3 Corporate Drive, Suite 202
Clifton Park, NY 12065
t 518.348.1190

November 10, 2025

Michael Squire
Assistant Engineer
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, New York 12233

Re: Biennial Soil Vapor Intrusion Assessment Work Plan – 2025-2026 Heating Season
Former Chromalloy Facility (NYSDEC Site No: 344039)
169 Western Highway
West Nyack, New York 10994

Dear Mr. Squire,

On behalf of Chromalloy, TRC Engineers, Inc. (TRC) has prepared this Biennial Soil Vapor Intrusion (SVI) Assessment Work Plan (Work Plan) outlining the relocation of one permanent SVI point and sub-slab soil vapor sampling activities at the Former Chromalloy Facility located at 169 Western Highway in West Nyack, New York (the Site). Upon New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH) approval, the proposed activities are anticipated to be completed during the upcoming 2025-2026 heating season.

Pursuant to the *July 2018 SVI Assessment Report*, biennial SVI assessments, to be completed during their respective heating seasons, were proposed to and approved by the NYSDEC and NYSDOH. As a result, these assessments were incorporated into the Site Management program as a recurring biennial event. For incorporation into routine sampling events, TRC installed six permanent sub-slab points (SS-13 through SS-18) in February 2020, as shown on **Figure 1**, and reported in the *July 2020 Soil Vapor Intrusion Assessment Letter Report – 2019-2020 Heating Season.*

Permanent Sub-Slab Point Relocation

During the 2023-2024 soil vapor sampling event and due to its proximity to the interior car wash bay, TRC observed standing water in the vicinity of SS-18. Upon sub-slab vapor sampling of SS-18 at that time, it was additionally observed that the SUMMA canister could not fill over an 8-hour time period, likely due to saturated soil conditions underneath the concrete slab. During this upcoming 2025-2026 SVI sampling event, TRC will relocate SS-18 (as SS-18R), within a 15 foot radius of the original location, away from the car wash bay. The approximate location of SS-18R is provided on **Figure 1**.

Prior to sub-slab vapor point installation, TRC will contract a private geophysical subcontractor to locate potential utilities and reinforcing rebar in the vicinity of each sampling location. The location of the potential utilities and rebar will be marked on the slab's surface with temporary materials (e.g., marker, crayon, tape, etc.) The proposed sub-slab vapor point will be installed in an area away from potential vehicle storage and/or repair, where practical.

The permanent sub-slab vapor point (SS-18R) will be constructed of stainless-steel VAPOR PIN® device and in general accordance with the *October 2006 Final NYSDOH Soil Vapor Intrusion Guidance*. This location will be finished with a small flush mount tamper resistant cap to allow access for future sampling. Drawings, showing a cross-sectional view of the VAPOR PIN® device, are provided in **Attachment 1.** Standard operating procedures (SOPs), detailing the VAPOR PIN® device installation methods, can be found at www.VaporPin.com.

Following installation of SS-18R, the VAPOR PIN® device within SS-18 will be removed and the penetration will be filled with concrete to match surrounding surface conditions.

Soil Vapor Intrusion Sampling and Analytical Procedures

Prior to SVI sampling and in accordance with NYSDEC/NYSDOH guidance, all interior/exterior sampling locations and their adjacent vicinities will be inspected/screened for the presence of volatile organic vapor with a photo-ionization detector (PID), capable of reading in the parts per billion (ppb) range. If interfering conditions, such as open chemical or petroleum products containers are identified, TRC will coordinate with the building occupants on mitigation methods and whether or not ventilation is required following material removal. The NYSDEC form entitled *Structure Sampling Questionnaire and Building Inventory* will be completed by TRC before and during vapor sampling and is provided for reference in **Attachment 2**.

Prior to sample collection, each sub-slab vapor point will be helium leak tested in accordance with NYSDOH methods to ensure the capture of sub-slab vapors, rather than the short circuiting of ambient surface air. Following leak testing, each sub-slab vapor point will be purged of 1 to 3 air volumes and screened for the presence of volatile organic vapor utilizing a PID. TRC will then collect 14 air samples from the locations shown on **Figure 1** and outlined below:

- 6 sub-slab vapor samples (SS-13 through SS-17 and SS-18R);
- 6 co-located indoor air samples (IA-13 though IA-17 and IA-18R);
- 1 outdoor ambient air sample (AA-3); and
- 1 duplicate air sample for quality assurance/quality control (QA/QC) purposes.

All samples will be collected utilizing batch certified 6-liter Summa® canisters equipped with 8-hour flow regulators and submitted to an Environmental Laboratory Approval Program (ELAP) accredited laboratory for the analysis of volatile organic compounds (VOCs) by United States Environmental

Protection Agency (USEPA) Method TO-15. Laboratory deliverables will be in accordance with NYSDEC Analytical Services Protocol (ASP) Category B and subjected to data validation by TRC or a subcontract data validator. Following validation, the data validator will issue a Data Usability Summary Report (DUSR) and TRC will upload the analytical data to the NYSDEC EQuIS database via electronic data deliverable (EDD) format.

TRC will provide an SVI Assessment Letter Report summarizing the completed sampling activities and include recommendations as appropriate in accordance with NYDOH guidance. The soil vapor data and results summary will additionally be included in the subsequent Annual Monitoring Report.

Upon Work Plan approval, TRC will coordinate and complete the proposed sub-slab soil vapor relocation and sampling activities by the end of February 2026. The NYSDEC and NYSDOH will be notified of any SVI activity, at minimum, seven days prior to the scheduled mobilization.

If you have any comments, questions, or concerns regarding this letter, please do not hesitate to contact me by phone at (518) 348-1192 or email at JKing@trccompanies.com.

Sincerely,
TRC Engineers, Inc.

Justin King
Senior Project Manager

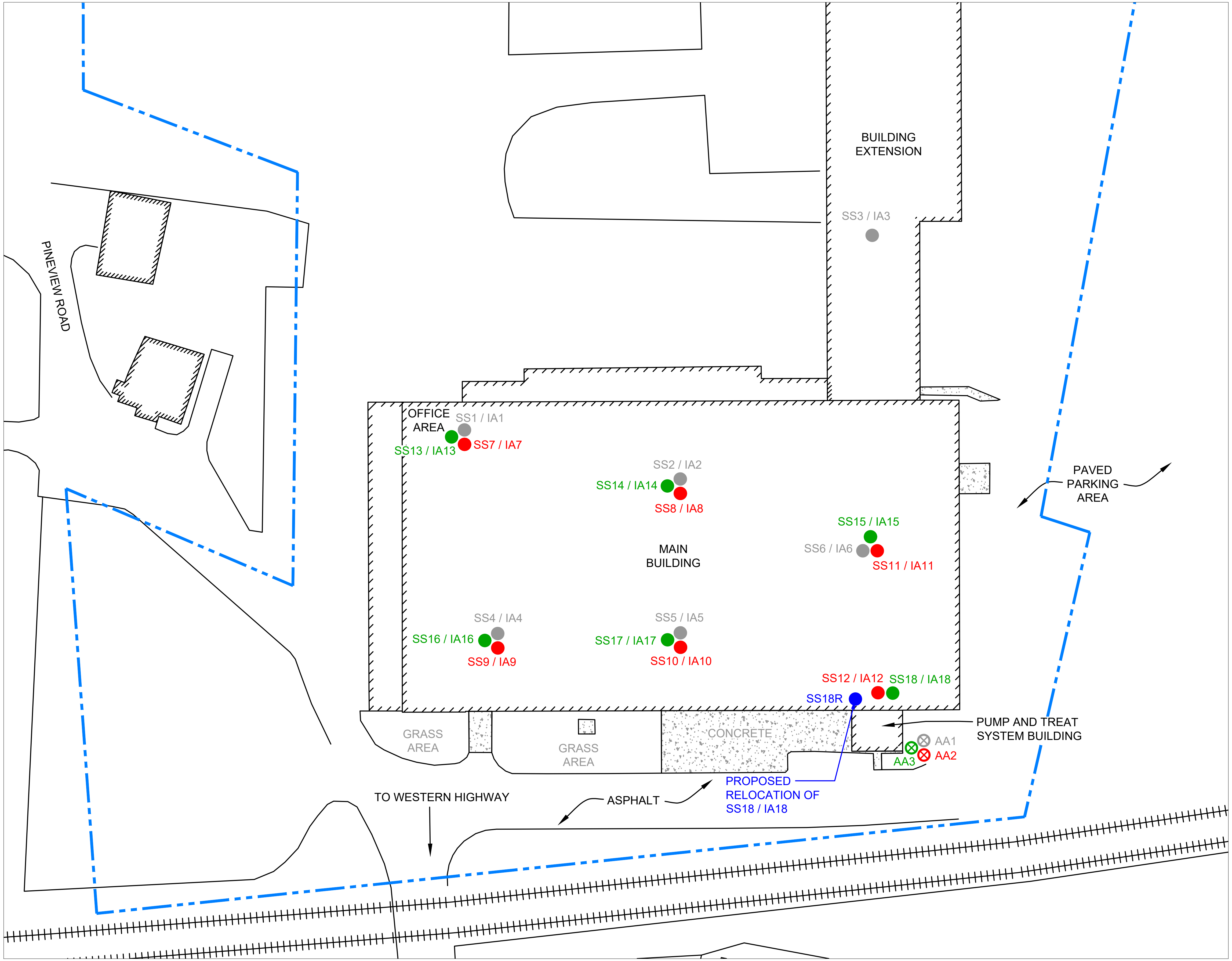
Cc:
John Lambert – Chromalloy
Jeffrey LaRock – TRC

Attachments

Figure 1 Proposed SVI Sampling Locations – 2023-2024 Heating Season

Attachment 1 VAPOR PIN® Device Diagrams
Attachment 2 NYSDEC *Structure Sampling Questionnaire and Building Inventory* Form

FIGURE



LEGEND (SYMBOLS NOT TO SCALE):

- APPROXIMATE SITE BOUNDARY
- BUILDING FOOTPRINT
- RAILROAD TRACKS
- SS# / IA# — 2016 SUB-SLAB SOIL VAPOR AND INDOOR AIR SAMPLING LOCATION AND IDENTIFICATION NUMBER
- AA1 — 2016 AMBIENT AIR SAMPLING LOCATION AND IDENTIFICATION NUMBER
- SS# / IA# — 2018 SUB-SLAB SOIL VAPOR AND INDOOR AIR SAMPLING LOCATION AND IDENTIFICATION NUMBER
- AA2 — 2018 AMBIENT AIR SAMPLING LOCATION AND IDENTIFICATION NUMBER
- SS# / IA# — 2020 SUB-SLAB SOIL VAPOR AND INDOOR AIR SAMPLING LOCATION AND IDENTIFICATION NUMBER
- AA3 — 2020 AMBIENT AIR SAMPLING LOCATION AND IDENTIFICATION NUMBER
- SS18R — PROPOSED RELOCATION OF SUB-SLAB SOIL VAPOR AND INDOOR AIR SAMPLING LOCATION AND IDENTIFICATION NUMBER

N — TRUE NORTH NY83-EF

0 50' 100'

SCALE: 1" = 50'
SHEET SIZE: 11" BY 17"

NOTE:

1. SOURCE FROM WEST-NYACK-WELLv2000.DWG COMBINED WITH GOOGLE EARTH PRO IMAGE.

PROJECT: **CHROMALLOY**
FORMER CHROMALLOY FACILITY (NYSDEC SITE NO. 344039)
169 WESTERN HIGHWAY
WEST NYACK, NEW YORK 10994

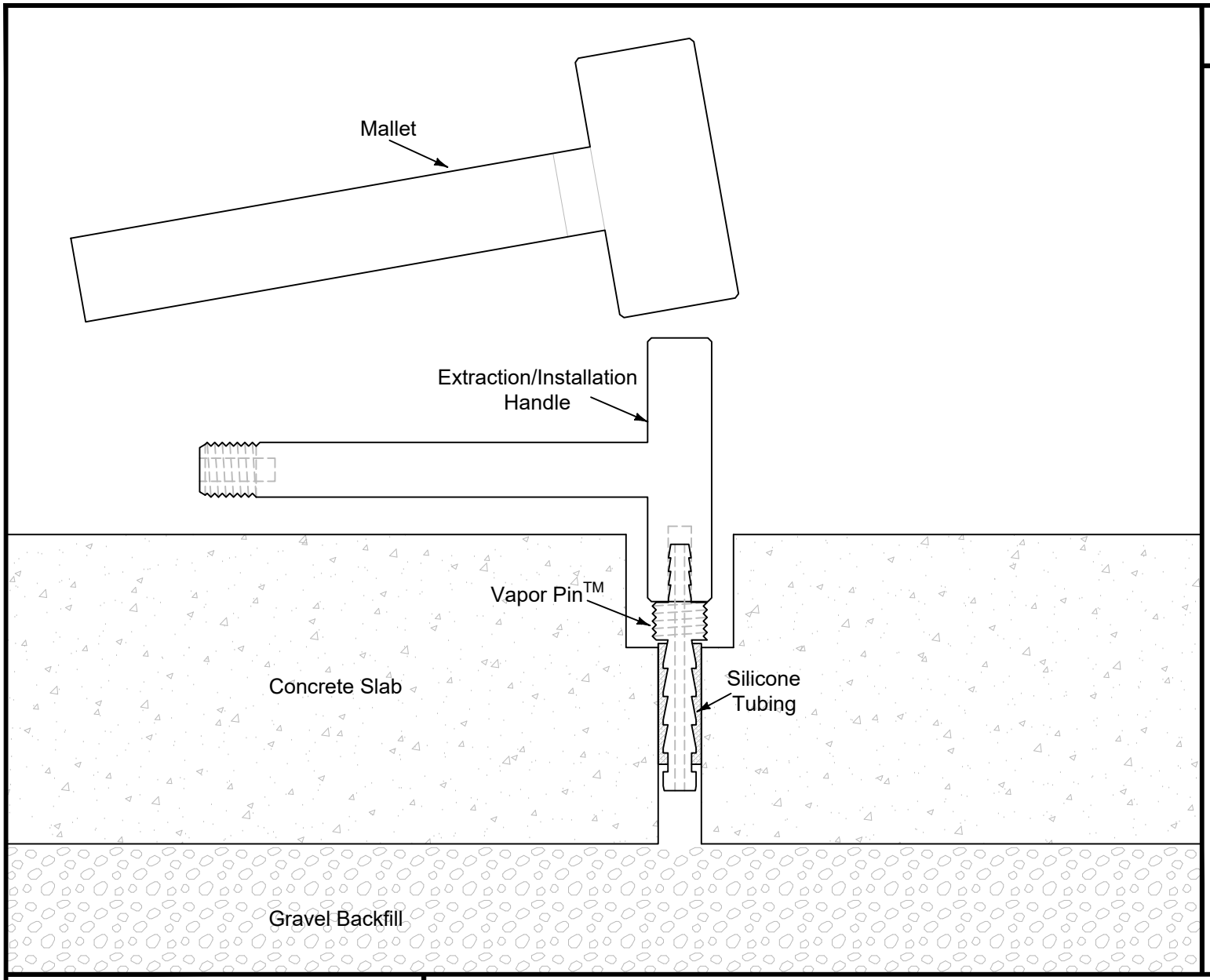
TITLE: **SOIL VAPOR INTRUSION SAMPLING LOCATIONS - 2025-2026 HEATING SEASON**

DRAWN BY:	H. DELGADO	PROJ NO.:	190273.2021.0000
CHECKED BY:	J. KING		**FIGURE 1**
APPROVED BY:	J. LAROCK		
DATE:	NOVEMBER 2025		

TRC
3 Corporate Drive, Suite 202
Clifton Park, NY 12065
Phone: 518.348.1190
www.TRCcompanies.com

FILE NO.: Fig 1 - SVI Samp. Loc. - 2025-2026 Heat.Season.dwg

ATTACHMENT 1



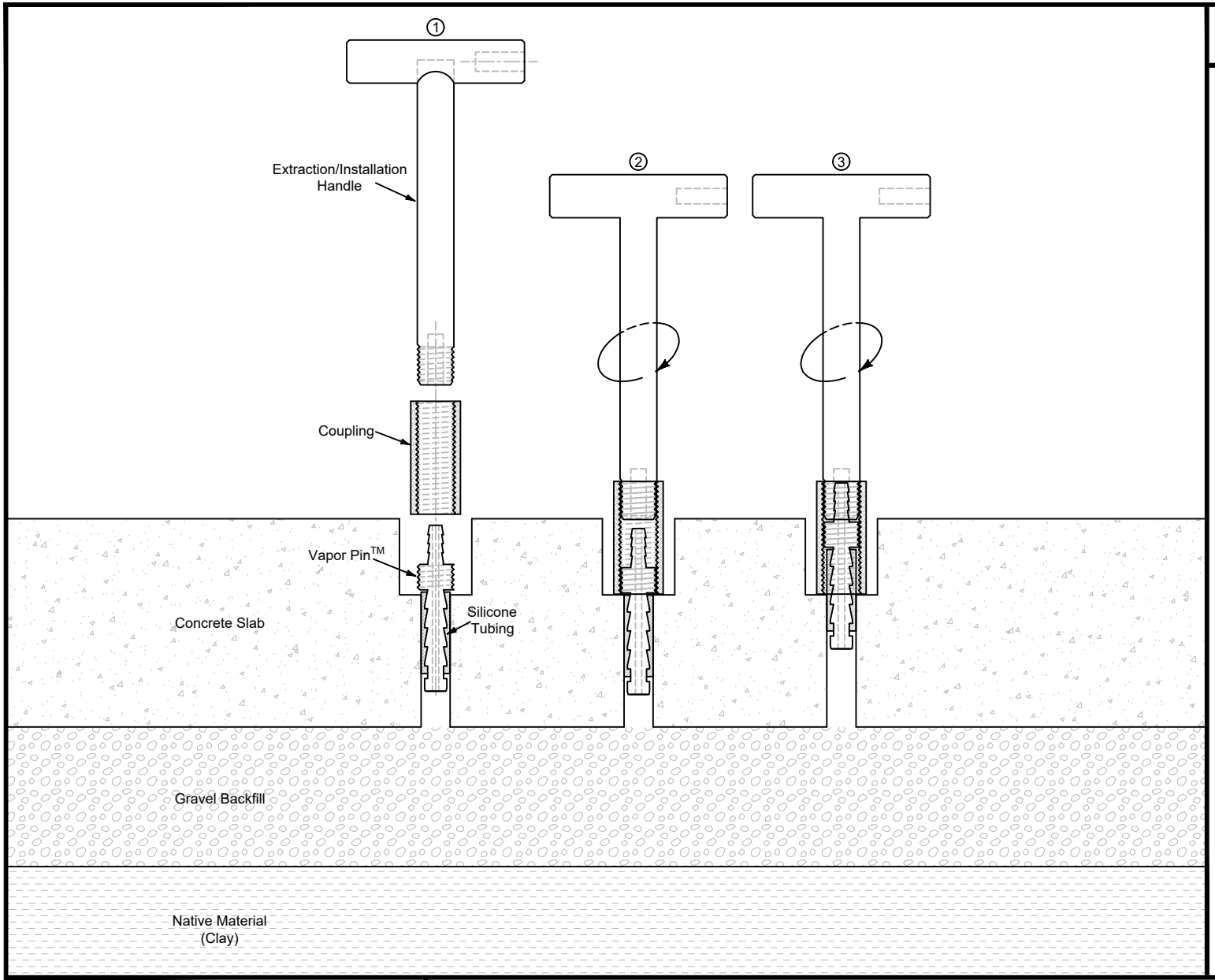
Legend

VaporPin®

Vapor Pin® Installation,
Vapor Pin Enterprises, Inc.
January 4, 2010

Figure

1



Legend

① Vapor Pin™ Extraction/Installation Tool Components

② Vapor Pin™ Extraction/Installation Tool Engaged

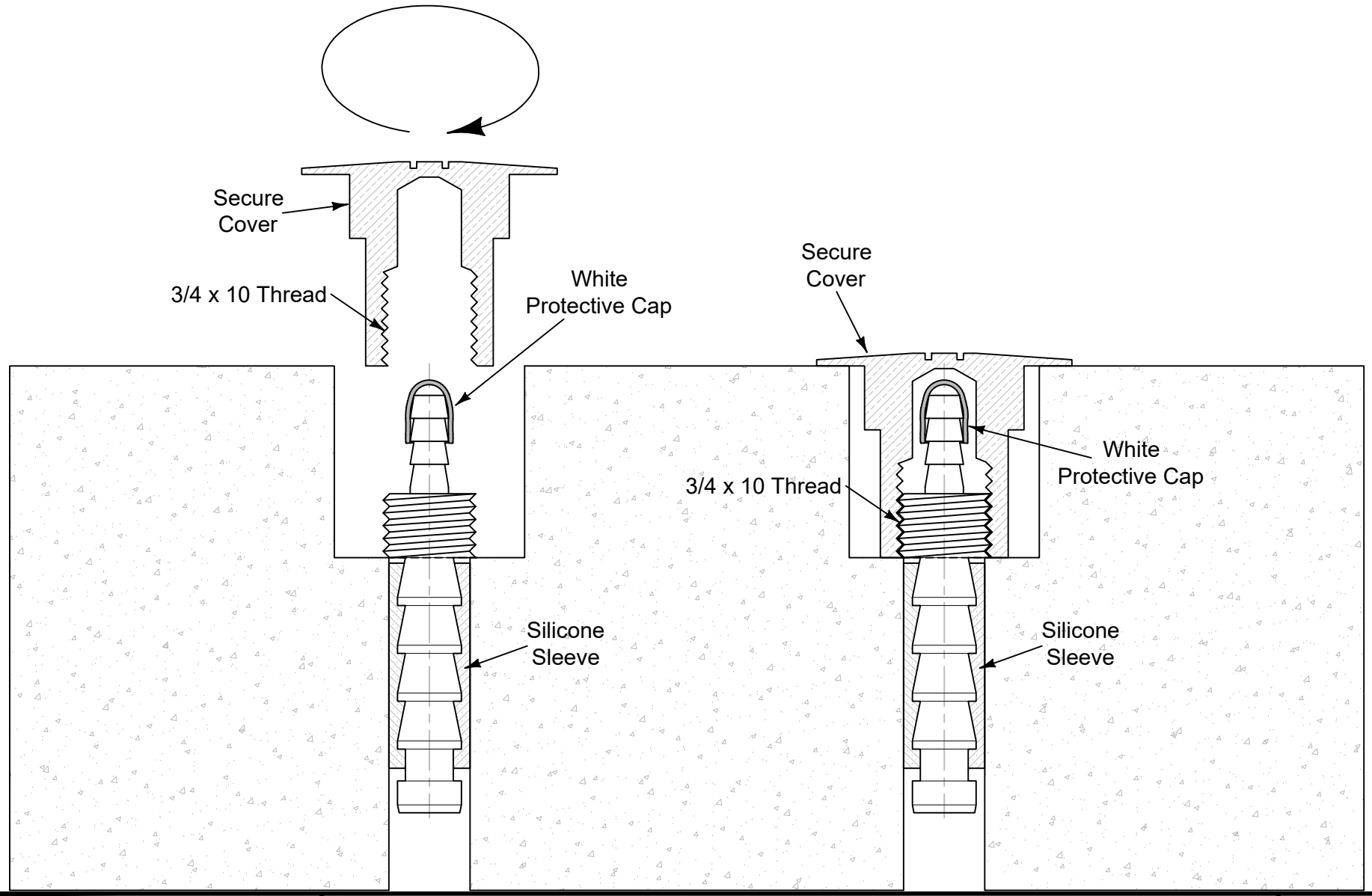
③ Vapor Pin™ Assisted Extraction Complete

VaporPin®

Vapor Pin® Removal,
Vapor Pin Enterprises, Inc.
January 4, 2010

Figure

2



VaporPin®

Stainless Steel Vapor Pin® and Secure Cover,
Vapor Pin Enterprises, Inc.
January 4, 2010

Figure

3

ATTACHMENT 2

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: _____ Site Code: _____ Operable Unit: _____

Building Code: _____ Building Name: _____

Address: _____ Apt/Suite No: _____

City: _____ State: _____ Zip: _____ County: _____

Contact Information

Preparer's Name: _____ Phone No: _____

Preparer's Affiliation: _____ Company Code: _____

Purpose of Investigation: _____ Date of Inspection: _____

Contact Name: _____ Affiliation: _____

Phone No: _____ Alt. Phone No: _____ Email: _____

Number of Occupants (total): _____ Number of Children: _____

☐ Occupant Interviewed? ☐ Owner Occupied? ☐ Owner Interviewed?

Owner Name (if different): _____ Owner Phone: _____

Owner Mailing Address: _____

Building Details

Bldg Type (Res/Com/Ind/Mixed): _____ Bldg Size (S/M/L): _____

If Commercial or Industrial Facility, Select Operations:

If Residential Select Structure Type:

Number of Floors: _____ Approx. Year Construction: _____ ☐ Building Insulated? ☐ Attached Garage?

Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):

Foundation Description

Foundation Type: _____ Foundation Depth (bgs): _____ Unit: FEET

Foundation Floor Material: _____

Foundation Wall Material: _____

Foundation Floor Thickness: _____

Foundation Wall Thickness: _____ Unit: INCHES

☐ Floor penetrations? Describe Floor Penetrations: _____

☐ Wall penetrations? Describe Wall Penetrations: _____

Basement is: _____ Basement is: _____ ☐ Sumps/Drains? Water In Sump?: _____

Describe Foundation Condition (cracks, seepage, etc.) : _____

☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating/Cooling/Ventilation Systems

Heating System: _____ Heat Fuel Type: _____ ☐ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: _____ Clothes Dryer Fuel Type: _____

Water Htr Vent Location: _____ Dryer Vent Location: _____

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: _____ Bldg Code: _____ Date: _____

Bldg Address: _____ Apt/Suite No: _____

Bldg City/State/Zip: _____

Make and Model of PID: _____ Date of Calibration: _____

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☐ Were there any elevated PID readings taken on site? ☐ ☐ Products with COC?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: _____ Site Code: _____ Operable Unit: _____

Building Code: _____ Building Name: _____

Address: _____ Apt/Suite No: _____

City: _____ State: _____ Zip: _____ County: _____

Factors Affecting Indoor Air Quailty

Frequency Basement/Lowest Level is Occupied?: _____ Floor Material: _____

☐ Inhabited? ☐ HVAC System On? ☐ Bathroom Exhaust Fan? ☐ Kitchen Exhaust Fan?

Alternate Heat Source: _____ ☐ Is there smoking in the building?

☐ Air Fresheners? Description/Location of Air Freshener: _____

☐ Cleaning Products Used Recently?: Description of Cleaning Products: _____

☐ Cosmetic Products Used Recently?: Description of Cosmetic Products: _____

☐ New Carpet or Furniture? Location of New Carpet/Furniture: _____

☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics: _____

☐ Recent Painting/Staining? Location of New Painting: _____

☐ Solvent or Chemical Odors? Describe Odors (if any): _____

☐ Do Any Occupants Use Solvents At Work? If So, List Solvents Used: _____

☐ Recent Pesticide/Rodenticide? Description of Last Use: _____

Describe Any Household Activities (chemical use,/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

☐ Any Prior Testing For Radon? If So, When?: _____

☐ Any Prior Testing For VOCs? If So, When?: _____

Sampling Conditions

Weather Conditions: _____ Outdoor Temperature: _____ °F

Current Building Use: _____ Barometric Pressure: _____ in(hg)

Product Inventory Complete? _____ ☐ Building Questionnaire Completed?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: _____ Address: _____

Sampling Information

Sampler Name(s): _____ Sampler Company Code: _____

Sample Collection Date: _____ Date Samples Sent To Lab: _____

Sample Chain of Custody Number: _____ Outdoor Air Sample Location ID: _____

SUMMA Canister Information

Sample ID:					
Location Code:					
Location Type:					
Canister ID:					
Regulator ID:					
Matrix:					
Sampling Method:					

Sampling Area Info

Slab Thickness (inches):					
Sub-Slab Material:					
Sub-Slab Moisture:					
Seal Type:					
Seal Adequate?:	☐	☐	☐	☐	☐

Sample Times and Vacuum Readings

Sample Start Date/Time:					
Vacuum Gauge Start:					
Sample End Date/Time:					
Vacuum Gauge End:					
Sample Duration (hrs):					
Vacuum Gauge Unit:					

Sample QA/QC Readings

Vapor Port Purge:	☐	☐	☐	☐	☐
Purge PID Reading:					
Purge PID Unit:					
Tracer Test Pass:	☐	☐	☐	☐	☐

Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the lowest building level .
The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image

Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sket
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or **F**	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	**xxxxxxx**	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	**######**	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

FIRST FLOOR BUILDING LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the first floor of the building.
The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image

Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sket
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or **F**	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	**xxxxxxx**	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	**######**	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

OUTDOOR PLOT LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the outdoor plot of the building as well as the surrounding area. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image

Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sket
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or **F**	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	**xxxxxxx**	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	**######**	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.