trichloroethane	0.44 U	0.44 U	0.44 U	8.7 U	0.44 U
1,1,2-Trichlorotrifluoroethane	0.61 U	0.61 U	0.61 U	12 U	0.61
1,2,4-Trimethylbenzene	2.6 J	0.65 J	0.39 U	7.9 U	0.39 U
1,2-Dichlorobenzene	0.48 U	0.48 U	0.48 U	9.6 U	0.48 U
1,2-Dichloroethane	3.0	2.9	0.42	6.5 U	0.32 U
1,3,5-Trimethylbenzene	0.62	0.39 U	0.39 U	7.9 U	0.39 U
1,4-Dichlorobenzene	0.48 U	0.48 U	0.48 U	9.6 U	0.48 U
2,2,4-Trimethylpentane	0.93 U	0.93 U	0.93 U	19 U	0.93 U
2-Butanone (MEK)	2.3	2.1	0.94 U	19 U	0.96
4-Methyl-2-pentanone (MIBK)	0.82 U	0.82 U	0.82 U	16 U	0.82 U
Benzene	0.56	0.51	0.28	5.1 U	0.26
Carbon tetrachloride	0.56	0.6	0.42	5 U	0.52
Chlorobenzene	0.37 U	0.37 U	0.37 U	7.4 U	0.37 U
Chloroethane	0.21 U	0.21 U	0.21 U	4.2 U	0.21 U
Chloroform	0.39 U	0.39 U	2.2	7.8 U	0.41
Chloromethane	1.5	1.4	0.41 U	8.3 U	0.41 U
cis-1,2-Dichloroethene	0.32 U	0.32 U	0.32 U	6.3 U	0.32 U
Cyclohexane	0.69 U	0.69 U	0.69 U	14 U	0.69 U
Dichlorodifluoromethane	2.7	2.5	1.8	9.6	11
Ethanol	220 D	180 D	150 DJ	77	25
Ethylbenzene	1.1 J	2.1 J	0.35 U	6.9 U	0.35 U
Methyl tert-butyl ether	0.58 U	0.58 U	0.58 U	12 U	0.58 U
Methylene chloride	3.5 J	11 J	0.76	14 U	0.69 U
m-Xylene & p-Xylene	2.8	3.5	0.35 U	6.9 U	0.92
n-Hexane	0.7 UJ	2.2 J	0.7 U	14 U	0.7 U
o-Xylene	1.1	1.0	0.35 U	6.9 U	0.35 U
Styrene	0.34 UJ	1.1 J	0.34 U	6.8 U	0.34 U
tert-Butyl alcohol	0.97 U	0.97 U	0.97 U	22	0.97 U
Tetrachloroethene	0.62	0.78	0.54 U	1500	120 D
Toluene	5.8	5.8	0.4	6.0 U	1.8
Trichloroethene	0.21 U	0.21 U	0.21 U	19	1.6
Trichlorofluoromethane	2.4 J	4.5 J	1.5	32	33

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	New Lucky House Chinese Restaurant			
Sample ID	B01-IA5		B01-SS5	
Matrix	Indoor Air		Subslab	
Sample Date	6/26/12	12/12/12	6/26/12	12/12/12
1,1,1-Trichloroethane	0.44 U	0.44 U	35 U	0.44 U
1,1,2-Trichlorotrifluoroethane	0.61 U	0.61 U	49 U	0.61 U
1,2,4-Trimethylbenzene	0.39 U	0.39 U	31 U	0.39 U
1,2-Dichlorobenzene	0.48 U	0.48 U	38 U	0.48 U
1,2-Dichloroethane	0.32 U	0.32 U	26 U	0.32 U
1,3,5-Trimethylbenzene	0.39 U	0.39 U	31 U	0.39 U
1,4-Dichlorobenzene	0.48 U	0.48 U	38 U	0.48 U
2,2,4-Trimethylpentane	0.93 U	0.93 U	74 U	0.93 U
2-Butanone (MEK)	1.4	0.94 U	75 U	1
4-Methyl-2-pentanone (MIBK)	0.82 U	0.82 U	65 U	0.82 U
Benzene	0.49	0.95	20 U	0.26 U
Carbon tetrachloride	0.8	0.51	20 U	0.39
Chlorobenzene	0.37 U	0.37 U	29 U	0.37 U
Chloroethane	0.24	0.21 U	17 U	0.21 U
Chloroform	2	0.39 U	31 U	1.2
Chloromethane	3.1	1.3	33 U	0.41 U
cis-1,2-Dichloroethene	0.32 U	0.32 U	25 U	0.32 U
Cyclohexane	0.69 U	0.69 U	55 U	0.69 U
Dichlorodifluoromethane	2.3	2.4	31 U	2.7
Ethanol	250 D	100 DJ	120 U	7.7
Ethylbenzene	0.35 U	0.35 U	28 U	0.35 U
Methyl tert-butyl ether	0.58 U	0.58 U	46 U	0.58 U
Methylene chloride	1.5	0.69 U	55 U	0.69 U
m-Xylene & p-Xylene	0.65	0.59	28 U	1.1
n-Hexane	0.7 U	0.7 U	56 U	0.7 U
o-Xylene	0.35 U	0.35 U	28 U	0.35 U
Styrene	0.34 U	0.34 U	27 U	0.34 U
tert-Butyl alcohol	0.97 U	0.97 U	77 U	0.97 U
Tetrachloroethene	0.54 U	0.54 U	4700	220 D
Toluene	2.2	1.7	24 U	1.2
Trichloroethene	0.21 U	0.21 U	17 U	0.31
Trichlorofluoromethane	1.2	1.4	36 U	3.7

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	McDonalds			
Sample ID	B02-IA1			
Matrix	Indoor Air			
Sample Date	9/22/11	1/5/12	3/28/12	12/12/12
1,1,1-Trichloroethane	0.44 U	NA	0.44 U	0.44 U
1,1,2-Trichlorotrifluoroethane	0.61 U	NA	0.61 U	0.61 U
1,2,4-Trimethylbenzene	14	NA	0.77	0.39 U
1,2-Dichlorobenzene	0.48 U	NA	0.48 U	0.48 U
1,2-Dichloroethane	0.32 U	NA	0.32 U	0.32 U
1,3,5-Trimethylbenzene	3.7	NA	0.39 U	0.39 U
1,4-Dichlorobenzene	0.48 U	NA	0.48 U	0.48 U
2,2,4-Trimethylpentane	0.93 U	NA	0.93 U	0.93 U
2-Butanone (MEK)	5.7	NA	3.7	0.94 U
4-Methyl-2-pentanone (MIBK)	0.82 U	NA	0.82 U	0.82 U
Benzene	0.96	NA	0.59	0.26 U
Carbon tetrachloride	0.9	NA	0.61	0.25 U
Chlorobenzene	0.37 U	NA	0.37 U	0.37 U
Chloroethane	0.21 U	NA	0.21 U	0.21 U
Chloroform	10	NA	64	0.6
Chloromethane	1.1	NA	1.2	1.3
cis-1,2-Dichloroethene	0.32 U	NA	0.32 U	0.96
Cyclohexane	2.6	NA	0.69 U	0.69 U
Dichlorodifluoromethane	1.8	NA	2.4	2.3
Ethanol	470 D	NA	500 D	110
Ethylbenzene	2	NA	0.66	0.35 U
Methyl tert-butyl ether	0.58 U	NA	0.58 U	0.58 U
Methylene chloride	6.0	NA	0.69 U	2.6
m-Xylene & p-Xylene	5.7	NA	1.8	0.35 U
n-Hexane	1.4	NA	1.1	0.7 U
o-Xylene	3.0	NA	0.7	0.35 U
Styrene	3.7	NA	0.49	0.34 U
tert-Butyl alcohol	0.97 U	NA	0.97 U	0.97 U
Tetrachloroethene	0.54 U	NA	0.54 U	0.77
Toluene	14	NA	3.6	0.3 U
Trichloroethene	0.21 U	NA	0.21 U	7.4
Trichlorofluoromethane	31	NA	16	2.3

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	McDonalds			
Sample ID	B02-SS1			
Matrix	Subslab			
Sample Date	9/22/11	1/5/12	3/28/12	12/12/12
1,1,1-Trichloroethane	1.5 U	4.4 U	0.58	NC
1,1,2-Trichlorotrifluoroethane	2.0 U	6.1 U	0.62	NA
1,2,4-Trimethylbenzene	16	3.9 U	10	NA
1,2-Dichlorobenzene	1.6 U	4.8 U	0.48 U	NA
1,2-Dichloroethane	1.1 U	3.2 U	0.32 U	NA
1,3,5-Trimethylbenzene	3.8	3.9 U	2.6	NA
1,4-Dichlorobenzene	1.6 U	4.8 U	0.48 U	NA
2,2,4-Trimethylpentane	3.1 U	9.3 U	0.93 U	NA
2-Butanone (MEK)	3.1 U	9.4 U	1.8	NA
4-Methyl-2-pentanone (MIBK)	2.7 U	8.2 U	0.82 U	NA
Benzene	1.3	2.6 U	0.8	NA
Carbon tetrachloride	0.84 U	2.5 U	0.25 U	NA
Chlorobenzene	1.2 U	3.7 U	0.37 U	NA
Chloroethane	0.7 U	2.1 U	0.21 U	NA
Chloroform	20	9.4	22	NA
Chloromethane	1.4 U	4.1 U	0.56	NA
cis-1,2-Dichloroethene	1.1 U	3.2 U	0.32 U	NA
Cyclohexane	2.3 U	6.9 U	0.69 U	NA
Dichlorodifluoromethane	1.3 U	4.0 U	0.79	NA
Ethanol	58	22	21	NA
Ethylbenzene	4.6	3.5 U	2.9	NA
Methyl tert-butyl ether	1.9 U	5.8 U	0.58 U	NA
Methylene chloride	86	6.9 U	0.69 U	NA
m-Xylene & p-Xylene	21	12	14	NA
n-Hexane	4.3	7.0 U	1.1	NA
o-Xylene	7.2	3.5 U	5	NA
Styrene	1.1 U	3.4 U	0.34 U	NA
tert-Butyl alcohol	3.2 U	9.7 U	0.97 U	NA
Tetrachloroethene	31	18	39	NA
Toluene	14	8.7	7.6	NA
Trichloroethene	0.72 U	2.1 U	0.35	NA
Trichlorofluoromethane	16	34	19	NA

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	Garden Apartments Northern Building			
Sample ID	B03-IA1			
Matrix	Indoor Air			
Sample Date	9/22/11	1/5/12	3/29/12	12/20/12
1,1,1-Trichloroethane	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2-Trichlorotrifluoroethane	0.61 U	0.61 U	0.61 U	0.61 U
1,2,4-Trimethylbenzene	3.6	0.67	2.2	0.39 U
1,2-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.48 U
1,2-Dichloroethane	0.32 U	0.32 U	0.33	0.32 U
1,3,5-Trimethylbenzene	0.93	0.39 U	0.51	0.39 U
1,4-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.48 U
2,2,4-Trimethylpentane	1.5	0.93 U	0.95	0.93 U
2-Butanone (MEK)	5.6	2.0	5.1	2.9
4-Methyl-2-pentanone (MIBK)	0.82 U	0.82 U	0.82 U	0.82 U
Benzene	4.4	1.4	3.3	0.86
Carbon tetrachloride	0.75	0.58	0.64	0.55
Chlorobenzene	0.37 U	0.37 U	0.37 U	0.37 U
Chloroethane	0.21 U	0.21 U	0.21 U	0.21 U
Chloroform	0.39 U	0.39 U	0.39 U	0.39 U
Chloromethane	1.2	1.3	1.0	1.1
cis-1,2-Dichloroethene	0.32 U	0.32 U	0.32 U	0.32 U
Cyclohexane	2.7	0.82	2.5	0.69 U
Dichlorodifluoromethane	1.8	2.2	2.3	2.0
Ethanol	56	32	170 D	20
Ethylbenzene	2.9	0.8	2.0	0.35 U
Methyl tert-butyl ether	0.58 U	0.58 U	0.58 U	0.58 U
Methylene chloride	44	8.2	20	1.8
m-Xylene & p-Xylene	12	2.8	7.6	1.1
n-Hexane	8.6	3.2	9.8	2.0
o-Xylene	3.5	0.87	2.3	0.35 U
Styrene	0.67	0.34 U	0.34 U	0.34 U
tert-Butyl alcohol	0.97 U	0.97 U	0.97 U	0.97 U
Tetrachloroethene	0.9	0.65	0.78	0.66
Toluene	17	3.2	14	1.6
Trichloroethene	0.21 U	0.21 U	0.21 U	0.21 U
Trichlorofluoromethane	1.1	1.2	1.3	1.1

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	Garden Apartments Northern Building			
Sample ID	B03-SS1			
Matrix	Subslab			
Sample Date	9/22/11	1/5/12	3/29/12	12/20/12
1,1,1-Trichloroethane	2.2 U	0.5 U	0.44 U	4.4 U
1,1,2-Trichlorotrifluoroethane	3.1 U	0.7 U	0.61 U	6.1 U
1,2,4-Trimethylbenzene	13	0.45	7.2	210
1,2-Dichlorobenzene	2.4 U	0.55 U	0.48 U	4.8 U
1,2-Dichloroethane	1.6 U	0.37 U	0.32 U	3.2 U
1,3,5-Trimethylbenzene	2.6	0.45 U	2.0	86
1,4-Dichlorobenzene	2.4 U	0.55 U	0.48 U	4.8 U
2,2,4-Trimethylpentane	4.7 U	1.3	1.9	9.3 U
2-Butanone (MEK)	4.9	1.4	4.5	9.4 U
4-Methyl-2-pentanone (MIBK)	4.1 U	0.93 U	0.82 U	8.2 U
Benzene	3.4	1.7	3.8	2.6 U
Carbon tetrachloride	1.3 U	0.38	0.61	2.5 U
Chlorobenzene	1.8 U	0.42 U	0.37 U	14
Chloroethane	1.1 U	0.24 U	0.21 U	2.1 U
Chloroform	2.0 U	0.45 U	0.39 U	3.9 U
Chloromethane	2.1 U	1.1	1.5	4.1 U
cis-1,2-Dichloroethene	1.6 U	0.36 U	0.32 U	3.2 U
Cyclohexane	3.4 U	0.89	2.4	6.9 U
Dichlorodifluoromethane	2.0 U	1.7	2.5	4.0 U
Ethanol	49	2.8	47	15 U
Ethylbenzene	3.7	0.86	3.8	7.3
Methyl tert-butyl ether	2.9 U	0.66 U	0.58 U	5.8 U
Methylene chloride	26	3.7	16	6.9 U
m-Xylene & p-Xylene	15	2.3	16	25
n-Hexane	5.5	4.7	8.9	63
o-Xylene	5.3	0.57	5.2	23
Styrene	1.7 U	0.39 U	0.34 U	3.4 U
tert-Butyl alcohol	4.9 U	1.1 U	1.9	9.7 U
Tetrachloroethene	340	26	2.0	110
Toluene	16	5.7	17	6.7
Trichloroethene	1.1 U	0.25 U	0.21 U	2.1 U
Trichlorofluoromethane	2.2 U	1.1	1.5	4.5 U

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	Garden Apartments Northern Building				
Sample ID	B03-CS2				
Matrix	Crawl Space				
Sample Date	9/22/11	1/5/12	3/29/12	12/20/12	12/20/12 Duplicate
1,1,1-Trichloroethane	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2-Trichlorotrifluoroethane	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
1,2,4-Trimethylbenzene	2.1	0.39 U	1.3	0.39 U	0.39 U
1,2-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
1,2-Dichloroethane	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,3,5-Trimethylbenzene	0.67	0.39 U	0.39 U	0.39 U	0.39 U
1,4-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
2,2,4-Trimethylpentane	1.5	0.93 U	0.93 U	0.93 U	0.93 U
2-Butanone (MEK)	5.4	0.94 U	3.4	0.94 UJ	1.0 J
4-Methyl-2-pentanone (MIBK)	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Benzene	3.7	0.26 U	2.1	0.56 J	0.38 J
Carbon tetrachloride	0.71	0.25 U	0.56	0.44	0.33
Chlorobenzene	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Chloroethane	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Chloroform	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Chloromethane	1.1	1.2	1.1	0.74	0.94
cis-1,2-Dichloroethene	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Cyclohexane	2.1	0.69 U	1.2	0.69 U	0.69 U
Dichlorodifluoromethane	1.9	2.3	2.2	1.7	1.9
Ethanol	110	22	100	13	10
Ethylbenzene	2.6	0.35 U	1.2	0.35 U	0.35 U
Methyl tert-butyl ether	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U
Methylene chloride	38	4.9	13	0.69 UJ	0.9 J
m-Xylene & p-Xylene	10	0.35 U	4.4	0.8 J	0.35 UJ
n-Hexane	6.6	0.98	4.9	0.7 U	0.7 U
o-Xylene	2.9	0.35 U	1.3	0.35 U	0.35 U
Styrene	0.39	0.34 U	0.34 U	0.34 U	0.34 U
tert-Butyl alcohol	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U
Tetrachloroethene	0.9	0.54 U	0.66	0.54 U	0.54 U
Toluene	16	0.3 U	6.8	1.2 J	0.74 J
Trichloroethene	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Trichlorofluoromethane	1.1	1.1	1.4	0.96	0.96

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	Garden Apartments Northern Building			
Sample ID	B03-SS2			
Matrix	Subslab			
Sample Date	9/22/11	1/5/12	3/29/12	12/20/12
1,1,1-Trichloroethane	1.1 U	0.44 U	0.44 U	0.44 U
1,1,2-Trichlorotrifluoroethane	1.5 U	0.61 U	0.61 U	0.61 U
1,2,4-Trimethylbenzene	20	11	4.8	0.48
1,2-Dichlorobenzene	1.2 U	0.48 U	0.48 U	0.48 U
1,2-Dichloroethane	0.81 U	0.32 U	0.32 U	0.32 U
1,3,5-Trimethylbenzene	5.2	2.6	1.8	0.39 U
1,4-Dichlorobenzene	1.2 U	0.48 U	0.48 U	0.48 U
2,2,4-Trimethylpentane	2.3 U	0.93 U	0.93 U	0.93 U
2-Butanone (MEK)	4.7	0.94 U	1.2	0.96
4-Methyl-2-pentanone (MIBK)	2 U	0.82 U	0.82 U	0.82 U
Benzene	2.3	1.8	1.2	0.26 U
Carbon tetrachloride	0.63 U	2.8	0.5	0.37
Chlorobenzene	0.92 U	0.37 U	0.37 U	0.37 U
Chloroethane	0.53 U	0.21 U	0.21 U	0.21 U
Chloroform	0.98 U	0.95	0.39 U	0.39 U
Chloromethane	1 U	0.41 U	0.41 U	0.46
cis-1,2-Dichloroethene	0.79 U	0.32 U	0.32 U	0.32 U
Cyclohexane	1.7 U	0.69 U	0.69 U	0.69 U
Dichlorodifluoromethane	2.2	1.9	2.3	2
Ethanol	18	5.7	24	5.9
Ethylbenzene	7.6	7.5	2.8	0.35 U
Methyl tert-butyl ether	1.4 U	0.58 U	0.58 U	0.58 U
Methylene chloride	9.9	1.8	7.4	0.81
m-Xylene & p-Xylene	33	32	12	0.41
n-Hexane	2.3	2.7	2.8	0.7 U
o-Xylene	12	9.1	3.8	0.35 U
Styrene	0.85 U	0.34 U	0.34 U	0.34 U
tert-Butyl alcohol	2.4 U	0.97 U	0.97 U	0.97 U
Tetrachloroethene	44	43	31	78
Toluene	26	20	11	0.61
Trichloroethene	0.54 U	0.44	0.21 U	0.21 U
Trichlorofluoromethane	1.3	1.5	2.1	1.1

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	Garden Apartments Western Building			
Sample ID	B03-CS3			
Matrix	Crawl Space			
Sample Date	9/22/11	1/5/12	3/29/12	12/20/12
1,1,1-Trichloroethane	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2-Trichlorotrifluoroethane	0.61 U	0.61 U	0.61 U	0.61 U
1,2,4-Trimethylbenzene	0.39 U	0.39 U	0.39 U	0.39 U
1,2-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.48 U
1,2-Dichloroethane	0.32 U	0.32 U	0.32 U	0.32 U
1,3,5-Trimethylbenzene	0.39 U	0.39 U	0.39 U	0.39 U
1,4-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.48 U
2,2,4-Trimethylpentane	0.93 U	0.93 U	0.93 U	0.93 U
2-Butanone (MEK)	1.5	0.94 U	1.3	0.94 U
4-Methyl-2-pentanone (MIBK)	0.82 U	0.82 U	0.82 U	0.82 U
Benzene	0.98	0.91	0.63	0.56
Carbon tetrachloride	0.57	0.45	0.45	0.55
Chlorobenzene	0.37 U	0.37 U	0.37 U	0.37 U
Chloroethane	0.21 U	0.21 U	0.21 U	0.21 U
Chloroform	0.39 U	0.39 U	0.39 U	0.39 U
Chloromethane	1.1	0.96	1.3	0.97
cis-1,2-Dichloroethene	0.32 U	0.32 U	0.32 U	0.32 U
Cyclohexane	0.69 U	0.69 U	0.69 U	0.69 U
Dichlorodifluoromethane	2.1	2.1	2.4	2.7
Ethanol	100	29	86	24
Ethylbenzene	0.67	0.35 U	0.35 U	0.35 U
Methyl tert-butyl ether	0.58 U	0.58 U	0.58 U	0.58 U
Methylene chloride	3	3.4	0.84	1.1
m-Xylene & p-Xylene	1.6	0.84	0.8	0.71
n-Hexane	1.0	1.2	0.7 U	0.7 U
o-Xylene	0.46	0.35 U	0.35 U	0.35 U
Styrene	0.34 U	0.34 U	0.34 U	0.34 U
tert-Butyl alcohol	0.97 U	0.97 U	0.97 U	0.97 U
Tetrachloroethene	2.8	0.54 U	0.54 U	0.54 U
Toluene	4.2	1.6	2.9	1.1
Trichloroethene	0.21 U	0.21 U	0.21 U	0.21 U
Trichlorofluoromethane	1.6	1.2	1.4	1.3

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	Garden Apartments Western Building			
Sample ID	B03-IA3			
Matrix	Indoor Air			
Sample Date	9/22/11	1/5/12	3/29/12	12/20/12
1,1,1-Trichloroethane	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2-Trichlorotrifluoroethane	0.61 U	0.61 U	0.61 U	0.61 U
1,2,4-Trimethylbenzene	0.73	0.39 U	0.39 U	0.39 U
1,2-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.7
1,2-Dichloroethane	0.32 U	0.32 U	0.35	0.32 U
1,3,5-Trimethylbenzene	0.39 U	0.39 U	0.39 U	0.39 U
1,4-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.48 U
2,2,4-Trimethylpentane	0.93 U	0.93 U	0.93 U	0.93 U
2-Butanone (MEK)	4.1	0.94 U	1.6	0.94 U
4-Methyl-2-pentanone (MIBK)	0.82 U	0.82 U	0.82 U	0.82 U
Benzene	0.94	0.94	0.7	0.47
Carbon tetrachloride	0.53	0.44	0.49	0.46
Chlorobenzene	0.37 U	0.37 U	0.37 U	0.37 U
Chloroethane	0.21 U	0.21 U	0.21 U	0.21 U
Chloroform	0.39 U	0.39 U	0.39 U	0.39 U
Chloromethane	1.7	1.0	1.4	0.92
cis-1,2-Dichloroethene	0.32 U	0.32 U	0.32 U	0.32 U
Cyclohexane	0.69 U	0.69 U	0.69 U	0.69 U
Dichlorodifluoromethane	2.0	2.1	2.2	3.2
Ethanol	160	32	120	28
Ethylbenzene	0.79	0.35 U	0.4	0.35 U
Methyl tert-butyl ether	0.58 U	0.58 U	0.58 U	0.58 U
Methylene chloride	2.5	2.7	1.2	0.69 U
m-Xylene & p-Xylene	2.6	0.79	1.1	0.6
n-Hexane	0.99	1	0.88	0.7 U
o-Xylene	0.89	0.35 U	0.4	0.35 U
Styrene	0.34 U	0.34 U	0.34 U	0.34 U
tert-Butyl alcohol	0.97 U	0.97 U	0.97 U	0.97 U
Tetrachloroethene	0.54 U	0.68	0.54 U	0.54 U
Toluene	5.1	1.8	12	0.99
Trichloroethene	0.21 U	0.21 U	0.21 U	1.9
Trichlorofluoromethane	1.3	1.2	1.8	1.1

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	Garden Apartments Eastern Building				
Sample ID	B03-CS4				
Matrix	Crawl Space				
Sample Date	9/22/11	9/22/11 Duplicate	1/5/12	3/29/12	12/20/12
1,1,1-Trichloroethane	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2-Trichlorotrifluoroethane	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
1,2,4-Trimethylbenzene	0.66	0.59	20	0.42	0.39 U
1,2-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
1,2-Dichloroethane	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,3,5-Trimethylbenzene	0.39 U	0.39 U	9.6	0.39 U	0.39 U
1,4-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
2,2,4-Trimethylpentane	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
2-Butanone (MEK)	2.4	2.8	3.7	1.8	0.94 U
4-Methyl-2-pentanone (MIBK)	0.82 U	0.82 U	0.82 U	0.82 U	1.1
Benzene	0.65	0.6	0.95	0.77	0.53
Carbon tetrachloride	0.47	0.44	0.44	0.49	0.5
Chlorobenzene	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Chloroethane	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Chloroform	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Chloromethane	0.76	0.92	0.93	1.1	0.85
cis-1,2-Dichloroethene	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Cyclohexane	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Dichlorodifluoromethane	2.1	2.1	2.2	2.3	2.5
Ethanol	15	12	28	150	29
Ethylbenzene	0.62	0.54	17	0.35 U	0.35 U
Methyl tert-butyl ether	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U
Methylene chloride	1.3 J	2.2 J	2.3	0.69 U	2.6
m-Xylene & p-Xylene	1.9	1.7	60	1.0	0.79
n-Hexane	0.95	0.93	0.92	1.0	0.86
o-Xylene	0.68	0.62	14	0.36	0.35 U
Styrene	0.35	0.34 U	0.34 U	0.34 U	0.34 U
tert-Butyl alcohol	1.3	0.97 U	0.97 U	0.97 U	0.97 U
Tetrachloroethene	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
Toluene	4.7	3.9	4.8	2.8	1.5
Trichloroethene	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Trichlorofluoromethane	1.2	1.2	1.2	1.2	1.3

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	Garden Apartments Eastern Building			
Sample ID	B03-IA4			
Matrix	Indoor Air			
Sample Date	9/22/11	1/5/12	3/29/12	12/20/12
1,1,1-Trichloroethane	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2-Trichlorotrifluoroethane	0.61 U	0.61 U	0.61 U	0.61 U
1,2,4-Trimethylbenzene	0.39 U	15	0.42	0.39 U
1,2-Dichlorobenzene	0.48 U	0.48 U	1.3	0.48 U
1,2-Dichloroethane	0.32 U	0.32 U	0.32 U	0.32 U
1,3,5-Trimethylbenzene	0.39 U	6.5	0.39 U	0.39 U
1,4-Dichlorobenzene	0.48 U	0.48 U	1.1	0.48 U
2,2,4-Trimethylpentane	0.93 U	0.93 U	0.93 U	0.93 U
2-Butanone (MEK)	1.9	2.0	2.0	0.94 U
4-Methyl-2-pentanone (MIBK)	0.82 U	0.82 U	0.82 U	0.82 U
Benzene	0.43	0.93	0.64	0.42
Carbon tetrachloride	0.44	0.43	0.46	0.44
Chlorobenzene	0.37 U	U	0.42	0.37 U
Chloroethane	0.21 U	0.21 U	0.21 U	0.21 U
Chloroform	0.39 U	0.39 U	0.39 U	0.39 U
Chloromethane	0.87	0.75	1.1	0.81
cis-1,2-Dichloroethene	0.32 U	0.32 U	0.32 U	0.32 U
Cyclohexane	0.69 U	0.69 U	0.69 U	0.69 U
Dichlorodifluoromethane	2.1	2.0	2.5	2.2
Ethanol	99	43	120	30
Ethylbenzene	0.35 U	11	0.35 U	0.35 U
Methyl tert-butyl ether	0.58 U	0.58 U	0.58 U	0.58 U
Methylene chloride	6.6	2.4	0.69 U	0.78
m-Xylene & p-Xylene	0.35 U	38	0.53	0.41
n-Hexane	0.82	0.87	0.84	0.7 U
o-Xylene	0.35 U	8.7	0.35 U	0.35 U
Styrene	0.34 U	0.34 U	0.34 U	0.34 U
tert-Butyl alcohol	0.97 U	0.97 U	0.97 U	0.97 U
Tetrachloroethene	0.54 U	0.54 U	1.4	0.54 U
Toluene	4.1	3.9	4.0	0.65
Trichloroethene	0.21 U	0.21 U	0.21 U	0.21 U
Trichlorofluoromethane	1.5	1.1	1.3	1.1

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	Milestone Apartments			
Sample ID	B04-SV1			
Matrix	Soil Vapor			
Sample Date	9/22/11	1/5/12	3/28/12	12/12/12
1,1,1-Trichloroethane	0.44 U	0.82	1.7	1.7
1,1,2-Trichlorotrifluoroethane	0.61 U	0.61 U	0.61 U	0.61 U
1,2,4-Trimethylbenzene	4.5	2.8	0.39 U	0.39 U
1,2-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.48 U
1,2-Dichloroethane	0.32 U	0.32 U	2.5	0.32 U
1,3,5-Trimethylbenzene	1.2	0.65	0.39 U	0.39 U
1,4-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.48 U
2,2,4-Trimethylpentane	2.4	0.93 U	0.93 U	0.93 U
2-Butanone (MEK)	11	3.1	1.8	1.1
4-Methyl-2-pentanone (MIBK)	0.82 U	0.82 U	0.82 U	0.82 U
Benzene	1.9	1.3	0.26 U	0.26 U
Carbon tetrachloride	0.5	0.31	0.25 U	0.25 U
Chlorobenzene	0.37 U	U	0.37 U	0.37 U
Chloroethane	0.21 U	0.21 U	0.21 U	0.21 U
Chloroform	0.39 U	0.78	0.66	0.39 U
Chloromethane	1.2	0.46	0.41 U	0.41 U
cis-1,2-Dichloroethene	0.32 U	0.32 U	0.32 U	0.32 U
Cyclohexane	1.2	0.69 U	0.69 U	0.69 U
Dichlorodifluoromethane	0.4 U	0.61	0.85	0.6
Ethanol	120	38	2.3	1.6
Ethylbenzene	2.3	3.2	0.35 U	0.35 U
Methyl tert-butyl ether	0.58 U	0.58 U	0.69	0.58 U
Methylene chloride	2.4	3.8	7.0	0.69 U
m-Xylene & p-Xylene	8.7	12	1.5	0.61
n-Hexane	1.9	1.4	2.1	0.7 U
o-Xylene	3.1	3.2	1.6	0.35 U
Styrene	0.34 U	0.34 U	0.34 U	0.34 U
tert-Butyl alcohol	1.6	0.97 U	0.97 U	0.97 U
Tetrachloroethene	2.1	5.1	34	110
Toluene	10	9.6	2.1	1.1
Trichloroethene	0.21 U	0.21 U	0.21 U	0.21 U
Trichlorofluoromethane	1.3	1.1	2.4	1.1

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	Milestone Apartments				
Sample ID	B04-SV2				
Matrix	Soil Vapor				
Sample Date	9/22/11	1/5/12	3/28/12	6/26/12	12/12/12
1,1,1-Trichloroethane	66	1200 U	81 U	53	25
1,1,2-Trichlorotrifluoroethane	3.8 U	1700 U	110 U	47 U	1.5 U
1,2,4-Trimethylbenzene	2.5 U	1100 U	73 U	30 U	0.98 U
1,2-Dichlorobenzene	3.0 U	1300 U	89 U	37 U	1.2 U
1,2-Dichloroethane	2.0 U	890 U	60 U	25 U	0.81 U
1,3,5-Trimethylbenzene	2.5 U	1100 U	73 U	30 U	0.98 U
1,4-Dichlorobenzene	3.0 U	1300 U	89 U	37 U	1.2 U
2,2,4-Trimethylpentane	5.8 U	18000	3600	71 U	2.3 U
2-Butanone (MEK)	32	2600 U	180 U	72 U	2.4 U
4-Methyl-2-pentanone (MIBK)	5.1 U	2300 U	150 UJ	63 U	2 U
Benzene	3.5	700 U	47 U	20 U	0.64 U
Carbon tetrachloride	1.6 U	690 U	47 U	19 U	0.63 U
Chlorobenzene	2.3 U	1000 U	68 U	28 U	0.92 U
Chloroethane	1.3 U	580 U	39 U	16 U	0.53 U
Chloroform	2.4 U	1100 U	72 U	30 U	0.98 U
Chloromethane	2.7	1100 U	77 U	32 U	1 U
cis-1,2-Dichloroethene	2 U	870 U	59 U	24 U	0.79 U
Cyclohexane	4.3 U	11000	370	53 U	1.7 U
Dichlorodifluoromethane	2.5 U	1100 U	73 U	30 U	0.99 U
Ethanol	710	4100 U	280 U	120 U	3.8 U
Ethylbenzene	2.2 U	960 U	64 U	27 U	0.87 U
Methyl tert-butyl ether	3.6 U	1600 U	110 U	44 U	1.4 U
Methylene chloride	5.1	1900 U	130 U	53 U	1.7 U
m-Xylene & p-Xylene	2.2 U	960 U	64 U	27 U	0.96
n-Hexane	4.4 U	50000	320	54 U	1.8 U
o-Xylene	2.2 U	960 U	64 U	27 U	0.87 U
Styrene	2.1 U	940 U	63 U	26 U	0.85 U
tert-Butyl alcohol	6.7	2700 U	180 U	74 U	2.4 U
Tetrachloroethene	550 D	1500 U	3200	4000	1800 D
Toluene	6.7	830 U	56 U	100	3.8
Trichloroethene	36	590 U	40 U	79	15
Trichlorofluoromethane	2.8 U	1200 U	83 U	34 U	1.1 U

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

TABLE 2
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF VOCs IN SOIL VAPOR, SUBSLAB AND INDOOR AIR, DETECTIONS ONLY

Location	Outdoor Air					
Sample ID	OA-1					
Matrix	Outdoor Air					
Sample Date	9/22/11	1/5/12	3/29/12	6/26/12	12/12/12	12/20/12
1,1,1-Trichloroethane	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2-Trichlorotrifluoroethane	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
1,2,4-Trimethylbenzene	0.41	0.39 U	0.44	0.61	0.39 U	0.39 U
1,2-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
1,2-Dichloroethane	0.51	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,3,5-Trimethylbenzene	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1,4-Dichlorobenzene	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
2,2,4-Trimethylpentane	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
2-Butanone (MEK)	1.4	0.94 U	1.4	1.9	0.94 U	0.94 U
4-Methyl-2-pentanone (MIBK)	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	1.3
Benzene	0.53	0.76	0.61	0.39	0.53	0.42
Carbon tetrachloride	0.48	0.4	0.41	0.53	0.43	0.54
Chlorobenzene	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Chloroethane	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Chloroform	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Chloromethane	1.2	0.89	1.1	1.2	1.0	0.88
cis-1,2-Dichloroethene	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Cyclohexane	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Dichlorodifluoromethane	2.0	2.0	2.4	2.7	2.3	2.4
Ethanol	12	12	18	12	9.1	4.9
Ethylbenzene	0.39	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Methyl tert-butyl ether	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U
Methylene chloride	2.9	1.8	0.69 U	14	0.69 U	0.69 U
m-Xylene & p-Xylene	1.3	0.63	0.99	1.1	0.46	0.35 U
n-Hexane	0.83	0.71	0.7 U	2.5	0.7 U	0.7 U
o-Xylene	0.46	0.35 U	0.35 U	0.44	0.35 U	0.35 U
Styrene	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
tert-Butyl alcohol	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U
Tetrachloroethene	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
Toluene	2.1	1.2	1.4	4.9	1.4	0.52
Trichloroethene	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Trichlorofluoromethane	1.3	1.1	1.3	2.5	1.1	1.2

Notes:
All concentrations in µg/m^3
U - Not Detected
J - Estimated value
NA - Not analyzed, summa canister malfunction

Table 3

Farmingdale Plaza Cleaners, 450 Main Street, Farmingdale, NY, Site # 1-30-107

Vapor Phase Recovery - Select Contaminants for SVE-1 Influent

ENVIRONMENTAL ASSESSMENT REMEDIATION

Date	Flow Rate	Tetrachloroethene Recovery Rate				Trichloroethene Recovery Rate				1,2-Dichloroethene Recovery Rate				1,2-Dichloroethane Recovery Rate				Total BTEX Recovery Rate				Total VOC Recovery Rate			
		PCE			Cumulative	TCE			Cumulative	1,2-DCE			Cumulative	1,2-DCA			Cumulative	Total BTEX			Cumulative	Total VOC			Cumulative
	(CFM)	(ug/M3)	(lbs/hr)	(lbs/day)	(lbs)	(ug/M3)	(lbs/hr)	(lbs/day)	(lbs)	(ug/M3)	(lbs/hr)	(lbs/day)	(lbs)	(ug/M3)	(lbs/hr)	(lbs/day)	(lbs)	(ug/M3)	(lbs/hr)	(lbs/day)	(lbs)	(ug/M3)	(lbs/hr)	(lbs/day)	(lbs)
12/07/11	133.0	1,200	0.00060	0.014	0.000	99	0.00005	0.001	0.000	56	0.00003	0.001	0.000	<8.1	0.00000	0.000	0.000	<40	0.00000	0.000	0.000	1,690	0.00084	0.020	0.000
12/14/11	131.0	590	0.00029	0.007	0.049	41	0.00002	0.000	0.003	50	0.00002	0.001	0.004	<6.2	0.00000	0.000	0.000	<30.8	0.00000	0.000	0.000	948	0.00047	0.011	0.078
12/28/11	150.0	600	0.00034	0.008	0.162	63	0.00004	0.001	0.015	79	0.00004	0.001	0.019	<1.6	0.00000	0.000	0.000	7.1	0.00000	0.000	0.001	1,153	0.00065	0.016	0.296
01/12/12	161.0	530	0.00032	0.008	0.277	53	0.00003	0.001	0.027	75	0.00005	0.001	0.035	<3.2	0.00000	0.000	0.000	<16.1	0.00000	0.000	0.001	972	0.00059	0.014	0.507
01/24/12	161.0	430	0.00026	0.006	0.352	45	0.00003	0.001	0.035	57	0.00003	0.001	0.045	<3.2	0.00000	0.000	0.000	<16.1	0.00000	0.000	0.001	681	0.00041	0.010	0.625
02/09/12	148.0	470	0.00026	0.006	0.452	43	0.00002	0.001	0.044	52	0.00003	0.001	0.056	<3.2	0.00000	0.000	0.000	<16.1	0.00000	0.000	0.001	589	0.00033	0.008	0.751
02/24/12	153.0	580	0.00033	0.008	0.572	58	0.00003	0.001	0.056	61	0.00003	0.001	0.069	<3.2	0.00000	0.000	0.000	<16.1	0.00000	0.000	0.001	760	0.00044	0.010	0.908
03/09/12	165.0	400	0.00025	0.006	0.655	37	0.00002	0.001	0.063	49	0.00003	0.001	0.079	<3.2	0.00000	0.000	0.000	<16.1	0.00000	0.000	0.001	3,654	0.00226	0.054	1.667
03/21/12	165.0	540	0.00033	0.008	0.751	36	0.00002	0.001	0.070	44	0.00003	0.001	0.087	<3.2	0.00000	0.000	0.000	<16.1	0.00000	0.000	0.001	750	0.00046	0.011	1.800
04/05/12	157.0	490	0.00029	0.007	0.855	38	0.00002	0.001	0.078	42	0.00002	0.001	0.096	<3.2	0.00000	0.000	0.000	<16.1	0.00000	0.000	0.001	2,966	0.00174	0.042	2.428
04/20/12	148.0	990	0.00055	0.013	1.052	67	0.00004	0.001	0.091	66	0.00004	0.001	0.109	<3.2	0.00000	0.000	0.000	<16.1	0.00000	0.000	0.001	1,545	0.00086	0.021	2.737
10/04/12	136.0	1,100	0.00056	0.013	1.052	15	0.00001	0.000	0.091	<32	0.00000	0.000	0.109	<16	0.00000	0.000	0.000	<79	0.00000	0.000	0.001	1,184	0.00060	0.014	2.737
10/16/12	142.0	1,100	0.00059	0.014	1.221	95	0.00005	0.001	0.106	100	0.00005	0.001	0.124	<1.6	0.00000	0.000	0.000	29.0	0.00002	0.000	0.005	1,423	0.00076	0.018	2.955
11/07/12	167.0	560	0.00035	0.008	1.406	49	0.00003	0.001	0.122	63	0.00004	0.001	0.145	<1.6	0.00000	0.000	0.000	34	0.00002	0.001	0.017	756	0.00047	0.011	3.205
11/20/12	157.0	360	0.00021	0.005	1.472	39	0.00002	0.001	0.129	49	0.00003	0.001	0.154	<1.6	0.00000	0.000	0.000	<7.9	0.00000	0.000	0.017	453	0.00027	0.006	3.288
01/04/13	137.0	250	0.00013	0.003	1.610	33	0.00002	0.000	0.147	52	0.00003	0.001	0.183	<0.65	0.00000	0.000	0.000	<3.18	0.00000	0.000	0.017	351	0.00018	0.004	3.482
02/14/13	139.0	180	0.00009	0.002	1.702	20	0.00001	0.000	0.157	27	0.00001	0.000	0.197	<1.1	0.00000	0.000	0.000	6.5	0.00000	0.000	0.020	348	0.00018	0.004	3.661
AVERAGE:	**150.0**		**0.008**	**0.001**				**0.001**				**0.000**				**0.000**				**0.016**			

Notes:
- Concentrations reported by laboratory in ug/M3. Concentrations calculated by lab using the formula: Concentration in ug/M3 = Amount found (before rounding) x (molecular weight/24.45)
- lbs/hr = (CFM x 60) x (concentration x 0.000001 x 0.02832 x 0.002205)
- 1,2-DCE value = reported c-1,2-DCE concentration + t-1,2-DCE concentration
- System shut down on May 11, 2012
- System restarted October 4, 2012
- System off December 5-24, 2012 to accommodate soil vapor intrusion sampling
- Table was provided by Environment Resources and Assessment
- Analyses performed by Test America, Inc. (EPA Method TO-15)

Table 4

Farmingdale Plaza Cleaners, 450 Main Street, Farmingdale, NY, Site # 1-30-107

Vapor Phase Recovery - Select Contaminants for SVE-5 Influent

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Date	Flow Rate	Tetrachloroethene Recovery Rate				Trichloroethene Recovery Rate				1,2-Dichloroethene Recovery Rate				1,2-Dichloroethane Recovery Rate				Total BTEX Recovery Rate				Total VOC Recovery Rate			
		PCE			Cumulative	TCE			Cumulative	1,2-DCE			Cumulative	1,2-DCA			Cumulative	Total BTEX			Cumulative	Total VOC			Cumulative
	(CFM)	(ug/M3)	(lbs/hr)	(lbs/day)	(lbs)	(ug/M3)	(lbs/hr)	(lbs/day)	(lbs)	(ug/M3)	(lbs/hr)	(lbs/day)	(lbs)	(ug/M3)	(lbs/hr)	(lbs/day)	(lbs)	(ug/M3)	(lbs/hr)	(lbs/day)	(lbs)	(ug/M3)	(lbs/hr)	(lbs/day)	(lbs)
11/01/11	180	35,000	0.02354	0.565	0.000	<220	0.00000	0.000	0.000	<640	0.0000	0.000	0.000	<330	0.00000	0.000	0.000	<1610	0.00000	0.000	0.000	39,370	0.026	0.635	0.000
11/02/11	194	13,000	0.00944	0.227	0.565	61	0.00004	0.001	0.000	<92	0.0000	0.000	0.000	<47	0.00000	0.000	0.000	<230	0.00000	0.000	0.000	13,401	0.010	0.234	0.635
11/03/11	179	7,900	0.00531	0.127	0.792	58	0.00004	0.001	0.001	<106	0.0000	0.000	0.000	<54	0.00000	0.000	0.000	<267	0.00000	0.000	0.000	8,188	0.006	0.132	0.869
11/07/11	194	4,400	0.00320	0.077	1.302	74	0.00005	0.001	0.005	57	0.0000	0.001	0.000	<8.1	0.00000	0.000	0.000	<40	0.00000	0.000	0.000	4,806	0.003	0.084	1.398
11/08/11	194	3,900	0.00284	0.068	1.378	67	0.00005	0.001	0.006	62	0.0000	0.001	0.001	<28	0.00000	0.000	0.000	<138	0.00000	0.000	0.000	4,259	0.003	0.074	1.482
11/09/11	194	4,300	0.00313	0.075	1.447	97	0.00007	0.002	0.007	77	0.0001	0.001	0.002	<16	0.00000	0.000	0.000	<79	0.00000	0.000	0.000	5,005	0.004	0.087	1.556
11/10/11	180	5,100	0.00343	0.082	1.522	89	0.00006	0.001	0.009	69	0.0000	0.001	0.003	<51	0.00000	0.000	0.000	<249	0.00000	0.000	0.000	5,458	0.004	0.088	1.643
11/14/11	194	3,500	0.00255	0.061	1.851	59	0.00004	0.001	0.015	45	0.0000	0.001	0.008	<16	0.00000	0.000	0.000	<79	0.00000	0.000	0.000	3,700	0.003	0.065	1.996
11/22/11	180	3,300	0.00223	0.053	2.340	64	0.00004	0.001	0.023	49	0.0000	0.001	0.014	<16	0.00000	0.000	0.000	<79	0.00000	0.000	0.000	3,663	0.002	0.059	2.513
11/28/11	180	2,500	0.00169	0.040	2.661	48	0.00003	0.001	0.029	27	0.0000	0.000	0.019	<16	0.00000	0.000	0.000	<79	0.00000	0.000	0.000	2,663	0.002	0.043	2.869
12/07/11	153	1,200	0.00069	0.017	3.025	11	0.00001	0.000	0.036	12	0.0000	0.000	0.023	<8.1	0.00000	0.000	0.000	<40	0.00000	0.000	0.000	1,283	0.001	0.018	3.257
12/14/11	150	870	0.00049	0.012	3.140	4.6	0.00000	0.000	0.037	<12.2	0.0000	0.000	0.024	<6.2	0.00000	0.000	0.000	5.0	0.00000	0.000	0.000	880	0.000	0.012	3.380
12/28/11	195	750	0.00055	0.013	3.305	3.9	0.00000	0.000	0.038	<3.2	0.0000	0.000	0.024	<1.6	0.00000	0.000	0.000	17	0.00001	0.000	0.001	1,066	0.001	0.019	3.546
01/12/12	150	460	0.00026	0.006	3.502	<4.3	0.00000	0.000	0.039	<12.6	0.0000	0.000	0.024	<6.5	0.00000	0.000	0.000	<31.8	0.00000	0.000	0.005	472	0.000	0.006	3.827
01/24/12	150	520	0.00029	0.007	3.576	2.8	0.00000	0.000	0.039	<3.2	0.0000	0.000	0.024	<1.6	0.00000	0.000	0.000	2	0.00000	0.000	0.005	560	0.000	0.008	3.903
02/09/12	157	470	0.00028	0.007	3.688	2.2	0.00000	0.000	0.040	<6.4	0.0000	0.000	0.024	<3.2	0.00000	0.000	0.000	<16.1	0.00000	0.000	0.006	477	0.000	0.007	4.024
02/24/12	170	550	0.00035	0.008	3.788	<4.3	0.00000	0.000	0.040	<12.6	0.0000	0.000	0.024	<6.5	0.00000	0.000	0.000	<31.8	0.00000	0.000	0.006	550	0.000	0.008	4.125
03/09/12	165	400	0.00025	0.006	3.906	<2.1	0.00000	0.000	0.040	<6.4	0.0000	0.000	0.024	<3.2	0.00000	0.000	0.000	<16.1	0.00000	0.000	0.006	1,386	0.001	0.021	4.243
03/21/12	171	410	0.00026	0.006	3.977	2.0	0.00000	0.000	0.040	<1.58	0.0000	0.000	0.024	<0.81	0.00000	0.000	0.000	<4	0.00000	0.000	0.006	555	0.000	0.009	4.489
04/05/12	175	380	0.00025	0.006	4.072	2.6	0.00000	0.000	0.041	<6.4	0.0000	0.000	0.024	<3.2	0.00000	0.000	0.000	3.4	0.00000	0.000	0.006	2,663	0.002	0.042	4.617
04/20/12	144	440	0.00024	0.006	4.161	<5.4	0.00000	0.000	0.041	<15.8	0.0000	0.000	0.024	<8.1	0.00000	0.000	0.000	<40	0.00000	0.000	0.007	702	0.000	0.009	5.246
10/04/12	137	14,000	0.00719	0.172	4.161	<60	0.00000	0.000	0.041	<176	0.0000	0.000	0.024	<90	0.00000	0.000	0.000	<443	0.00000	0.000	0.007	14,000	0.007	0.172	5.246
10/16/12	153	1,700	0.00097	0.023	6.231	6.4	0.00000	0.000	0.041	<12.6	0.0000	0.000	0.024	<6.5	0.00000	0.000	0.000	<31.8	0.00000	0.000	0.007	1,706	0.001	0.023	7.316
11/07/12	161	590	0.00036	0.009	6.745	<4.3	0.00000	0.000	0.043	<12.6	0.0000	0.000	0.024	<6.5	0.00000	0.000	0.000	38.3	0.00002	0.001	0.007	1,960	0.001	0.028	7.832
11/20/12	153	710	0.00041	0.010	6.856	2.4	0.00000	0.000	0.043	<1.26	0.0000	0.000	0.024	<0.65	0.00000	0.000	0.000	6.6	0.00000	0.000	0.014	1,269	0.001	0.017	8.201
01/04/13	138	470	0.00024	0.006	7.296	1.5	0.00000	0.000	0.044	<3.2	0.0000	0.000	0.024	<1.6	0.00000	0.000	0.000	2.4	0.00000	0.000	0.018	1,025	0.001	0.013	8.987
02/14/13	142	230	0.00012	0.003	7.535	<2.1	0.00000	0.000	0.045	<6.4	0.0000	0.000	0.024	<3.2	0.00000	0.000	0.000	<16.1	0.00000	0.000	0.020	280	0.000	0.004	9.508
AVERAGE:	**167.9**			**0.063**				**0.000**				**0.000**				**0.000**				**0.000**				**0.071**	

Notes:
- Concentrations reported by laboratory in ug/M3. Concentrations calculated by lab using the formula: Concentration in ug/M3 = Amount found (before rounding) x (molecular weight/24.45)
- lbs/hr = (CFM x 60) x (concentration x 0.000001 x 0.02832 x 0.002205)
- 1,2-DCE value = reported c-1,2-DCE concentration + reported t-1,2-DCE concentration
- 12/14/11 CFM is estimated value
- Air flow rates for 12/14/11, 1/12/12, and 1/24/12 are estimated based on half of total flow
- System shut down on May 11, 2012
- System restarted October 4, 2012
- System off December 5-24, 2012 to accommodate soil vapor intrusion sampling
- Table was provided by Environment Resources and Assessment
- Analyses performed by Test America, Inc. (EPA Method TO-15)

Table 5

Farmingdale Plaza Cleaners, 450 Main Street, Farmingdale, NY, Site # 1-30-107

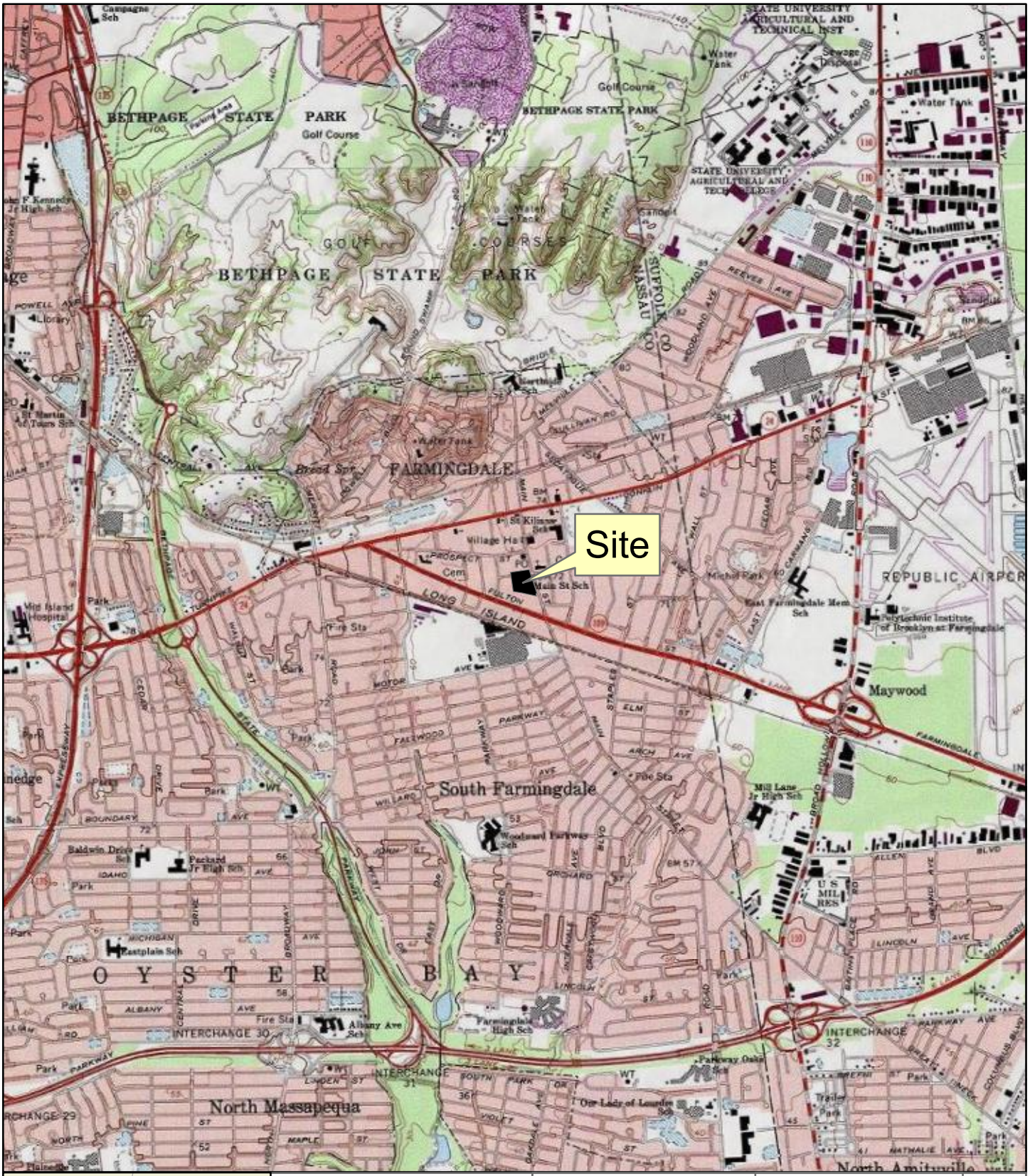
SVE Effluent - Emissions (select contaminants)

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Date	Flow Rate	Tetrachloroethene Emissions Rate				Trichloroethene Emissions Rate				1,2-Dichloroethene Emissions Rate				1,2-Dichloroethane Emissions Rate				Total BTEX Emissions Rate				Total VOC Emissions Rate			
		PCE			Cumulative	TCE			Cumulative	1,2-DCE			Cumulative	1,2-DCA			Cumulative	Total BTEX			Cumulative	Total VOC			Cumulative
	(SCFM)	(ug/M3)	(lbs/hr)	(lbs/day)	(lbs)	(ug/M3)	(lbs/hr)	(lbs/day)	(lbs)	(ug/M3)	(lbs/hr)	(lbs/day)	(lbs)	(ug/M3)	(lbs/hr)	(lbs/day)	(lbs)	(ug/M3)	(lbs/hr)	(lbs/day)	(lbs)	(ug/M3)	(lbs/hr)	(lbs/day)	(lbs)
11/01/11	153.7	<2.7	0.00000	0.000	0.000	<1.1	0.00000	0.000	0.000	<3.2	0.0000	0.000	0.000	<1.6	0.00000	0.000	0.000	4.7	0.00000	0.000	0.000	431	0.000	0.006	0.000
11/02/11	153.8	<1.1	0.00000	0.000	0.000	<0.43	0.00000	0.000	0.000	<1.26	0.0000	0.000	0.000	1.2	0.00000	0.000	0.000	5.4	0.00000	0.000	0.000	245	0.000	0.003	0.006
11/03/11	153.7	<0.54	0.00000	0.000	0.000	<0.21	0.00000	0.000	0.000	<0.64	0.0000	0.000	0.000	0.89	0.00000	0.000	0.000	3.1	0.00000	0.000	0.000	278	0.000	0.004	0.009
11/07/11	153.8	<2.7	0.00000	0.000	0.000	<1.1	0.00000	0.000	0.000	<3.2	0.0000	0.000	0.000	<1.6	0.00000	0.000	0.000	1.7	0.00000	0.000	0.000	179	0.000	0.002	0.025
11/08/11	153.4	<2.7	0.00000	0.000	0.000	<1.1	0.00000	0.000	0.000	<3.2	0.0000	0.000	0.000	<1.6	0.00000	0.000	0.000	4.2	0.00000	0.000	0.000	213	0.000	0.003	0.027
11/09/11	153.0	<2.7	0.00000	0.000	0.000	<1.1	0.00000	0.000	0.000	<3.2	0.0000	0.000	0.000	<1.6	0.00000	0.000	0.000	1.9	0.00000	0.000	0.000	167	0.000	0.002	0.030
11/10/11	153.6	<0.54	0.00000	0.000	0.000	<0.21	0.00000	0.000	0.000	<0.64	0.0000	0.000	0.000	0.45	0.00000	0.000	0.000	<1.61	0.00000	0.000	0.000	47	0.000	0.001	0.032
11/14/11	153.6	<1.1	0.00000	0.000	0.000	<0.43	0.00000	0.000	0.000	<1.26	0.0000	0.000	0.000	<0.65	0.00000	0.000	0.000	3.1	0.00000	0.000	0.000	103	0.000	0.001	0.035
11/22/11	154.0	<0.54	0.00000	0.000	0.000	<0.21	0.00000	0.000	0.000	1.2	0.0000	0.000	0.000	<0.32	0.00000	0.000	0.000	2.7	0.00000	0.000	0.001	283	0.000	0.004	0.046
11/28/11	153.6	<2.7	0.00000	0.000	0.000	<1.1	0.00000	0.000	0.000	5.1	0.0000	0.000	0.000	<1.6	0.00000	0.000	0.000	<7.9	0.00000	0.000	0.001	222	0.000	0.003	0.070
12/07/11	241.4	<1.1	0.00000	0.0000	0.000	<1.1	0.00000	0.000	0.000	18.0	0.0000	0.000	0.001	<0.65	0.00000	0.000	0.000	<3.18	0.00000	0.000	0.001	336	0.000	0.007	0.097
12/14/11	245.2	5.2	0.00000	0.0001	0.000	<1.1	0.00000	0.000	0.000	21.0	0.0000	0.000	0.003	<1.6	0.00000	0.000	0.000	<7.9	0.00000	0.000	0.001	165	0.000	0.004	0.149
12/20/11	242.1	1.4	0.00000	0.0000	0.001	0.3	0.00000	0.000	0.000	20.3	0.0000	0.000	0.006	<0.32	0.00000	0.000	0.000	7.9	0.00001	0.000	0.001	187	0.000	0.004	0.170
12/28/11	238.5	<1.1	0.00000	0.0000	0.001	<0.43	0.00000	0.000	0.000	28.0	0.0000	0.001	0.010	<0.65	0.00000	0.000	0.000	1.0	0.00000	0.000	0.002	200	0.000	0.004	0.203
01/05/12	243.3	<2.7	0.00000	0.0000	0.001	<1.1	0.00000	0.000	0.000	17.0	0.0000	0.000	0.015	<1.6	0.00000	0.000	0.000	<7.9	0.00000	0.000	0.003	97	0.000	0.002	0.237
01/12/12	239.1	<5.4	0.00000	0.0000	0.001	<2.1	0.00000	0.000	0.000	27.0	0.0000	0.001	0.017	<3.2	0.00000	0.000	0.000	<16.1	0.00000	0.000	0.003	149	0.000	0.003	0.252
01/19/12	245.9	<1.1	0.00000	0.0000	0.001	<0.43	0.00000	0.000	0.000	16.0	0.0000	0.000	0.021	<0.65	0.00000	0.000	0.000	<3.18	0.00000	0.000	0.003	82	0.000	0.002	0.274
01/24/12	245.7	<1.1	0.00000	0.0000	0.001	<0.43	0.00000	0.000	0.000	26.0	0.0000	0.001	0.023	<0.65	0.00000	0.000	0.000	<3.18	0.00000	0.000	0.003	126	0.000	0.003	0.283
02/01/12	245.0	<1.4	0.00000	0.0000	0.001	<0.54	0.00000	0.000	0.000	25.0	0.0000	0.001	0.028	<0.81	0.00000	0.000	0.000	<4	0.00000	0.000	0.003	102	0.000	0.002	0.306
02/09/12	235.2	<1.4	0.00000	0.0000	0.001	<0.54	0.00000	0.000	0.000	14.0	0.0000	0.000	0.032	<0.81	0.00000	0.000	0.000	2.6	0.00000	0.000	0.003	57	0.000	0.001	0.324
02/17/12	230.6	<1.1	0.00000	0.0000	0.001	<0.43	0.00000	0.000	0.000	19.0	0.0000	0.000	0.034	<0.65	0.00000	0.000	0.000	1.4	0.00000	0.000	0.003	71	0.000	0.001	0.333
02/24/12	230.0	<1.1	0.00000	0.0000	0.001	<0.43	0.00000	0.000	0.000	20.0	0.0000	0.000	0.037	<0.65	0.00000	0.000	0.000	<3.18	0.00000	0.000	0.003	60	0.000	0.001	0.344
03/02/12	233.5	<1.1	0.00000	0.0000	0.001	<0.43	0.00000	0.000	0.000	17.0	0.0000	0.000	0.040	<0.65	0.00000	0.000	0.000	1.9	0.00000	0.000	0.003	3,366	0.003	0.071	0.352
03/09/12	233.5	<1.4	0.00000	0.0000	0.001	0.7	0.00000	0.000	0.000	26.0	0.0000	0.001	0.043	<0.81	0.00000	0.000	0.000	<4	0.00000	0.000	0.003	902	0.001	0.019	0.847
03/15/12	228.6	<1.1	0.00000	0.0000	0.001	1.0	0.00000	0.000	0.000	23.0	0.0000	0.000	0.046	<0.65	0.00000	0.000	0.000	<3.19	0.00000	0.000	0.003	461	0.000	0.009	0.960
03/21/12	228.0	<1.4	0.00000	0.0000	0.001	1.4	0.00000	0.000	0.000	20.0	0.0000	0.000	0.049	<0.81	0.00000	0.000	0.000	3.9	0.00000	0.000	0.003	134	0.000	0.003	1.017
03/29/12	225.6	<0.54	0.00000	0.0000	0.001	2.4	0.00000	0.000	0.000	22.0	0.0000	0.000	0.052	0.58	0.00000	0.000	0.000	0.3	0.00000	0.000	0.004	107	0.000	0.002	1.039
04/05/12	225.6	<5.4	0.00000	0.0000	0.001	3.3	0.00000	0.000	0.001	20.0	0.0000	0.000	0.055	<3.2	0.00000	0.000	0.000	3.7	0.00000	0.000	0.004	4,278	0.004	0.087	1.054
04/12/12	225.8	<5.4	0.00000	0.0000	0.001	5.7	0.00000	0.000	0.001	22.0	0.0000	0.000	0.058	<3.2	0.00000	0.000	0.000	<16.1	0.00000	0.000	0.005	1,649	0.001	0.033	1.662
04/20/12	224.6	<2.7	0.00000	0.0000	0.001	17.0	0.00001	0.000	0.002	32.0	0.0000	0.001	0.061	<1.6	0.00000	0.000	0.000	1.7	0.00000	0.000	0.005	324	0.000	0.007	1.930
04/26/12	225.2	<5.4	0.00000	0.0000	0.001	13.0	0.00001	0.000	0.004	24.0	0.0000	0.000	0.065	<3.2	0.00000	0.000	0.000	<16.1	0.00000	0.000	0.005	162	0.000	0.003	1.969
10/04/12	224.0	2.8	0.00000	0.0001	0.001	41.0	0.00003	0.001	0.004	43.5	0.0000	0.001	0.065	<0.32	0.00000	0.000	0.000	0.4	0.00000	0.000	0.005	137	0.000	0.003	1.969
10/10/12	220.6	6.5	0.00001	0.0001	0.001	52.0	0.00004	0.001	0.009	97.0	0.0001	0.002	0.070	<0.32	0.00000	0.000	0.000	20.1	0.00002	0.000	0.005	355	0.000	0.007	1.986
10/16/12	217.3	10.0	0.00001	0.0002	0.002	48.0	0.00004	0.001	0.015	61.7	0.0001	0.001	0.082	<0.65	0.00000	0.000	0.000	8.7	0.00001	0.000	0.007	179	0.000	0.003	2.028
10/25/12	225.0	21.0	0.00002	0.0004	0.004	53.0	0.00004	0.001	0.024	47.0	0.0000	0.001	0.093	<0.65	0.00000	0.000	0.000	15.5	0.00001	0.000	0.009	180	0.000	0.004	2.059
11/01/12	222.1	30.0	0.00002	0.0006	0.007	47.0	0.00004	0.001	0.031	33.0	0.0000	0.001	0.099	<1.6	0.00000	0.000	0.000	2.6	0.00000	0.000	0.011	187	0.000	0.004	2.085
11/07/12	226.8	48.0	0.00004	0.0010	0.010	66.0	0.00006	0.001	0.037	32.0	0.0000	0.001	0.103	<0.81	0.00000	0.000	0.000	16.8	0.00001	0.000	0.011	262	0.000	0.005	2.107
11/16/12	231.0	67.0	0.00006	0.0014	0.019	50.0	0.00004	0.001	0.049	30.0	0.0000	0.001	0.109	<0.81	0.00000	0.000	0.000	2.7	0.00000	0.000	0.015	200	0.000	0.004	2.155
11/20/12	226.6	140.0	0.00012	0.0029	0.025	68.0	0.00006	0.001	0.053	33.0	0.0000	0.001	0.112	<0.81	0.00000	0.000	0.000	7.3	0.00001	0.000	0.015	319	0.000	0.006	2.172
11/28/12	228.2	170.0	0.00015	0.0035	0.048	38.0	0.00003	0.001	0.064	21.0	0.0000	0.000	0.117	<0.81	0.00000	0.000	0.000	3.1	0.00000	0.000	0.016	262	0.000	0.005	2.224
12/05/12	222.9	270.0	0.00023	0.0054	0.072	39.0	0.00003	0.001	0.070	26.0	0.0000	0.001	0.120	<0.81	0.00000	0.000	0.000	5.6	0.00000	0.000	0.016	468	0.000	0.009	2.262
01/04/13	232.4	0.6	0.00000	0.0000	0.072	<0.21	0.00000	0.000	0.070	<0.64	0.0000	0.000	0.120	<0.32	0.00000	0.000	0.000	2.3	0.00000	0.000	0.016	20	0.000	0.000	2.262
01/17/13	227.6	<0.54	0.00000	0.0000	0.072	<0.21	0.00000	0.000	0.070	<0.64	0.0000	0.000	0.120	<0.32	0.00000	0.000	0.000	0.5	0.00000	0.000	0.017	23	0.000	0.000	2.267
01/30/13	229.6	2.8	0.00000	0.0001	0.072	<0.21	0.00000	0.000	0.070	<0.64	0.0000	0.000	0.120	<0.32	0.00000	0.000	0.000	11.1	0.00001	0.000	0.017	34	0.000	0.001	2.273
02/14/13	225.1	<1.4	0.00000	0.0000	0.073	<0.54	0.00000	0.000	0.070	1.6	0.0000	0.000	0.120	<0.81	0.00000	0.000	0.000	<4	0.00000	0.000	0.020	69	0.000	0.001	2.283
03/01/13	216.4	2.5	0.00000	0.0000	0.073	0.6	0.00000	0.000	0.070	5.5	0.0000	0.000	0.121	<0.81	0.00000	0.000	0.000	32.7	0.00003	0.001	0.020	805	0.001	0.016	2.305
AVERAGE:	**214.0**			**0.000**				**0.000**				**0.000**				**0.000**				**0.000**				**0.008**	

Notes:
- Concentrations reported by laboratory in ug/M3. Concentrations calculated by lab using the formula: Concentration in ug/M3 = Amount found (before rounding) x (molecular weight/24.45)
- lbs/hr = (CFM x 60) x (concentration x 0.000001 x 0.02832 x 0.002205); 1,2-DCE value = reported c-1,2-DCE concentration + t-1,2-DEC concentration
- System shut down on May 11, 2012; system restarted on October 4, 2012; System off December 5-24, 2013 to accommodate soil vapor intrusion sampling
- Table was provided by Environment Resources and Assessment; analyses performed by Test America, Inc. (Method TO-15)

Figures



U.S.G.S. 1:24 000 SCALE
TOPOGRAPHIC MAP

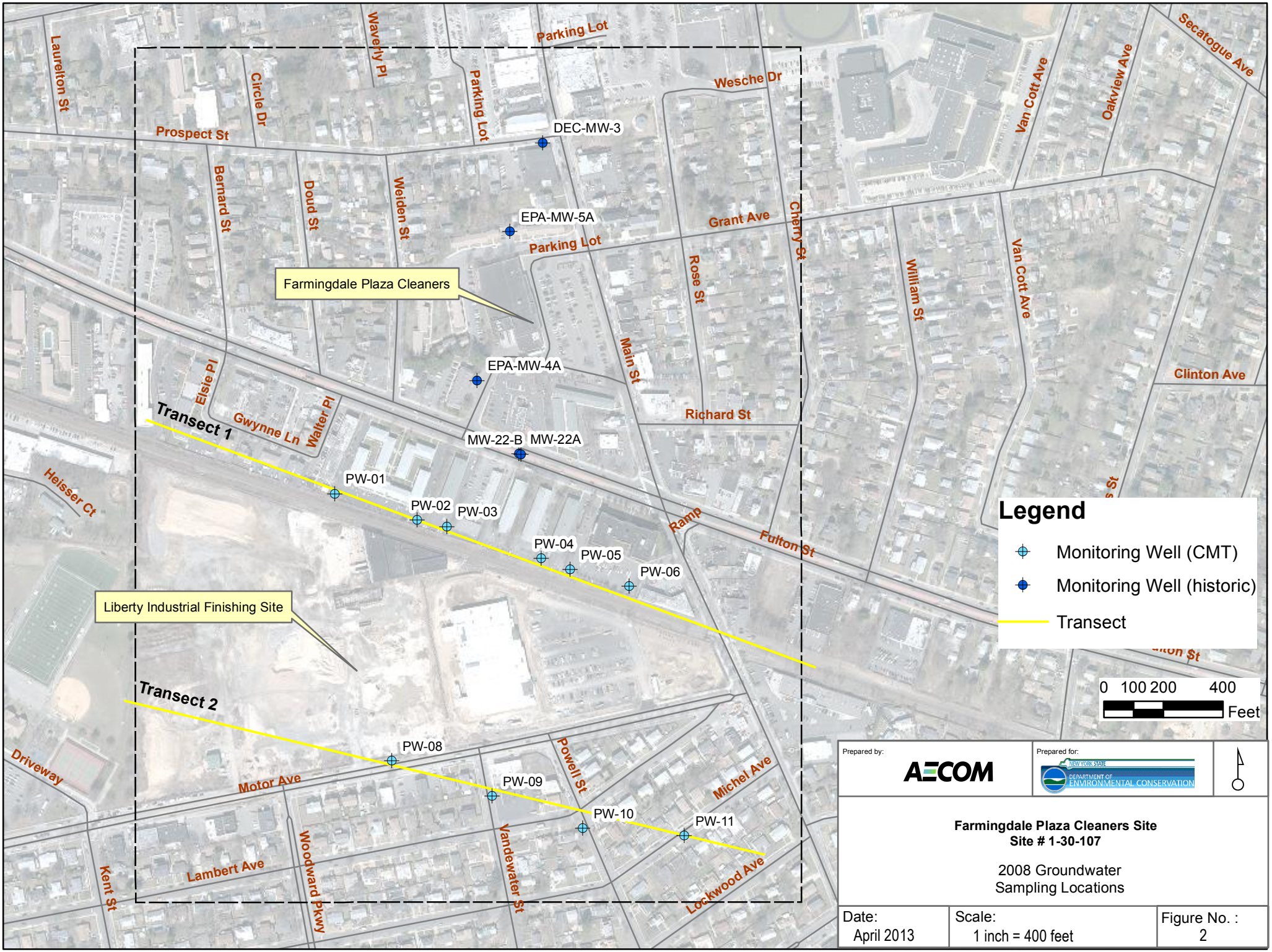
Prepared by: AECOM

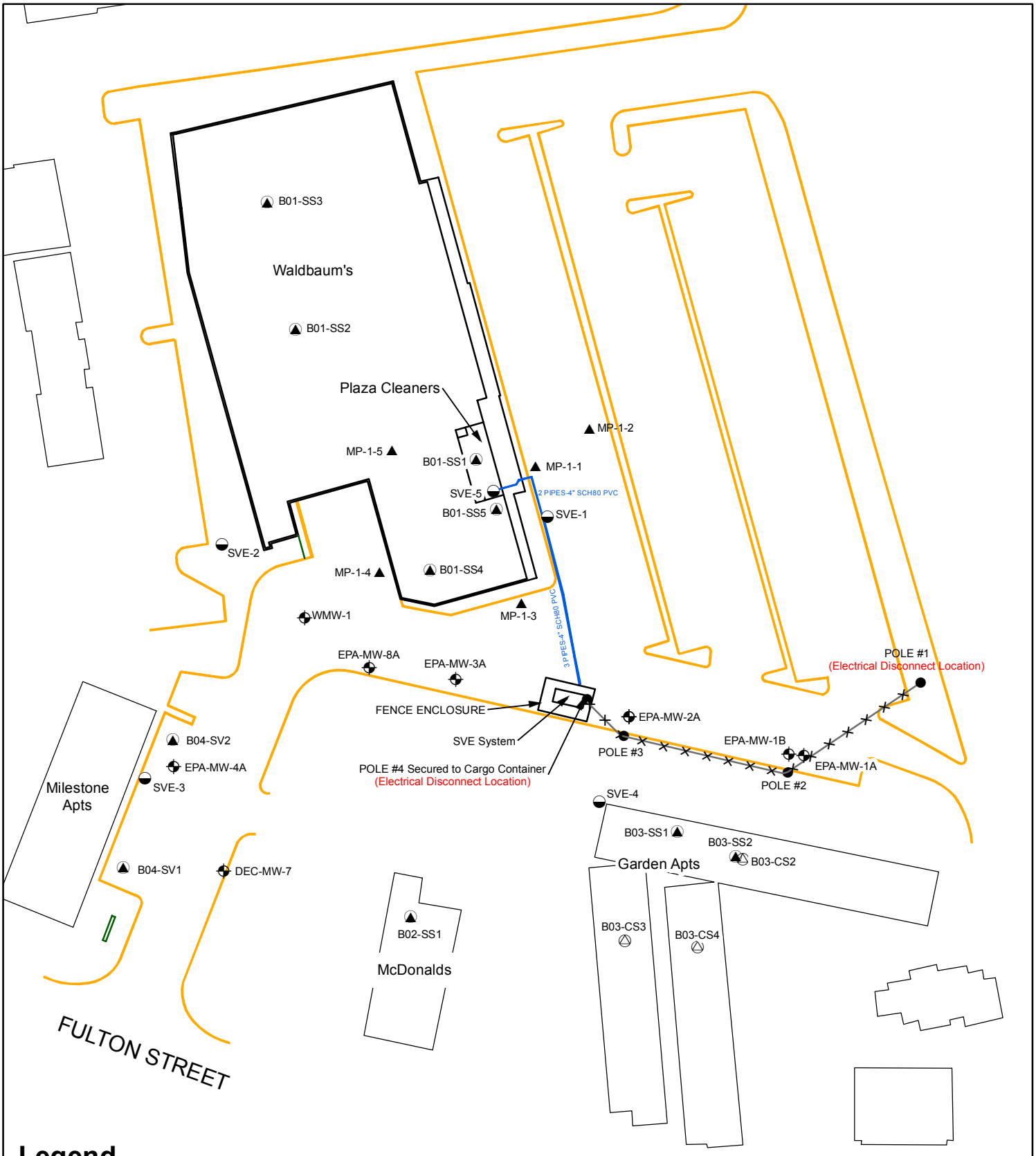
Prepared for: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Farmingdale Plaza Cleaners Site
Site # 1-30-107

Site Location
Farmingdale Plaza Cleaners Site

Date:	Scale:	Figure No. :
April 2013	1 inch = 2,500 feet	1


Laurelton St
Circle Dr
Wavely Pl
Parking Lot
Parking Lot
Wesche Dr
Van Cott Ave
Oakview Ave
Secatogue Ave
Prospect St
DEC-MW-3
Bernard St
Doud St
Weiden St
EPA-MW-5A
Grant Ave
Parking Lot
Cherry St
Rose St
William St
Van Cott Ave
Farmingdale Plaza Cleaners
Main St
EPA-MW-4A
Clinton Ave
Elsie Pl
Gwynne Ln
Walter Pl
Transect 1
Richard St
MW-22-B
MW-22A
Heisser Ct
PW-01
PW-02
PW-03
Ramp
Fulton St
PW-04
PW-05
PW-06
Liberty Industrial Finishing Site
Transect 2
Driveway
PW-08
Motor Ave
PW-09
Powell St
Michel Ave
PW-10
PW-11
Lambert Ave
Woodward Pkwy
Vandewater St
Kent St
Lockwood Ave
Legend
Monitoring Well (CMT)
Monitoring Well (historic)
Transect
0 100 200 400
Feet
Prepared by:
AECOM
Prepared for:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Farmingdale Plaza Cleaners Site
Site # 1-30-107
2008 Groundwater
Sampling Locations
Date:
April 2013
Scale:
1 inch = 400 feet
Figure No. :
2



Legend

- Subgrade Header Piping
- Monitoring Well
- Vacuum Monitoring Well
- SVE Well
- Soil Vapor/Subslab
- Crawl Space

Prepared by: AECOM

Prepared for: New York State Department of Environmental Conservation

Farmingdale Plaza Cleaners Site
Site # 1-30-107

SVE System and Soil Vapor Monitoring Points

Date:	Scale:	Figure No. :
April 2013	1 inch = 80 feet	3

OA-1	06/2012
Carbon tetrachloride	0.53
1,2-DCA	0.32 U
1,1,1-TCA	0.44 U
TCE	0.21 U
PCE	0.54 U

B01-SS3/IA3	Subslab				Indoor Air			
	09/2011	01/2012	03/2012	12/12/12	09/2011	01/2012	03/2012	12/12/12
Carbon tetrachloride	0.5 U	0.28	0.25 U	0.25 U	0.43	0.42	0.51	0.56
1,2-DCA	0.65 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,1,1-TCA	0.87 U	0.44 U	0.57	0.5 J	0.44 U	0.44 U	0.44 U	0.44 U
TCE	0.43 U	0.21 U	0.26	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
PCE	13	7.2	37	59 J	1.6	12	0.54 U	0.54 U

B01-SS2/IA2	Subslab				Indoor Air			
	09/2011	01/2012	03/2012	12/12/12	09/2011	01/2012	03/2012	12/12/12
Carbon tetrachloride	1.3 U	0.44 J	0.56 J	0.43 J	0.51	0.48	0.69	0.63
1,2-DCA	1.6 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,1,1-TCA	2.2 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
TCE	1.1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
PCE	380	6.1 J	26 J	46 J	1.2	0.54 U	0.54 U	0.54 U

B04-SV2	09/2011	01/2012	03/2012	06/2012	12/12/12
Carbon tetrachloride	1.6 U	690 U	47 U	19 U	0.63 U
1,2-DCA	2 U	890 U	60 U	25 U	0.81 U
1,1,1-TCA	66	1200 U	81 U	53	25
TCE	36	590 U	40 U	79	15
PCE	550 D	1500 U	3200	4000	1800 D

B04-SV1	09/2011	01/2012	03/2012	12/12/12
Carbon tetrachloride	0.5	0.31	0.25 U	0.25 U
1,2-DCA	0.32 U	0.32 U	2.5	0.32 U
1,1,1-TCA	0.44 U	0.82	1.7	1.7
TCE	0.21 U	0.21 U	0.21 U	0.21 U
PCE	2.1	5.1	34	110

OA-1	12/20/12
Carbon tetrachloride	0.54
1,2-DCA	0.32 U
1,1,1-TCA	0.44 U
TCE	0.21 U
PCE	0.54 U

B02-SS1/IA1	Subslab				Indoor Air			
	09/2011	01/2012	03/2012	12/12/12	09/2011	01/2012	03/2012	12/12/12
Carbon tetrachloride	0.84 U	2.5 U	0.25 U	NA	0.9	NA	0.61	0.25 U
1,2-DCA	1.1 U	3.2 U	0.32 U	NA	0.32 U	NA	0.32 U	0.32 U
1,1,1-TCA	1.5 U	4.4 U	0.58	NA	0.44 U	NA	0.44 U	0.44 U
TCE	0.72 U	2.1 U	0.35	NA	0.21 U	NA	0.21 U	7.4
PCE	31	18	39	NA	0.54 U	NA	0.54 U	0.77

B01-SS1/IA1	Subslab				Indoor Air					
	09/2011	01/2012	03/2012	12/12/12	09/2011	01/2012	01/12-Dup	03/2012	03/12-Dup	12/12/12
Carbon tetrachloride	6.3 U	0.65	0.5 J	0.55	0.5	0.45	0.66	0.46	0.52	0.74
1,2-DCA	8.1 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,1,1-TCA	11 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
TCE	16	0.21 U	0.32 J	0.94	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
PCE	2300 D	0.54 U	50 D	320 D	37	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U

B01-SS5/IA5	Subslab		Indoor Air	
	06/2012	12/12/12	06/2012	12/12/12
Carbon tetrachloride	20 U	0.39	0.8	0.51
1,2-DCA	26 U	0.32 U	0.32 U	0.32 U
1,1,1-TCA	35 U	0.44 U	0.44 U	0.44 U
TCE	17 U	0.31	0.21 U	0.21 U
PCE	4700	220 D	0.54 U	0.54 U

B01-SS4/IA4	Subslab		Indoor Air		
	06/2012	12/12/12	06/2012	06/12-Dup	12/12/12
Carbon tetrachloride	5 U	0.52	0.56	0.6	0.42
1,2-DCA	6.5 U	0.32 U	3	2.9	0.42
1,1,1-TCA	8.7 U	0.44 U	0.44 U	0.44 U	0.44 U
TCE	19	1.6	0.21 U	0.21 U	0.21 U
PCE	1500	120 D	0.62	0.78	0.54 U

OA-1	09/2011	01/2012	03/2012	12/12/12
Carbon tetrachloride	0.48	0.4	0.41	0.43
1,2-DCA	0.51	0.32 U	0.32 U	0.32 U
1,1,1-TCA	0.44 U	0.44 U	0.44 U	0.44 U
TCE	0.21 U	0.21 U	0.21 U	0.21 U
PCE	0.54 U	0.54 U	0.54 U	0.54 U

B03-SS1/IA1	Subslab				Indoor Air			
	09/2011	01/2012	03/2012	12/20/12	09/2011	01/2012	03/2012	12/20/12
Carbon tetrachloride	1.3 U	0.38	0.61	2.5 U	0.75	0.58	0.64	0.55
1,2-DCA	1.6 U	0.37 U	0.32 U	3.2 U	0.32 U	0.32 U	0.33	0.32 U
1,1,1-TCA	2.2 U	0.5 U	0.44 U	4.4 U	0.44 U	0.44 U	0.44 U	0.44 U
TCE	1.1 U	0.25 U	0.21 U	2.1 U	0.21 U	0.21 U	0.21 U	0.21 U
PCE	340	26	2	110	0.9	0.65	0.78	0.66

B03-SS2/CS2	Subslab				Crawl Space Air				
	09/2011	01/2012	03/2012	12/20/12	09/2011	01/2012	03/2012	12/20/12	12/20-Dup
Carbon tetrachloride	0.63 U	2.8	0.5	0.37	0.71	0.25 U	0.56	0.44	0.33
1,2-DCA	0.81 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,1,1-TCA	1.1 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
TCE	0.54 U	0.44	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
PCE	44	43	31	78	0.9	0.54 U	0.66	0.54 U	0.54 U

B03-CS4/IA4	Crawl Space Air					Indoor Air			
	09/2011	09/11-Dup	01/2012	03/2012	12/20/12	09/2011	01/2012	03/2012	12/20/12
Carbon tetrachloride	0.47	0.44	0.44	0.49	0.5	0.44	0.43	0.46	0.44
1,2-DCA	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,1,1-TCA	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
TCE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
PCE	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	1.4	0.54 U

B03-CS3/IA3	Crawl Space Air				Indoor Air			
	09/2011	01/2012	03/2012	12/20/12	09/2011	01/2012	03/2012	12/20/12
Carbon tetrachloride	0.57	0.45	0.45	0.55	0.53	0.44	0.49	0.46
1,2-DCA	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.35	0.32 U
1,1,1-TCA	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
TCE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.9
PCE	2.8	0.54 U	0.54 U	0.54 U	0.54 U	0.68	0.54 U	0.54 U

Legend

- # Subslab/Indoor Air
- # Subslab/Crawl Space
- # Crawl Space/Indoor Air
- # Outdoor Air
- # Soil Vapor

Prepared by: AECOM

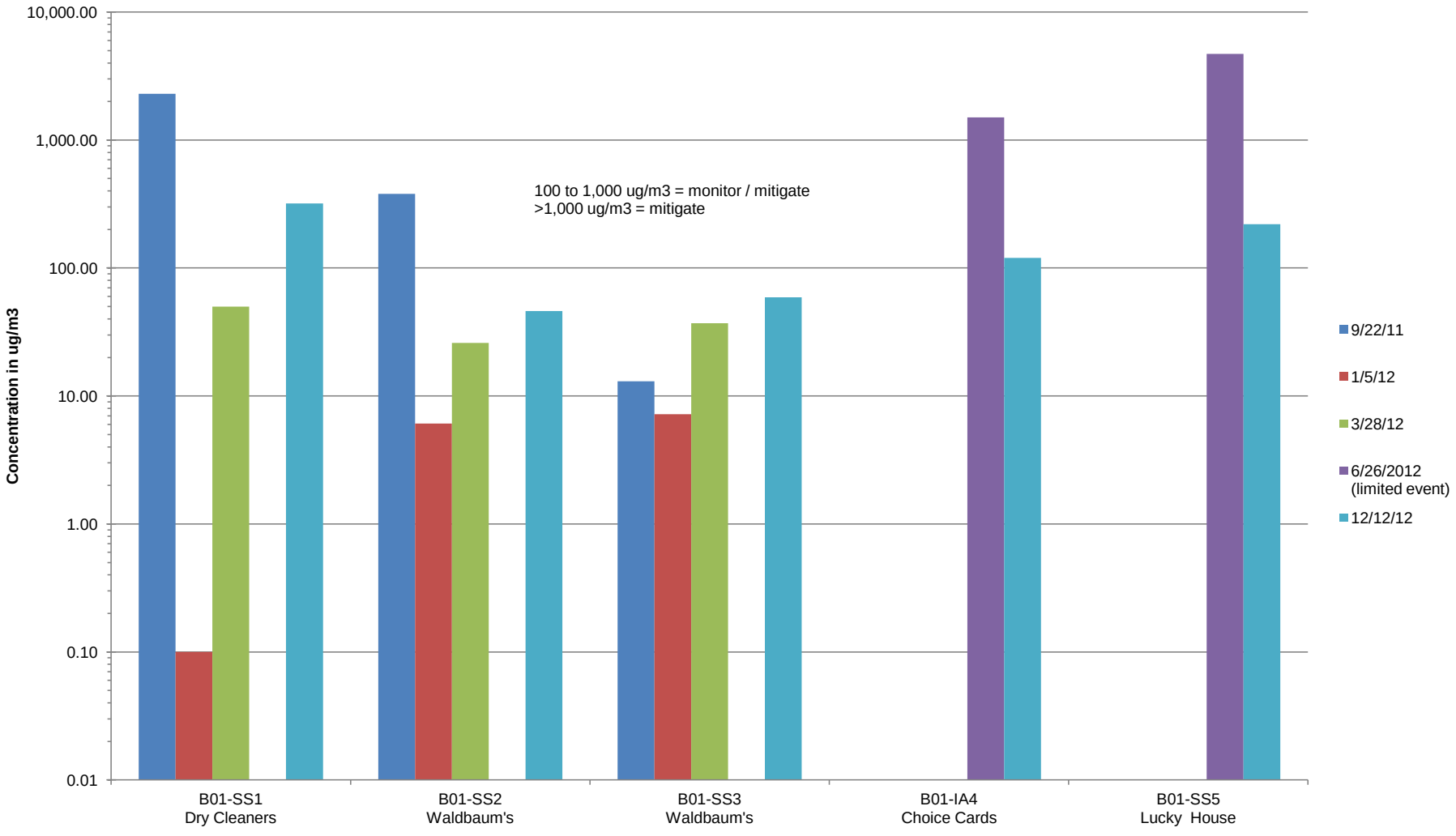
Prepared for: New York State Department of Environmental Conservation

Farmingdale Plaza Cleaners Site
Site # 1-30-107

Soil Vapor Intrusion
Sampling Locations

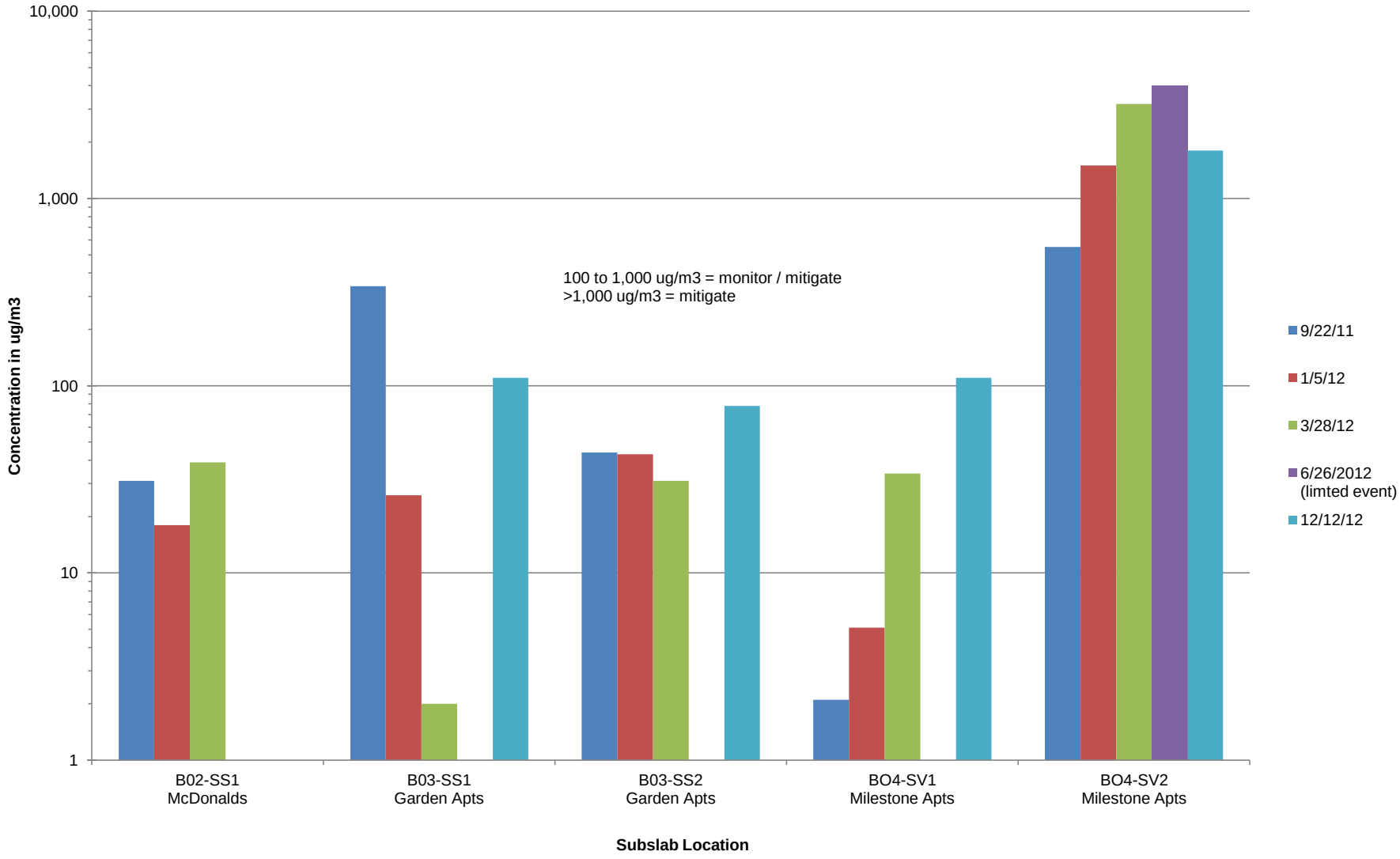
Date:	Scale:	Figure No. :
April 2013	1 inch = 125 feet	4

FIGURE 5
FARMINGDALE PLAZA CLEANERS (1-30-107)
SUMMARY OF PCE CONCENTRATIONS IN PLAZA SUBSLAB SAMPLING LOCATIONS



ND set to 0.1 for plotting purposes,
blank = not collected

FIGURE 6
FARMINGDALE PLAZA CLEANER (1-30-107)
SUMMARY OF SUBSLAB PCE CONCENTRATIONS IN OFF-SITE BUILDINGS



Blank = not collected

Appendix A

IC/EC Certification

Appendix B

Air Sampling Logs

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 Celeste Foster Date/Time Prepared 9/22/2011

Preparer's Affiliation AECOM Phone No. 845.425.4980

Purpose of Investigation SVI Farmingdale Plaza Cleaners
before SVE system turned on @ site

1. ~~OCCUPANT:~~ SUPERINTENDENT

Interviewed: (Y) / N

Last Name: _____ First Name: Jose

Address: Fulton & Main street, Farmingdale NY [490 Mainstreet Island Gardens Co-op Apartments]

County: Suffolk

Home Phone: _____ cell ~~Office~~ Phone: 347.538.3672

Number of Occupants/persons at this location 40 Apts Age of Occupants various

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: _____

Co-operative

If multiple units, how many? 40 Apts, 3 buildings (A 1-12, B 1-12, C 1-16)

If the property is commercial, type? N/A

Business Type(s) _____

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

Other characteristics:

Number of floors 2 Building has partial basement, All contain crawlspaces

Building age built 1961

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

STAGNANT

Airflow near source

STAGNANT

Outdoor air infiltration

INSIDE

Infiltration into air ducts

INTO DUCTS

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

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type:	full	crawlspace	(slab)	other _____
c. Basement floor:	(concrete)	dirt	stone	other _____
d. Basement floor:	(uncovered)	(covered)	covered with TILE IN LAUNDRY RM.	
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	BY LAUNDRY MACHINE		

Basement/Lowest level depth below grade: 5 (feet)

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

Sump Pump, Slab in crawl space is very thin possible cracks farther in, crack along crawl space wall in work room

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: OIL

Boiler/furnace located in:	(Basement)	Outdoors	Main Floor	Other_____
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.

NONE

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	PARTIALLY IN BUILDING C ONLY, LAUNDRY ROOM, METER ROOM, STORAGE/ WORK
1st Floor	Residences
2nd Floor	Residences
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? unknown

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? _____

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 (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? _____

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? N/A 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

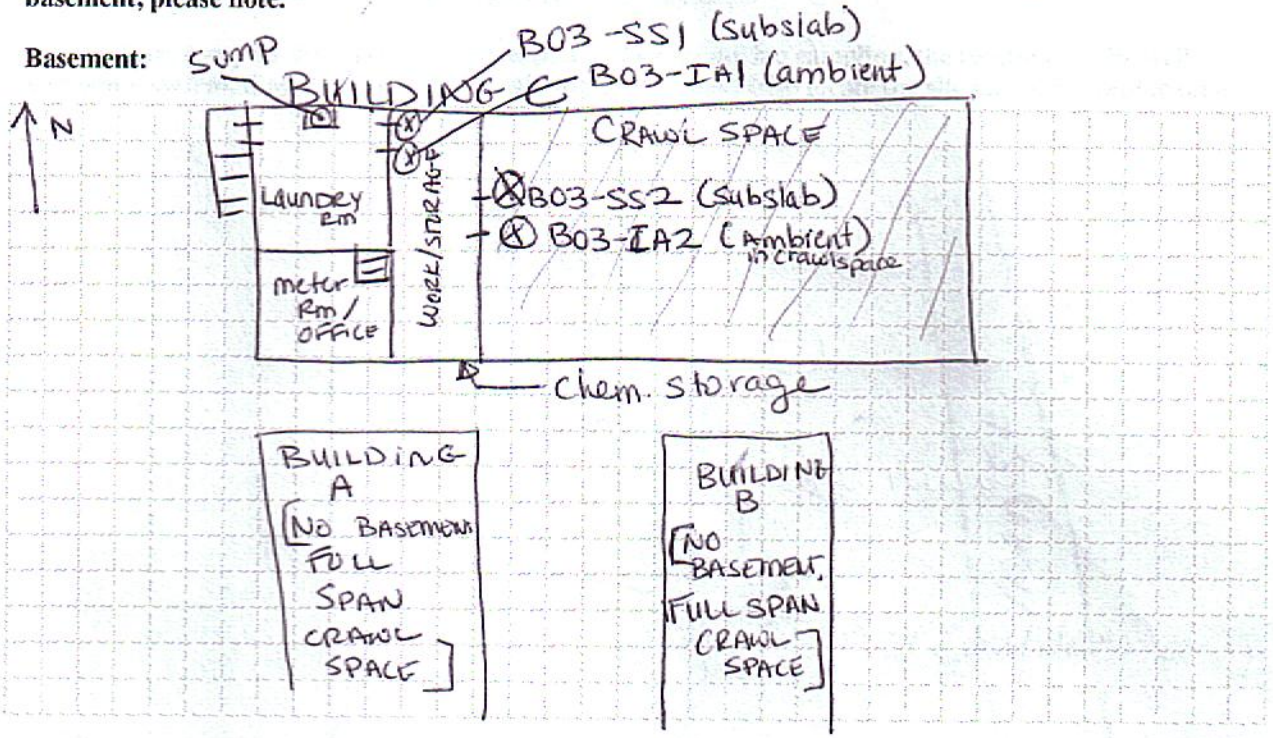
c. Responsibility for costs associated with reimbursement explained? Y / N

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

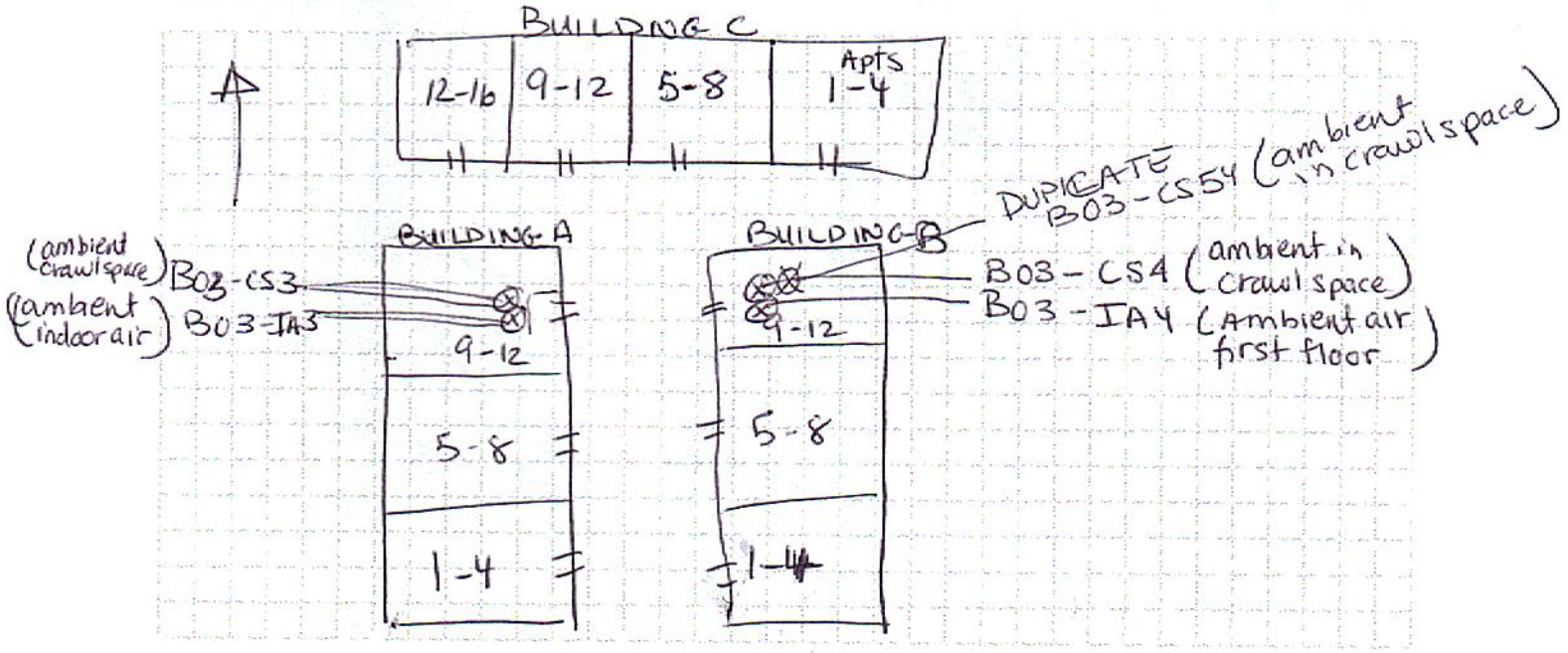
11. FLOOR PLANS

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:



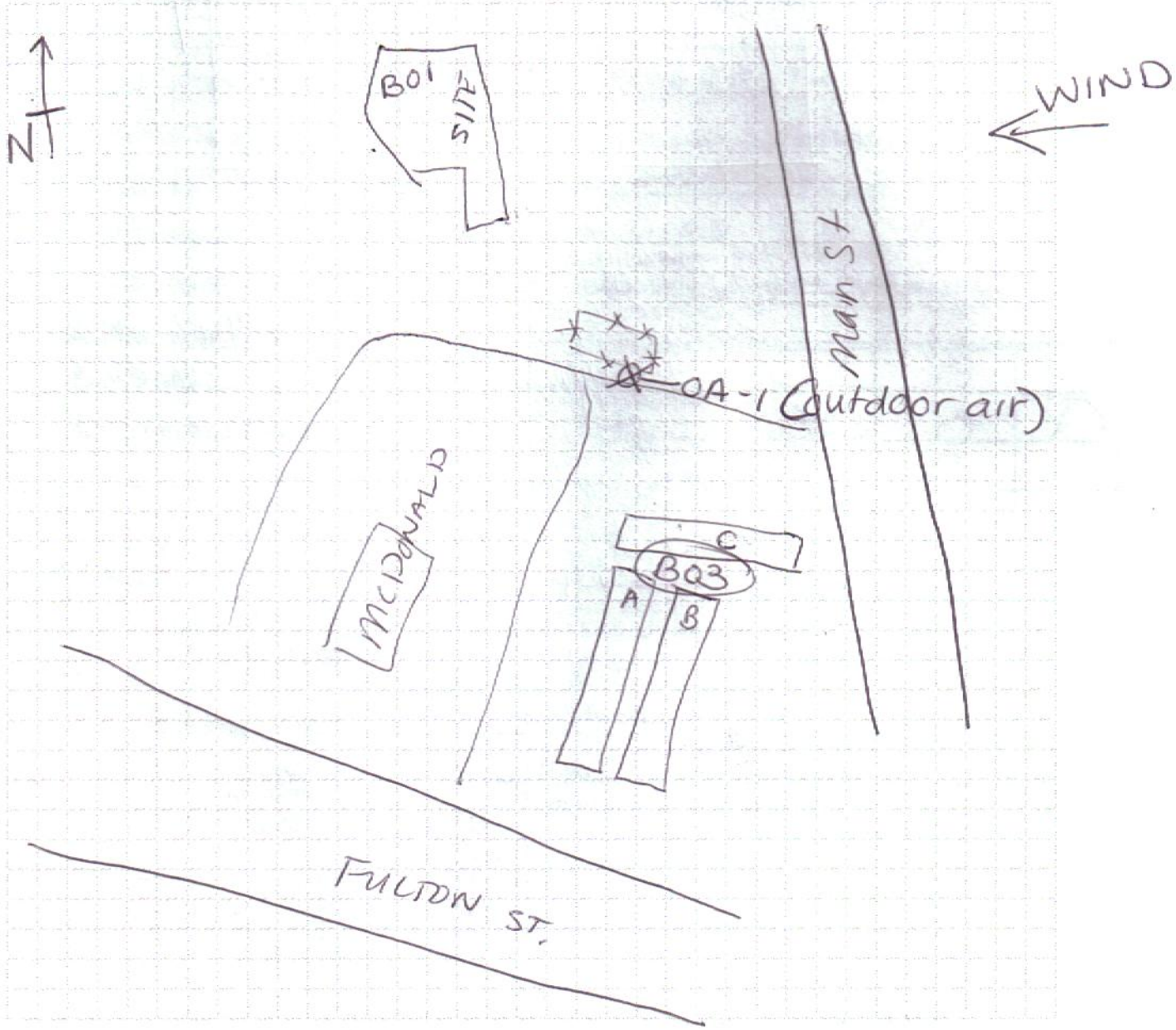
First Floor:



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: MiniRae PID ppm

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
STORAGE WORK AREA	ARMSTRONG FLOOR STRIPPER	32 oz	Used	VOC content 537g/L	0	Y
	(2x) TREWAX WAX STRIPPER	32oz	Used/UO	2-Butoxyethanol, Ethanolamine	0	Y
	BIRD Repellant Tanglefoot	10 oz	U	Polybutene 97%, 3% other	0	Y
	STRIPING PAINT	18oz	U	NOT LISTED	0	Y
* Remove from sample Area PCE	TILE GROUT	1QT	U	Calcium Carbonate, Acrylic Polymer Titanium Dioxide, Ethylene Glycol/other	0	Y
	Electric Motor Contact Cleaner	20oz	U	Perchloroethylene Carbon Dioxide	0	Y
	2 WD 40	12oz	UO	NL	0	Y
Remove DUE	LPS Electro Cleaner	11oz	U	1,1,2 tetrafluoroethane Nonafluorobutyl methyl ether Nonafluorinated polyethers Perfluorinated polyethers 1,2 trans dichloroethylene Isopropanol methylcyclohexane	0	Y
	SPRAY PAINT KRYLON X 5	12oz	U	Ketones, Hydrocarbon propellant Petroleum distillate & Acetone	0	Y
	Rover Rust Remover	454g	U	SODIUM BISULFITE SODIUM HYDROSULFITE	0	Y
	thread sealant x4 Megaloc multipurpose	8oz	U	NL	0	Y
	Henry Love Base adhesive	1QT	U	VOC content 100g/L	0	Y
	Gunk Silicone Spray x3	11oz	U	Petroleum distillates, Mineral oil Butoxyethanol, Carbon dioxide	0	Y
	Sid Hunger All purpose Lubricating	1QT	U	Mineral oils & additives	0	Y
	Laundry detergent	100oz	~~100oz~~ U	NL	0	Y
	Clorox bleach x3	1800z	U	NL	0	Y
	W. Indy x2	1Gal	U	NL	0	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.

NL = Not Listed

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PID Mini rae ppm

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
	Extreme Blue Windshield wash	1ga	UO	NL	0	Y
	Selig driveway concrete cleaner	1ga	U	NL	0	Y
	Spic & Span	22oz	U	ammonia chlorides + others 99.9%	0	Y
	Sheetrock	various	U	NL	0	Y
	Paints	various	U	NL	0	Y
	Tomcat Ultra	11b	U	Bromadiolone + inert		
	Polywalker Wipes Sit me away x2		U	NL	0	Y
	Ant killer Enforcer	16oz	U	pyrocide, MOK(R) 264) Isobutane, Propane-butane	0	Y
	Kesan Ultramark Spray	13oz	U	Propane, isobutane, petroleum distillates	0	Y
	Flex coat Resin x2	1gal	U	NL	0	Y
Meter Rm	Rug doctor upholstery cleaner	1QT	U	NL	0	Y
	Stain x Stain Remover	16oz	U	NL	0	Y
	Spray N Wash	1gal	U	NL	0	Y
	409	1QT	U	NL	0	Y
	Future	16oz	U	NL	0	Y
	Spot Shot	20oz	U	NL	0	Y
	Kleanstrip stripper	1QT	U	NL	0	Y
	Spray bottle	24oz	U	NL	0	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.

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 Celeste Foster Date/Time Prepared 9/22/2011

Preparer's Affiliation AEcom Phone No. 845-425-4980

Purpose of Investigation SVI Farmingdale Plaza Cleaners
before SVE system turned on @ site

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: employee First Name: _____

Address: 655 Fulton St., Farmingdale NY

County: Suffolk

Home Phone: _____ Office Phone: 516-752-8070

Number of Occupants/persons at this location ~10 employees customers Age of Occupants various

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

Interviewed: Y (N)

Last Name: Disney First Name: Rick

Address: _____

County: _____

Home Phone: _____ ~~Office~~ Cell Phone: 516-443-3066

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) 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? N/A

If the property is commercial, type?

Business Type(s) McDONALDS

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

Other characteristics:

Number of floors 1+Basement Building age built 1973

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

UPSTAIRS

Airflow near source

STAGNANT

Outdoor air infiltration

Inside

Infiltration into air ducts

Slowly into ducts

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

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other _____
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	covered with tile	
e. Concrete floor:	unsealed	sealed	sealed with paint	
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 — 2 drains and possible sump under metal cover.			
k. Water in sump?	Y / N / not applicable			

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

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

2 drains, metal cover

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: Same

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other_____
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.

tight

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 / FREEZER
1st Floor	Restaurant / Kitchen
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? _____

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? OUT

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

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)
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) N/A

a. Provide reasons why relocation is recommended: _____

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

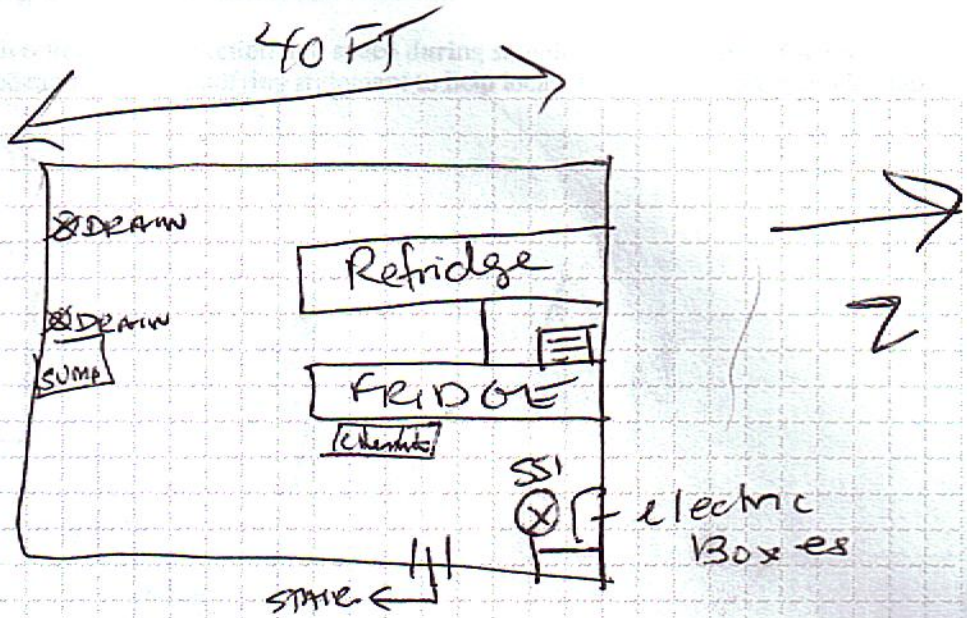
c. Responsibility for costs associated with reimbursement explained? Y / N

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

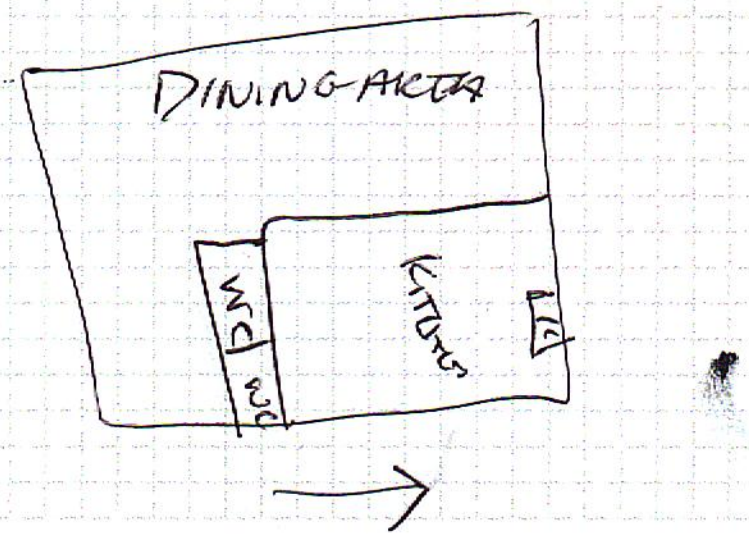
11. FLOOR PLANS

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:



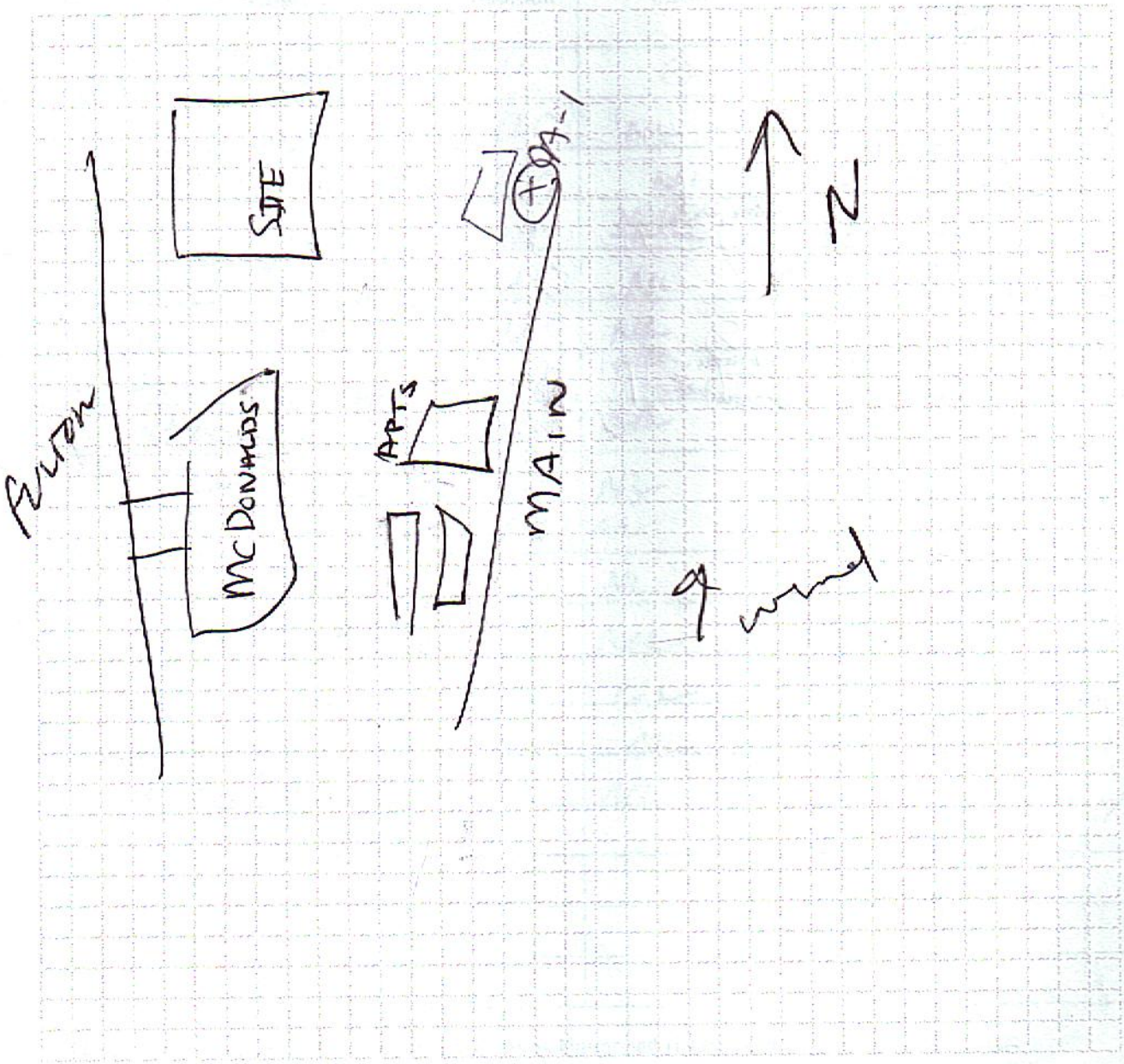
First Floor:



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: Mini Rae ppm PID

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
Basement	Liquid Carbon Dioxide tank	100 gal	U	CO_2	0	Y
	Hand Soap	250z	UO	NL	0	Y
	Solid sense Floor care A	22.5lb	UO	NL	0	Y
	McD solid Towel Detergent	4lb	UO	~~NL~~ various, none of concern listed on photo	0	Y
	Degreaser Ecolab X6	1gal	UO	NL	0	Y
	FRANKE Specmix Sysclean	1L	UO	NL	0	Y
	Stainless cleaner Ecolab	1QT	UO	Water, mineral oil Sodium	0	Y
	Restroom cleaner	1QT	UO	Not	0	Y
	Kay Remove Oven Cleaner	1QT	UO	NL	0	Y
	Kay window	1QT	UO	NL	0	Y
	Exceed window	1QT	UO	NL	0	Y
	Ecolab Dryall	1gal	UO	NL	0	Y
	Kay No Thaw	1gal	UO	NL	0	Y
	Food Syrups	Vario	UO	NL	0	Y
	Gas tanks	Vario	U	NL	0	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.

NL = Not Listed

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 Celeste Foster Date/Time Prepared 9/22/2011

Preparer's Affiliation AECOM Phone No. 845.425.4980

Purpose of Investigation SVI Farmingdale Plaza Cleaners
before SVE system is turned on

1. OCCUPANT: NONE

Interviewed: Y / (N)

Last Name: — First Name: —

Address: 450 Main STREET FARMINGDALE NY

County: Suffolk

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location 0* Age of Occupants various

*The tested portion of building is vacant (supermarket/drycleaners)
2 units still in use
(chinese food store & card store)
~4 employees

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) 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? 4

If the property is commercial, type?

Business Type(s) closed supermarket, closed dry cleaner, open chinese food store, open card store

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

Other characteristics:

Number of floors 1 Building age built 1983

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

STAGNANT

Outdoor air infiltration

INSIDE

Infiltration into air ducts

STAGNANT

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

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type: N/A	full	crawlspace	(slab)	other _____
c. Basement floor:	(concrete)	dirt	stone	other _____
d. Basement floor:	uncovered	(covered)	covered with TILE	
e. Concrete floor:	unsealed	(sealed)	sealed with paint/tile	
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: 0 (feet)

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

drains numerous, currently capped.

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: GAS

Boiler/furnace located in: Basement Outdoors (Main Floor) Other _____

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.

NOT CURRENTLY CONNECTED

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	STORES, closed supermarket/drycleaner, open chinese food/card store
2nd Floor	
3rd Floor	
4th Floor	

not evaluated during this sampling event

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? _____

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

* SVE system installed, not yet operational

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) N/A

a. Provide reasons why relocation is recommended: _____

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

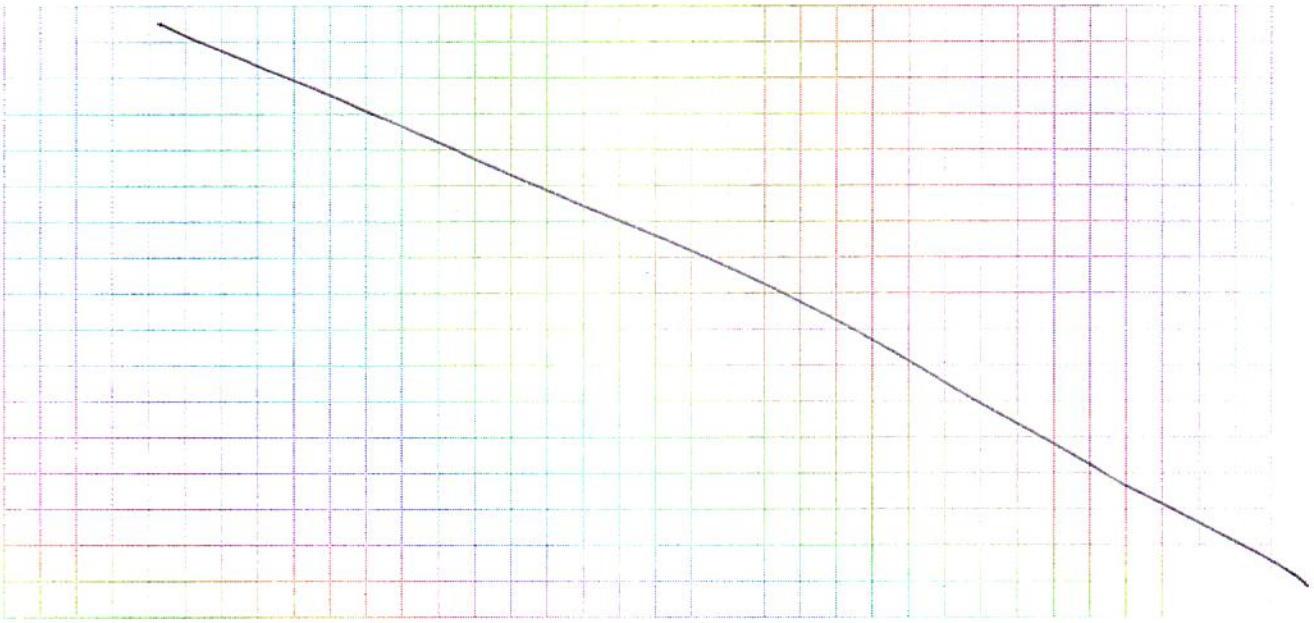
c. Responsibility for costs associated with reimbursement explained? Y / N

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

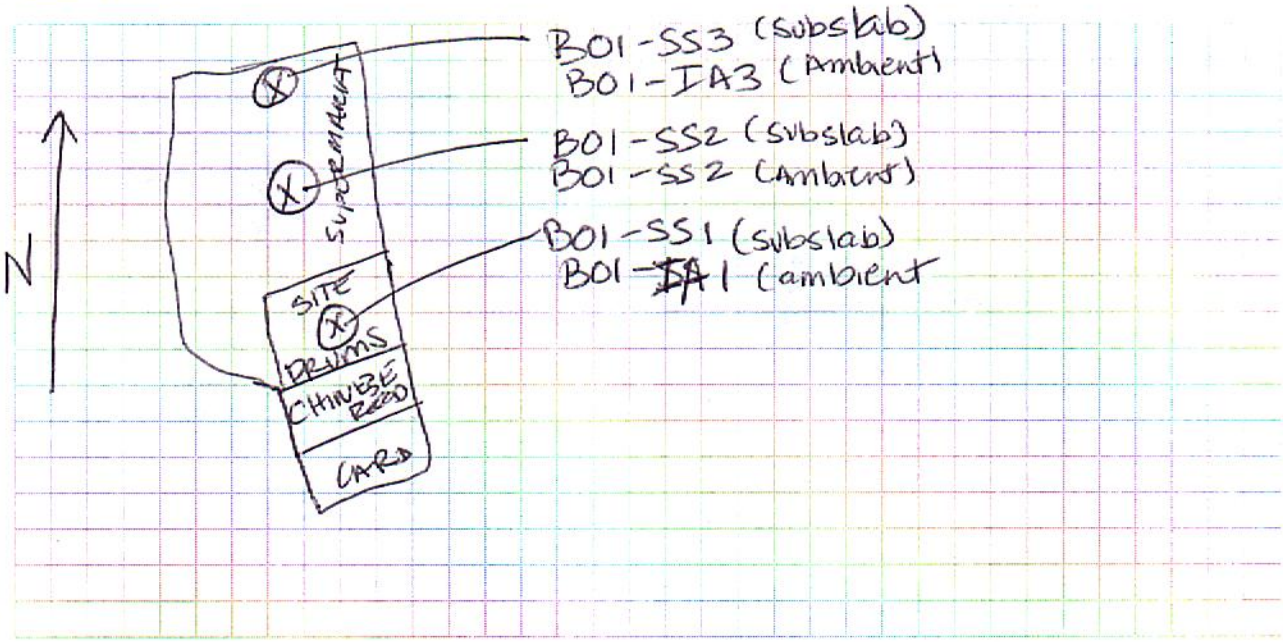
11. FLOOR PLANS

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:



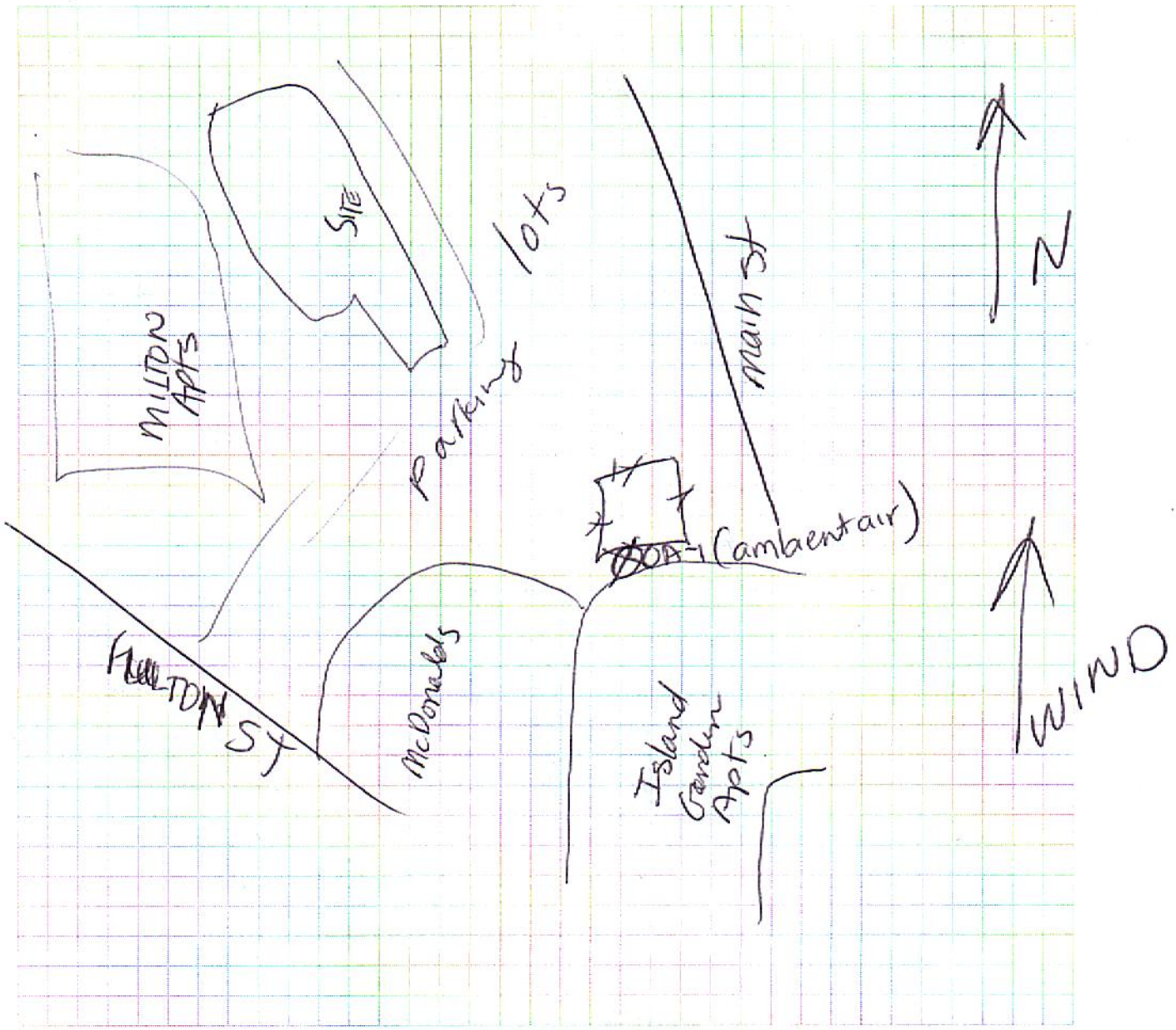
First Floor:



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: MiniRae PID ppm

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
previous SITE	DRUMS X12	55 gal	U	assumed IDW	0	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.

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 Celeste Foster Date/Time Prepared 1/5/2012

Preparer's Affiliation AECOM Phone No. 845.425.4980

Purpose of Investigation SVI Farmingdale Plaza Cleaners after SVE system turned on

1. OCCUPANT: None

Interviewed: Y / (N)

Last Name: — First Name: — Tested portions of building are vacant (supermarket/dry cleaners) 2 units still in use (chinese food store and store)

Address: 450 main Street, Farmingdale, NY

County: Nassau

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: _____

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? 4

If the property is commercial, type?

Business Type(s) Closed Supermarket, Closed dry cleaner, open chinese food store, open card store

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

Other characteristics:

Number of floors 1 Building age built 1983

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

STAGNANT

Outdoor air infiltration

Inside

Infiltration into air ducts

Stagnant

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

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type: N/A	full	crawlspace	slab	other _____
c. Basement floor: 1st FLR	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	covered with tile	
e. Concrete floor:	unsealed	sealed	sealed with paint / tile	
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: 0 (feet)

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

Capped 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: gas

Boiler/furnace located in: Basement Outdoors Main Floor Other_____

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.

Not connected

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	Stores: closed super market, closed dry cleaner (both decommissioned), open chinese food, open card store
2nd Floor	
3rd Floor	
4th Floor	

not tested

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? _____

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)
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: _____ * SVE system
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

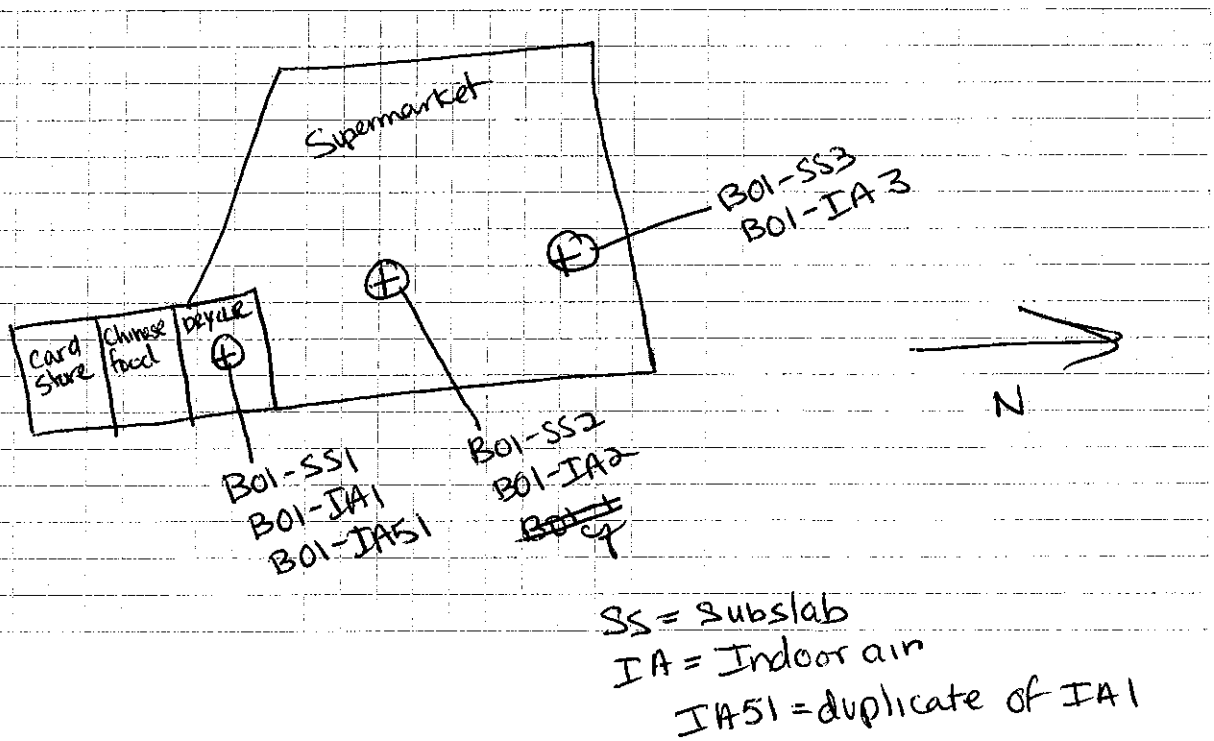
d. Relocation package provided and explained to residents? Y / N

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:**~~ None

First Floor:

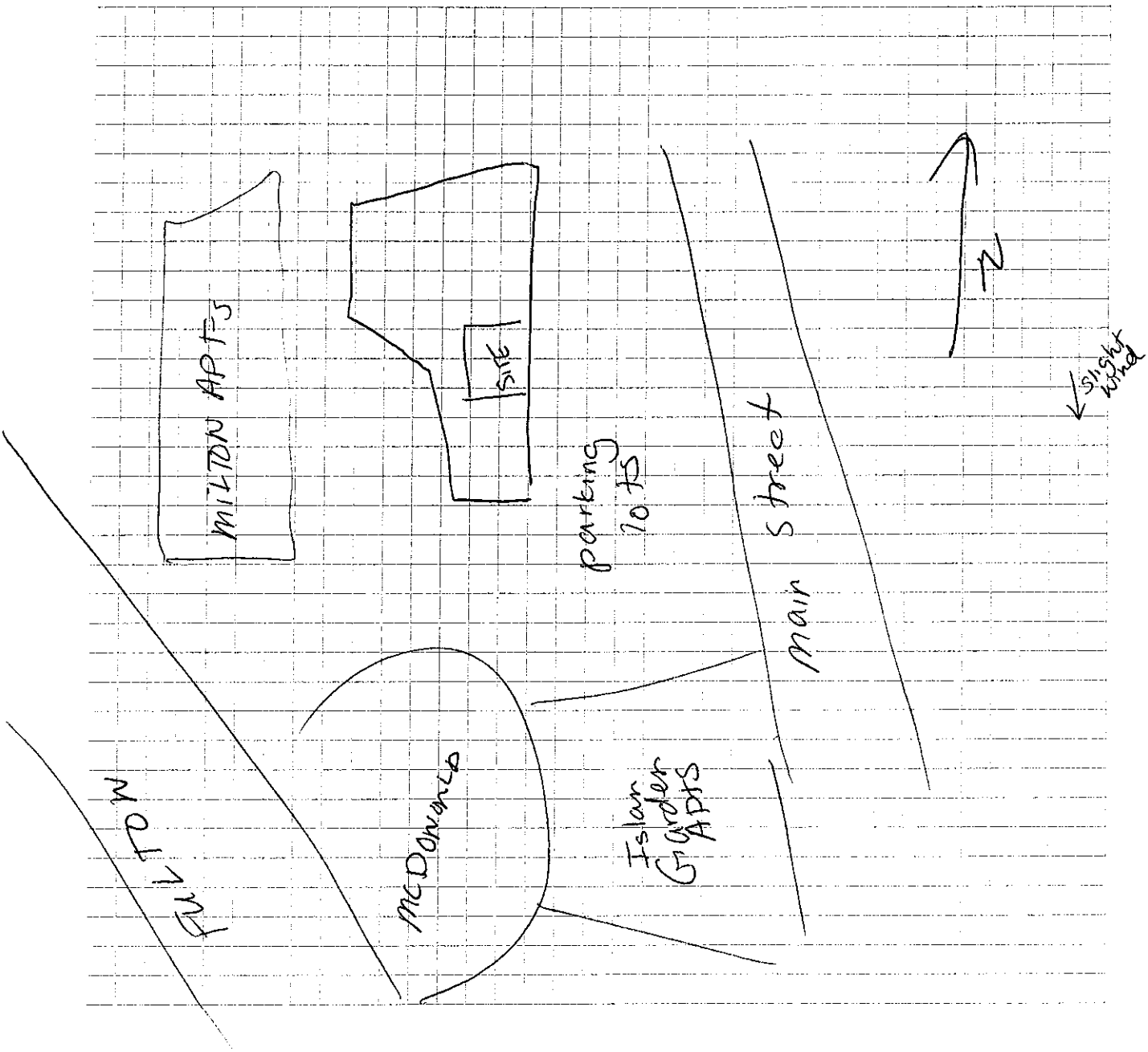


SS = Subslab
IA = Indoor air
IA51 = duplicate of IA1

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.



* No inventory - sampled decomissioned supermarket & drycleaner

Background PID = 0.0 ppm with miniRae

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 Celeste Foster Date/Time Prepared 1/4/2012

Preparer's Affiliation AECOM Phone No. 845.425.4980

Purpose of Investigation SVI Farmingdale Plaza Dry Cleaners after SVE system turned on @ site

1. OCCUPANT:

Interviewed: Y (N)

Last Name: _____ First Name: Jose

Address: 490 Main Street, Farmingdale NY

County: ~~Suffolk~~ Nassau

Home Phone: _____ cell ~~Office~~ Phone: 347.538.3672

Number of Occupants/persons at this location 40 Apts Age of Occupants various

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) ~~Industrial~~ School Church Commercial/Multi-use 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:_____

Co-operative, 3 buildings (A1-12, B1-12, C1-16)

If multiple units, how many? 40 Apts

If the property is commercial, type? N/A

Business Type(s) _____

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

Other characteristics:

Number of floors 2+ Building C has partial basement & partial crawl space Buildings A & B have crawl spaces

Building age 1961

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

Stagnant

Airflow near source

Stagnant

Outdoor air infiltration

Inside

Infiltration into air ducts

Into ducts

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

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type:	full	crawlspace	(slab)	other _____
c. Basement floor:	(concrete)	dirt	stone	other _____
d. Basement floor:	(uncovered)	(covered)	covered with Tile in Laundry Rm.	
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		By Laundry Machine	

Basement/Lowest level depth below grade: 5 (feet)

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

Sump pump. Slab in crawl space is very thin, possible cracks further in, crack along wall into crawlspace in work room.

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: OIL

Boiler/furnace located in: (Basement) Outdoors Main Floor Other_____

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.

None

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	Partially ic Only, laundry room, meter room, storage/work
1st Floor	Residences
2nd Floor	Residences
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? Unknown

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? _____

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 (unknown) multiple residences
(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)
Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service
(No / Unknown) multiple residences

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

a. Provide reasons why relocation is recommended: _____

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

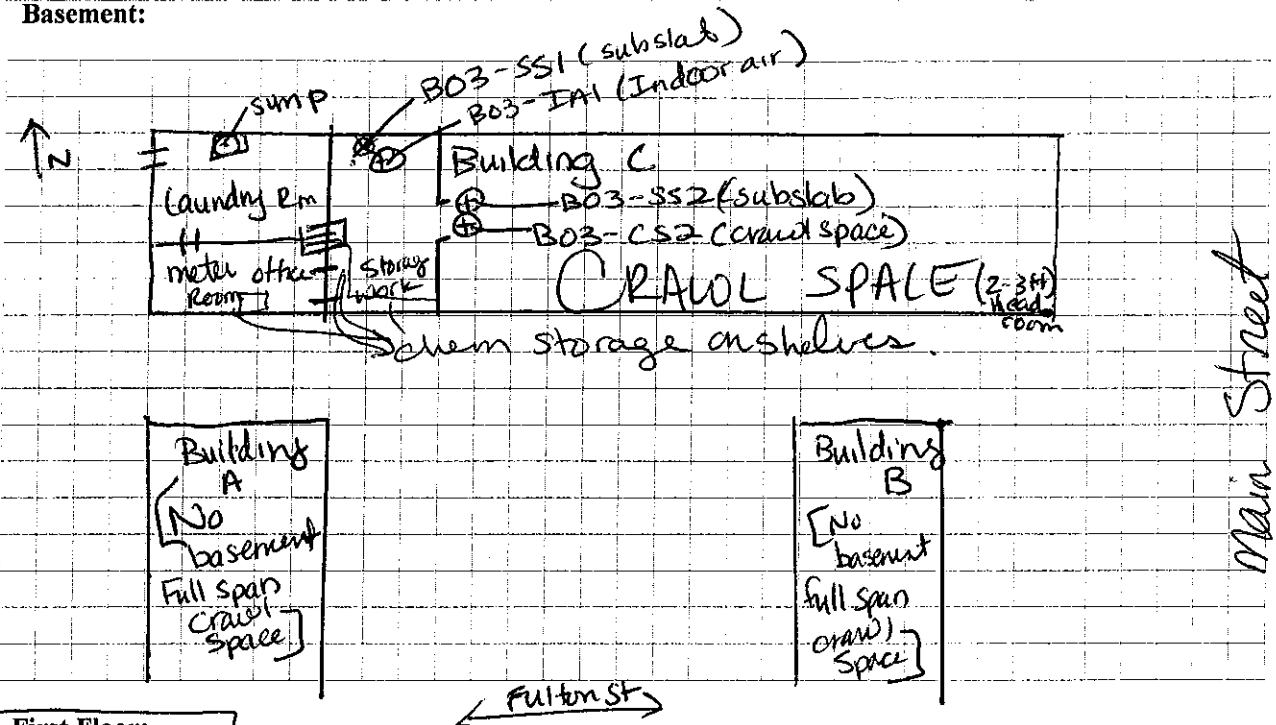
c. Responsibility for ~~costs associated~~ with reimbursement explained? Y / N

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

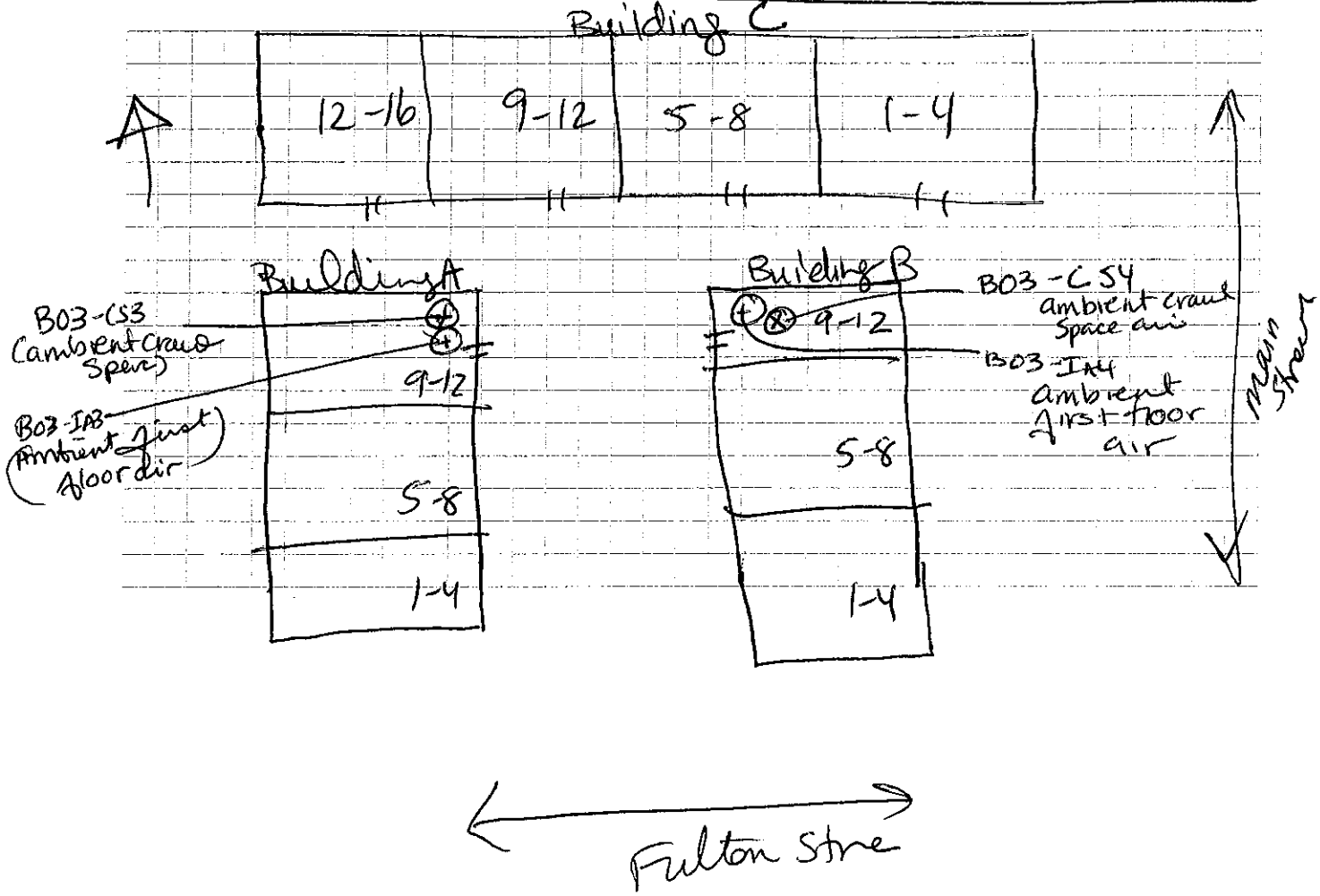
11. FLOOR PLANS

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:



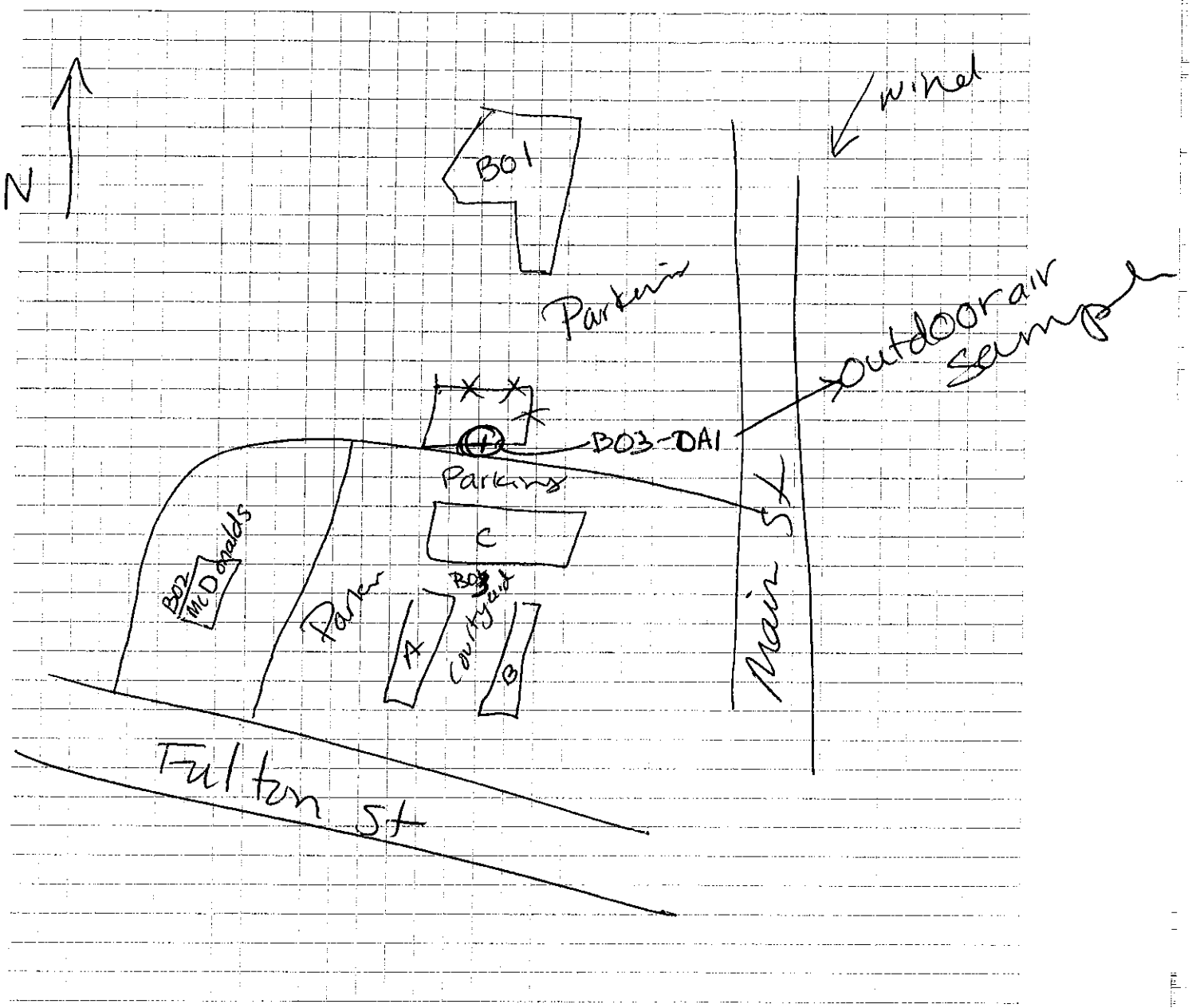
First Floor:



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: PID mini Rae, ppm

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
	premixed thin set ~~SIA~~ mortar ceramic tile	1 gal	U	water acrylic, mineral spirits acrylic co-polymer, Limestone silica	0	Y
	Drylok fast plug	1 gal	U	NL	0	Y
	Shake-n-Feed	4.5 lb	U	NL	0	Y
	Rust-oleum	18 oz	U	toluene & xylene	0	Y
removed	Krylon High heat Radiator	12 oz	U	NL	1.8	Y
removed	Krylon Interior-Exterior	12 oz	U	NL	0.8	Y
removed	Krylon Spray Adhesive	11 oz	U	NL	0.4	Y
	ACE PVC cement	4 oz	U	NL	0	Y
	Worthington MapPro	14.1 oz	U	NL	0	Y
	Motor oil mobil, castrol x 5	1 liter	UO	NL	0	Y
	Peak Freeze coolant	1 Gal	U	NL	0	Y
	Weldwood spray adhesive	16 oz	U	Hexane, acetone, cyclohexane, propane, ~~solvent~~	0	Y
	400 Heavy duty construction adhesive	10.2 oz	U	petroleum solvent, toluene, acetone, kaolin clay, limestone, methyl acetate	0	Y
	ACE professional construction adhesive	10.5 oz	U	NL 10.38 g/L VOCs	0	Y
	GE Kitchen & bath silica	10.1 oz	U	methoxypolydimethylsiloxane, silica, polydimethylsiloxane (VOCs < 50 g/L)	0	Y
	Tanglefoot Bird repellant	10 oz	U	polybutene, others	0	Y
	Valvoline transmission fluids	1 liter	U	NL	0	Y
	Xcel, Gear oil	1 QT	U	NL	0	Y
	Homelite Bar & chain oil	1 QT	U	NL	0	

* 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.

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
	sta-bil fuel stabilizer	10oz	U	Petroleum distillate	0	Y
	plumbers putty	14oz	U	NL	0	Y
	minwax woodfile	12oz	U	aromatic hydrocarbons styrene	0	Y
	megaloc thread sealant x4	8oz	UO	NL	0	Y
	Gunk silica spray x2	11oz	UO	petroleum distillate, mineral oil, [illegible], CO_2	0	Y
	Sid harveys all purpose lubricating oil	1qt	U	mineral oils additives ~~[illegible], Isopropanol, Carbon dioxide propellant, [illegible]~~	0	Y
	WD-40 x6	8oz	U & UO	NL	0	Y
	CPS electro cleaner	11oz	U	Isohexane, Isopropanol, Carbon dioxide propellant hexane	0	Y
	Rover rust remover	16oz	U	7631-90-5	0	Y
	laundry detergent, bleach x2	various	U	NL	0	Y
	driveway & concrete clean	1qt	~~[illegible]~~ U	NL	0	Y
	Fabuloso	1qt	U	NL	0	Y
	windex	1gal	U	NL	0	Y
	Maintenance one floor fini[sh]	1gal	U	NL	0	Y
	Paint x10	var	U	NL	0	Y
	Tomcat	1lb	U	Bromadiolone	0	Y
office	Flex coat Resin	6½oz	U	NL	0	Y
↓	Flex coat Hardener	6½oz	U	NL	0	Y
↓	Engage Ant Kill	16oz	U	pyrethrines MGK 264 permethrin	0	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.

Polywater	100oz	U	NL	0	Y
Kesor spray	10oz	U	VM&P Naphtha, propane, isobutyl acetate	0	Y
Stihl Engine oil	6.4oz	UO	NL	0	Y

Stain X	Stain remover	602 Used	NL	O	Y
Rugdoctor upholstry cleanr	lgt	U	NL	O	Y
spray Nine	lgt	U	n-alkyl dimethyl benzyl ammonium chloride	O	Y
Spot shot cleanr	200z	U	NL	O	Y
409	lgt	U	NL	O	Y
Klean strip	Stripper	lgal	U	NL	O	Y
Spic & Span	220z	U	octyl decyl dimethyl ammonium chloride totals	O	Y

Stain X	Stain remover	602	Used NL	O	Y
Rugdoctor upholstry cleaner	lgt	U	NL	O	Y
spray Nine	lgt	U	n-alkyl dimethyl benzyl ammonium chloride	O	Y
Spot shot cleaner	20oz	U	NL	O	Y
409	lgt	U	NL	O	Y
Klean strip Stripper	1gal	U	NL	O	Y
Spic & Span	22oz	U	octyl decyl dimethyl ammonium chloride totms	O	Y

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 Celeste Foster Date/Time Prepared 1/5/2012

Preparer's Affiliation AECOM Phone No. 845-425-4980

Purpose of Investigation SVE Investigation Farmingdale Plaza Cleaners after SVE System turned on

1. OCCUPANT:

Interviewed: Y / (N) info based on brief discussion & previous questionnaire & extensive inventory survey

Last Name: _____ First Name: _____

Address: 655 Fulton, St Farmingdale NY

County: ~~St~~ Nassau

Home Phone: _____ Office Phone: 516-752-8070

Number of Occupants/persons at this location 10employees +customers Age of Occupants Various

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

Interviewed: Y / (N)

Last Name: Disney First Name: Rick

Address: _____

County: _____

Home Phone: _____ cell ~~Office~~ Phone: 516-443-3066

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) 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? N / A

If the property is commercial, type?

Business Type(s) McDonalds

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

Other characteristics:

Number of floors 1 + Basement Building age built 1973

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

up stairs

Airflow near source

Stagnant

Outdoor air infiltration

Inside

Infiltration into air ducts

slowly into ducts

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

a. Above grade construction:	wood frame	concrete	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) * 2 drains, one w/ metal cover, possibly sump?			
k. Water in sump?	Y / N / not applicable			

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

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

2 drains, metal cover

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: same

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other_____
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.

tight, good condition

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 / freezer
1st Floor	restaurant / kitchen
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?_____

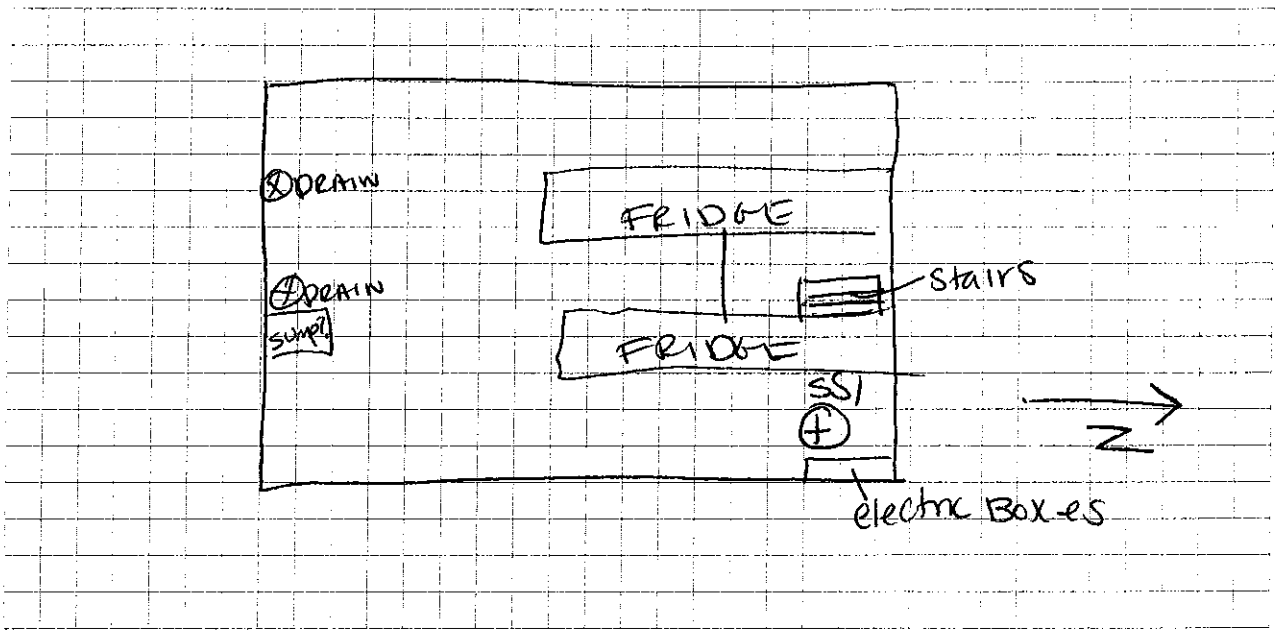
h. Have cleaning products been used recently? (Y) / N When & Type? daily

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

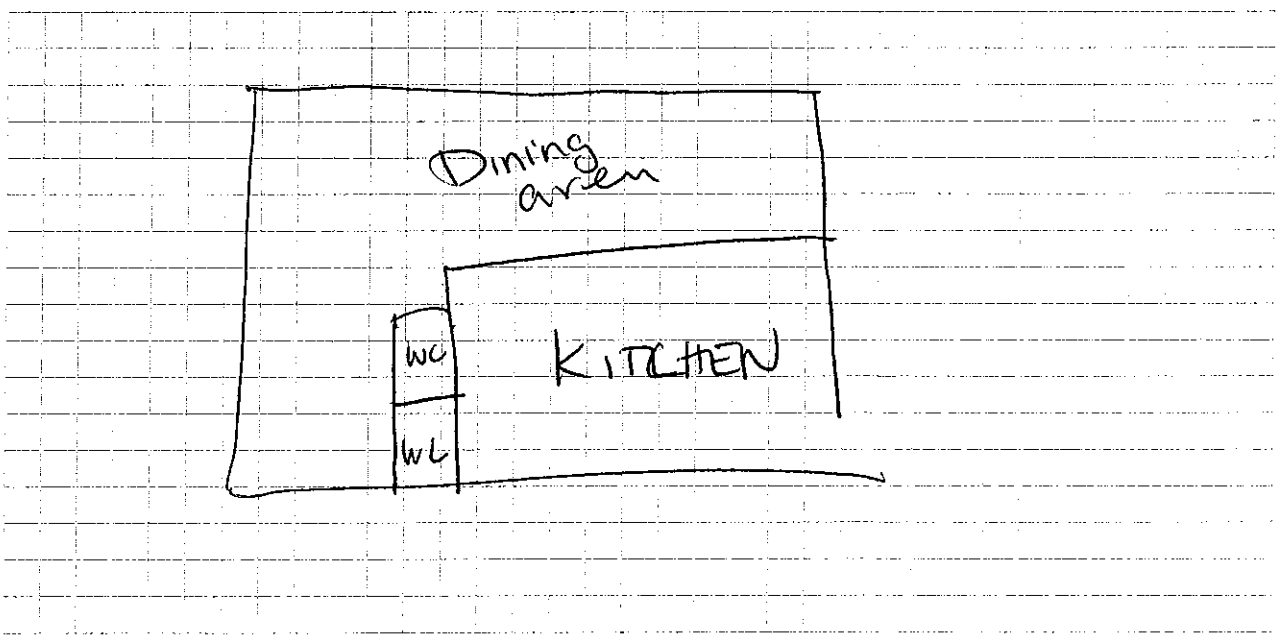
11. FLOOR PLANS

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:



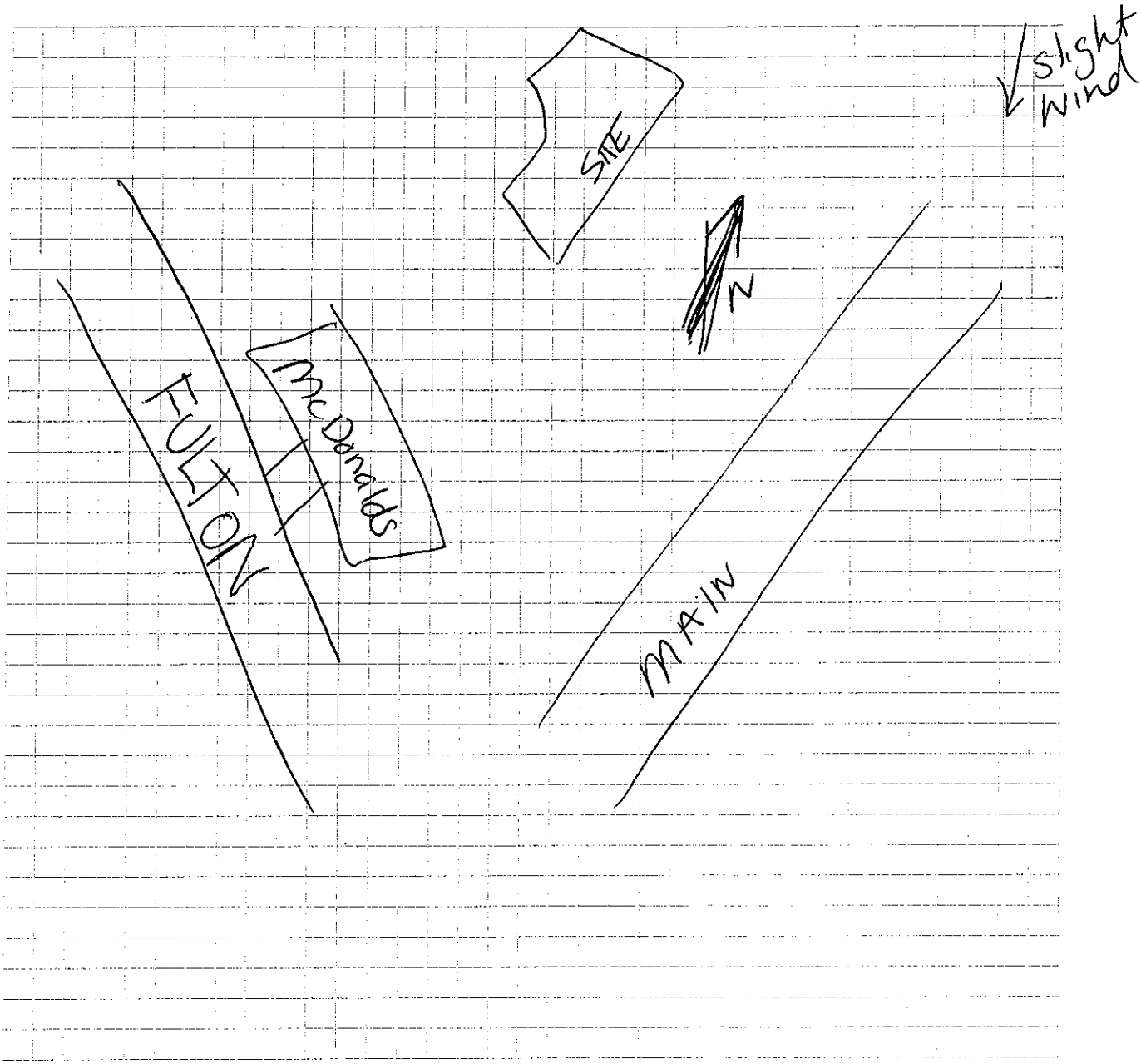
First Floor:



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: PID Mini Rae ppm

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
Basement	Solid Sense Floor Care B	2.5 lbs	UO	Sodium Dodecylbenzensulfonate Alcohols, glycols, tother	0	Y
↓	Solid sense Floor Care A X2	2.25 lb	UO	same	0	Y
↓	Anti bacterial Hand Soap	x3	UO	NL	0	Y
	Kay solidsense Sanitizer X2	2 lb	UO	ammonium chlorides	0	Y
	mcdonalds Degreaser solution	x 3	U	alkaline salts	0	Y
	mcdonalds All purpose cleaner solution X2	y5	U	synthetic detergents	0	Y
	McDonalds Exceed	x5	U	synthetic detergents	0	Y
	Kay degreaser	1 gal X2	UO	NL	0	Y
	Kay Glass & Multi Surface Cleaner	1 gal X4	UO	NL	0	Y
	Kay Fryer cleaner x5	20oz	UO	NL	0	Y
	Ecolab Esteem dry all	1 gal X3	UO	NL	0	Y
	Kay No thaw Freezer Coil Cleaner	1/2 gal	U	NL	0	Y
	McDonalds solid tower detergent	X6 20oz	UO	1,2,3 propanetricarboxylic acid 2 hydroxy trisodium salt tetrahydrate	0	Y
	Kay Hi Temp Grill Clean	X50 3.6oz	UO	NL	0	Y
	Kay Bio Shield	X52 4oz	UO	NL	0	Y
	Solid sense all purpose Supercon	2.3 lb X2	UO	NL	0	Y
	Sink sanitizer key	1.00z X20	UO	~~NaOH~~ Sodium dichloro-s triazinetrione dihydrate	0	Y
	Kay delime	20z X8	UO	NL	0	Y
	Kay hand sanitizer	27oz X6	UO	NL	0	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.

See back

Description	size	condition	Ingredients	PID	photo
Powder bleach	2.45oz	UO	NL	0	Y
Food products drink products Boxes of unopened cleaners	all unopened			0 0	Y Y
Liquid carbon Dioxide tank	100gal	U	CO_2	0	Y
Gas tanks	Vars	U	NL	0	Y

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 Celeste Foster Date/Time Prepared 3/28/2012

Preparer's Affiliation AECOM Phone No. 845-425-4980

Purpose of Investigation SVI Farmingdale Plaza Cleaners after SVE system turned on

1. OCCUPANT:

Interviewed: Y / (N) Site Building

Last Name: — First Name: — Tested portions are vacant (supermarket dry cleaners)

Address: 450 Main St, Farmingdale NY 2 units in use Chinese food & card store

County: Nassau

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: _____

no changes to questionnaire from Jan 2012 unless marked below

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? 4

If the property is commercial, type?

Business Type(s) Closed Supermarket, Closed dry cleaner, open chinese food store, open card store

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

Other characteristics:

Number of floors 1 Building age built 1983

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

STAGNANT

Outdoor air infiltration

Inside

Infiltration into air ducts

Stagnant

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

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other _____
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	covered with tile	
e. Concrete floor:	unsealed	sealed	sealed with paint / tile	
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: 0 (feet)

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

Capped 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: gas

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other_____
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.

Not connected

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	Stores: closed super market, closed dry cleaner (both decommissioned), open chinese food, open card store
2nd Floor	
3rd Floor	
4th Floor	

not tested

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? _____

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)
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: _____ # SVE System
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

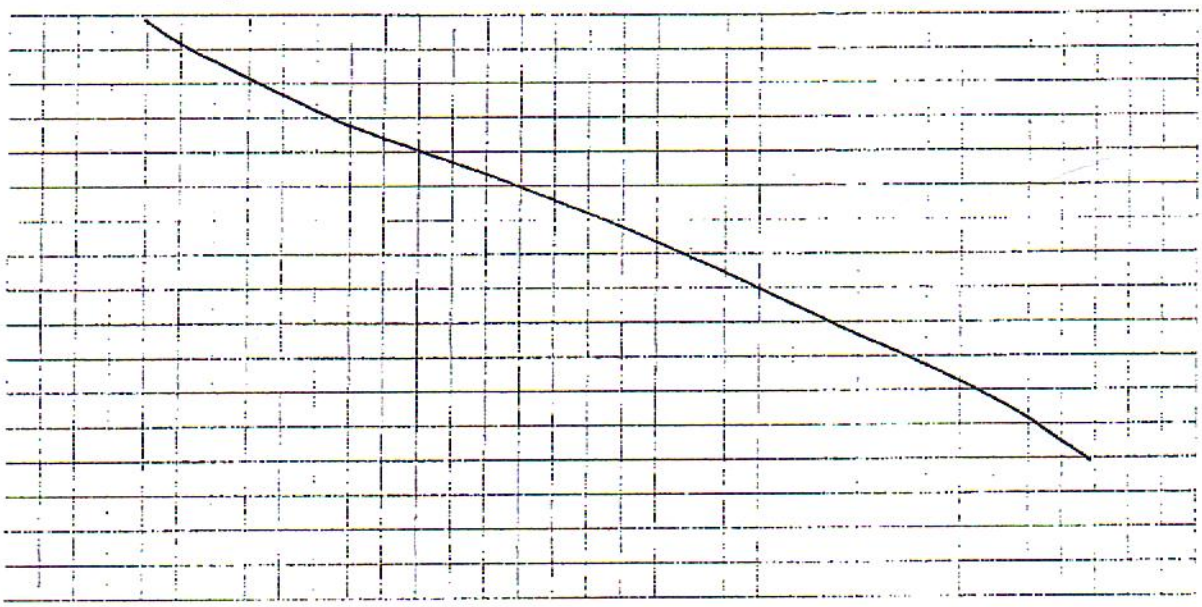
c. Responsibility for costs associated with reimbursement explained? Y / N

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

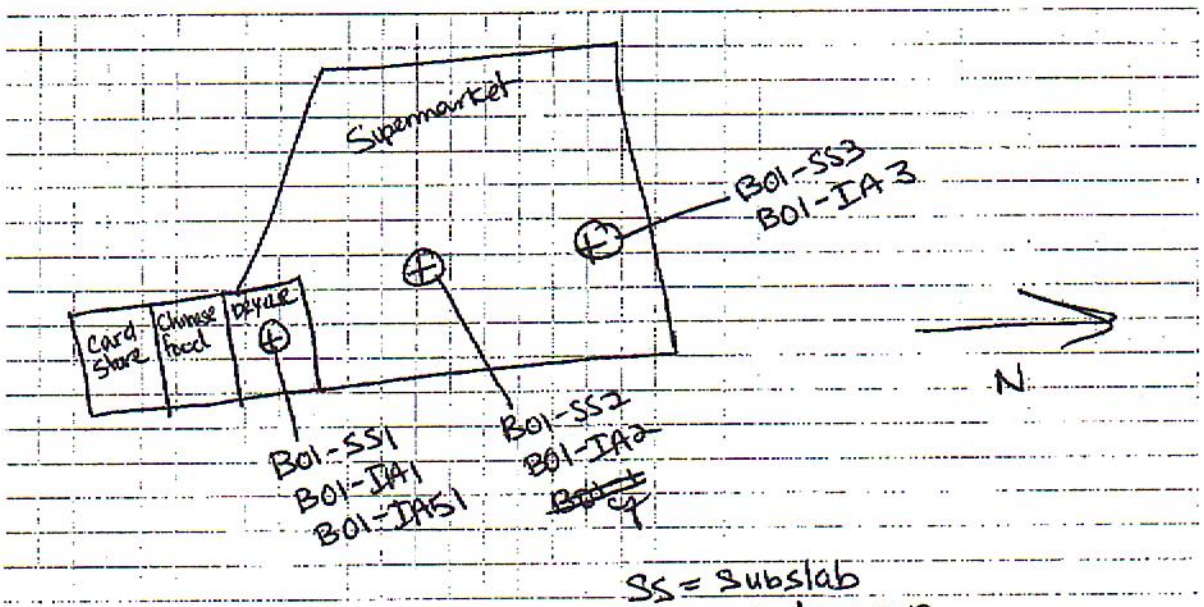
11. FLOOR PLANS

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:~~ None



First Floor:

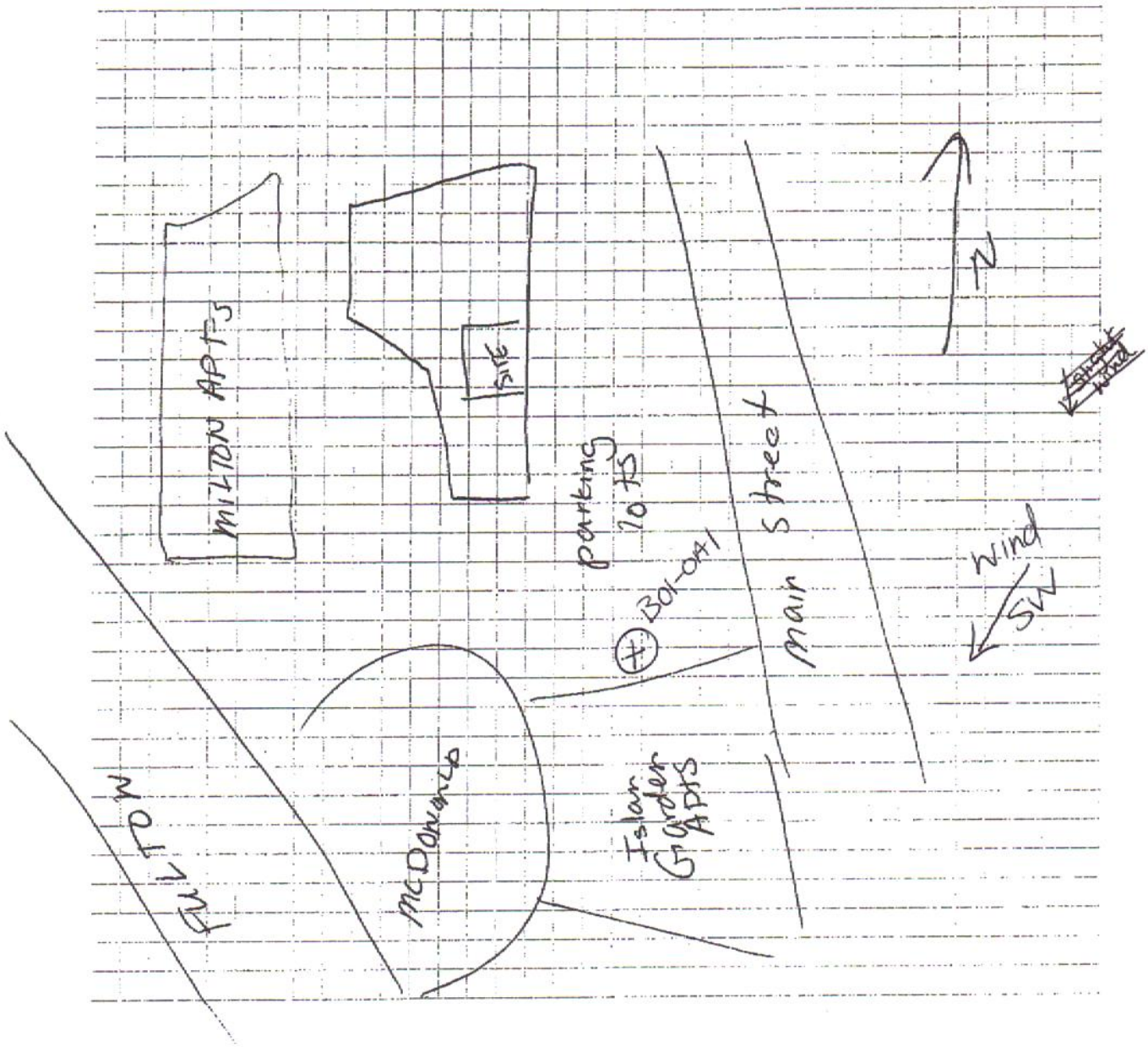


SS = Subslab
IA = Indoor air
IA51 = duplicate of IA1

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.



* No inventory - sampled decommissioned supermarket & drycleaner

Background PID = 0.0 ppm with miniRae

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 Celeste Foster Date/Time Prepared 3/28/2012

Preparer's Affiliation AECOM Phone No. 845-425-4980

Purpose of Investigation SVI Farmingdale Plaza Post SVE Systm

1. OCCUPANT:

Interviewed: Y (N)

Last Name: _____ First Name: Jose

Address: 490 Main street Island Gardens Co-op Apt.

County: Nassau

Home Phone: _____ ~~Office~~ Cell Phone: 347.538.3672

Number of Occupants/persons at this location 40 Apts Age of Occupants various

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: _____

No changes to questionaire from Jan 2012 unless marked below

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:_____

Co-operative, 3 buildings (A 1-12, B 1-12, C 1-16)

If multiple units, how many? 40 Apts

If the property is commercial, type? N/A

Business Type(s) _____

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

Other characteristics:

Number of floors 2+ Building C has partial basement & partial crawl space Buildings A E B have crawl spaces

Building age 1961

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

Stagnant

Airflow near source

Stagnant

Outdoor air infiltration

Inside

Infiltration into air ducts

Into ducts

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

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type:	full	crawlspace	(slab)	other _____
c. Basement floor:	(concrete)	dirt	stone	other _____
d. Basement floor:	(uncovered)	(covered)	covered with Tile in Laundry Rm.	
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) > By Laundry Machine			

Basement/Lowest level depth below grade: 5 (feet)

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

Sump pump, Slab in crawl space is very thin, possible cracks further in, crack along wall into crawlspace in work room.

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: OIL

Boiler/furnace located in: (Basement) Outdoors Main Floor Other_____

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

4

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.

None

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	Partially ic Only, laundry room, meter room, storage/work
1st Floor	Residences
2nd Floor	Residences
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? Unknown

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? _____

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 (unknown) multiple residences
(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)
Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service
(No / Unknown) multiple residences

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

a. Provide reasons why relocation is recommended: _____

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

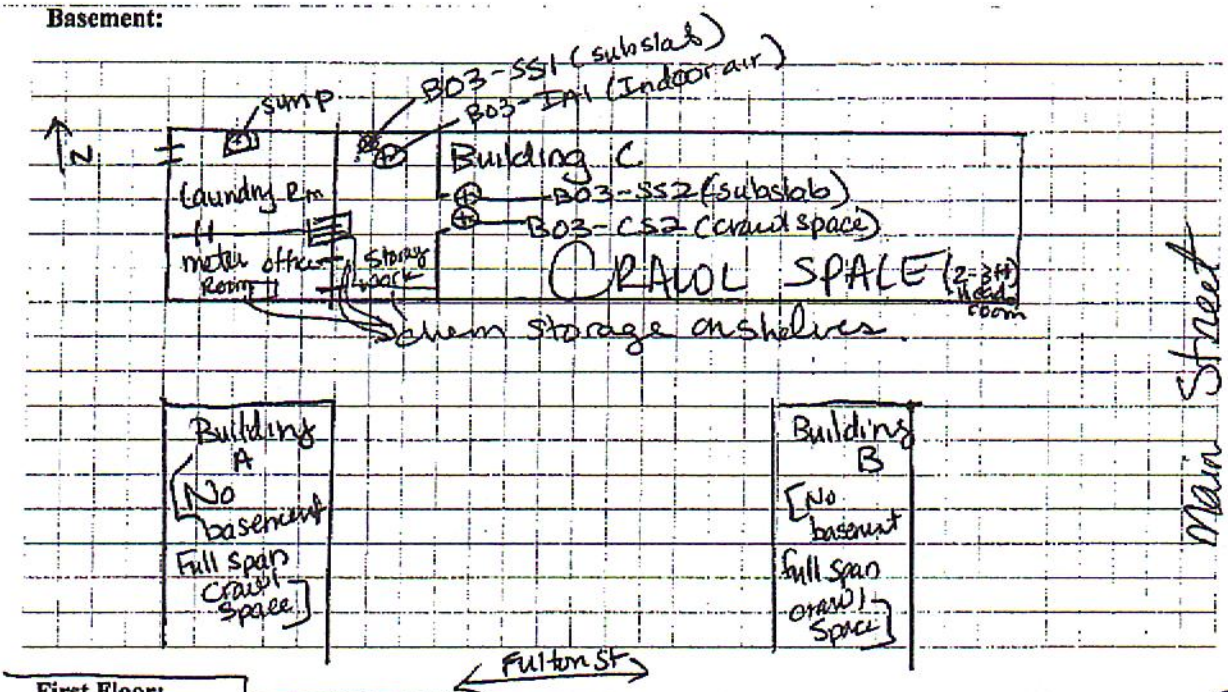
c. Responsibility for costs associated with reimbursement explained? Y / N

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

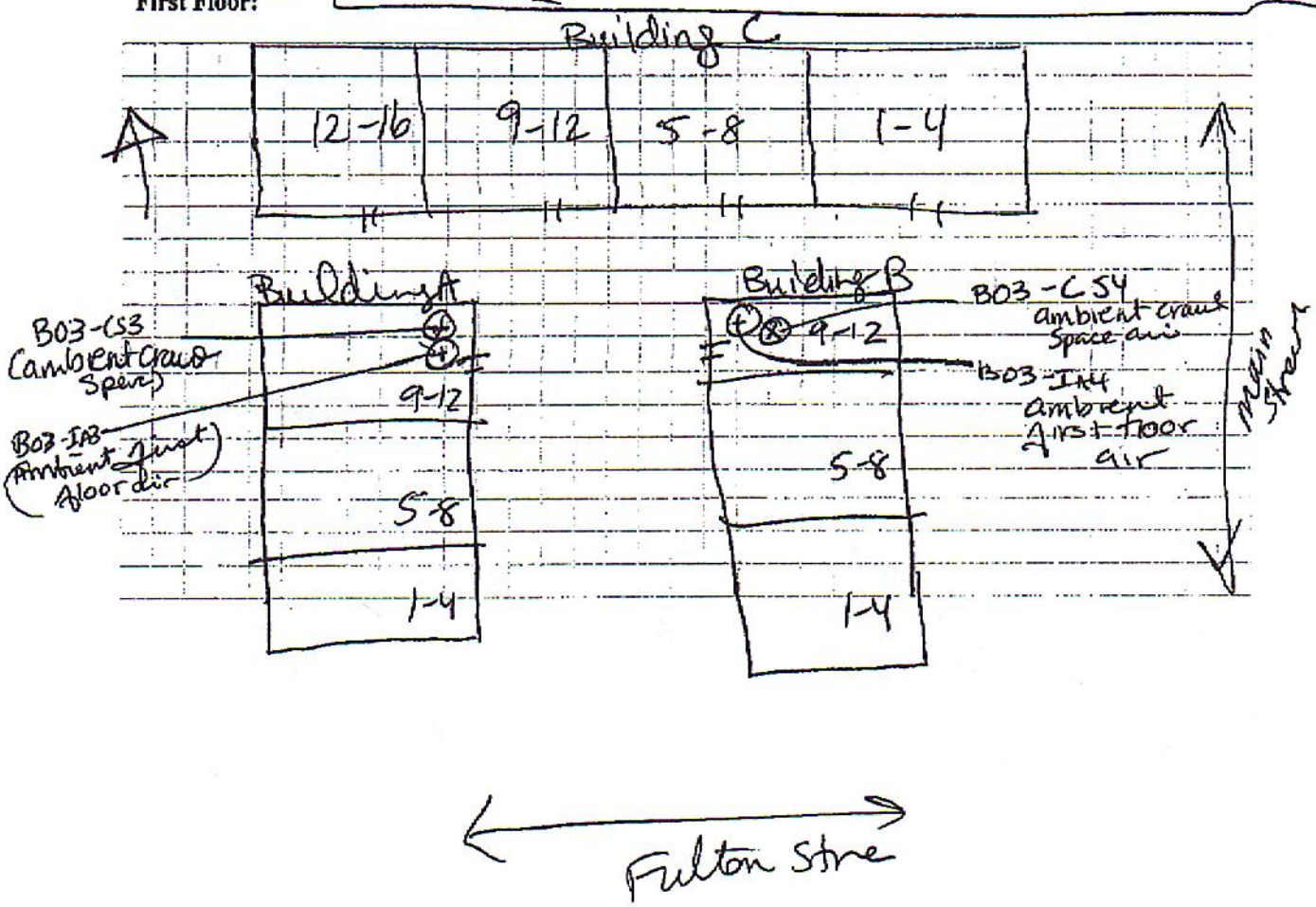
11. FLOOR PLANS

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:



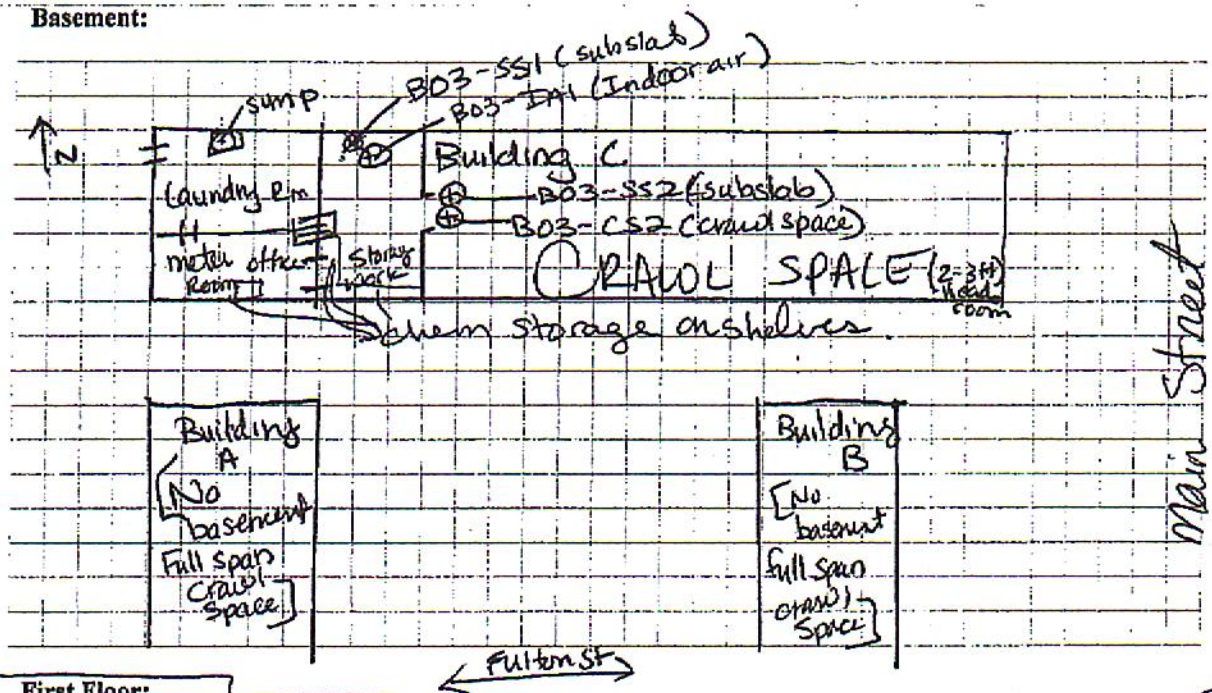
First Floor:



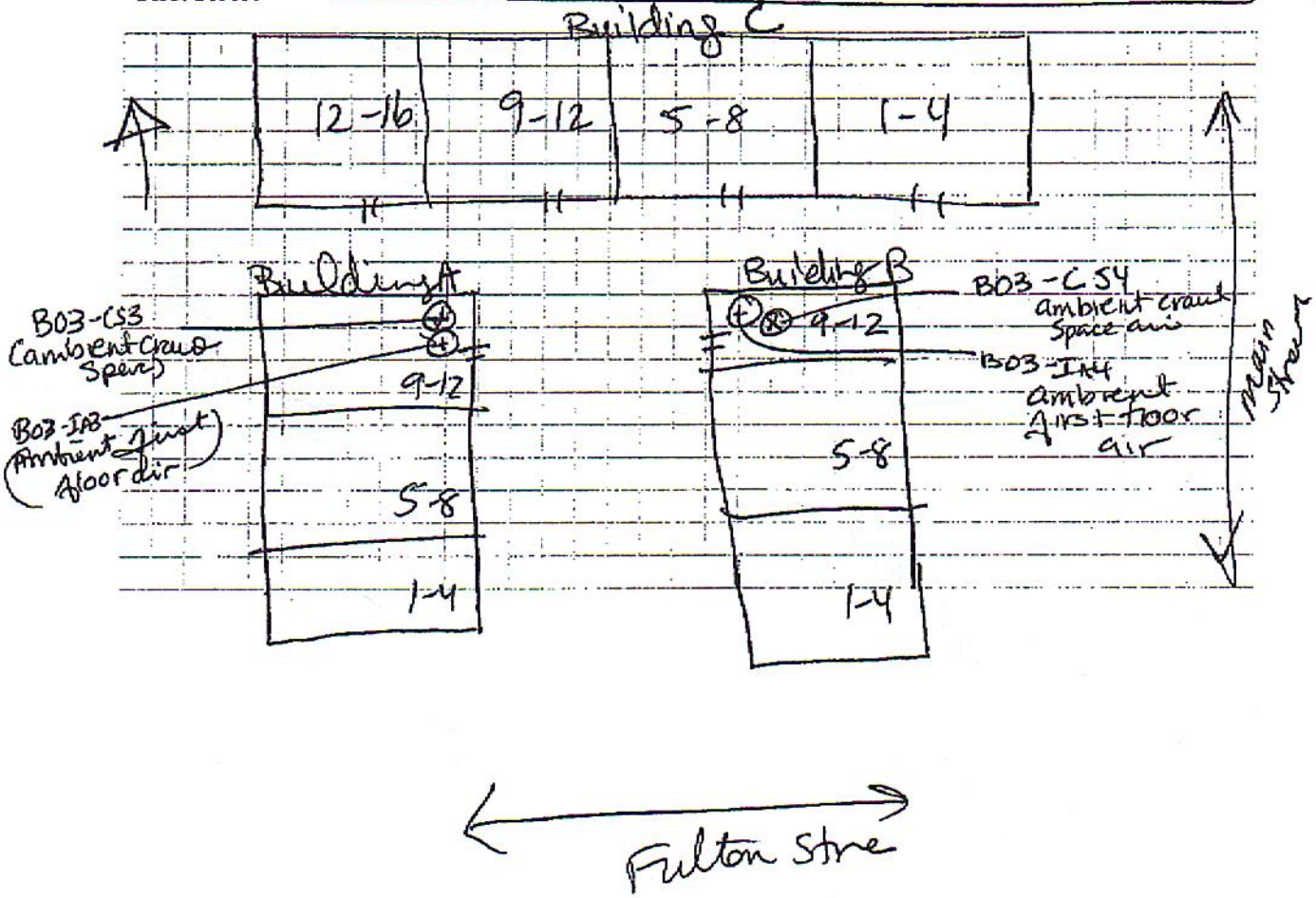
11. FLOOR PLANS

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:



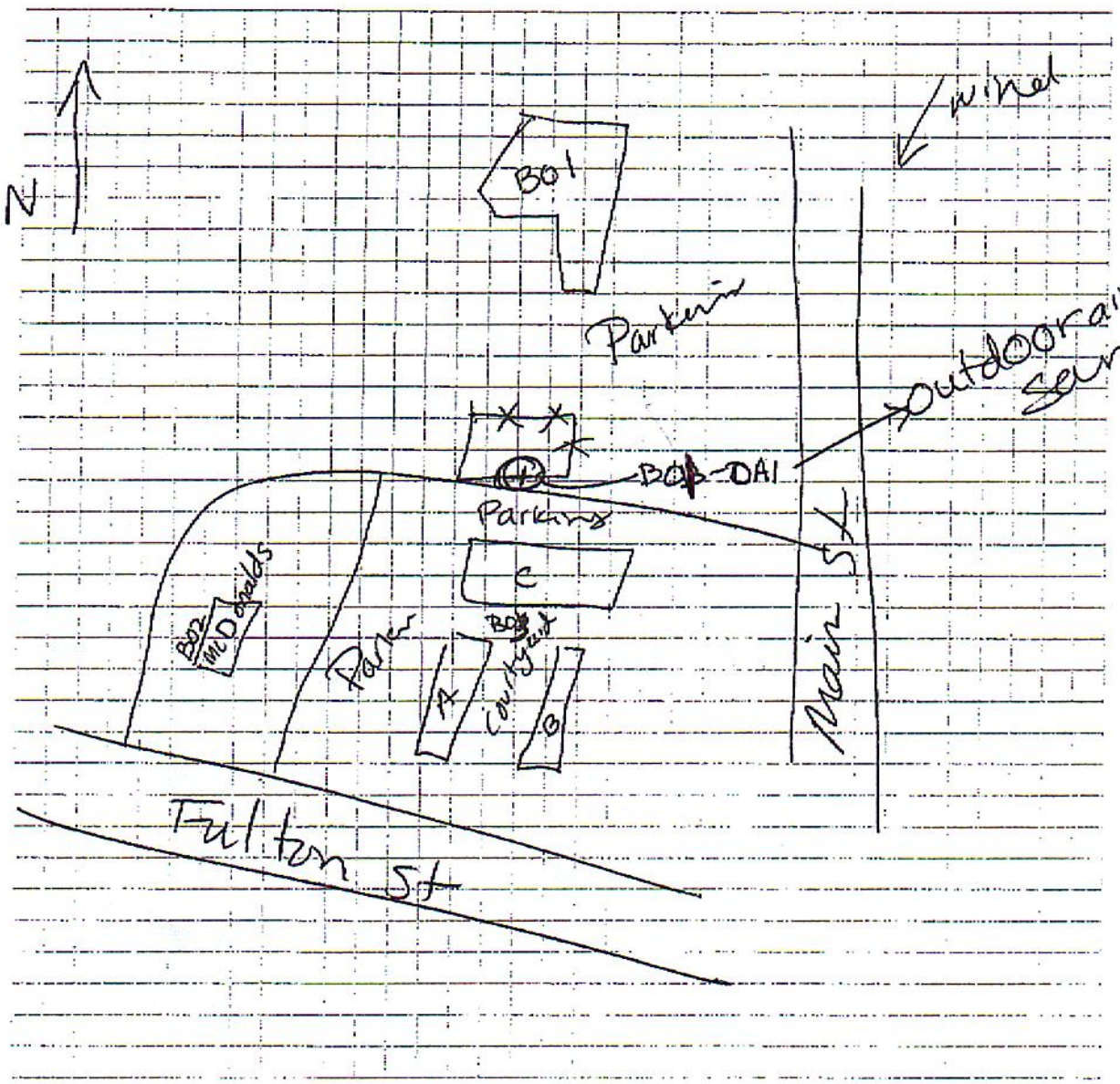
First Floor:



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: PID mini rae. ppm

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
	premixed thin set ~~SPA~~ mortar ceramic tile	1ga	U	water acrylic, mineral spirits, acrylic co-polymer, Limestone silica	0	Y
	Drylok fast plug	1gal	U	NL	0	Y
	Shake-n-Fuel	4.5lb	U	NL	0	Y
	Rust-oleum	18oz	U	toluene & xylene	0	Y
removed	Krylon Highheat radiator	8oz	U	NL	[illegible]	Y
removed	Krylon Interior exterior	12oz	U	NL	[illegible]	Y
	Krylon Spray Adhesive	11oz	U	NL	[illegible]	Y
	ACE PVC cement	4oz	U	NL	0	
	worthington mag/pro	14.1oz	U	NL	0	Y
	Motor oil mobil, castrol x5	1qter	UO	NL	0	Y
	Peak Freeze coolant	1Gal	U	NL	0	Y
	Weldwood spray adhesive	16oz	U	Hexane, acetone, cyclohexane propane,	0	Y
	400 Heavy duty construction adhesive	10.2oz	U	petroleum solvent, toluene, acetone, clay, limestone, methyl acetate	0	Y
	ACE professional construction adhesive	10.5oz	U	NL 10.38 L VOCs	0	Y
	GE Kitchen & bath Silica	10.1oz	U	methoxpolydimethylsiloxane Silica polydimethylsiloxane (VOCs < 50 g/L)	0	Y
	Tanglefoot Bird repellant	10oz	U	polybutene toothers	0	Y
	Valvoline transmission fluids	1 liter	U	NL	0	Y
	Xcel, Gear oil	1QT	U	NL	0	Y
	Home lite Bar & chain oil	1QT	U	NL	0	

1.0
0.7
0.2

* 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.

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PID miniRae

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
	sta-bil fuel stabilizer	10oz	U	Petroleum distillate	0	Y
	plumbers putty	14oz	U	NL	0	Y
	miniwax woodfile	12oz	U	aromatic hydrocarbons styrene	0	Y
	megaloc thread sealant X4	8oz	UO	NL	0	Y
	Crank silica spray x2	11oz	UO	petroleum distillate, mineral oil, Bitoxyethanol, CO_2	0	Y
	Sid harveys all purpose lubricating oil	1qt	U	mineral oils additives ~~Isohexane, Isopropanol, carbon dioxide propellant~~	0	Y
	WD-40 x 8	8oz	U & UO	NL	0	Y
	CPS electro cleaner	11oz	U	Isohexane, Isopropanol Carbon dioxide propellant hexane	0	Y
	Rover rust Remover	16oz	U	7631-90-5	0	Y
	laundry detergent, bleach	x2 varies	U	NL	0	Y
	driveway & concrete clean	1qt	~~Unopened~~ U	NL	0	Y
	Fabuloso	1qt	U	NL	0	Y
	windex	1gal	U	NL	0	Y
	maintenance one floor finish	1gal	U	NL	0	Y
	Paint x 10	varies	U	NL	0	Y
	Tomcat	1lb	U	Bromadiolone	0	Y
office	Flex coat Resin	6¼oz	U	NL	0	Y
↓	Flex Coat Hardener	6¼oz	U	NL	0	Y
	~~Ant~~ Enforcer Ant Kill	16oz	U	pyrethrines MGK 264 permethrin	0	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.

polywater	100z	U	NL	0	Y
Keson spray	10oz	U	vm&p naphtha, propane, 130 butyl acetate	0	Y
stile Engine oil	6.4oz	UO	NL	0	Y

PID MiniRae

~~Stain X~~	~~Stain remover~~	8oz Used	NL	O	Y
Rugdoctor upholstry clean	lgt	U	NL	O	Y
~~spray~~ Nine	lgt	U	~~n-alkyl dimethyl~~ alkyl dimethyl benzyl ammonium chloride	O	Y
Spot shot cleaner	20oz	U	NL	O	Y
409	lgt	U	NL	O	Y
Klean strip Stripper	lgal	U	NL	O	Y
Spic & Span	22oz	U	Octyl decyl dimethyl ammonium chloride fatty	O	Y

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 Celeste Foster Date/Time Prepared 3/28/2012

Preparer's Affiliation AECOM Phone No. 845.425.4980

Purpose of Investigation SV1 Farmingdale Plaza after SVE system turned on

1. OCCUPANT:

Interviewed: Y (N) McDonalds

Last Name: _____ First Name: _____

Address: 655 Fulton st, Farmingdale NY

County: Nassau

Home Phone: _____ Office Phone: 516-752-8070

Number of Occupants/persons at this location ~10 employees + customers Age of Occupants range

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

Interviewed: (Y) N

Last Name: Disney First Name: Rick

Address: _____

County: _____

Home Phone: _____ ~~Office~~ Cell Phone: 516-443-3064

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

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

No changes to Jan 2012 questionnaire except as marked below

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? N/A

If the property is commercial, type?

Business Type(s) McDonalds

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

Other characteristics:

Number of floors 1+Basement Building age built 1973

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

up stairs

Airflow near source

stagnant

Outdoor air infiltration

Inside

Infiltration into air ducts

slowly into ducts

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

a. Above grade construction:	wood frame	concrete	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 * 2 drains, one w/ metal cover, possibly sump?			
k. Water in sump?	Y / N / not applicable			

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

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

2 drains, metal covers

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: same

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other_____
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.

tight, good condition

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 / freezer
1st Floor	restaurant / kitchen
2nd Floor	
3rd Floor	
4th Floor	

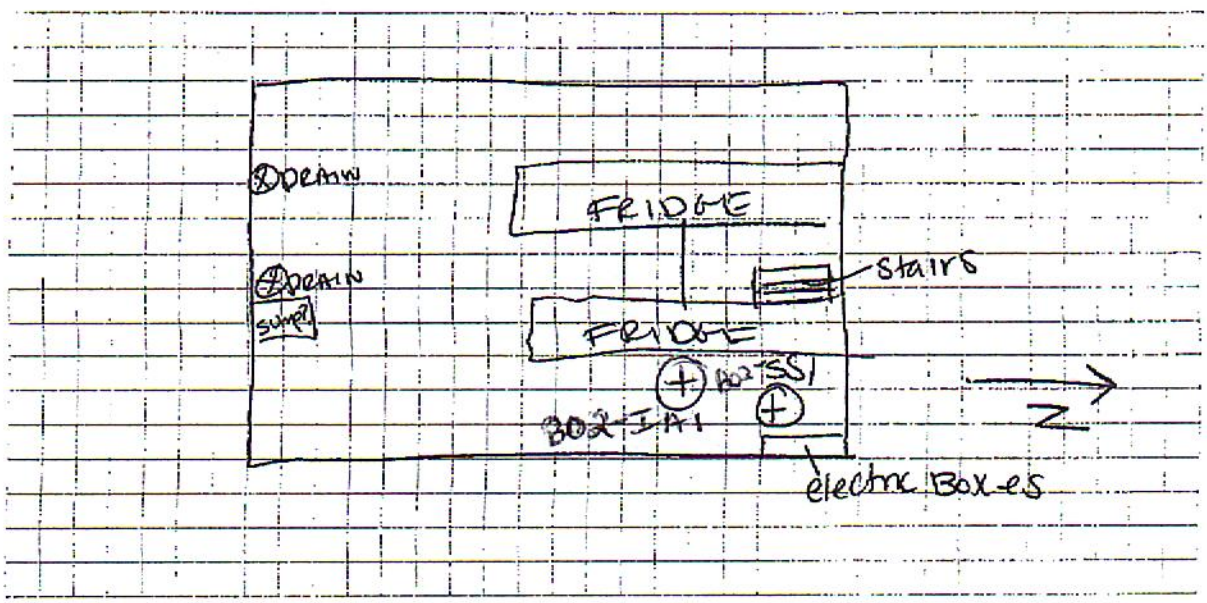
8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

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?

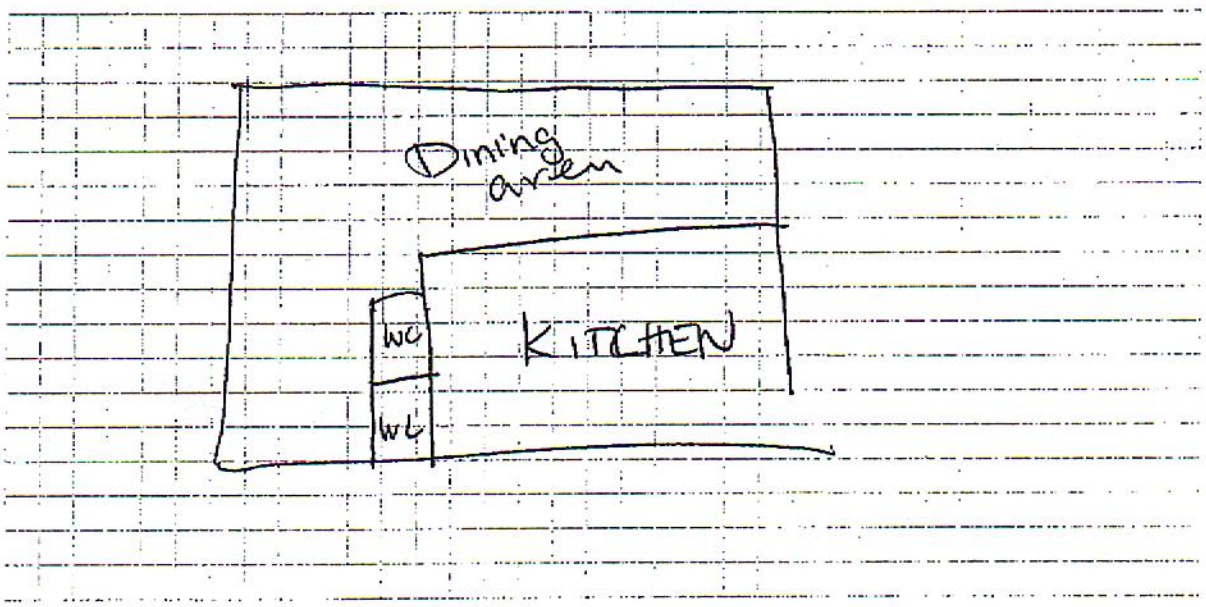
11. FLOOR PLANS

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:



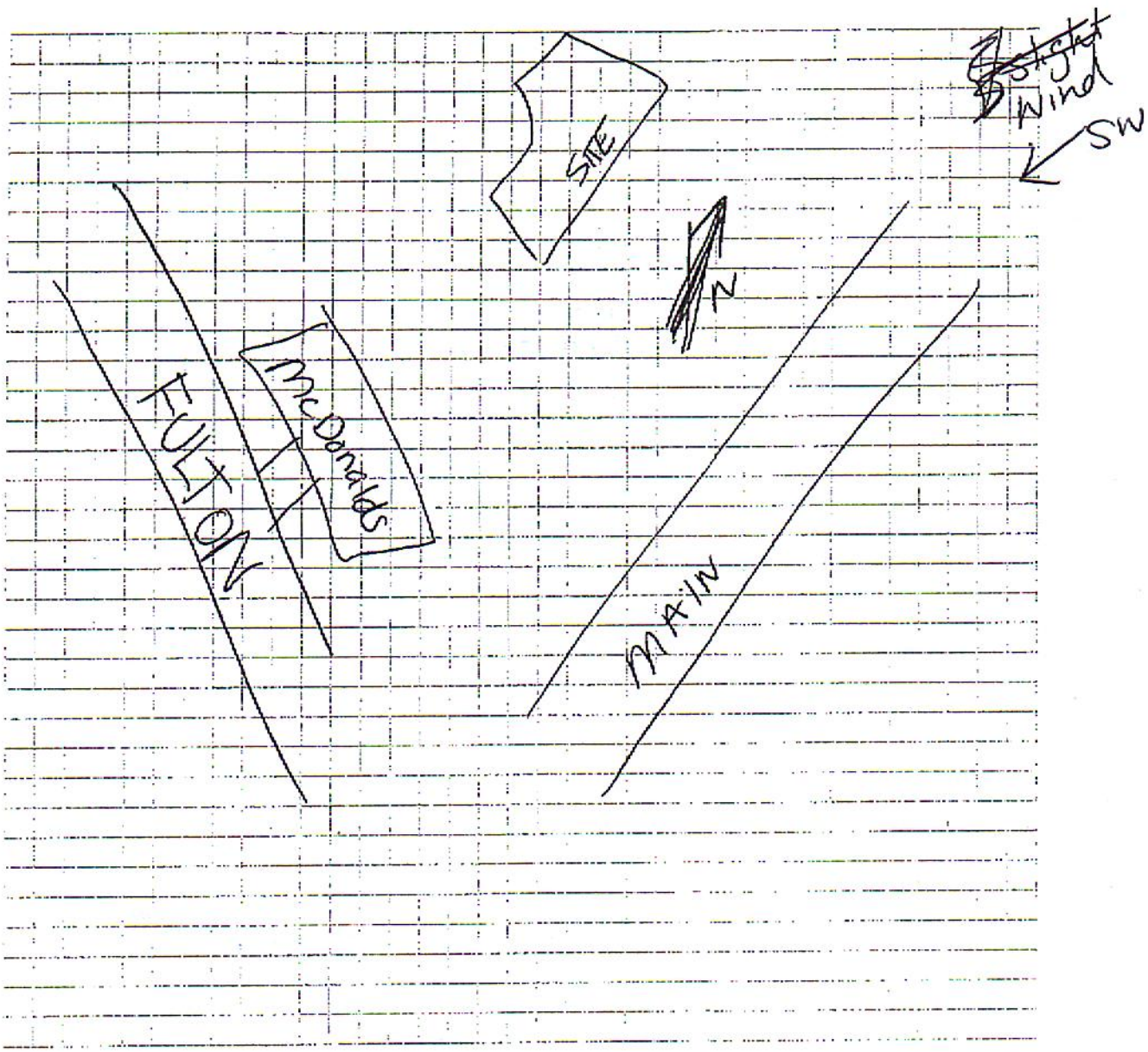
First Floor:



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: PID Mini Rae ppm

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
Basement	Solid Sense Floor-Care B	2.5lbs	UO	Sodium Dodecylbenzensulfonate Alcohols, glycols, +other	0	Y
↓	Solid sense Floor care A X2	2.25lb	UO	same	0	Y
	Antibacterial Hand soap	x3	UO	NL	0	Y
	Kay solidsense Sanitizer	x2 2lb	UO	ammonium chlordes	0	Y
	McDonalds Degreaser Solution	x 3	U	alkaline salts	0	Y
	McDonalds All purpose cleaner solution x2	x5	U	synthetic detergents	0	Y
	McDonalds Exceed	x5	U	synthetic detergents	0	Y
	Kay degreaser	1gal x2	UO	NL	0	Y
	Kay Glass & multisurface cleaner	1gal x4	UO	NL	0	Y
	Kay Fryer cleaner x5	20oz	UO	NL	0	Y
	Ecolab Esteem dry all	1gal x3	UO	NL	0	Y
	Kay No thaw freezer cooler cleaner	½gal	U	NL	0	Y
	McDonalds solid towel detergent	X6 [illegible]	UO	1,2,3 propanetricarboxylic acid ~~[illegible]~~ 2-hydroxy trisodium dehydrate	0	Y
	Kay Hi Temp Grill Clean	X50 3.6oz	UO	NL	0	Y
	Kay Bio Shield	x52 4oz	UO	NL	0	Y
	Solid sense all purpose Superconcentrate	2.3lb x2	UO	NL	0	Y
	Sink santizer kay	1.0oz x20	UO	~~[illegible]~~ Sodium dichloro-s triazinetrione dihydrate	0	Y
	Kay delime	2oz x[illegible]	UO	NL	0	Y
	Kay hand sanitizer	27oz x6	UO	NL	0	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.

See back

PID Initial

Description	size	condition	Ingredients	PID	photo.
Kay Powder bleach	2.45 oz	UO	NL	0	Y
Food products drink products	all unopened			0	Y
Boxes of unopened cleaners				0	Y
Liquid carbon Dioxide tank	100gal	U	CO_2	0	Y
Gas tanks	Vars	U	NL	0	Y

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 Celeste Foster Date/Time Prepared 6-25-12 ~~1315~~ 1400

Preparer's Affiliation AECOM Phone No. 845-425-4980

Purpose of Investigation SV sampling @ main st Dry cleaners, Farmingdale, NY

1. OCCUPANT:

Interviewed: Y / N

Last Name: Lin. First Name: Wen

Address: 450 main st #B

County: Nassau

Home Phone: _____ Office Phone: 516 755 -2692

Number of Occupants/persons at this location 2 Age of Occupants @ 40-60

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? _____

If the property is commercial, type?

Business Type(s) chinese Restaurant

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

Other characteristics:

Number of floors 1 Building age built 1983

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

NA

Airflow near source

out

Outdoor air infiltration

IN

Infiltration into air ducts

none present

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

a. Above grade construction:	wood frame	(concrete)	stone	(brick)
b. ~~Basement~~ 1st type:	full	crawlspace	slab	other _____
c. ~~Basement~~ 1st floor:	concrete	dirt	stone	other _____
d. ~~Basement~~ 1st floor:	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	(sealed)	sealed with Tile	
f. Foundation walls:	(poured)	block	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with _____	
h. The basement is: NA	wet	damp	dry	moldy
i. The basement is: NA	finished	unfinished	partially finished	
j. Sump present?	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 observed

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)

no heat / no AC

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: electric

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

Air conditioning: (Central Air) Window units Open ~~Windows~~ Door 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

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	None
1st Floor	Chinese Take Out Restaurant.
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? 1/day

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? Outside

n. Is there a bathroom exhaust fan? Y / (N) If yes, where vented? ~~NO~~

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: Strong Food Odor

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

SVE

Is there a ~~radon mitigation~~ system for the building/structure? Y / N Date of Installation: 2011
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

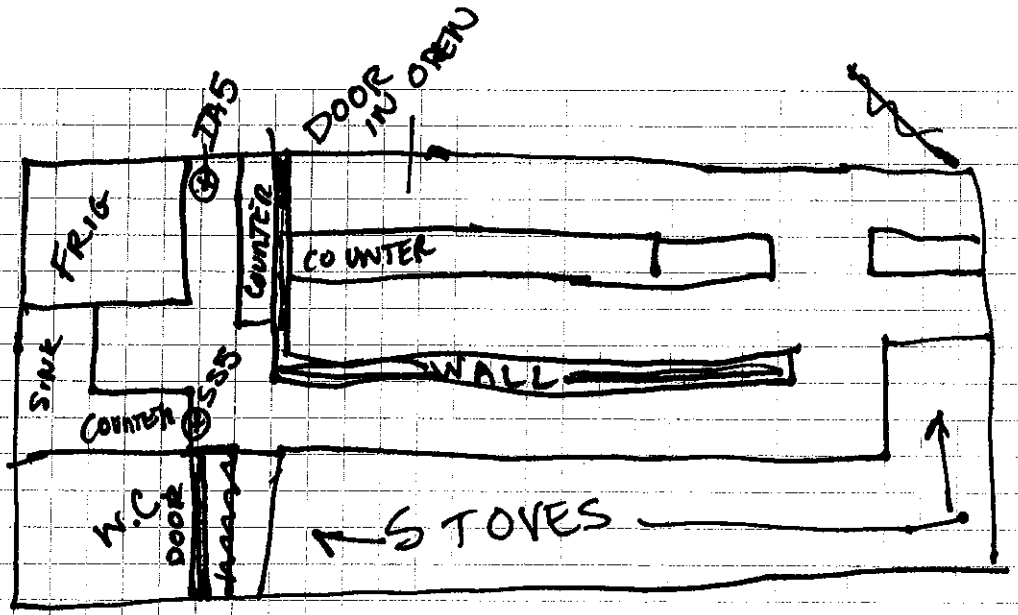
d. Relocation package provided and explained to residents? Y / N

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: N/A

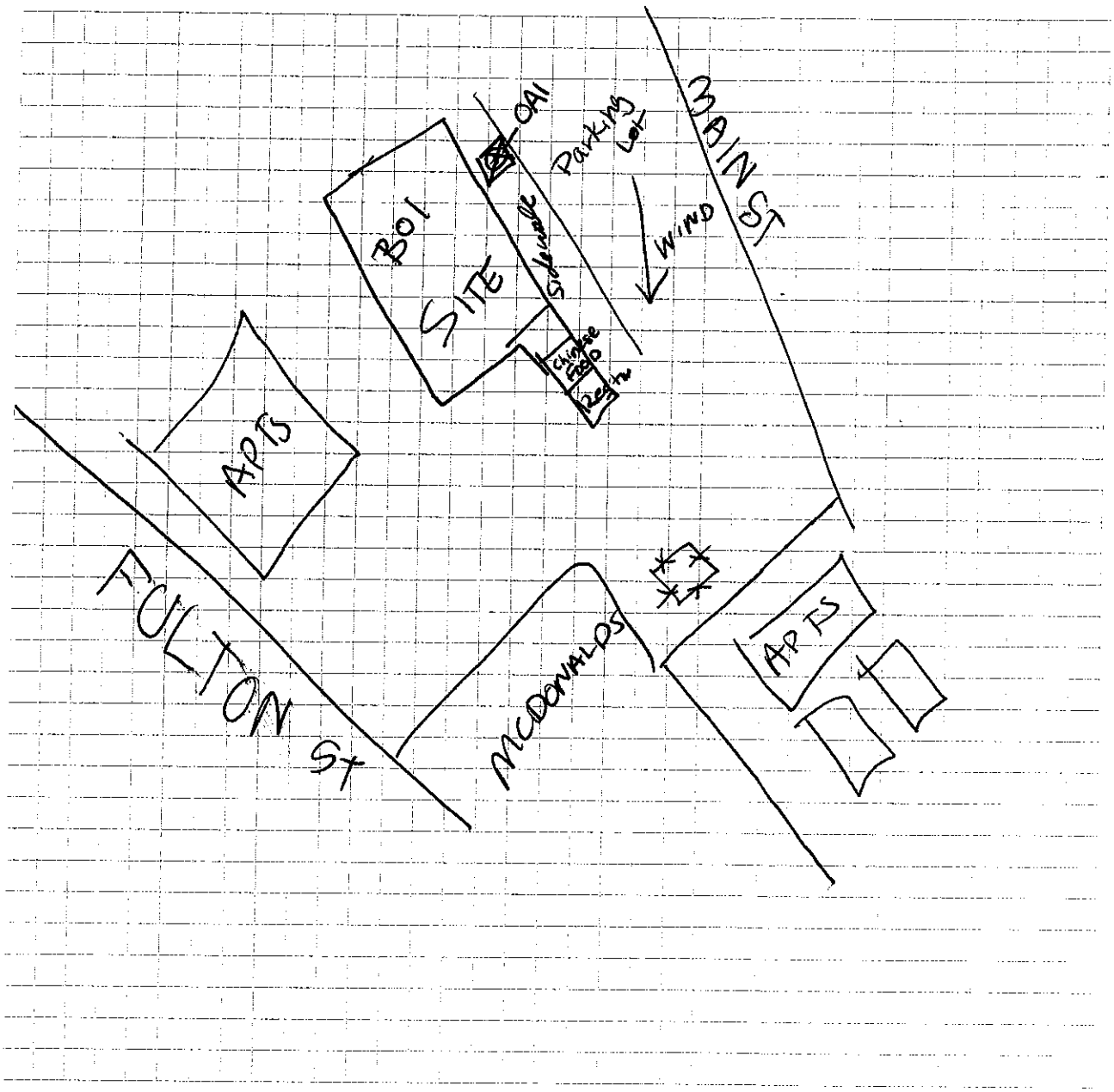
First Floor:



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: PID MiniRae

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
Bathroom	Bleach	1gal	used.		0.0	N/A
Kitchen	Natural gas for stoves				0.0 ↳NOT ON	N/A

* 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.

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 Celeste Foster Date/Time Prepared 6/25/2012

Preparer's Affiliation AECOM Phone No. 845-425-4980

Purpose of Investigation SV Sampling @ main st Dry Cleaners, Farmingdale, NY

1. OCCUPANT:

Interviewed: Y / N

Last Name: Lee First Name: Phil

Address: 450 main st #C

County: Nassau

Home Phone: _____ Office Phone: 516-454-0715

Number of Occupants/persons at this location 2-3 Age of Occupants 30-60

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? N/A

If the property is commercial, type?

Business Type(s) greeting card store

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

Other characteristics:

Number of floors 1 Building age built 1983

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

out

Outdoor air infiltration

in

Infiltration into air ducts

none present

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

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other _____
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	covered with tile (linoleum)	
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: 0 (feet)

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

None observed

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: Electric

Boiler/furnace located in: Basement Outdoors Main Floor Other_____

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.

ABOVE drop ceiling, not always visible, looks okay.

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	Card store
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? 1-2 times a week

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? 1-2 days.

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

Is there a ~~radon mitigation system~~ SVE for ~~the~~ building/structure? (Y) N Date of Installation: 2011
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

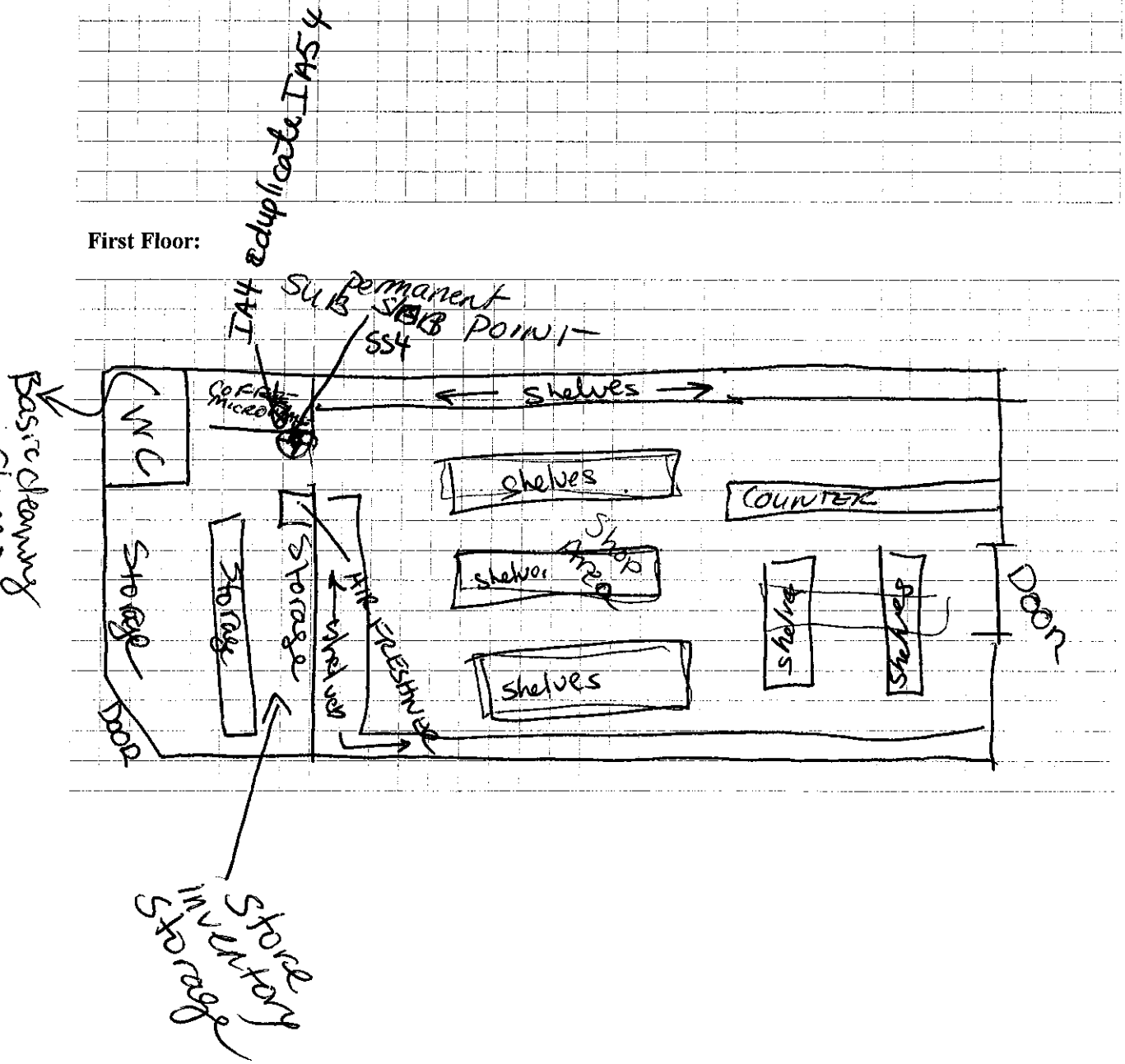
d. Relocation package provided and explained to residents? Y / N

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:

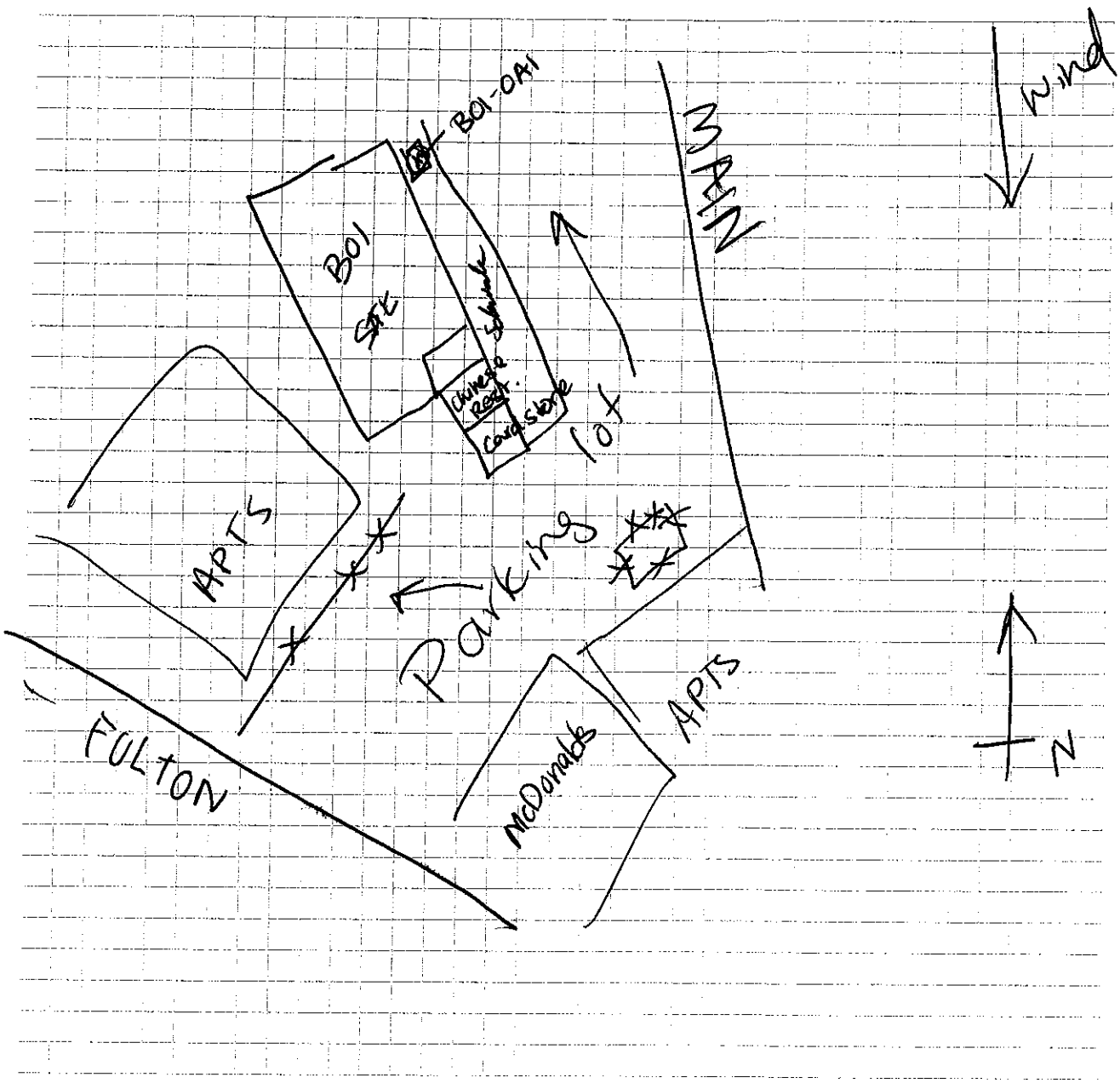
First Floor:



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: PID MiniRae

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

NL= Not listed

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
Bathroom	clorox-reg-x3	1.87 Qt	used	Sodium Hypochlorite +other	0.0	Y
	windex	1.34 gal	1/4 left	NL	0.0	
	Vaseline Sheer Infusion	13.5oz	used	water, glycerin, dihydroxypropyltrimonium Chloride, isopropyl myristate +others	0.0	
	Team paste Pink salt	1 tube	used	Sodium fluoride, water, Sorbitol, hydrated silica +others	0.0	
	Behr premium plus paint	1 gal x 3	used	NL	0.0	
	kilz latex #2	1 gal x 1	used	NL	0.0	
	wilson Art	1 qt	used	NL	0.0	
	Tile Adhesive	1 gal x 1	used.	NL	0.0	
storage room	AIR FRESHNERS Lucky Super Soft x2		used	NL	0.0	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.

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 Rita Papagian Date/Time Prepared 12-12-12

Preparer's Affiliation AEcom Phone No. 845-425-4980

Purpose of Investigation SVI - Farmingdale Cleaners

1. OCCUPANT: Card store

Interviewed: Y / (N)

Last Name: _____ First Name: _____

Address: 450 Main St Farmingdale, NY

County: Nassau

Home Phone: — Office Phone: —

Number of Occupants/persons at this location 2 Age of Occupants 45-65

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? _____

If the property is commercial, type?

Business Type(s) Card Store

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

NA

Airflow near source

No flow

Outdoor air infiltration

inside

Infiltration into air ducts

Stagnant

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

main floor no basement

a. Above grade construction:	wood frame	concrete	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: 0 (feet)

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

None seen

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: ~~Gas~~ Electric

Boiler/furnace located in: Basement Outdoors Main Floor Other_____

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.

Above drop ceiling

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	Card Store
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? 1-2 x per week

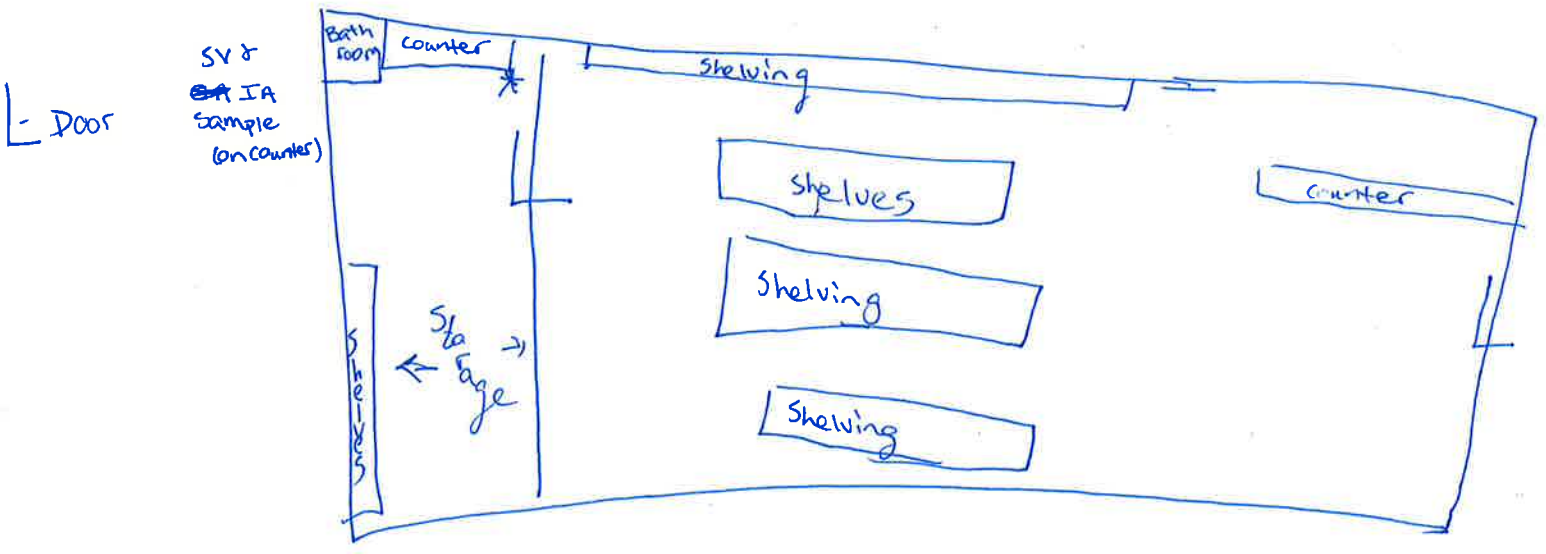
i. Have cosmetic products been used recently? Y / (N) When & Type?_____

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:



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
	spot shot multi purp cleaner	12oz	U			
	spic & span	16oz	U			
	Formula 409	16oz	U			
	Febreeze air effects	12oz	U			
	stain ex	8oz	U			

* 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.

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 Rita Papagian Date/Time Prepared 12-12-12

Preparer's Affiliation AEcom Phone No. 845-425-4980

Purpose of Investigation SVI - Farmingdale plaza cleaners

1. OCCUPANT: Chinese food Restaurant

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: 450 Main st, Farmingdale NY Ste B

County: Nassau

Home Phone: — Office Phone: —

Number of Occupants/persons at this location 2-3 Age of Occupants 35-45

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? _____

If the property is commercial, type?

Business Type(s) chinese take out

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

stagnant

Outdoor air infiltration

inside

Infiltration into air ducts

stagnant

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

* Sampling done on main floor - no basement.

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type:	full	crawlspace	(slab)	other _____
c. Basement floor:	(concrete)	dirt	stone	other _____
d. Basement floor:	uncovered	(covered)	covered with tile	
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: N/A	finished	unfinished	partially finished	
j. Sump present?	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)

Drains in Floor

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: Gas

Boiler/furnace located in:	Basement	Outdoors	(Main Floor)	Other _____
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

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	
1st Floor	Take out Food/Restaurant
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? Every night common household items

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? 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: Food odors

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: _____

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

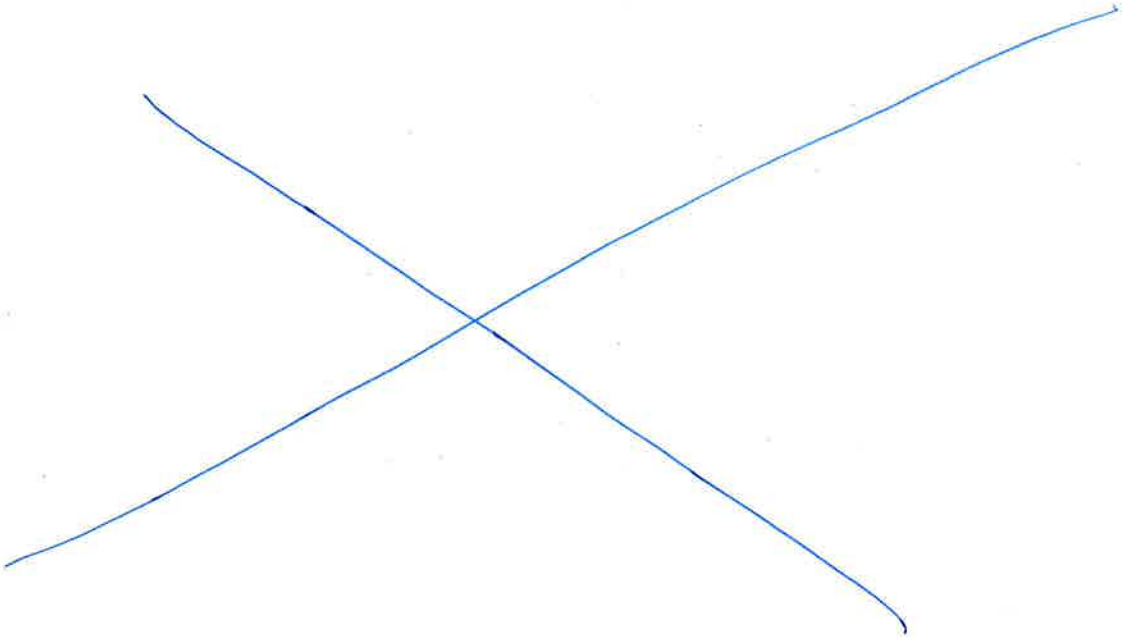
c. Responsibility for costs associated with reimbursement explained? Y / N

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

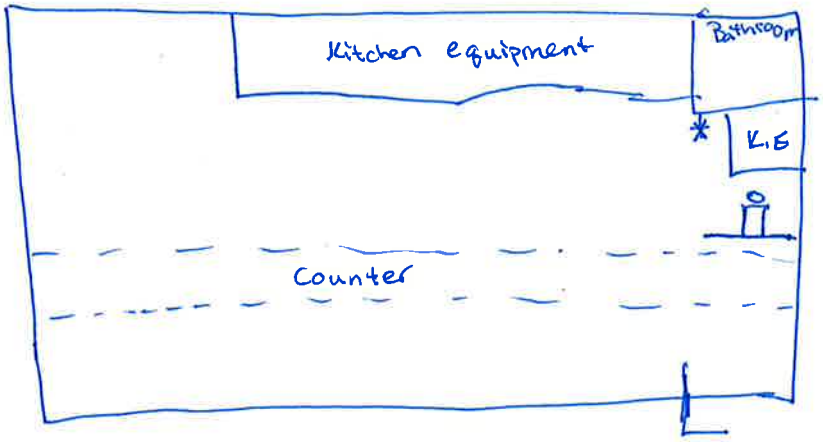
11. FLOOR PLANS

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:



First Floor:



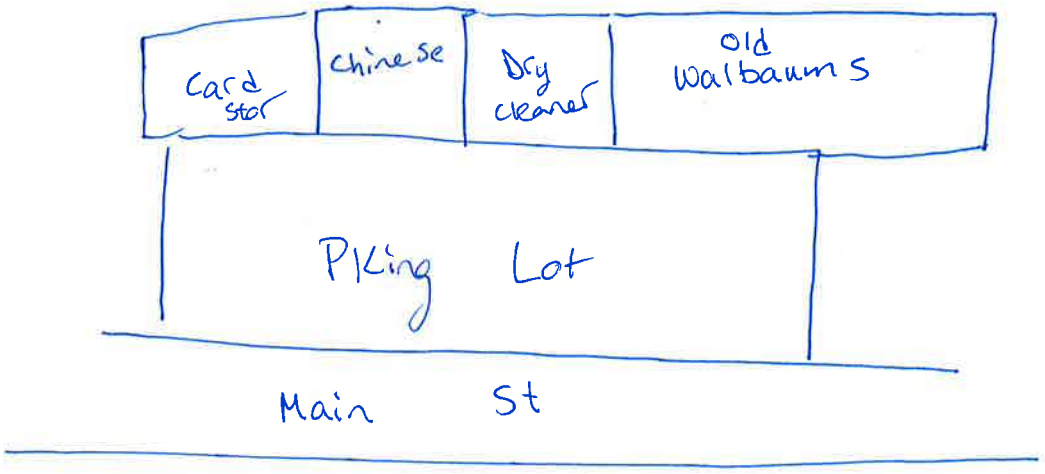
SV
* Sample location L - Door

O I A sample location on top of fridge.

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: Minirae

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
Bathroom	Bleach	1 gal	U		0	
Kitchen	Natural Gas for Stoves ↳ Not on				0	

* 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.

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 Celeste Foster Date/Time Prepared 12/12/12

Preparer's Affiliation AECOM Phone No. 845.425.4980

Purpose of Investigation SVI Farmingdale Plaza Cleaners
SVE system turned off for sampling

1. OCCUPANT: None

Interviewed: Y / (N)

Last Name: – First Name: –

Address: 450 Main Street Farmingdale NY

County: ~~Suff~~ Nassau

Home Phone: – Office Phone: –

Number of Occupants/persons at this location 0 Age of Occupants – Vacant.

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? ________

If the property is commercial, type?

Business Type(s) vacant cleared out waldbaums & dry cleaners — sampling

also card store
Chinese Rest
sep. sheets

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

Other characteristics:

Number of floors 1   Building age 1983

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

Stagnant

Outdoor air infiltration

inside

Infiltration into air ducts

Stagnant

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

a. Above grade construction:	wood frame	concrete	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: 0 (feet)

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

Numerous drains (capped)

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) Heat off

Hot air circulation off	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: Gas

Boiler/furnace located in: Basement Outdoors Main Floor Other_____

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.

Not connected

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	Closed & cleared waldbaums & dry cleaners, open chin. rest & card store
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? _____

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? _____

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

Is there a ~~radon mitigation~~ SVE system for the building/structure? Y / (N) Date of Installation: 2011
Is the system active or passive? Active/Passive
NOT ON, shut off for sampling

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) N/A

a. Provide reasons why relocation is recommended: _____

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

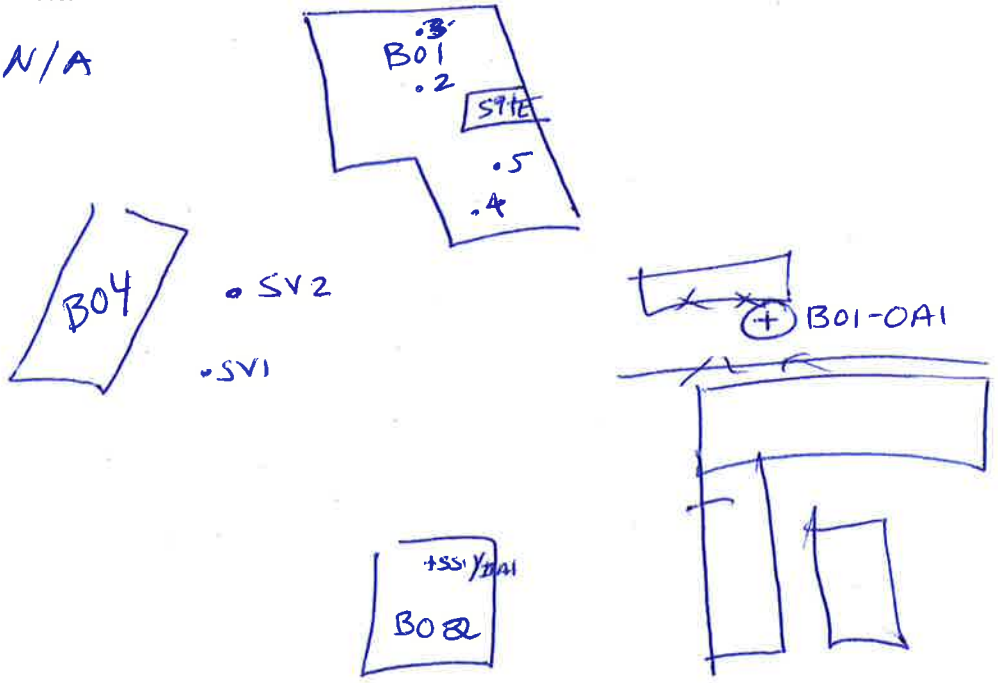
c. Responsibility for costs associated with reimbursement explained? Y / N

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

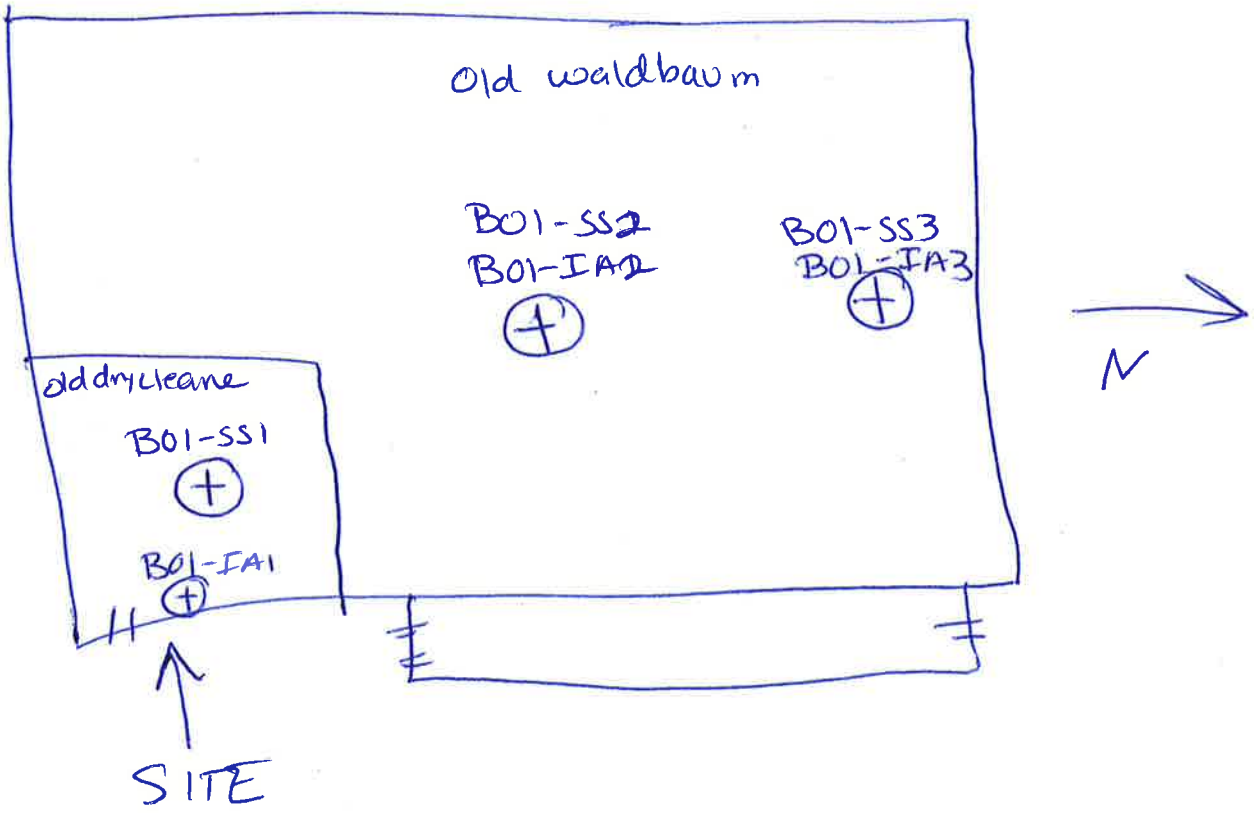
11. FLOOR PLANS

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: N/A



First Floor:



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PID Mini 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)	Photo ** Y / N
No inventory, vacant waldbaums & old dry cleaners						

* 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.

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 Celeste Foster Date/Time Prepared 12/12/2012

Preparer's Affiliation AECOM Phone No. 845-425-4980

Purpose of Investigation SVI Farmingdale Plaza Cleaners

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: employee First Name: _____

Address: 655 Fulton St. Farmingdale NY

County: Suffolk NY

Home Phone: _____ Office Phone: 516-752-8070

Number of Occupants/persons at this location ~10 employees + customers Age of Occupants various

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

Interviewed: Y / (N)

Last Name: Disney First Name: Rick

Address: _____

County: _____

Home Phone: _____ Office Phone: 516-443-3066

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) 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? N/A

If the property is commercial, type?

Business Type(s) McDonalds

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

Other characteristics:

Number of floors 1+Basement Building age 1973

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

upstairs

Airflow near source

stagnant

Outdoor air infiltration

out

Infiltration into air ducts

Slowly in to ducts

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

a. Above grade construction:	wood frame	concrete	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	2 drains & sump unda metal cover		
k. Water in sump?	Y / N / not applicable			

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

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

2 drains, sump

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: gas

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other_____
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.

tight, good condition

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 / freezer
1st Floor	Restaurant / kitchen
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?_____

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? out

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

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)
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

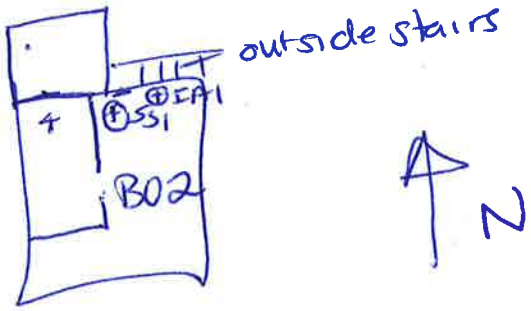
c. Responsibility for costs associated with reimbursement explained? Y / N

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

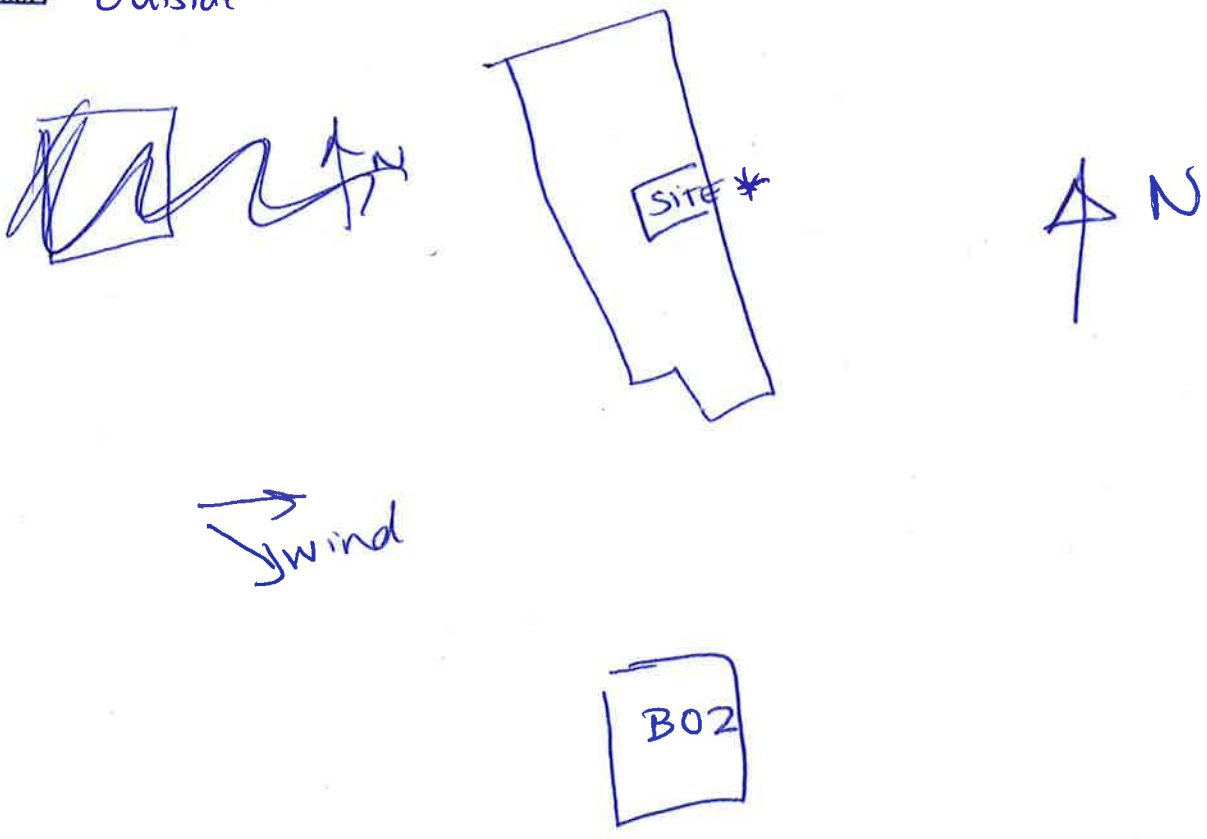
11. FLOOR PLANS

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:



~~First Floor:~~ outside



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PID mini 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)	Photo** Y / N
Basement	CO_2 tank	U	10 gal	NL	0	Y
	Hand soap	UO	250z	NL		
	Floor Lare A	UO	25 lb	NL		
	Towel Detergent	UO	4lb	NL		
	Stainless clean	UO	1 QT	water mineral oil		
	Restrm cleaner	UO	1 QT	NL		
	Oven cleaner	UO	1QT	NL		
	Window cleaner	UO	1QT	NL		
	Food prod.	UO	various	NL		
	Gas tanks	UO	various	NL		
	See photos too	No PID readings				

* 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.

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 Celeste Foster Date/Time Prepared 12/19/2012

Preparer's Affiliation AECOM Phone No. 845-425-4980

Purpose of Investigation SVI Farmingdale Plaza Cleaners

1. OCCUPANT:

Interviewed: Y / N (Y circled)

Last Name: _____ First Name: Jose

Address: 490 Main Street Island Gardens Co-Op Apts.

County: Nassau

Home Phone: _____ ~~Office~~ Cell Phone: 347-538-3672

Number of Occupants/persons at this location 40 Apts Age of Occupants Varies

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

Interviewed: Y / N (N circled)

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: _____

No changes to questionnaire from March 2012 unless marked below

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? 40 Apts Co-operative, 3 buildings (A1-12, B1-12, C1-16)

If the property is commercial, type? NA

Business Type(s) _____

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

Other characteristics:

Number of floors 2 Building age 1961 Buildings A & B have crawlspaces, Building C has a partial basement and crawl space

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

Stagnant

Airflow near source

Stagnant

Outdoor air infiltration

Inside

Infiltration into air ducts

Into ducts

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

a. Above grade construction:	wood frame	(concrete)	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 > by Laundry machine			

Basement/Lowest level depth below grade: 5 (feet)

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

Sump pump, slab in crawl space is very thin, possible cracks further in, crack along the wall into the crawl space next to the work room.

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

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.

None

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	Laundry room, meter room, storage/workroom, Partially in Bldg C only
1st Floor	Residences
2nd Floor	Residences
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? unknown

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? _____

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 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? _____

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

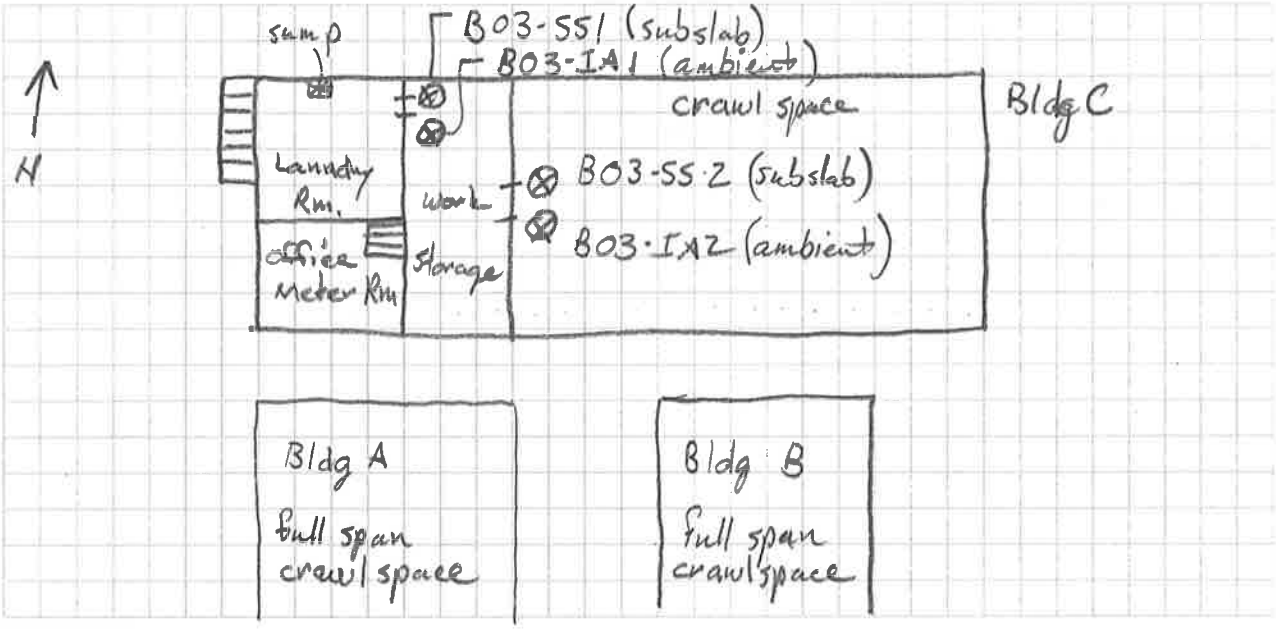
c. Responsibility for costs associated with reimbursement explained? Y / N

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

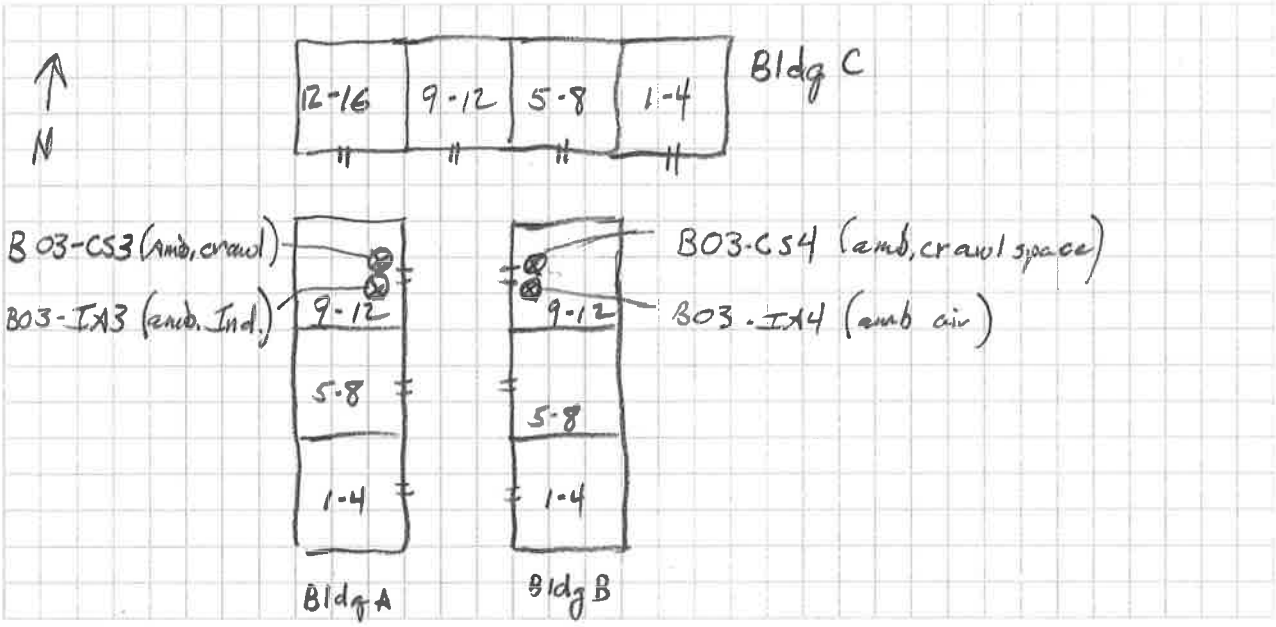
11. FLOOR PLANS

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:



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.