

BROWNFIELD CLEANUP PROGRAM

SOIL VAPOR INTRUSION WORK PLAN (SVIWP)

FOR

HNJ REALTY LLC.

FOR

**FORMER SCHMUKLERS CLEANERS
358 - 364 North Avenue, New Rochelle, New York
Site No.: C360088
Index No.: A3-0542-0306**

PREPARED FOR

**NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
625 BROADWAY
ALBANY, NEW YORK 12233-7016**



PREPARED BY:

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April 2026

TABLE OF CONTENTS

P.E. CERTIFICATION

LIST OF ACRONYMS

- 1.0 INTRODUCTION
- 2.0 SCOPE OF WORK
 - 2.1 Sub-slab Vapor
 - 2.2 Indoor Air
 - 2.3 Outdoor Ambient Air
 - 2.4 Permanent Vapor Point Installation
- 3.0 SUMMARY OF FINDINGS
- 4.0 CONCLUSION

FIGURES

- Figure-1 Site Location
- Figure-2 Site Survey
- Figure-3 Sampling Locations

ATTACHMENTS

- Attachment-A Historic SVI Sampling Locations Figure and Summary Table
- Attachment-B NYSDOH Indoor Air Quality Questionnaire

I, Nicholas A. Andrianas, P.E. certify that I am currently a NYS registered professional engineer and that this April 2026 Soil Vapor Intrusion Work Plan 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).

Nicholas A. Andrianas, P.E. Date: April 22, 2026



List of Acronyms

| | |
|--------|--|
| AS | Air Sparging |
| ASP | Analytical Services Protocol |
| BCA | Brownfield Cleanup Agreement |
| BCP | Brownfield Cleanup Program |
| CERCLA | Comprehensive Environmental Response, Compensation and Liability Act |
| CAMP | Community Air Monitoring Plan |
| C/D | Construction and Demolition |
| CFR | Code of Federal Regulation |
| CLP | Contract Laboratory Program |
| COC | Certificate of Completion |
| CO2 | Carbon Dioxide |
| CP | Commissioner Policy |
| DER | Division of Environmental Remediation |
| EC | Engineering Control |
| ECL | Environmental Conservation Law |
| ELAP | Environmental Laboratory Approval Program |
| ERP | Environmental Restoration Program |
| EWP | Excavation Work Plan |
| GHG | Green House Gas |
| GWE&T | Groundwater Extraction and Treatment |
| HASP | Health and Safety Plan |
| IC | Institutional Control |
| NYSDEC | New York State Department of Environmental Conservation |
| NYSDOH | New York State Department of Health |
| NYCRR | New York Codes, Rules and Regulations |
| O&M | Operation and Maintenance |
| OM&M | Operation, Maintenance and Monitoring |
| OSHA | Occupational Safety and Health Administration |
| OU | Operable Unit |
| PID | Photoionization Detector |
| PRP | Potentially Responsible Party |
| PRR | Periodic Review Report |
| QA/QC | Quality Assurance/Quality Control |
| QAPP | Quality Assurance Project Plan |
| RAO | Remedial Action Objective |
| RAWP | Remedial Action Work Plan |
| RCRA | Resource Conservation and Recovery Act |
| RI/FS | Remedial Investigation/Feasibility Study |
| ROD | Record of Decision |
| RP | Remedial Party |
| RSO | Remedial System Optimization |
| SAC | State Assistance Contract |
| SCG | Standards, Criteria and Guidelines |

| | |
|-------|---|
| SCO | Soil Cleanup Objective |
| SMP | Site Management Plan |
| SOP | Standard Operating Procedures |
| SOW | Statement of Work |
| SPDES | State Pollutant Discharge Elimination System |
| SSD | Sub-slab Depressurization |
| SVE | Soil Vapor Extraction |
| SVI | Soil Vapor Intrusion |
| TAL | Target Analyte List |
| TCL | Target Compound List |
| TCLP | Toxicity Characteristic Leachate Procedure |
| USEPA | United States Environmental Protection Agency |
| UST | Underground Storage Tank |
| VCA | Voluntary Cleanup Agreement |
| VCP | Voluntary Cleanup Program |

1.0 INTRODUCTION

The following document is Soil Vapor Intrusion Work Plan (SVIWP) prepared by BEI Consulting LLC and Nicholas Andrianas P.E. on behalf of HNJ Realty LLC, pursuant to the requirements of an executed Brownfield Cleanup Program Agreement (BCA) (dated February 27, 2006), between the New York State Department of Environmental Conservation (NYSDEC), Division of Environmental Remediation (DER) and HNJ Realty, LLC, *the Volunteer*. The Site is a commercial property located at 358 through 364 North Avenue, New Rochelle, New York (Figures 1 and 2), fully described as Section 4 - Block 1206 - Lot 19 of the tax maps of City of New Rochelle.

The purpose of the SVIWP is to evaluate the potential for soil vapor intrusion (SVI) at the site. This will include the testing of sub-slab, indoor air and outdoor ambient air/vapor throughout various locations within the subject site. Historic SVI investigation locations and results (prior to the installation of the SVE/SSDS) are included as Attachment-A

2.0 SCOPE OF WORK

The proposed scope of work includes sample collection of the sub-slab vapor, indoor air and outdoor ambient air within the subject site footprint. All sampling locations will utilize individually certified SUMMA canisters. A NYSDOH Soil Vapor Intrusion Questionnaire with inventory sheets will be completed during the sampling event and are included as Attachment-B. All samples will be collected with the use of six (6) liter summa canisters equipped with eight (8) hour regulators. Sampling rates will not exceed 0.2 liters per minute to minimize outdoor air infiltration during sampling. Samples will be submitted to an ELAP certified laboratory for testing via EPA TO-15 for Volatile Organic Compounds (VOCs).

2.1 Sub-slab Vapor

A sub-slab vapor sample will be collected from permanent vapor points PV-1, PV-2, PV-3, PV-4, PV-5 and PV-6 within the first floor and basement areas. Prior to completing this

testing, purged air will be directly injected into a tedlar bag and subsequently released outside of the building into the ambient air. Helium tracer gas will be used for the presence of high concentrations (> 10%) of the tracer. A plastic pail will serve to keep the tracer gas in contact with the probe during the testing and a portable monitoring device will be used to analyze a sample of soil vapor prior to sampling to ensure a proper seal.

2.2 Indoor Air

Two (2) co-located indoor air samples will be collected within the vicinities of the basement sub-slab permanent vapor point sample locations. One (1) indoor air sample will be collected from the first floor of the building within the former dry-cleaning equipment room and (1) duplicate sample will be collected from within the former dry-cleaning equipment room. One (1) indoor air sample will also be collected from the commercial space on the second floor of the building. The sampling locations are depicted on the attached Figure-3.

2.3 Outdoor Ambient Air

One (1) outdoor ambient air sample will also be collected from the rear courtyard. This sample will be collected simultaneously with indoor air and sub-slab vapor samples.

2.4 Permanent Vapor Point Installation

In an effort to replace PV-1 a new PV point will be installed within this former area adhering to installation protocols outlined in the section 2.7.2 (Figure-2.3 below) of the NYSDOH Guidance for Soil Vapor Intrusion (October 2006).

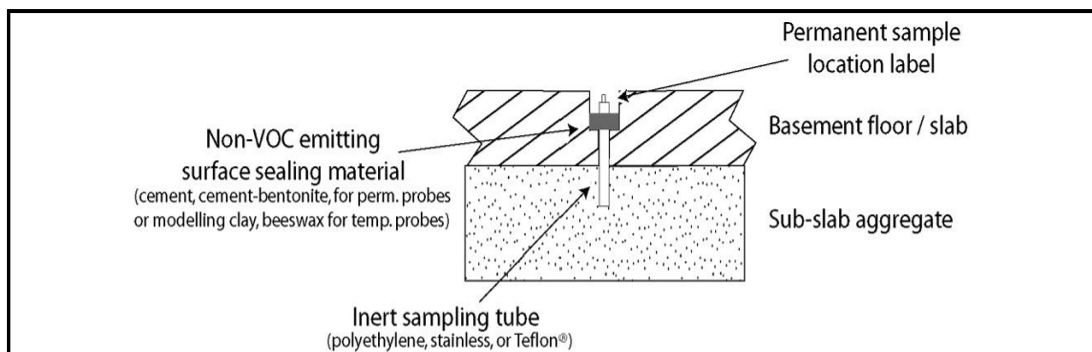


Figure 2.3

Schematic of a generic sub-slab vapor probe

[Note: Many variations exist and may be proposed in a work plan. Proposed installations should meet the sampling objectives and requirements of the analytical methods.]

3.0 SUMMARY OF FINDINGS

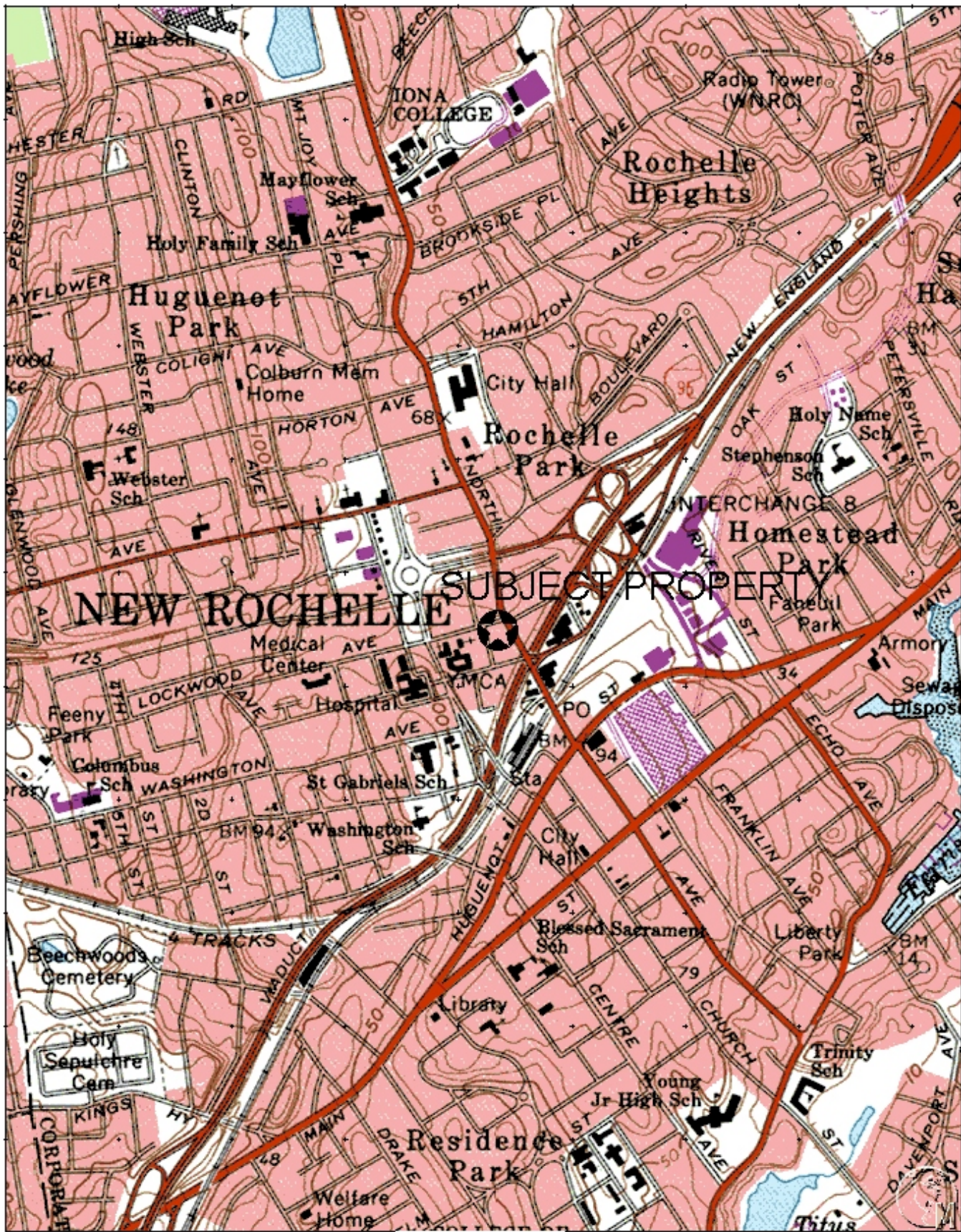
The laboratory results from the testing performed will be compared to the New York State Department of Health Guidance for Evaluating Soil Vapor Intrusion, 2006. The most up to date decision matrices will be used for comparison of the results. Laboratory data will be sent to a qualified third-party data validator for data evaluation and generation of a Data Usability Summary Report (DUSR). Preliminary data will be provided to the Department and DOH project managers with the soil vapor intrusion questionnaire and inventory forms. Daily Reports will be provided to the Department and DOH project managers for each field day summarizing the following:

- Date and time of arrival and Departure
- Weather conditions
- Field personnel on-site
- Equipment on-site
- Samples collected
- Summary of field activities
- Summary of field delays or problems
- Summary of actions taken to address delays or problems encountered in the field

4.0 CONCLUSION

A Soil Vapor Intrusion Report (SVIR) will be issued to the Department upon completion of the sampling and receipt of the results. The results from the Report will be utilized to determine if SVI has impacted the site building during the recent shut-down of the SVE/SSDS.

FIGURES



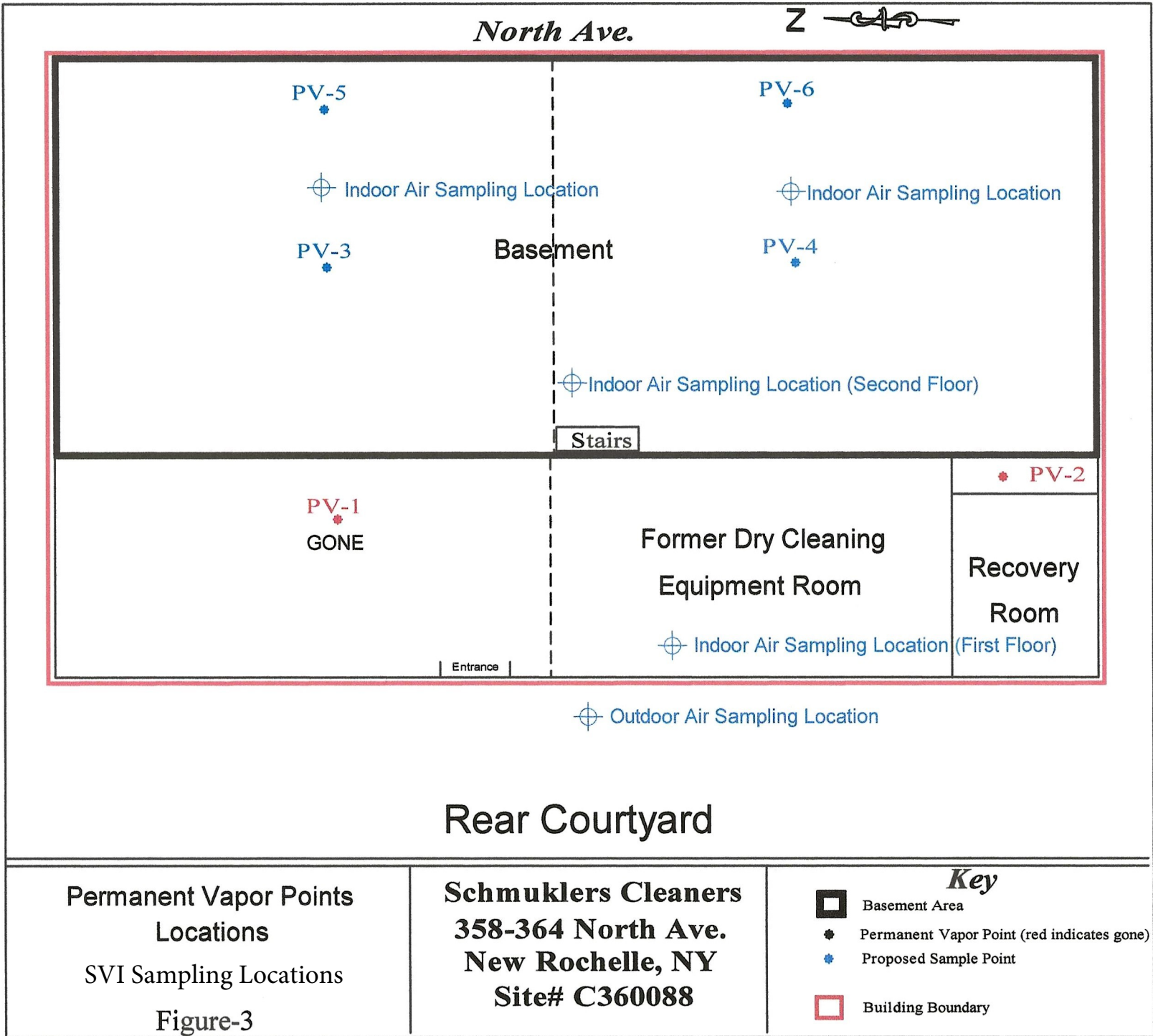
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Remedial Investigation Report November 2007

Figure 1- Site Location

Schmuklers Cleaners
358 - 364 North Avenue
New Rochelle, NY
Site #C360088
Index# A3-0542-0306

BEI Consulting LLC
 Roc t, NY



ATTACHMENTS

Attachment-A
Historical SVI Sampling Data
and Tables

Attachment-B
NYSDOH Questionnaire

**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 _____ Date/Time Prepared _____

Preparer's Affiliation _____ Phone No. _____

Purpose of Investigation _____

1. OCCUPANT:

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

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

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

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

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

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) _____

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

Other characteristics:

Number of floors _____ Building age _____

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

4. AIRFLOW

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

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

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: _____(feet)

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

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

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

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

The primary type of fuel used is:

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

Domestic hot water tank fueled by: _____

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 | _____ |
| 1 st Floor | _____ |
| 2 nd Floor | _____ |
| 3 rd Floor | _____ |
| 4 th 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) 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: _____

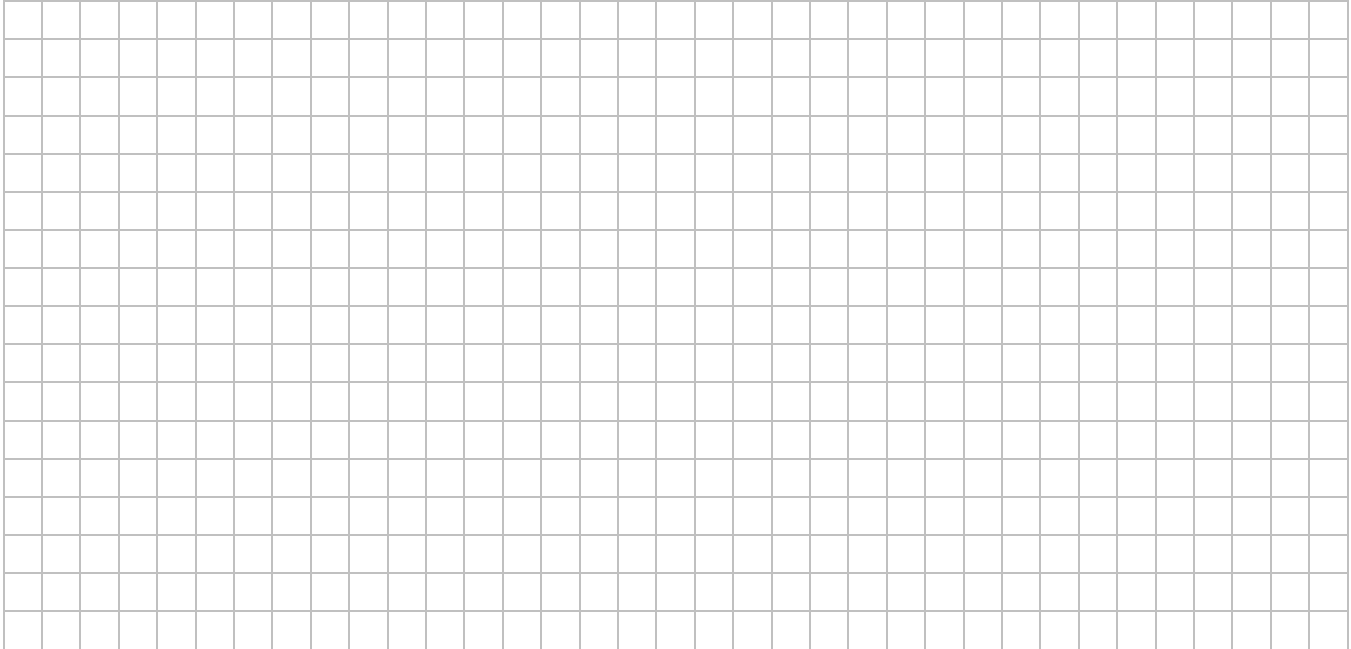
10. RELOCATION INFORMATION (for oil spill residential emergency)

- 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

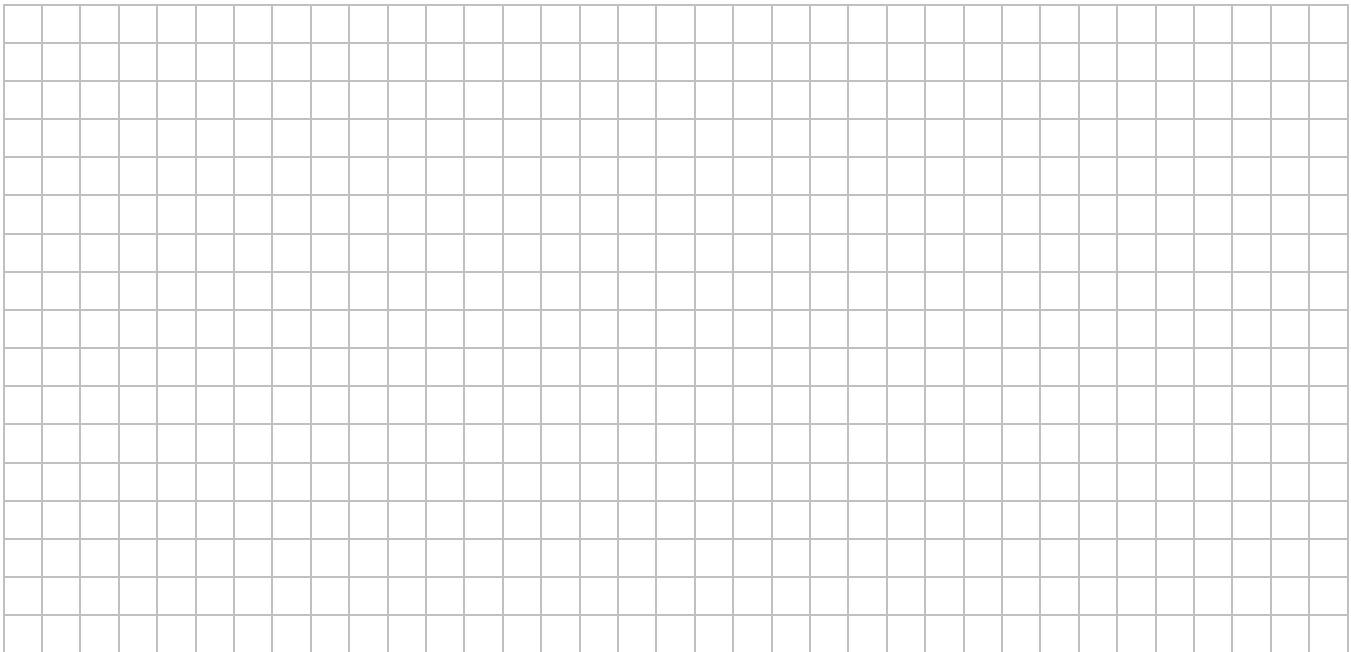
11. FLOOR PLANS

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:



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.

