ENVIRONMENTAL SITE INVESTIGATION WORK PLAN

SOUTH GROVE ELEMENTARY SCHOOL AND SOUTH GROVE ANNEX 60 COLONY LANE SYOSSET, NEW YORK 11971

PREPARED FOR:
SYOSSET CENTRAL SCHOOL DISTRICT 99 PELL LANE SYOSSET, NEW YORK 11791

JCB PROJECT #: 18-40222
MAY 2018

J.C. BRODERICK & ASSOCIATES, INC.
Environmental Consulting & Testing

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Attachments

Introduction

J.C. Broderick & Associates, Inc. (JCB) was retained by the Syosset Central School District to prepare an Environmental Investigation Work Plan (IWP). The following sections summarize the proposed scope of work to evaluate the potential for exposure by soil, groundwater, and soil vapor intrusion into the districts property and buildings from known landfill contaminants by the adjoining Syosset Landfill located at 150 Miller Place Road. This IWP was developed following the protocols to comply with the requirements of the New York State Department of Health (NYSDOH) "Guidance for Evaluating Soil Vapor Intrusion in the State of New York", Final Version, October 2006 and all amendments; and, The New York State Department of Environmental Conservation, Division of Environmental Remediation, (NYSDEC) "DER-10 Technical Guidance for Site Investigation and Remediation", May 2010.

The proposed scope of work will include the following tasks:

1. Volatile Vapor Intrusion (VVI) Investigation
2. Subsurface Soil Investigation
3. Groundwater Investigation

Section No. 1.0: Volatile Vapor Intrusion (VVI) Investigation

Section No. 1.1: Pre-Work Field Preparations

The following summarizes the pre-work field preparations:

- Prior to mobilization, a pre-sampling inspection will be performed to evaluate the physical layout and conditions of the school building being investigated, to specifically determine the location of each sample, identify conditions that may affect or interfere with the proposed sampling and to prepare the building for sampling.

Section No. 1.2: Sub-Slab Vapor Collection

The following summarizes the manner in which sub-slab vapor samples will be collected:

- For the collection of the subsurface vapor samples, a probe will be fabricated from ½-inch diameter, threaded brass pipe with a barbed tubing connection. Using a hammer drill, a 1-inch hole will be drilled into the concrete floor at least two inches below the base of the slab (three to four inches thick). The pipe will be lowered into the hole, but not flush to the bottom, and set into place utilizing hydrated bentonite powder, which contains no volatile organic compounds (VOCs). A five (5) gallon plastic container will be placed on top of the concrete floor and above the vapor point. The container will be sealed to the concrete floor with modeling clay. Teflon-lined, ¼-inch I.D. disposable polyethylene tubing will then be utilized to connect the barbed connection of the vapor point to a laboratory clean-certified, 6-liter SUMMA® canister, provided by York Analytical Laboratories, Inc. (York) through a flow controller pre-set for an eight (8) hour long sample duration. The tubing includes a tee connection and valve to a purging vacuum pump calibrated for a flow rate of less than 0.2 liters per minute. The tubing, probe, and subsurface soil will be purged of at least one (1) liter of vapor prior to the start of sample collection. Upon completion of the sampling, the probe will be removed from the concrete slab and the hole patched with concrete.

- Helium (He) will be introduced into the atmosphere under the pail, as a tracer gas, to assure the integrity of the subsurface vapor point seals with the atmosphere. The tracer gas will be monitored in the purge air both before and after sampling and outside of any seals, utilizing a Myron Helium Detector, or similar equipment. In addition, Helium (He) will be analyzed for in the sample and if detected at a concentration of more than ten (10) percent by volume, the sample will be considered invalid and retaken.

  Please refer to Figure No. 2, Proposed Sub-slab and Crawlspace Sampling Locations, located in the attachments of this IWP for additional information.

  - One (1) sub-slab vapor sample will be collected from beneath the crawlspace along the east side of the elementary school building.
  - One (1) sub-slab vapor sample will be collected from beneath the crawlspace along the west side of the elementary school building.
  - One (1) sub-slab vapor sample will be collected from beneath the crawlspace along the west side of the elementary school gym.
  - One (1) sub-slab vapor sample will be collected from beneath the crawlspace along the south side of the Annex.

Section No. 1.3: Indoor Air Sample Collection

The following summarizes the manner in which indoor air samples will be collected:

- Sample flow rates will conform to the specifications in the sample collection method (less than 0.2 liters per minute).

- All personnel will avoid lingering in the immediate area of the sampling device while samples are being collected.

- Samples will be collected, utilizing conventional sampling methods, in laboratory clean-certified, 6-liter SUMMA® canisters, provided by York.

- Indoor air samples will be collected, at a height approximately three (3) feet above the floor to represent a height at which occupants are normally seated, from the following locations.

Section 1.3.1: Crawlspace Air Sample Locations

Please refer to Figure No. 2, Proposed Sub-slab and Crawlspace Sampling Locations, located in the attachments of this IWP for additional information.

- One (1) crawlspace air sample will be collected within close proximity of the sub-slab sample location within the east side of the elementary school building.
- One (1) crawlspace air sample will be collected within close proximity of the sub-slab sample location within the west side of the elementary school building.
- One (1) crawlspace air sample will be collected within close proximity of the sub-slab sample location within the elementary school gym.
- One (1) crawlspace air sample will be collected within close proximity of the sub-slab sample location within the Annex.

Section 1.3.2: First Floor Air Sample Locations

Please refer to Figure No. 3, Proposed 1st Floor and Ambient Sampling Locations, located in the attachments of this IWP for additional information.

- One (1) 1st floor air sample will be collected from classroom directly above the crawlspace sample location within the east side of the elementary school building.
- One (1) 1st floor air sample will be collected from classroom directly above the crawlspace sample location within the west side of the elementary school building.
- One (1) 1st floor air sample will be collected from the room directly above the crawlspace sample location within the elementary school gym.
- One (1) 1st floor air sample will be collected from the room directly above the crawlspace sample location within the Annex.

- To document conditions during indoor air sampling and ultimately to aid in the interpretation of the sampling results, the following actions will be taken:

  - The storage of volatile chemicals will be identified.

  - A product inventory survey will be completed, documenting possible sources of volatile chemicals present in the building during the indoor air sampling which could potentially influence the sample results. This inventory will be completed utilizing the NYSDOH product inventory sheet provided in the NYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York", Final Version, October 2006.

  - The use of heating or air conditioning systems during sampling will be noted.

  - Floor plan sketches will be drawn which include: the floor layout with sampling locations, chemical storage areas, garages, doorways, stairways, locations of basement sumps or subsurface drains and utility perforations through building foundations, HVAC system supply and return registers, compass orientation (north), and footings that create separate foundation sections. Photographs will be taken to accompany the floor plan sketches.

  - Any pertinent observations, including readings from field instrumentation, will be recorded.

Section No. 1.4: Outdoor (Ambient) Air Sample Collection

Please refer to Figure No. 3, Proposed 1st Floor and Ambient Sampling Locations, located in the attachments of this IWP for additional information. The following summarizes the manner in which the outdoor (ambient) air sample will be collected:

- An outdoor (ambient) air sample will be collected simultaneously with sub-slab, crawlspace and indoor air samples to evaluate the potential influence, if any, of outdoor air on indoor air quality. To obtain a representative sample which meets the data quality objectives, the outdoor air sample will be collected in a manner consistent with that for indoor air samples.

- The ambient air sample will be collected, at a height above the ground to represent breathing zones (3 to 5 feet), from the following locations:

- One (1) ambient air sample will be collected from outside the south side of the elementary school.
- One (1) ambient air sample will be collected from outside the south side of the Annex.

- To document conditions during outdoor air sampling and ultimately to aid in the interpretation of the sampling results, the following actions will be taken:

  - Outdoor plot sketches will be drawn which include the building site, area streets, outdoor air sampling location, the location of potential interferences, compass orientation (north), and paved areas.

  - Weather conditions (barometric pressure/precipitation/outdoor temperature) will be recorded.

  - Any pertinent observations, including readings from field instrumentation, will be recorded.

Section No. 1.5: Laboratory Analysis

The following summarizes laboratory analysis procedures:

- The collected Summa® Canister samples will be assigned individual identification numbers; Chain of Custody documents will be prepared and the samples will then be delivered to an independent New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory for analysis.

- The collected air samples will be analyzed for VOCs utilizing Environmental Protection Agency (EPA) Method TO-15. Sub-slab samples will additionally be analyzed for Helium (He).

- York Analytical Laboratories, Inc. will provide all laboratory analytical services. Copies of York's NYSDOH ELAP certifications are available upon request.

Section No. 1.6: Quality Assurance and Quality Control (QA/QC) Procedures

The following summarizes Quality Assurance and Quality Control (QA/QC) Procedures:

- In order to prevent cross-contamination between sampling locations, all re-usable sampling equipment which comes into contact with sample materials will be decontaminated prior to each use. Equipment used for sample collection will be wiped clean, washed in a solution of Alconox, and thoroughly rinsed with potable water. New and dedicated polyethylene tubing will be used for collection of each soil vapor sample. All sampling personnel shall wear disposable latex, nylon, or nitrile gloves during sampling events. At a minimum, gloves will be changed before each laboratory sample is collected.

- The field sampling team will maintain a sample log sheet summarizing the following:

  - Sample identification;
  - Canister ID Number;
  - Regulator ID Number;

- Date and time of sample collection;
- Sampling height;
- Sampling methods and devices;
- The volume of air sampled;
- The vacuum of canisters before and after sample collection;
- Chain of custody protocols and records used to track samples from sampling point to analysis.

- Subsequent to sample collection, the Summa® canister will be labeled with the sampling location, time, and samplers initials.

Section No. 1.7: Volatile Vapor Intrusion (VVI) Report Preparation

- Upon completion of the subsurface investigation activities, a VVI Report will be prepared documenting the site findings. At a minimum, the report will include: an executive summary; a narrative of the field activities; validated laboratory analysis data and conclusions; a comparison of subsurface soil vapor, indoor and outdoor air sampling analytical results to TO-15; updated figures and recommendations, if warranted.

Section No. 2.0: Subsurface Soil and Groundwater Investigation

The following summarizes the pre-work field preparations:

- In accordance with New York State Law 16 NYCRR Part 753, a utility mark out will be obtained from the One Call Notification System.

- Perform a limited subsurface inspection utilizing ground penetrating radar (GPR) and/or subsurface structure/utility locating equipment in an attempt to locate subsurface anomalies within the areas of the proposed borings. The subsurface inspection will be limited to: active electric, potable water, natural gas, telecommunications and site lighting lines; sanitary/storm drain systems and underground storage tanks (USTs).

Section No. 2.1: Soil Sample Collection

Please refer to Figure No. 4, Proposed Soil Boring & Groundwater Sampling Locations Map, located in the attachments of this IWP for additional information. The following summarizes the soil sample collection activities:

- With the use of a track-mounted Geoprobe® Model 7822DT or similar equipment advance up to four (4) environmental soil borings along the property boundary between the landfill and the Elementary School and Annex buildings. As the borings are advanced, continuous soil sampling will be performed in five (5) foot intervals, utilizing a Geoprobe® Macro-Core soil sampling system, beginning at the surface grade until the groundwater interface is encountered. The depth to groundwater is estimated to be between 104 feet and 118 feet below surface grade (bsg). To confirm the presence or absence of a contaminant smear zone, soil samples will be collected terminating approximately five (5) feet below the observed groundwater interface. If contamination is discovered, the sampling will continue until the vertical extent of the contamination is reached. The depth and location of each boring will be documented on boring logs and a boring location map.

- Field screening for the presence of total volatile organic compounds (TVOCs) will be performed during all soil sampling utilizing a MiniRAE 3000 portable Photo-Ionization Detector (PID) or equivalent. All PID readings will be documented on boring logs.

- At each boring location, a soil sample will be collected from the surface sample (0 – 5 ft bsg) and at the observed groundwater interface. Additional samples may be collected based on apparent contamination (PID readings, visual and/or olfactory sensing) above or below the groundwater interface. If no evidence of contamination is detected within the borehole, then only the surface sample and groundwater interface sample will be submitted for laboratory analysis.

Section No. 2.2: Groundwater Sample Collection

Please refer to Figure No. 4, Proposed Soil Boring & Groundwater Sampling Locations, located in the attachments of this IWP for additional information. The following summarizes the groundwater sample collection activities:

- Subsequent to the completion of each soil boring, a groundwater sample will be collected utilizing a track-mounted Geoprobe® Model 7822DT equipped with a Geoprobe® SP-16

groundwater sampler. The sampler will be driven to three (3) feet below the observed groundwater interface and deployed in preparation for groundwater sampling.

- All groundwater quality sampling will be performed in accordance with the Environmental Protection Agency's (EPA's) Low-flow (minimal draw down) procedures. In accordance with this procedure, each deployed groundwater sampler will be purged utilizing dedicated polyethylene tubing and a stainless-steel check value to transfer groundwater up the well and through the flow chamber of a YSI 556 Multi-Probe handheld groundwater chemistry meter. Groundwater chemistry will be monitored and recorded every 5 minutes until the groundwater chemistry stabilizes. Monitoring will consist of pH, Specific Conductivity, Redox Potential and Dissolved Oxygen. The sampler will be considered to be stabilized and ready for sampling when the readings remain in the following ranges: ±0.1 for pH; ±3% for Specific Conductance (Conductivity); ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen. YSI stabilization data for each well will be recorded. Between each sampling location, the dedicated polyethylene tubing will be discarded and new tubing utilized. Purge water generated during sample collection will be containerized in 55-gallon steel DOT rated drums.

- Upon completion of the groundwater sampling and removal of the probe rods, the boring will be backfilled with clean sand to grade. The location of each boring will be marked, photographed and measured from at least two (2) fixed points.

Section No. 2.3: Laboratory Analysis

The following summarizes laboratory analysis procedures:

- Soil and groundwater samples selected for laboratory analysis will be placed into laboratory supplied containers, assigned individual identification numbers, and then placed into an appropriately conditioned cooler. Chain of custody documents will be prepared and the samples will then be delivered to an independent New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory for analysis.

- Soil and groundwater samples submitted for laboratory analysis will be analyzed for volatile organic compounds (VOCs) utilizing Environmental Protection Agency (EPA) Method 8260 and semi-volatile organic compounds (SVOCs) utilizing Environmental Protection Agency (EPA) Method 8270.

- York Analytical Laboratories, Inc. will provide all laboratory analytical services. Copies of York's NYSDOH certifications are available upon request.

Section No. 2.4: Quality Assurance and Quality Control (QA/QC) Procedures

The following summarizes quality assurance and quality control (QA/QC) procedures:

- In order to prevent cross-contamination between sampling locations, all re-usable sampling equipment which comes into contact with sample materials will be decontaminated prior to each use. Equipment used for sample collection will be wiped clean, washed in a solution of Alconox, and thoroughly rinsed with potable water. All down-hole equipment which does not come into contact with sample material shall be pressure rinsed with potable water prior to the start of each boring. New and dedicated polyethylene liners will be used for the collection of each soil sample

and new and dedicated polyethylene tubing will be used for collection of each groundwater sample. All sampling personnel shall wear disposable latex, nylon, or nitrile gloves during sampling events. At a minimum, gloves will be changed between boring locations and before each laboratory sample is collected. All collected samples shall be placed into an appropriately conditioned cooler for storage and transported to the laboratory. Samples shall be maintained between 0°C and 8°C.

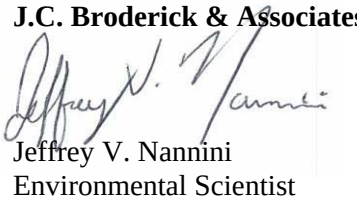
- All soils not selected for laboratory analysis, all rinseate water and all water generated during sample purging will be containerized in properly labeled Department of Transportation (DOT) 55-gallon drums. The drums (soil and water) will be placed in a secure location until disposal arrangements are made and will remain on-site for a maximum of 60 days.

Section No. 2.5: Subsurface Soil and Groundwater Investigation Report Preparation

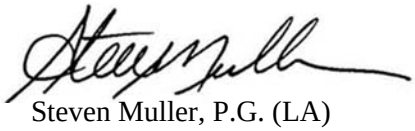
- Upon completion of the subsurface soil and groundwater investigation activities and receipt of laboratory analysis results, a Subsurface Soil and Groundwater Investigation Report will be prepared documenting the site findings. At a minimum, the report will include: an executive summary; a narrative of the field activities; laboratory analysis data and conclusions; a comparison of soil and groundwater analytical results to the Unrestricted Use Soil Cleanup Objectives, Table 375-6.8(a) as reported in NYSDEC Division of Environmental Remediation 6 NYCRR Part 375 Environmental Remediation Programs dated December 14, 2006 and NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations dated June 1998, respectively; an updated site drawing depicting the boring locations; boring logs; and recommendations, if warranted.

If you have any questions, please do not hesitate to contact our office.

Sincerely,
J.C. Broderick & Associates, Inc.

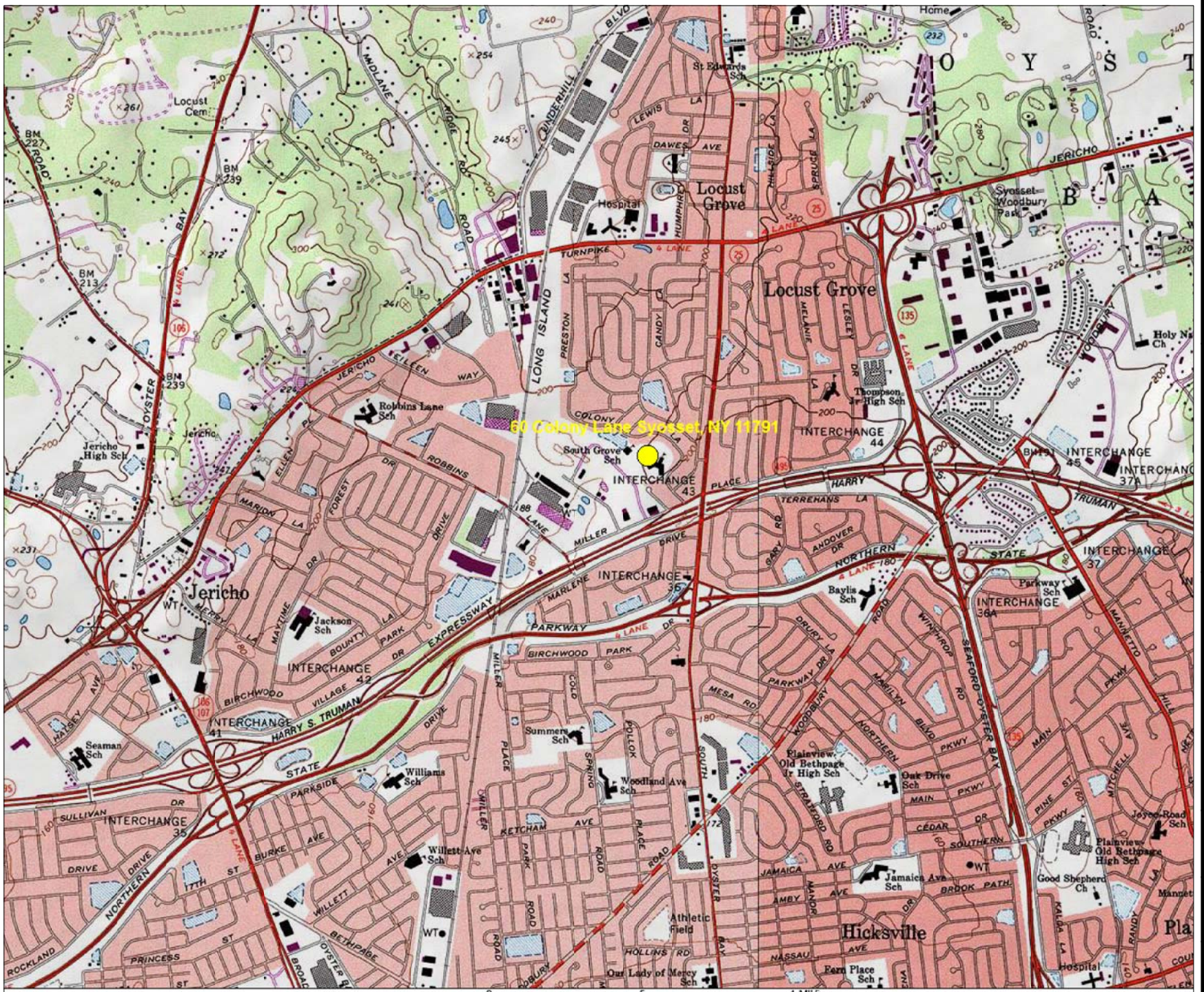


Jeffrey V. Nannini
Environmental Scientist



Steven Muller, P.G. (LA)
Director – Subsurface Division

Figures



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Notes:

South Grove Elementary School
60 Colony Lane
Syosset, NY 11791

Drawing Title

Figure No. 1

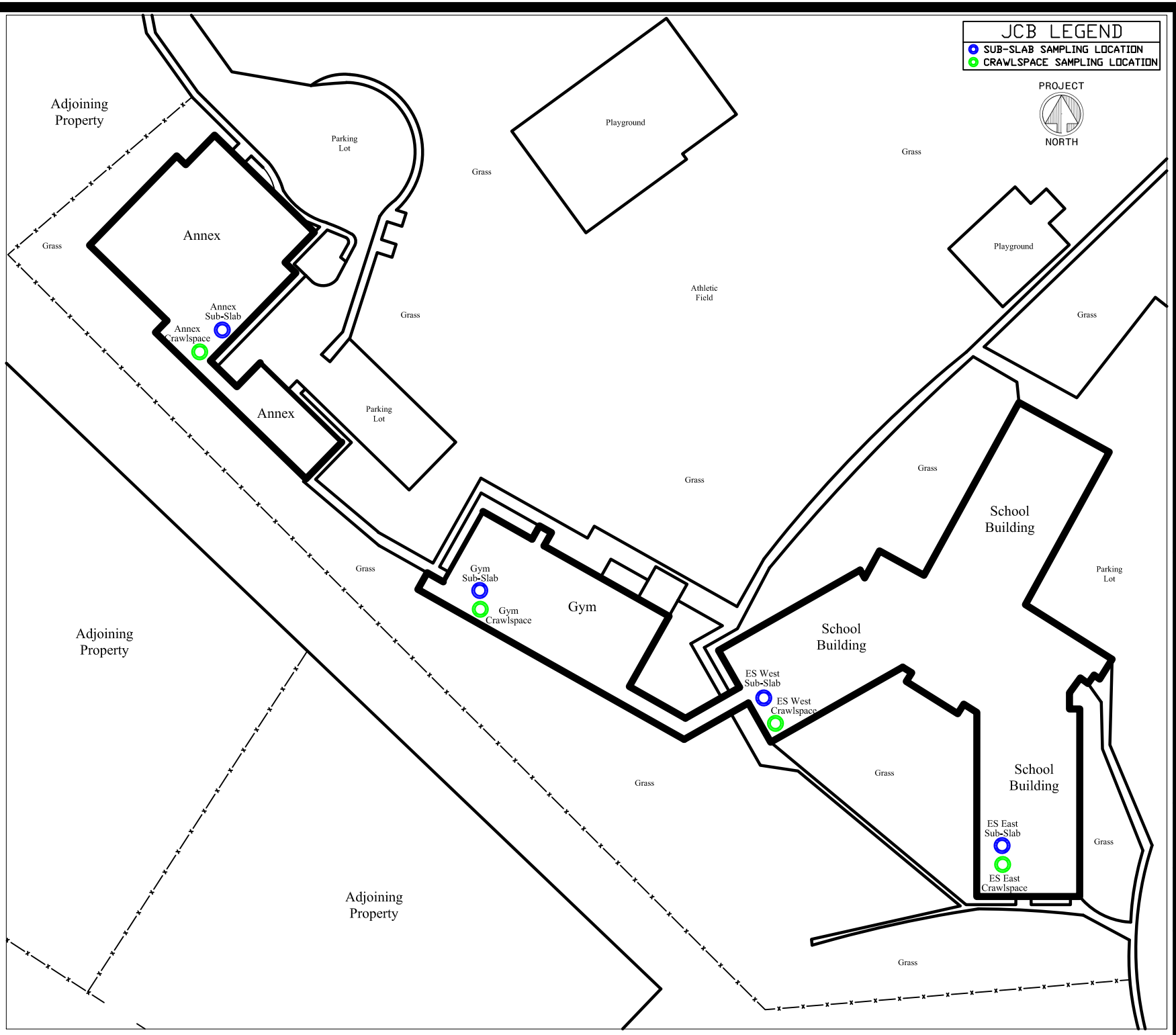
Site Location Map

Scale	Project No.	Date
As Noted	18-40222	05-31-18

Drawn By	Checked By	Page No.
J.V.N.	S.W.M.	1 of 4

Drawing No.

1



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Drawing Title

Figure No. 2

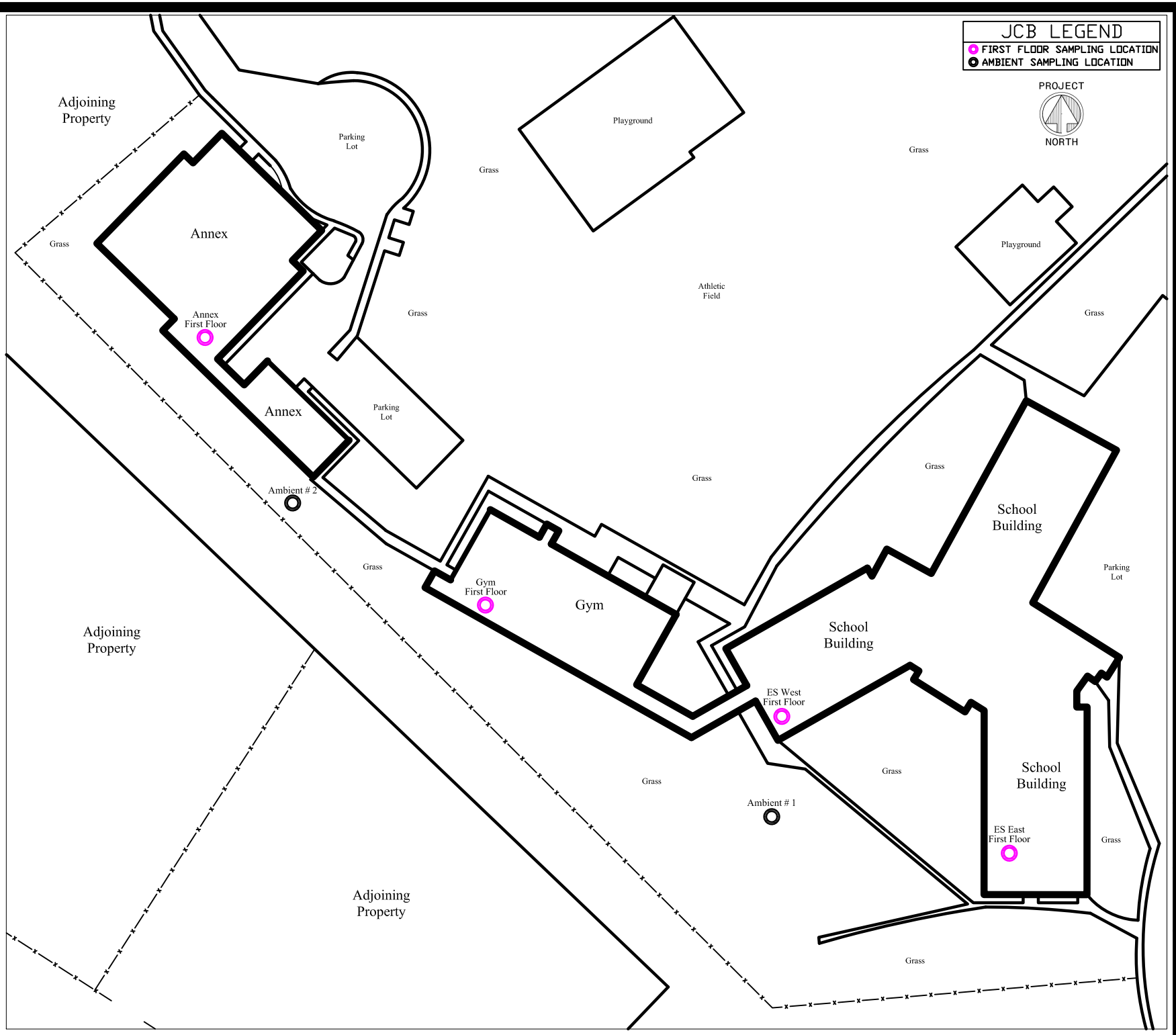
Proposed Sub-Slab and Crawlspace Sampling Locations

Scale	Project No.	Date
N.T.S.	18-40222	05-31-18

Drawn By	Checked By	Page No.
J.V.N.	S.W.M.	2 of 4

Drawing No.

2



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Drawing Title

Figure No. 3

Proposed 1st Floor and Ambient Sampling Locations

Scale	Project No.	Date
N.T.S.	18-40222	05-31-18

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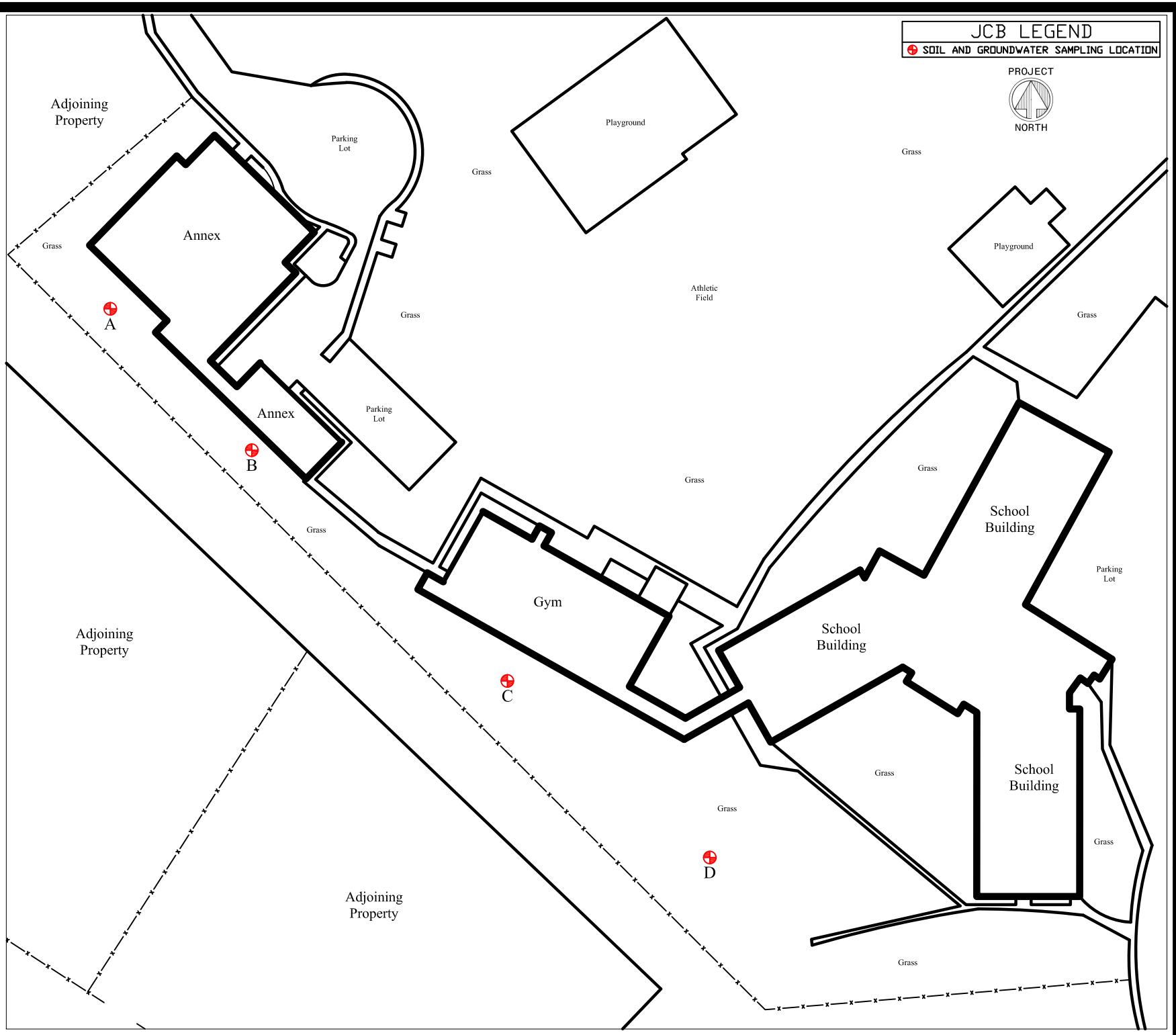
J.V.N.	S.W.M.	3 of 4

Drawing No.

3



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Drawing Title

Figure No. 4

Proposed Soil Boring and Groundwater Sampling Locations

Scale	Project No.	Date
N.T.S.	18-40222	06-01-18

Drawn By	Checked By	Page No.
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Drawing No.

4

Indoor Air Quality Questionnaire and Building Inventory

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	Steam 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	_____
1st Floor	_____
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) 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

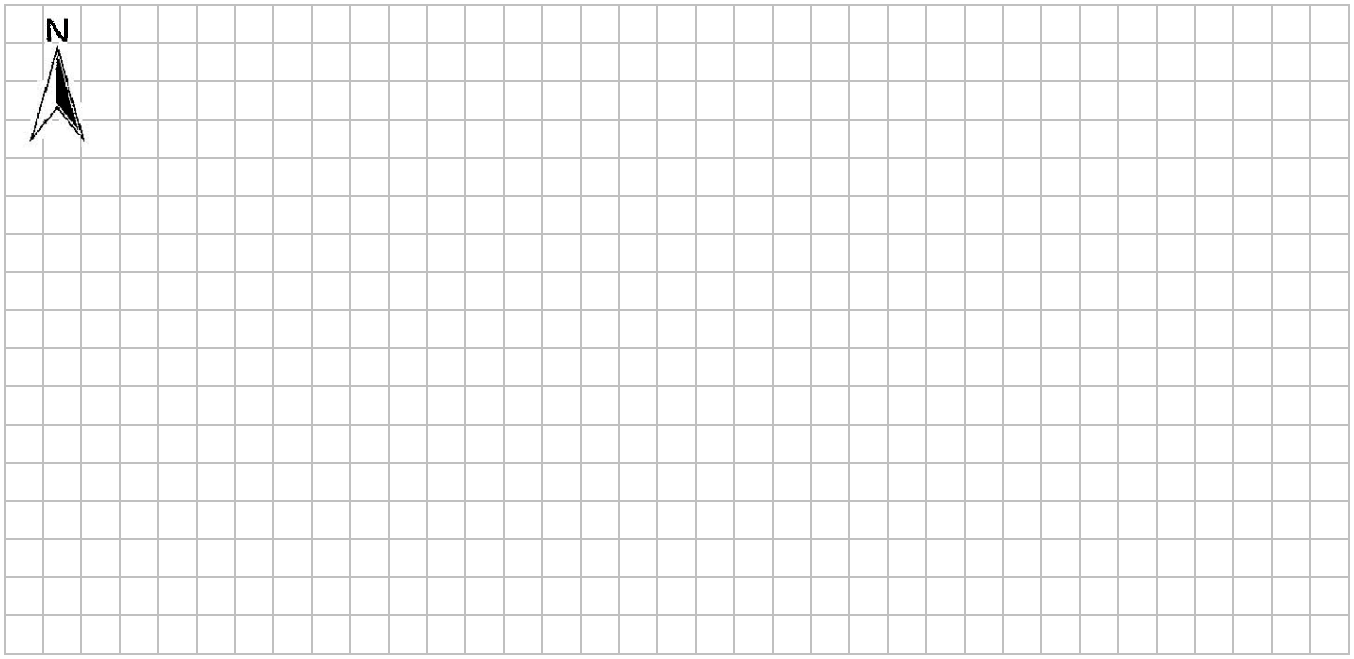
c. Responsibility for costs associated with reimbursement explained? Y / N

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

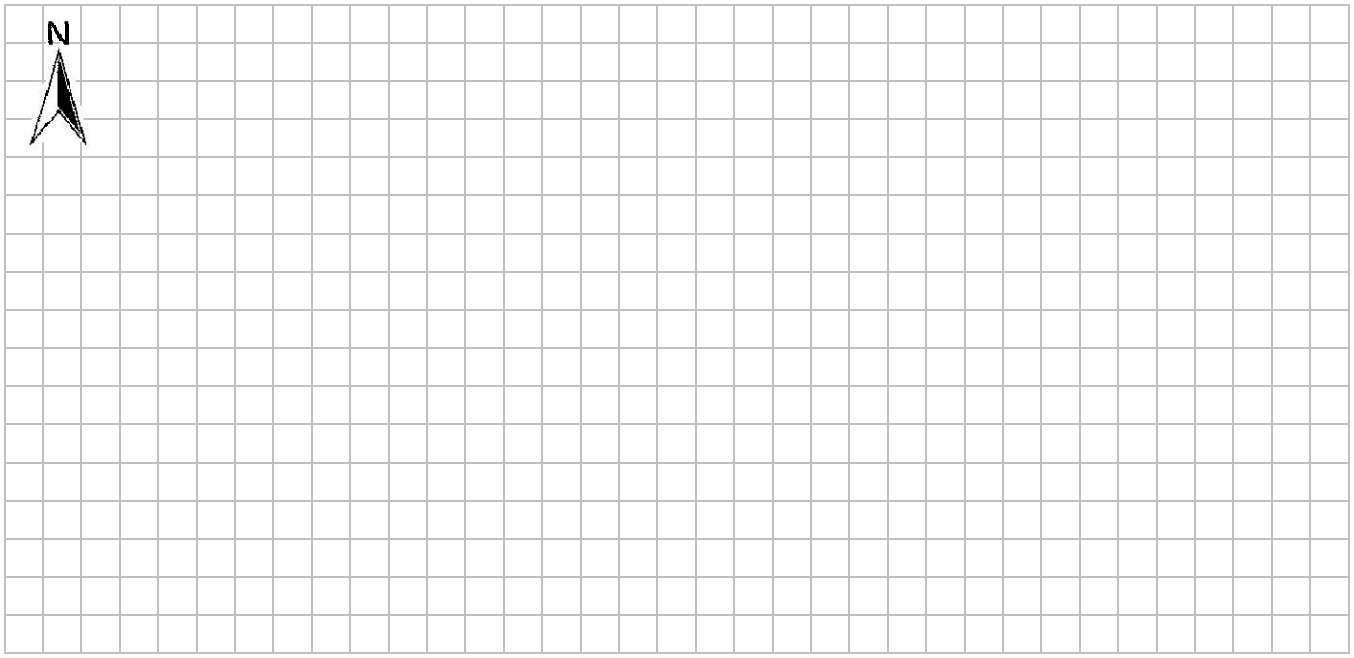
11. FLOOR PLANS

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:



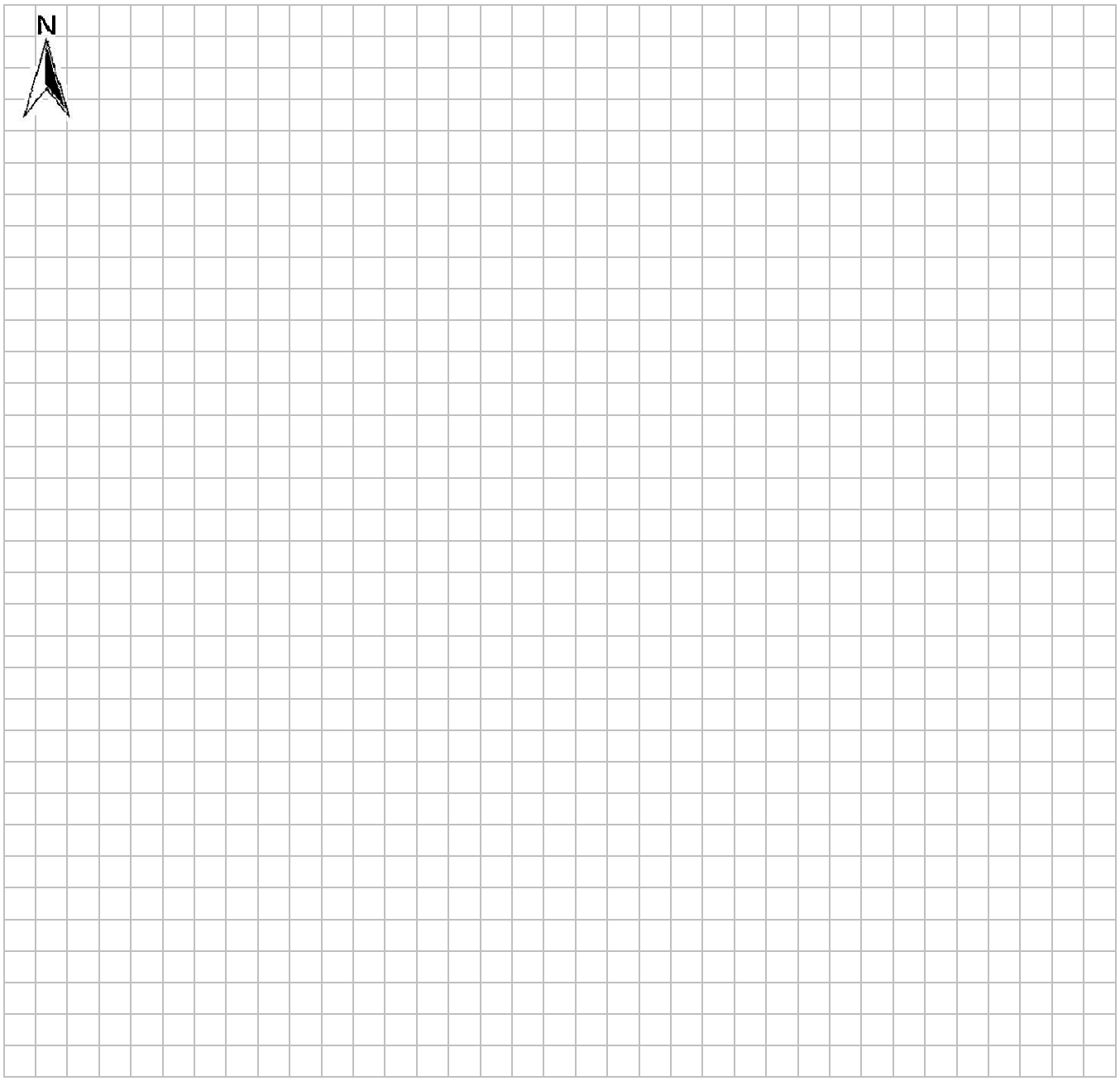
First Floor:



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.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: _____

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

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

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