

June 15, 2021

Mr. Roger Preston
Facilities Manager
SAU 39, Amherst School District
PO Box 849
1 School Street
Amherst, NH 03031

Re: Biannual Indoor Air Quality Testing
Mont Vernon Village School
RPF File 21.0330

Dear Mr. Preston,

In accordance with our scope of work dated January 14, 2021, RPF Environmental, Inc. (RPF) completed biannual indoor air quality (IAQ) testing at the Mont Vernon Village School located at 1 Kittredge Road in Mont Vernon, NH. As part of this survey, testing was completed for several common IAQ parameters including carbon monoxide, carbon dioxide, temperature, relative humidity, dew point, airborne particulate matter, and total volatile organic compounds. The survey was completed by Katherine Corey, an RPF Environmental Health and Safety Consultant, on May 3, 2021.

The Mount Vernon Village School is a 1-story, masonry structure that houses various offices, classrooms, and common areas for grades 1 through 6. The HVAC is ducted throughout the building, with baseboard heaters in each room. Building occupants were present on the day of testing.

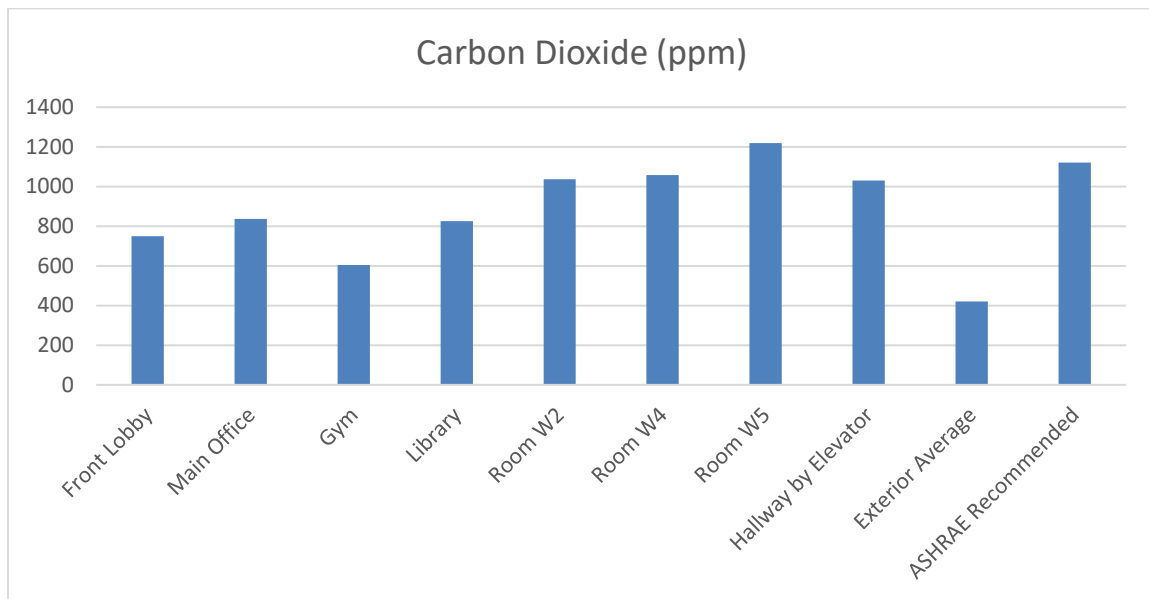
RESULTS

Carbon Dioxide

Carbon Dioxide (CO₂) gas is found in the atmosphere as a normal constituent at background levels of approximately 350 to 450 parts per million (ppm). CO₂ is also a by-product of human respiration. Typically, in building spaces with inadequate amounts of fresh air introduced and circulated, CO₂ levels and other building and occupant generated air contaminants will accumulate and increase over the course of a day. It is likely that the CO₂ levels will increase in any building space while occupied and fresh outside air is not brought into the space. CO₂ is typically not a problem in and of itself in general indoor environments; however, it is used as an indicator of the adequacy of the fresh air ventilation. CO₂ levels, in general, can be used as an indicator of sufficient ventilation in a space. The primary purpose of introducing fresh tempered outside air into buildings is to dilute the building of occupant generated air contaminants, which would improve the perceived IAQ and occupant comfort and productivity. Inadequate ventilation (and/or elevated temperatures) are frequently causes of complaints, such as respiratory, eye, nose

and throat irritation, lethargy, and headaches.

The CO₂ results and testing locations are presented in Table 1 of Appendix A. CO₂ levels at all indoor locations tested were documented in the range of approximately 605 to 1,219 ppm, which is well below the Occupational Safety and Health Administration Permissible Exposure Limit (OSHA PEL) of 5,000 ppm. These concentration ranges are also within and slightly below the generally accepted guideline limit of 800 to 1,000 ppm.



The American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) recommends a guideline in their Standard 62-2001 for Ventilation for Acceptable Indoor Air Quality for a maximum of 700 ppm CO₂ above outside air concentrations as a value under which employee complaints are minimized. On the day of this testing, the outdoor ambient concentration of CO₂ was recorded at 420 ppm with a corresponding value of 1,120 ppm, for a maximum CO₂ for perceived acceptable air quality. The ASHRAE standard also calls for a minimum of 20 cubic feet of outside air (FOA) per minute per occupant be introduced into office spaces, and if applicable, 15 cfm per occupant of classrooms, to maintain dilution of contaminants and perceived indoor air quality.

The feasibility of modifying the existing HVAC units to introduce more FOA should be investigated. Measurements to determine ventilation rates were not completed as part of this initial scope of work.

According to the USEPA, pollutant or contaminant source control is usually the most effective way to improve indoor air quality. If source control efforts are not sufficient, increasing the amount of outdoor air coming indoors may prove to be helpful.

Carbon Monoxide

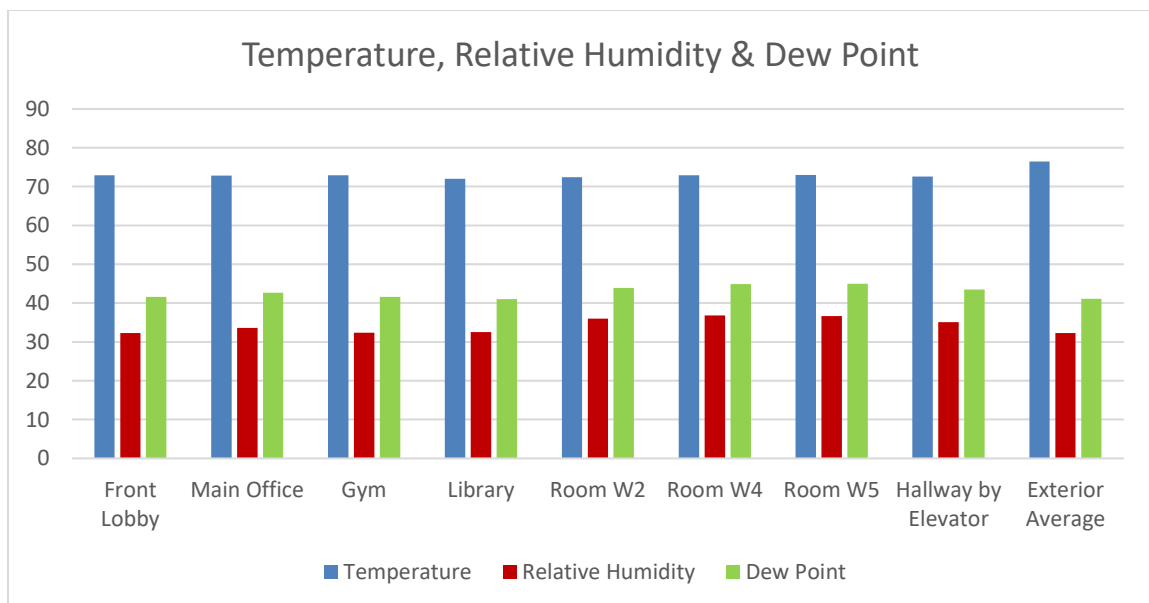
Carbon monoxide (CO) is an odorless, colorless, and toxic gas, and is a by-product of incomplete combustion. Exposure to CO can produce immediate and acute health effects. Transient low levels of CO in building spaces can sometimes be attributed to vehicle exhaust, cigarette smoke, or other sources of combustion in the actual space or adjacent to the air handlers for the space. Minor transient meter readings may also be due to changes in temperature and humidity depending on the test equipment used.

Carbon monoxide concentrations at the tested locations ranged from 1.1 to 1.3 ppm, which is below the OSHA PEL of 50 ppm. These results and testing locations are presented in Table 1 of Appendix A.

RPF recommends use of carbon monoxide alarms. Other than proper installation and maintenance of alarms and furnace heating systems, no action is recommended as it relates to CO.

Temperature, Relative Humidity and Dew Point

Temperature, relative humidity, and dew point are all interrelated, and all play a role in the interior environment. Measurements were taken for all three on the day of testing and are presented in the following chart with actual testing locations and results included in appendix A.



Temperature will affect the occupant’s perception of IAQ based on employee comfort levels, effect of drafts or airflow, and humidity levels in a building. In most cases, simple adjustments to thermostats and direction of airflow from registers can improve perceived

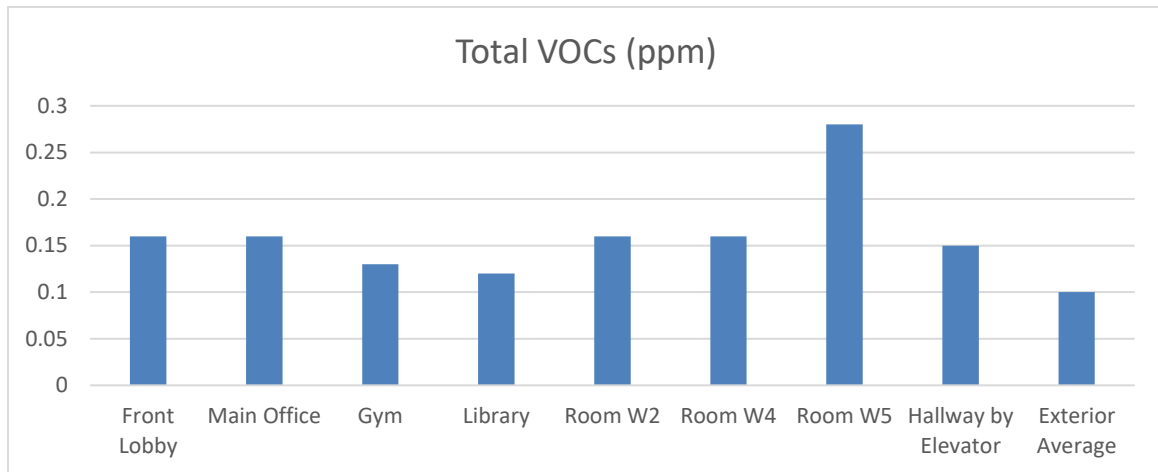
IAQ. As a reference, the temperatures recommended by ASHRAE for general office space ranges from approximately 68° to 75° Fahrenheit in the winter, and from approximately 75° to 80° Fahrenheit in the summer. Temperature readings at all indoor locations tested were documented in the range of 72.0° to 73.0° Fahrenheit.

The amount of water vapor that can be contained in the air varies by the temperature and pressure of the air. The ratio of water vapor in the air to the maximum amount of water vapor the air can hold at a given temperature is expressed as relative humidity (RH). The recommended RH comfort range is 35% to 55%. In general, for buildings, the presence of excessive moisture can lead to mold growth and other biological contaminants. Low RH, common for buildings in New England during colder months, may contribute to irritated mucous membranes, dry eyes, and sinus discomfort while high relative humidity, common in summer, may cause discomfort, as it hinders the body's use of perspiration as a cooling mechanism. RH levels at the indoor locations tested during this survey were within or slightly below the generally accepted comfort range.

Dew point is related to humidity and is the temperature below which water vapor may start to condense to form water droplets on a surface. If dew forms on interior building materials, the material may become wet, and subsequent fungal growth can occur. For instance, an uninsulated cold-water pipe may form condensation when the temperature of the metal surface is colder than the environmental dew point, and drip onto surfaces causing them to become wet. Dew point measurements on the day of testing ranged from 41.0° to 45.0° Fahrenheit. Based on these results, the interior temperature readings were all above the Dew Point readings. The results and testing locations are presented in Appendix A.

Volatile Organic Compounds

The scope of this survey included screening for total volatile organic compounds (VOCs). During this testing, total VOCs were measured at 0.28 parts per million (ppm) or less for all indoor locations. The outside air was measured at an average of 0.1 ppm. These results are summarized below and presented in Table 1 of Appendix A.



The U.S. Environmental Protection Agency (EPA) reports that levels of volatile organic compounds (VOC) are almost always higher indoors compared to outdoors. Based on past testing, total VOC readings of up to 1 ppm are not atypical in general IAQ settings. In addition, the American Industrial Hygiene Association (AIHA) Technical Committee on Indoor Environmental Quality 1993 publication indicates that a general acceptable range for indoor air total VOC screening is less than 1.0 ppm. EPA studies have also found levels of about a dozen common organic pollutants to be 2 to 5 times higher inside homes than outside, regardless of whether the homes were located in rural or highly industrial areas.

Field experience also suggests the following guide for the use of PID test equipment (RAE Systems by Honeywell) to assess indoor environments:

- <0.1 ppm: normal outdoor air
- 0.1 to 0.4 ppm: normal indoor air
- ≥ 0.5 ppm: indicates the potential of IAQ contaminants

Individual VOCs can have vastly different standards for acceptable concentrations. Exposure to some specific compounds (such as formaldehyde) can result in health issues for some individuals, at even lower concentrations and levels even exceeding 0.1 ppm. In addition, an individual's odor and irritation responses to organic compounds may be highly variable. Therefore, the total VOC readings must be considered in that light. Further testing can be performed based on the screening results or other factors if you would like additional information on specific VOCs.

Total VOCs include a variety of chemicals that are emitted by a wide array of products used in building construction, maintenance, and consumer materials. Just a few examples of materials that commonly have VOC off-gassing include paints and lacquers, paint strippers, cleaning supplies, pesticides, building materials and furnishings, carpets, upholstery, office equipment such as copiers and printers, correction fluids and carbonless copy paper, graphics and craft materials including glues and adhesives, permanent markers,

air fresheners, and photographic solutions. Exposure to VOCs may have short-term and long-term adverse health effects. Studies suggest that the irritant potency of these VOC mixtures can vary.

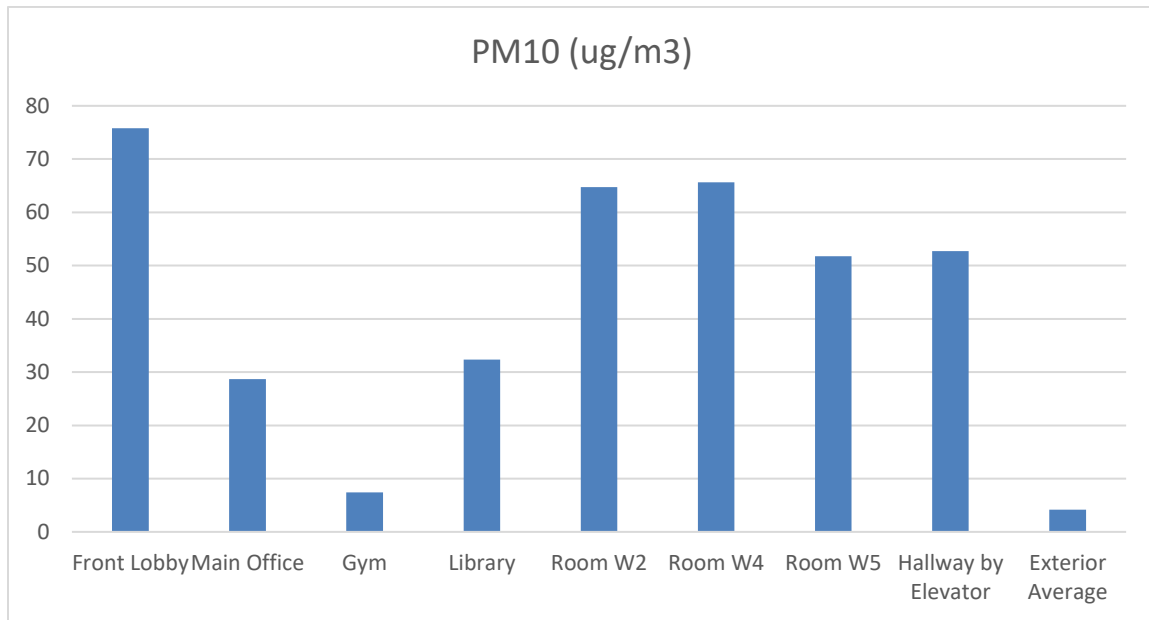
Total VOC screening does not include specific and individual chemical compound testing for the makeup of the overall VOCs concentrations; and, as with other pollutants, the extent and nature of the health effects will depend on many factors, including level of exposure and length of time exposed. Among the immediate symptoms that some people have experienced soon after exposure to some organics include:

- Eye and respiratory tract irritation
- Headaches
- Dizziness
- Visual disorders and memory impairment

Particulate Matter (PM₁₀)

Particulate matter (PM) is a complex mixture of solid and/or liquid particulates suspended in air. Exposure to inhalable particulates, especially those at 10 microns and smaller, commonly referred to as PM₁₀, are a health concern. Concern of adverse effects to the heart and lungs is well established, especially in children, older adults, and those with existing heart or lung conditions. Outdoor concentrations of PM are of great concern to the EPA, but less is known about the health impacts of indoor PM. Some indoor sources of PM include cooking, combustion activities, some hobbies, outdoor sources introduced indoors, and biological sources.

Direct reading determinations for PM₁₀ at all indoor locations tested were in the range of approximately 7.4 to 75.81 micrograms per cubic meter of air ($\mu\text{g}/\text{m}^3$). The results at most of the interior locations tested were elevated above the values found outside, which was approximately $4.16 \mu\text{g}/\text{m}^3$. These results and testing locations are presented in Table 1 of Appendix A.



These results indicate that the HVAC filters are not reducing the overall particle loading inside the building when compared to the outside air. If additional testing performed later indicate that interior PM₁₀ quantities continue to be elevated above the exterior quantities, the feasibility to use HVAC filters with a higher efficiency rating should be considered. The US EPA does have a National Ambient Air Quality Standard at 150 µg/m³ which was not exceeded during the testing. The World Health Organization (WHO) also has set a standard of 50 µg/m³ as a 24-hour average and 25 µg/m³ as an annual average exposure. For a building that implements the use of an HVAC system, it is typical to see a 25% to 35% reduction in total particulates inside a building compared to the outside concentration of particulates while the HVAC units are operational. The feasibility of upgrading the HVAC systems' filter efficiency rating could be investigated if complaints were to increase at this building. The American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) has recommended filter minimum efficiency reporting value (MERV) of not less than six (6) for filters in HVAC systems supplying air to occupied office space (ASHRAE Standard 62.1-2004-5.9). A recent ASHRAE guidance regarding building operations during the Covid-19 pandemic has also recommended increasing the filter efficiency to the highest rating compatible with the HVAC system, up to MERV-13, and sealing the edges of the filter to limit air bypass. Follow the manufacturer's recommendations for a filter change out schedule.

Other steps to reduce indoor PM₁₀ concentrations include proper ventilation, away from HVAC intakes, of combustion appliances to the outdoors, proper exhaust vents in cooking areas, proper use of wood stoves, and professional maintenance of heating systems.

PRELIMINARY OBSERVATIONS AND COMMENTS

In addition to the findings and recommendations provided above, RPF opinions related to the IAQ within the areas of the facility tested based on the results and our observations are presented below.

- Overall, the readings collected in the school for each IAQ parameter tested were either within or below their respective standard and/or comfort range, except for RH and TVOCs. The RH levels within the school were below the generally accepted comfort range of 35 to 55%. However, it should be noted that the RH levels outside the building were also below the comfort range. Low RH can contribute to symptoms such as dry eyes and irritated sinuses. Humidifiers can be used to add moisture to the air and alleviate symptoms. However, it should be noted that humidifiers can become a source of fungal contamination if not properly cleaned or maintained.
- There were PM10 readings within the school that were elevated above the outside readings, but all readings collected within the building were well below the NAAQS of 150 ug/m³. As indicated above, investigating the feasibility of upgrading the filters to a better MERV rating (such as MERV-13) could help make the system more efficient in removing particles.
- Heating systems should be inspected on an annual basis or more frequently as required by the manufacturer. RPF recommends implementing and maintaining a preventative maintenance and inspection program for the HVAC system including air filter change-out schedule on a quarterly basis and inspecting for the proper seating of air filters within the filter housing of each air handling unit in order to help eliminate potential air bypass of air filters.
- Ongoing housekeeping and preventative maintenance of the space and building envelope should continue.
- Prior to any demolition or renovation of building materials, the areas of impact must be inspected for presence of asbestos by a qualified asbestos inspector pursuant to various state and federal regulation. This inspection should also address other items that could be impacted by work resulting in contamination or health risks, including but not limited to lead paint, mercury containing products, and other common hazardous building materials.

If you have any questions or require additional information on any sample results or recommendations, please feel free to contact our office.

Thank you for utilizing the services of RPF for this important project.

Sincerely,
RPF Environmental, Inc.



Brianna Ham, CMI
EH&S Consultant

Enclosures: Appendix A: Testing Results
 Appendix B: Limitations and Methodologies

21.0330 Mont Vernon 050321 IAQ Report

APPENDIX A

TABLE 1 - Preliminary IAQ Testing

Client: SAU 39, Amherst School District	Site Address: 1 Kittredge Road, Mont Vernon, NH 03057					Date Samples Collected: 05/03/2021		
Location / Room	Time	Carbon Dioxide (ppm)	Temp (°F)	Relative Humidity (%)	Dew Point	TVOC (ppm)	Carbon Monoxide (ppm)	PM10 (ug/m³)
Outside	11:12	430	76.1	31.4	40.6	0.1	1.3	2.77
Front Lobby	11:30	750	72.9	32.3	41.6	0.16	1.3	75.81
Main Office	11:33	837	72.8	33.6	42.7	0.16	1.3	28.66
Gym	11:35	605	72.9	32.4	41.6	0.13	1.3	7.4
Library	11:37	826	72.0	32.5	41	0.12	1.2	32.36
Room W2	11:59	1,036	72.4	36.0	43.9	0.16	1.2	64.72
Room W4	12:00	1,057	72.9	36.8	44.9	0.16	1.1	65.64
Room W5	12:01	1,219	73.0	36.7	45	0.28	1.1	51.77
Hallway by Elevator	12:04	1,031	72.6	35.1	43.5	0.15	1.2	52.7
Outside	12:06	410	76.8	33.1	41.6	0.09	1.1	5.55
ACGIH TLV	-	5,000	-	-	-	-	25	-
OSHA PEL	-	5,000	-	-	-	-	50	-
ASHRAE recommended	-	1,120	-	35-55	-	-	2.5	-
EPA Reference Level Indicator	-	1,000	-	-	-	-	9	150

Notes: Refer to the full text of the report for additional information, scope of testing, and limitations. Note: Refer to the full text of the report for additional information, scope of testing, and limitations.

ppm – parts per million in air; ppb – parts per billion in air

OSHA PEL – Occupational Safety and Health Administration Permissible Exposure Limit for eight-hour time weighted average (8hr-TWA).

ACGIH TLV – American Conference of Governmental Industrial Hygienist Threshold Limit Value for eight-hour time weighted average (8hr-TWA).

ASHRAE – American Society of Heating, Refrigeration and Air Conditioning Engineers, 62-2001 standard.

EPA – Environmental Protection Agency.

Gray Wolf IAQ monitor has a sensitivity of +/- 1 ppm for carbon monoxide and +/- 0.01 ppm for volatile organic compounds.

Results of less than 1 ppm carbon monoxide or 0.01 ppm volatile organic compounds can be considered “non-detect”.

Gray Wolf Dust meter senses particles of less than 10 microns diameter.

APPENDIX B

LIMITATIONS

1. The observations and conclusions presented in the Report were based solely upon the services described herein, and not on scientific tasks or procedures beyond the RPF Environmental, Inc. Scope of Work (SOW) as discussed in the proposal and/or agreement. The conclusions and recommendations are based on visual observations and testing, limited as indicated in the Report, and were arrived at in accordance with generally accepted standards of industrial hygiene practice and asbestos professionals. The nature of this survey or monitoring service was limited as indicated herein and in the report or letter of findings. Further testing, survey, and analysis is required to provide more definitive results and findings.
2. For site survey work, observations were made of the designated accessible areas of the site as indicated in the Report. While it was the intent of RPF to conduct a survey to the degree indicated, it is important to note that not all suspect ACM material in the designated areas were specifically assessed and visibility was limited, as indicated, due to the presence of furnishings, equipment, solid walls and solid or suspended ceilings throughout the facility and/or other site conditions. Asbestos or hazardous material may have been used and may be present in areas where detection and assessment is difficult until renovation and/or demolition proceeds. Access and observations relating to electrical and mechanical systems within the building were restricted or not feasible to prevent damage to the systems and minimize safety hazards to the survey team.
3. Although assumptions may have been stated regarding the potential presence of inaccessible or concealed asbestos and other hazardous material, full inspection findings for all asbestos and other hazardous material requires the use of full destructive survey methods to identify possible inaccessible suspect material and this level of survey was not included in the SOW for this project. For preliminary survey work, sampling and analysis as applicable was limited and a full survey throughout the site was not performed. Only the specific areas and /or materials indicated in the report were included in the SOW. This inspection did not include a full hazard assessment survey, full testing or bulk material, or testing to determine current dust concentrations of asbestos in and around the building. Inspection results should not be used for compliance with current EPA and State asbestos in renovation/demolition requirements unless specifically stated as intended for this use in the RPF report and considering the limitations as stated therein and within this limitations document.
4. Where access to portions of the surveyed area was unavailable or limited, RPF renders no opinion of the condition and assessment of these areas. The survey results only apply to areas specifically accessed by RPF during the survey. Interiors of mechanical equipment and other building or process equipment may also have asbestos and other hazardous material present and were not included in this inspection. For renovation and demolition work, further inspection by qualified personnel will be required during the course of construction activity to identify suspect material not previously documented at the site or in this survey report. Bordering properties were not investigated and comprehensive file review and research was not performed.
5. For lead in paint, observations were made of the designated accessible areas of the site as indicated in the Report. Limited testing may have been performed to the extent indicated in the text of the report. In order to conduct thorough hazard assessments for lead exposures, representative surface dust testing, air monitoring and other related testing throughout the building, should be completed. This type of in depth testing and analysis was beyond the scope of services for the initial inspection. For lead surveys with XRF readings, it is recommended that surfaces found to have LBP or trace amount of lead detected with readings of less than 4 mg/cm² be confirmed using laboratory analysis if more definitive results are required. Substrate corrections involving destructive sampling or damage to existing surfaces (to minimize XRF read-through) were not completed. In some instances, destructive testing may be required for more accurate results. In addition, depending on the specific thickness of the paint films on different areas of a building component, differing amounts of wear, and other factors, XRF readings can vary slightly, even on the same building component. Unless otherwise specifically stated in the scope of services and final report, lead testing performed is not intended to comply with other state and federal regulations pertaining to childhood lead poisoning regulations.

6. Air testing is to be considered a “snap shot” of conditions present on the day of the survey with the understanding that conditions may differ at other times or dates or operational conditions for the facility. Results are also limited based on the specific analytical methods utilized. For phase contrast microscopy (PCM) total airborne fiber testing, more sensitive asbestos-specific analysis using transmission electron microscopy (TEM) can be performed upon request.
7. For asbestos bulk and dust testing, although polarize light microscopy (PLM) is the method currently recognized in State and federal regulations for asbestos identification in bulk samples, some industry studies have found that PLM may not be sensitive enough to detect all of the asbestos fibers in certain nonfriable material, vermiculate type insulation, soils, surface dust, and other materials requiring more sensitive analysis to identify possible asbestos fibers. In the event that more definitive results are requested, RPF recommends that confirmation testing be completed using TEM methods or other analytical methods as may be applicable to the material. Detection of possible asbestos fibers may be made more difficult by the presence of other non-asbestos fibrous components such as cellulose, fiber glass, etc., by binder/matrix materials which may mask or obscure fibrous components, and/or by exposure to conditions capable of altering or transforming asbestos. PLM can show significant bias leading to false negatives and false positives for certain types of materials. PLM is limited by the visibility of the asbestos fibers. In some samples the fibers may be reduced to a diameter so small or masked by coatings to such an extent that they cannot be reliably observed or identified using PLM.
8. For hazardous building material inspection or survey work, RPF followed applicable industry standards; however, RPF does not warrant or certify that all asbestos or other hazardous materials in or on the building has been identified and included in this report. Various assumptions and limitations of the methods can result in missed materials or misidentification of materials due to several factors including but not limited to: inaccessible space due to physical or safety constraints, space that is difficult to reach to fully inspect, assumptions regarding the determination of homogenous groups of suspect material, assumptions regarding attempts to conduct representative sampling, and potential for varying mixtures and layers of material sampled not being representative of all areas of similar material.
9. Full assessments often requires multiple rounds of sampling over a period of time for air, bulk material, surface dust and water. Such comprehensive testing was beyond the scope of RPF services. In addition clearance testing for abatement, as applicable, was based on the visual observations and limited ambient area air testing as indicated in the report and in accordance with applicable state and federal regulations. The potential exists that microscopic surface dust remains with contaminant present even in the event that the clearance testing meets the state and federal requirements. Likewise for building surveys, visual observations are not sufficient alone to detect possible contaminant in settled dust. Unless otherwise specifically indicated in the report, surface dust testing was not included in the scope of the RPF services.
10. For abatement or remediation monitoring services: RPF is not responsible for observations and test for specific periods of work that RPF did not perform full shift monitoring of construction, abatement or remediation activity. In the event that problems occurred or concerns arouse regarding contamination, safety or health hazards during periods RPF was not onsite, RPF is not responsible to provide documentation or assurances regarding conditions, safety, air testing results and other compliance issues. RPF may have provided recommendations to the Client, as needed, pertaining to the Client’s Contractor compliance with the technical specifications, schedules, and other project related issues as agreed and based on results of RPF monitoring work. However, actual enforcement, or waiving of, contract provisions and requirements as well as regulatory liabilities shall be the responsibility of Client and Client’s Contractor(s). Off-site abatement activities, such as waste transportation and disposal, were not monitored or inspected by RPF.
11. For services limited to clearance testing following abatement or remediation work by other parties: The testing was limited to clearance testing only and as indicated in the report and a site assessment for possible environmental health and safety hazards was not performed as part of the scope of this testing. Client, or Client’s abatement contractor as applicable, was responsible for performing visual inspections

of the work area to determine completeness of work prior to air clearance testing by RPF.

12. For site work, including but not limited to air clearance testing services, in which RPF did not provide full site safety and health oversight, abatement design, full shift monitoring of all site activity, RPF expresses no warranties, guarantees or certifications of the abatement work conducted by the Client or other employers at the job site(s), conditions during the work, or regulatory compliance, with the exception of the specific airborne concentrations as indicated by the air clearance test performed by RPF during the conditions present for the clearance testing. Unless otherwise specifically noted in the RPF Report, visual inspections and air clearance testing results apply only to the specific work area and conditions present during the testing. RPF did not perform visual inspections of surfaces not accessible in the work area due to the presence of containment barriers or other obstructions. In these instances, some contamination may be present following RPF clearance testing and such contamination may be exposed during and after removal of the containment barriers or other obstructions following RPF testing services. Client or Client's Contractor is responsible for using appropriate care and inspection to identify potential hazards and to remediate such hazards as necessary to ensure compliance and a safe environment.
13. The survey was limited to the material and/or areas as specifically designated in the report and a site assessment for other possible environmental health and safety hazards or subsurface pollution was not performed as part of the scope of this site inspection. Typically, hazardous building materials such as asbestos, lead paint, PCBs, mercury, refrigerants, hydraulic fluids and other hazardous product and materials may be present in buildings. The survey performed by RPF only addresses the specific items as indicated in the Report.
14. For mold and moisture survey services, RPF services did not include design or remediation of moisture intrusion. Some level of mold will remain at the site regardless of RPF testing and Contractor or Client cleaning efforts. RPF testing associated with mold remediation and assessments is limited and may or may not be representative of other surfaces and locations at the site. Mold growth will occur if moisture intrusion deficiencies have not been fully remedied and if the site or work areas are not maintained in a sufficiently dry state. Porous surfaces in mold contaminated areas which are not removed and disposed of will likely result in future spore release, allergen sources, or mold contamination.
15. Existing reports, drawings, and analytical results provided by the Client to RPF, as applicable, were not verified and, as such, RPF has relied upon the data provided as indicated, and has not conducted an independent evaluation of the reliability of these data.
16. Where sample analyses were conducted by an outside laboratory, RPF has relied upon the data provided, and has not conducted an independent evaluation of the reliability of this data.
17. All hazard communication and notification requirements, as required by U.S. OSHA regulation 29 CFR Part 1926, 29 CFR Part 1910, and other applicable rules and regulations, by and between the Client, general contractors, subcontractors, building occupants, employees and other affected persons were the responsibility of the Client and are not part of the RPF SOW.
18. The applicability of the observations and recommendations presented in this report to other portions of the site was not determined. Many accidents, injuries and exposures and environmental conditions are a result of individual employee/employer actions and behaviors, which will vary from day to day, and with operations being conducted. Changes to the site and work conditions that occur subsequent to the RPF inspection may result in conditions which differ from those present during the survey and presented in the findings of the report.

METHODOLOGY

The results of the air quality testing are representative of the conditions present on the day of the testing and should be considered a snap shot of conditions within the facility. Additional rounds of testing may be required to obtain a statistically valid set of data representative of a variety of conditions which may be present within the facility.

Each of the methods used is discussed separately below.

Carbon Dioxide, Carbon Monoxide, Relative Humidity, Temperature, Dew Point, and Volatile Organic Compounds

Direct reading determinations for carbon dioxide (CO₂), carbon monoxide (CO), relative humidity (RH), temperature (T), dew point, and total volatile organic compounds (VOCs) were completed using a Greywolf Indoor Air Quality Monitor. The Greywolf was calibrated for CO₂ and CO with a span gas of known concentration prior to the start of the testing program.

Airborne Particulates

Direct reading determinations for airborne particulates at the size range of 10 microns and lower were measured using a Greywolf Handheld 3016-IAQ Airborne Particulate Meter. Thirty second samples were collected at each sampling location.