

March 16, 2015



Report of Findings For Hazardous Materials Assessment

Mohonk Testimonial Gateway
1 Gatehouse Road
New Paltz, New York 12561

Prepared for:

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1.0 PROJECT PERSONNEL

<u>NAME</u>	<u>TITLE</u>	<u>AFFILIATION</u>
Peter Karis, RLA	Director of Land Protection and Stewardship	Mohonk Preserve
Kevin R. Rowe	Asbestos Inspector	HSE Consulting Services, LLC
Douglass B. Selover	Asbestos Inspector	HSE Consulting Services, LLC
Douglas L. Gee	Asbestos Analyst	HSE Consulting Services, LLC
Daniel R. Hoosock	Vice President	HSE Consulting Services, LLC
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2.0 INTRODUCTION

In accordance with a request made by Peter A. Karis, RLA, Director of Land Protection and Stewardship for the Mohonk Preserve, HSE Consulting Services, LLC (HSE) has completed a pre-renovation hazardous materials assessment for the Mohonk Testimonial Gateway located at 1 Gatehouse Road in the City of New Paltz, Ulster County, New York 12561. The assessment was conducted for the purpose of identifying asbestos containing materials (ACM), lead paint (Pb) and polychlorinated biphenyls (PCB) that may be disturbed during planned renovation activities. HSE personnel also documented the presence of any additional items of potential environmental concern noted during the performance of the hazardous materials assessment.

The Mohonk Testimonial Gateway was reportedly constructed circa 1908. The following description of the Testimonial Gateway, in italicized text, is from a Condition Survey report prepared for the Mohonk Preserve by Crawford & Stearns Architects and Preservation Planners and dated September 2013.

With its massive stone facades and drive-through arch in the Romanesque Revival style, the building is profoundly distinct. Its asymmetric massing and its orange barrel tile hipped roofs contribute to its romantic character. Several of the original, wooden casement window sash and transom frames survive, although only two examples of the original, leaded glazing is extant. The casement windows that have survived have been rather crudely subdivided with square muntin bars, notched and nailed into the original sashes with their OG profile.

The interior is a different situation. Despite the presence of several original doors and door frames, and a precision set of smooth concrete stairs from basement to the fourth-story observation deck, the finishes at exterior walls and the interior partitions have been essentially demolished and replaced. Some original thin concrete on metal lath partitions survive, with the vertical flanges of the lath occurring at 12 inches on center.

The upper tower room's ceiling is at half its original height and the stairs between the first, second and third floors have been enclosed, some in the 1930s with wooden bead board and some more recently with plaster board. The first-floor bathroom has been removed (see smallest window in East façade) with the kitchen expanded into its original floor space. A new bathroom has been constructed in the southeast corner of the room located over the massive stone archway. Only two window stools (interior sills) and aprons (horizontal trim beneath stool, lying flat against the wall) are extant, both in the West wall in the stairwell. One is just above the second floor and is missing its cove bed molding directly beneath the stool. The other is a story above, and is complete.

One of the more interesting aspects of the Gatehouse's layout is that the kitchen wing was designed to be up a half story above grade, over a partial basement which runs south from the tower portion. This gives the South wing enough mass to complement the shorter but higher north wing. It also gives that wing connections to underground site utilities and storage for heating fuel.

Mr. Kevin R. Rowe and Mr. Douglass B. Selover of HSE, New York State Department of Labor (NYSDOL) certified Asbestos Building Inspectors, performed the hazardous materials assessment on February 25, 2015. The property is reportedly currently owned by the Mohonk Preserve, P. O. Box 715, New Paltz, New York 1251.

3.0 BACKGROUND INFORMATION

3.1 Asbestos

Health Effects

Asbestos, a naturally occurring fibrous mineral silicate, was used extensively in building products from the early 1900's to the late 1970's. Asbestos was primarily used for thermal and acoustical insulation, fireproofing and decorative purposes. When these materials deteriorate or are disturbed they may release microscopic fibers into the air where humans may readily inhale them. Once airborne, the fibers may remain suspended for extended periods due to their small size and aerodynamic shape.

Extensive medical evidence has shown that the inhalation of asbestos can cause asbestosis, lung cancer, pleural and peritoneal mesothelioma (cancer of the lining of the lungs and stomach, respectively) and gastrointestinal cancer. These diseases have a latency period of between ten (10) and forty (40) years and are usually fatal. The risk of disease is directly related to the amount of exposure (each exposure accumulates in the body). This is referred to as a dose-response relationship. Presently, medical models rely on the data gained from patients exposed to high occupational levels of asbestos fiber. Extrapolations are made to estimate the risk of disease at lower levels. However, there is no evidence of a threshold exposure level below which the risk of cancer is not increased. The gravity of this situation has prompted many government agencies to promulgate regulations designed to reduce occupational and environmental exposures to asbestos.

Federal and State Asbestos Regulation Summary

Governmental authorities on both the state and federal level have promulgated asbestos regulations. The US Occupational Safety and Health Administration and the US Environmental Protection Agency are the major regulators on the federal level.

US Occupational Safety and Health Administration (OSHA)

OSHA has established regulations for general industry (see title 29 of the Code of Federal Regulations (CFR) Part 1910, section 1001 (cited as 29 CFR 1910.1001)) and the construction industry (29 CFR 1926.1101). Separate standards for general industry and the construction industry, including demolition and renovation projects, were developed in recognition of the inherent differences between the industries. Both of these standards, which became effective in October of 1994 and required full compliance by February of 1995, may be applicable at a given time depending on the activities being conducted. These standards, which are primarily

concerned with occupational exposures to asbestos, have established a permissible exposure limit (PEL) of 0.1 fibers per cubic centimeter of air (f/cc) based on an eight hour time weighted average (TWA). An excursion limit of 1 f/cc for a thirty (30) minute TWA was also established. The general industry standard also mandates exposure monitoring and employee observation, the establishment of regulated areas, methods of compliance, respiratory protection, protective work clothing and equipment, hygiene facilities and practices, hazard communication, housekeeping practices, medical surveillance and recordkeeping.

The construction industry standard applies to all employees performing work for construction, alteration, and/or repair including painting and decorating regardless of place of employment. More specifically, the standard regulates asbestos exposure including but not limited to the following work:

- Demolition or salvage of structures where asbestos is present.
- Removal or encapsulation of materials containing asbestos.
- Construction, alteration, repair, maintenance, or renovation of structures, substrates, or portions thereof, which contain asbestos.
- Installation of products containing asbestos.
- Asbestos spill/emergency cleanup.
- Transportation, disposal, storage, containment and housekeeping activities involving asbestos or products containing asbestos, on the site or location at which construction activities are performed.

The construction standard also specifies requirements for multi-employer work sites, regulated areas, exposure assessments and monitoring, methods of compliance, respiratory protection, protective clothing, hygiene facilities and employee practices, communication of hazards, housekeeping, medical surveillance, recordkeeping and competent persons. This standard also establishes a classification system for different types of operations that disturb or are likely to disturb ACM.

US Environmental Protection Agency (EPA)

The EPA primarily regulates atmospheric asbestos emissions and asbestos in schools (see 40 CFR Part 61 - Subpart M and 40 CFR Part 763 – Subpart E, respectively). The EPA's National Emission Standards for Hazardous Air Pollutants (NESHAPS) Asbestos Regulations (40 CFR Part 61, Subpart M) must also be considered. These regulations:

- Require facility inspections.
- Define regulated asbestos-containing material as follows: Regulated asbestos-containing material (RACM) means (a) Friable asbestos material, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

Note: Friable asbestos material means any material containing more than 1 percent asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Category I non-friable ACM means asbestos-containing packing, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 percent asbestos. Category II non-friable ACM means any material, excluding Category I non-friable ACM, containing more than 1 percent asbestos that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

- Specify methods for controlling fiber release during renovation and demolition projects.
- Require personnel training.
- Delineate methods of transportation and disposal for ACM/PACM including “cradle to grave” manifesting.
- Include notification requirements. (i.e. The EPA’s regional office must be notified in writing if the combined amount of RACM to be stripped, removed, dislodged, cut, drilled, or similarly disturbed is at least 80 linear meters (260 linear feet) on pipes or at least 15 square meters (160 square feet) on other facility components, or at least 1 cubic meter (35 cubic feet) off facility components where the length or area could not be measured previously.
- To determine whether this section applies to planned renovation operations involving individual nonscheduled operations, predict the combined additive amount of RACM to be removed or stripped during a calendar year of January 1 through December 31.

40 CFR Part 763 – Subpart E (the Asbestos-Containing Materials In Schools Rule), which was promulgated under the Asbestos Hazard Emergency Response Act (AHERA), is important in that the OSHA regulations incorporate requirements for training of employee’s, air monitoring protocols for certain activities, conducting building surveys, and bulk sampling of ACM. Also, the EPA NESHAPS for asbestos incorporates analytical techniques described in these regulations. Additionally, the New York State Department of Labor’s (NYSDOL) asbestos regulations incorporate the training requirements contained in these regulations.

It should also be noted that the US Department of Transportation (DOT – see 49 CFR parts 171 and 172) regulates the transportation of asbestos- containing waste material and requires waste containment and shipping papers.

New York State Department of Labor (DOL)

The New York State Department of Labor’s (NYSDOL) asbestos regulations (see Part 56 of Title 12 NYCRR – commonly referred to as Code Rule 56) are designed to protect the public from asbestos exposures. They require training of persons employed to design, implement or inspect asbestos projects and those who supervise or employ them, certification of individuals involved in asbestos projects and licensing of asbestos abatement contractors. Standard work practices, materials and equipment, air monitoring, engineering controls, building surveys, record keeping and compliance/enforcement criteria have also been established. NYSDOL notification is required before the initiation of large asbestos projects. The regulations designate projects that disturb amounts of ACM equal to or exceeding 160 square feet or 260 linear feet as large asbestos abatement projects. Projects involving the disturbance of between 10 square feet and 160 square feet or between 25 linear feet and 260 linear feet of ACM are

designated as small asbestos abatement projects. Projects involving 10 square feet or less or 25 linear feet or less of ACM are designated as minor asbestos abatement projects. The level of regulation is adjusted progressively with each project designation.

It should be noted that the NYS Department of Health (DOH) has also promulgated regulations with respect to asbestos-containing material. The DOH accredits asbestos safety training programs, licenses analytical laboratories and monitors the quality of these endeavors.

3.2 Lead Paint

Lead (Pb) was commonly used in paints to prevent corrosion, as a pigment, as a drying agent, for durability and for its ability to kill mold and mildew. The disturbance of paint and coatings containing lead during demolition, renovation and repair activities can potentially result in exposures to those individuals performing the work. The United States Department of Labor (USDOL) Occupational Safety and Health Administration (OSHA) has promulgated regulations applicable to Lead in Construction (29 CFR 1926.62). The Lead in Construction Standard establishes various requirements related to worker protection such as work practices, engineering controls, personal protective equipment, respiratory protection, personal air monitoring, medical evaluations, record keeping, etc.

3.3 Polychlorinated Biphenyls

PCBs are part of a broad family of man-made organic chemicals known as chlorinated hydrocarbons. PCBs were manufactured in the United States from approximately 1929 until their manufacture was banned in 1979. PCBs were a common additive to caulk because of their water and chemical resistance, durability, and elasticity. PCBs were added as a plasticizer in caulking used to seal joints between masonry units and around windows and doors. PCBs were also used in other building materials such as paints, mastics, sealants, adhesives, and specialty coatings. PCB containing caulking, mastics, sealants and adhesives may have been used during original construction or subsequent renovation or repair activities.

Exposure to PCBs can cause a variety of adverse health effects in animals and humans. In animal studies, PCBs have been shown to cause cancer as well as serious non-cancer health effects. In humans, PCBs are potentially cancer-causing and can cause other non-cancer effects including immune system suppression, liver damage, endocrine disruption, and damage to the reproductive and nervous systems.

PCBs are regulated under the Toxic Substances Control Act (TSCA), which became law in 1976. TSCA bans the manufacture, processing, use and distribution in commerce of PCBs, and gives EPA the authority to regulate the use, manufacture, cleanup, storage, and disposal of PCBs. Current PCB regulations were published pursuant to this Act, and can be found in Title 40 of the Code of Federal Regulations (40 CFR Part 761). The use of PCBs in caulk is not authorized under TSCA's PCB regulations. Caulk and surrounding contaminated building materials that are removed are considered waste under the PCB regulations and must be cleaned up and disposed of in accordance with Subpart D of 40 CFR § 761.

Caulk: Caulk containing PCBs at concentrations greater than fifty parts per million (> 50 ppm) is not authorized for use and must be removed and properly disposed. When disposed, the caulk must be managed as PCB bulk product waste, defined at 40 CFR § 761.3. Regulations governing the cleanup and disposal of PCB bulk product waste are provided at 40 CFR § 761.62. All PCB containing caulk or caulk coated building material containing PCBs at concentrations > 50 ppm must be removed unless otherwise approved by EPA under a risk-based disposal approval issued under 40 CFR § 761.62(c).

Building Materials: Materials (e.g., concrete, brick) that are coated with PCB-containing caulk at concentrations > 50 ppm must be managed as PCB bulk product waste, with the same requirements as the > 50 ppm PCB-containing caulk. Additionally, building materials that have been contaminated by > 50 ppm PCB-containing caulk, such as through leaching of PCBs, as well as any soils contaminated with PCBs from the caulk, also must be cleaned up. These materials must be treated as PCB remediation waste, defined at 40 CFR § 761.3. Regulations governing the cleanup and disposal of PCB remediation waste are provided at 40 CFR 761.61. The requirements in this section vary depending on, among other things, the type of building material that contains the PCBs (i.e., porous or non-porous) and the potential exposure levels remaining after cleanup is completed.

4.0 METHODOLOGIES

4.1 Asbestos

A thorough visual inspection was conducted to identify materials with the potential to contain asbestos. Bulk samples of these suspect materials were then collected from representative locations throughout the structure (see attached diagrams in Appendix 2 for general sample locations). Samples were collected in general conformance with the requirements of Part 56 of Title 12 of the Official Compilation of Codes, Rules and Regulations of the State of New York (Cited as 12 NYCRR Part 56), commonly referred to as Code Rule 56.

The samples were transported with chain-of-custody documentation to HSE's laboratory in Cicero, New York for analysis. Samples with multiple layers were separated in either the field or the laboratory, if possible, and the layers were analyzed individually. HSE's laboratory is accredited by the New York State Department of Health's (NYSDOH) Environmental Laboratory Approval Program (ELAP).

Friable and Non-Friable Sample Analysis

Friable bulk samples collected during the survey were analyzed for asbestos content using Polarized Light Microscopy with Dispersion Staining techniques (PLM/DS) in accordance with NYSDOH ELAP Item 198.1. Analytical results were reported as percent asbestos and included an estimate of the amount of each type of asbestos present (i.e. chrysotile, Amosite, crocidolite, etc.). The percentage of other types of materials present in the samples (i.e. fiberglass, cellulose, mineral wool, etc.) was also reported when feasible.

Non-friable Organically Bound (NOB) Sample Analysis

Non-Friable Organically Bound (NOB) materials (e.g. roofing, floor coverings, mastic, acoustical ceiling tile, etc.) were analyzed in accordance with NYSDOH ELAP Items 198.6 and 198.4. NOB analyses were completed as follows:

All extraneous materials (e.g. wax and polish) were removed prior to the sample preparation. Approximately 100-500 milligrams of the NOB was shaved into a tared crucible and weighed. The sample was placed in a muffle furnace at 480°C until the mass stabilized (1-12 hours). The sample was then cooled in a desiccator and re-weighed to calculate the percentage of organic loss. The residue was placed in a crucible with 0.5 milliliters of 0.1 micron filtered water and 2 to 5 ml of concentrated hydrochloric acid (HCl). After 15 minutes the residue was diluted with 0.1 micron filtered distilled water and poured into a filtration apparatus loaded with a 0.4 micron polycarbonate filter. A vacuum was then applied. The crucible was rinsed a second time. When filtration was complete, the filter and residue were carefully transferred to a clean, tared plastic Petri dish and allowed to dry to a stable mass under a heat lamp. The filter and Petri dish was weighed to calculate the percent of mineral carbonate loss. If the residual mass was less than or equal to one percent (1%) of the sub-sample's original mass, analysis was terminated and the sample was reported as non-ACM. If the mass was greater than 1% of the sub-sample's original mass, a PLM analysis of the residue was initiated. If asbestos was detected as a result of the PLM analysis, and the overall percentage of asbestos in the sample was calculated to be greater than 1%, the material was considered to be ACM. If the mass of the residue discussed above was greater than 1% and asbestos was not detected as a result of completed gravimetrically reduced PLM analysis, the residue was submitted for analysis by Transmission Electron Microscopy (TEM). If TEM analysis indicated that the quantity of asbestos in the sample was less than or equal to 1 % the material was determined to be non-ACM. If TEM analysis indicated that quantity of asbestos in the sample was greater than 1% the material was identified as ACM.

4.2 Lead Paint

HSE personnel collected representative paint chip samples of various paints associated with the interior and exterior of the Testimonial Gateway. Personnel collecting paint chip samples were United States Environmental Protection Agency (USEPA) Renovation, Repair and Painting (RRP) Rule certified Renovators.

Samples were collected from wall, windowsill, door and stair components. It was understood that the primary purpose of the paint chip sampling and analysis was to provide general information relevant to the Occupational Safety and Health Administration's (OSHA) construction standard for lead (29 CFR 1926.62). It was not intended, nor is it implied, that the completed paint chip sampling and analysis constitutes a comprehensive lead paint survey.

Paint chip samples collected as part of the completed assessment were analyzed in accordance with EPA Method 7000B.

4.3 Polychlorinated Biphenyls

HSE personnel also performed a visual inspection of exterior areas of the Testimonial Gateway to identify the presence and location of various caulking materials (e.g. window caulking, door caulking, control joint caulking, etc.). Representative samples of identified caulking were collected and submitted for laboratory analysis to determine whether or not the caulking contained polychlorinated biphenyls (PCBs). Personnel collecting caulking samples for PCB analysis were trained for Hazardous Waste Operations and Emergency Response (HAZWOPER) activities as required by Occupational Safety and Health Administration (OSHA) standards (29 CFR 1926.65).

Caulking samples were analyzed for PCB content in accordance with USEPA Method 8082.

5.0 DISCUSSION

5.1 Asbestos

A total of fifty-five (55) bulk samples of suspect ACM were collected (HSE Sample ID's KR22515-1 to KR22515-55). A total of seventeen (17) PLM analyses, forty-four (44) NOB analyses and thirty-eight (38) TEM analyses were performed. Copies of the laboratory analysis reports and chain-of-custody records for samples collected as part of the assessment are included in Appendix 7 of this report.

Current New York State Department of Labor (NYSDOL) and United States Environmental Protection Agency (USEPA) regulations define materials which contain greater than one-percent (> 1 %) asbestos to be regulated ACM. Materials identified to be ACM as a result of the pre-renovation survey completed for Mohonk Testimonial Gateway in New Paltz, New York are summarized below in Table 1.

TABLE 1
Summary of Identified Asbestos-Containing Materials

MATERIAL	LOCATION(S)	QTY ⁽²⁾ (ft ² or lf) ⁽¹⁾	FRIABILITY ⁽³⁾ (F, NF, NOB)	CONDITION
BASEMENT				
Gold Pebble Pattern Linoleum with Mastic	Area B-3B on the project diagrams	20 ft ²	NOB	Fair
Tan 12" x 12" Floor Tile (mastic is non-asbestos)	Area B-3A on the project diagrams	14 ft ²	NOB	Fair
FIRST FLOOR				
Gold Pebble Pattern Linoleum with Mastic	Area 102 on the project diagrams	140 ft ²	NOB	Poor
Yellow Fireplace Caulk	Area 101 on the project diagrams	14 lf	NOB	Fair

MATERIAL	LOCATION(S)	QTY ⁽²⁾ (ft ² or lf) ⁽¹⁾	FRIABILITY ⁽³⁾ (F, NF, NOB)	CONDITION
SECOND FLOOR				
No Asbestos Containing Materials were Identified	N/A	N/A	N/A	N/A
THIRD FLOOR				
No Asbestos Containing Materials were Identified	N/A	N/A	N/A	N/A
EXTERIOR				
Black Tar Patch on Ceramic Roofing Tiles	Sampled at SE Area, Roofing 80% Snow Covered	? ⁽⁴⁾	NOB	Fair

- 1) ft² = square feet, lf = linear feet, ft³ = cubic feet
- 2) Dimensions and quantities are estimates. Contractors shall verify actual material quantities.
- 3) F = Friable, NF = Non-friable, NOB = Non-friable organically bound
- 4) The specific locations and quantities of the black tar patch material could not be accurately determined due to the fact that approximately 80% of the roofing associated with the Testimonial Gateway was snow covered.

5.2 Lead Paint

A total of six (6) paint chip were collected (HSE Sample ID's KR22515-1LB to KR22515-6LB) and analyzed as part of the completed assessment. Copies of the laboratory analysis reports and chain-of-custody records for samples collected as part of the assessment are included in Appendix 7 of this report.

A summary of the lead (Pb) analytical results obtained for paint chip sample collected from Mohonk Testimonial Gateway is provided in Table 1 below.

Table 2 Lead in Paint Analytical Results			Lead Concentration
SAMPLE ID	LOCATION	SAMPLE DESCRIPTION	% by weight
KR22515-1LB	Area-101; First Floor Stairs	White Paint	0.0494
KR22515-2LB	Area-101; First Floor Stairs Side Run	Gray Paint	0.1512
KR22515-3LB	Area-201; Second Floor Door Frame	White Paint	0.0602
KR22515-4LB	Area-201; Second Floor Door Trim	Gray Paint	0.0299
KR22515-5LB	Area-201; Second Floor Window Sill	White Paint	0.0104
KR22515-6LB	Area-202; Second Floor Walls	Blue Paint	1.2325

As indicated in Table 2, lead concentrations in the paint chip samples collected from 1 Gatehouse Road are generally considered to be low, with the exception of Sample KR225215-6LB (blue wall paint) which is considered to be moderate. However, it is important to note that OSHA does not have a threshold limit (e.g. concentration of lead) at which the Lead in Construction Standard is applicable. The standard is based on employee exposure to airborne lead. OSHA has established a Permissible Exposure Limit (PEL) of fifty micrograms per cubic meter (50 µg/m³), and an Action Level of thirty micrograms per cubic meter (30 µg/m³), for lead calculated as an 8-hour time-weighted average (TWA). OSHA has taken the conservative position that if any lead is present, there is an inherent potential for employee exposure to airborne lead during certain work activities. Prospective bidders/contractors should be made aware of the potential presence of lead in the various paints associated with the Testimonial Gateway as well as their responsibility to perform all work in accordance with the OSHA Lead in Construction Standard.

5.3 Polychlorinated Biphenyls

A total of three (3) exterior caulking samples were collected (HSE Sample ID's KR22515-1PB to KR22515-3PB) and analyzed as part of the completed assessment. Copies of the laboratory analysis reports and chain-of-custody records for samples collected as part of the assessment are included in Appendix 7 of this report.

A summary of the PCB analytical results obtained for caulk samples collected from Mohonk Testimonial Gateway, 1 Gatehouse Road is provided in Table 3 below.

TABLE 3 PCB in Paint Analytical Results		PCB Concentrations (ug/g)						
		Aroclors 1016/1242	Aroclor 1221	Aroclor 1232	Aroclor 1248	Aroclor 1254	Aroclor 1260/1262	TOTAL PCB
KR22515-1PCB	North Side; Exterior Door Caulk (inner)	ND	ND	ND	ND	ND	ND	ND
KR22515-2PCB	North Side; Exterior Door Caulk (outer)	ND	ND	ND	ND	1.45	ND	1.45
KR22515-3PCB	Southeast Exterior; Vent Pipe Caulk	ND	ND	ND	ND	ND	ND	ND

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL:(Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

As summarized in Table 3, each of the caulk samples collected and analyzed as part of the completed hazardous materials assessment indicated total PCB concentrations of less than fifty parts per million (< 50 ppm).

5.4 Supplemental Environmental Issues

HSE personnel also endeavored to document the presence of any additional items of potential environmental concern noted during the performance of the hazardous materials assessment. The following items, which should be considered when performing future renovation or repair activities, were identified:

Fuel Oil Tanks

HSE personnel identified two (2) empty fuel oil tanks in the basement of the structure. These tanks were estimated to have capacities of 275 gallons each.

Mercury Thermostats

A total of three (3) thermostats with mercury containing tubes were identified in the structure. Two (2) thermostats were identified in the first floor level, in areas identified as Rooms 101 and 102 on the project diagrams included in Appendix 2. One (1) additional thermostat was identified on the second floor level in the area identified as Room 202 on the project diagrams included in Appendix 2.

6.0 CONCLUSIONS / RECOMMENDATIONS

Based on the results of the completed hazardous materials assessment, several materials were identified to be asbestos containing. To the best of our knowledge and belief, there are no additional asbestos containing materials associated with the subject structure.

Subpart 56-5.1(j) of the NYSDOL's asbestos regulation states that when any construction activity, such as demolition, remodeling, renovation or repair work, reveals PACM or suspect miscellaneous ACM that has not been identified by the asbestos survey per this Part, or has not been identified by other inspections as per current OSHA or EPA requirements, all activities shall cease in the area where the PACM or suspect miscellaneous ACM is found and the Asbestos Control Bureau shall be notified by telephone by the building/structure owner or their representative, followed with a written notice in accordance with the notification requirements of this Part. Unassessed PACM or suspect miscellaneous ACM shall be treated and handled as ACM and assumed to be ACM, unless proven otherwise by standard EPA and OSHA accepted methods, including multi-layered systems sampling protocols; subsequent analyses performed by a laboratory that meets the requirements of Section 56-4.2 of this Part; and the analyses satisfies both NYS ELAP and federal requirements, including multi-layered sample analyses, to document non-asbestos containing material.

Lead was also determined to be present in various paints associated with the structure. Although lead concentrations were generally considered to be low, compliance with OSHA's Lead in Construction Standard will still be required. None of the exterior caulking samples collected and analyzed as part of the completed assessment were determined to have regulated concentrations of polychlorinated biphenyls present.



Subpart 56-5.1(g) of the NYSDOL's asbestos regulation requires that one (1) copy of the results of the building/structure asbestos survey shall be immediately transmitted by the building/structure owner as follows:

- 1) One copy of the completed asbestos survey shall be sent by the owner or their agent to the local government entity charged with issuing a permit for such demolition, renovation, remodeling or repair work under applicable State or local laws.
- 2) The completed asbestos survey for controlled demolition (as per Subpart 56-11.5) or pre-demolition asbestos projects shall also be submitted to the appropriate Asbestos Control Bureau district office.
- 3) The completed asbestos survey shall be kept on the construction site with the asbestos notification and variance, if required, throughout the duration of the asbestos project and any associated demolition, renovation, remodeling or repair project.

It is recommended that contractors or personnel working on future renovation or repair activities be provided with a copy of the results of this hazardous materials assessment and advised of their responsibility to perform all work in accordance with applicable local, state and federal regulations.

Please do not hesitate to contact HSE if you have any questions or require additional information regarding this report. Thank you.

Respectfully Submitted By:
HSE CONSULTING SERVICES, LLC

A handwritten signature in black ink, appearing to read 'Kevin R. Rowe'.

Kevin R. Rowe
Asbestos Building Inspector

Reviewed and Approved By:

A handwritten signature in black ink, appearing to read 'Daniel R. Hoosock'.

Daniel R. Hoosock
Vice President

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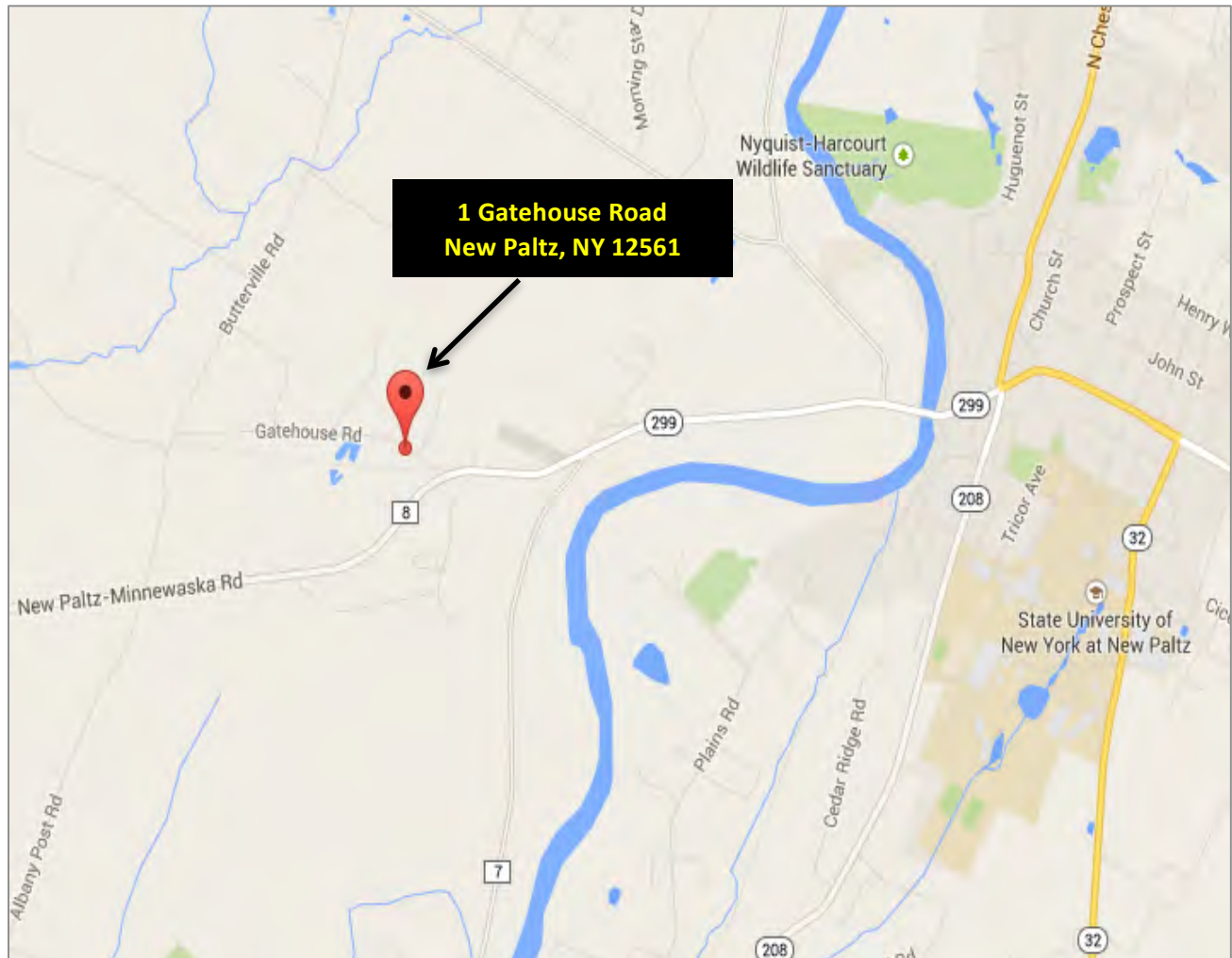
Appendix 1

Site Location Map



Site Location Map

Mohonk Testimonial Gateway
1 Gatehouse Road
New Paltz, New York 12561





Appendix 2

Project Diagrams

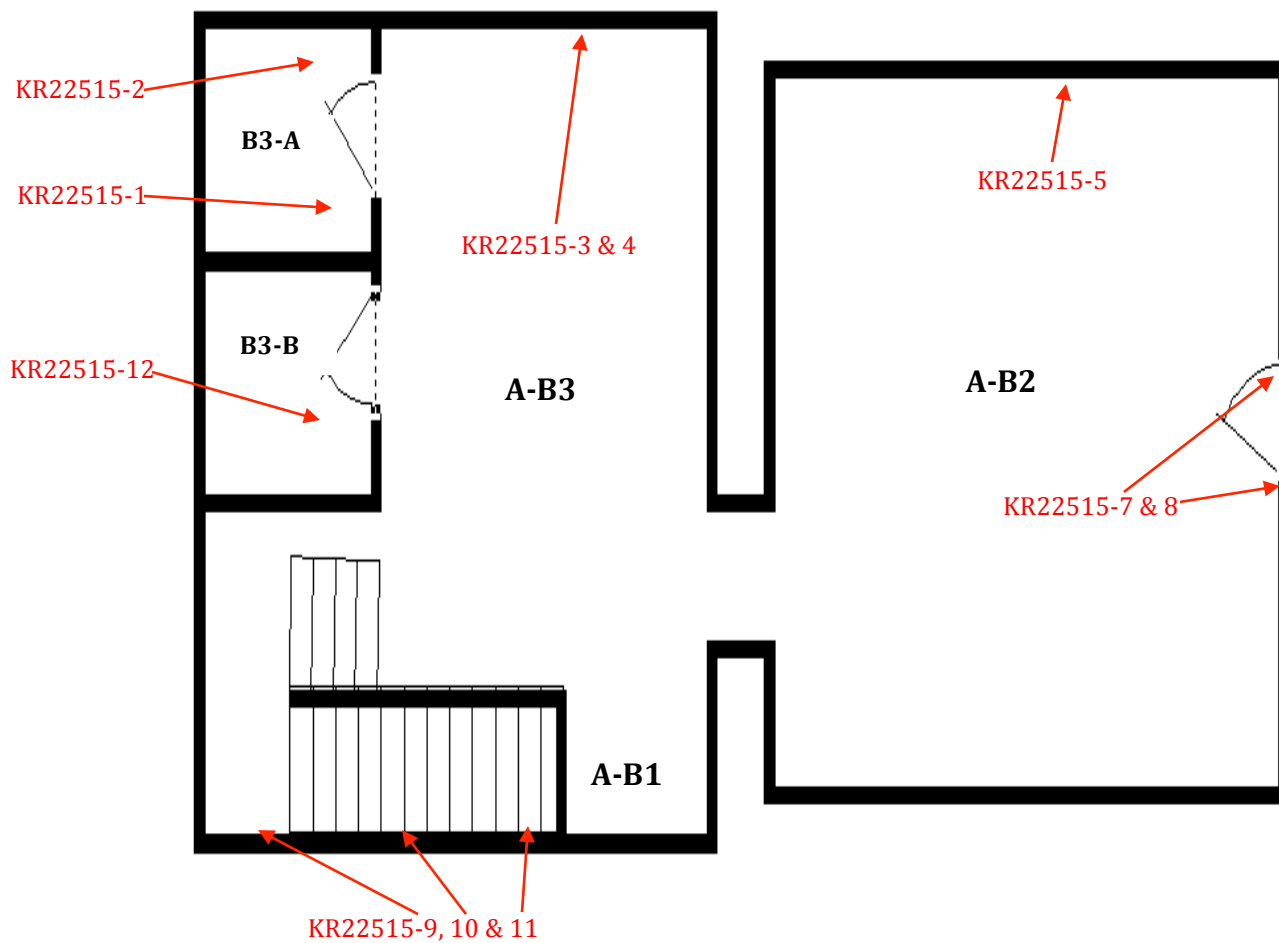


Figure Reference: Mohonk Testimonial Gateway



8636 Brewerton Road, Cicero, NY 13039
 Telephone: 315-698-1438 ♦ Fax: 315-698-1441
 www.hseconsultingservices.com

Drafter: Kevin R. Rowe

Figure 1 – Basement Floor Plan

1 Gatehouse Road
 New Paltz, NY 112561

Ulster County
 City of New Paltz

Date
 03/06/15

Project No.

KEY

→ KR22515-# =
 General
 Sample Location

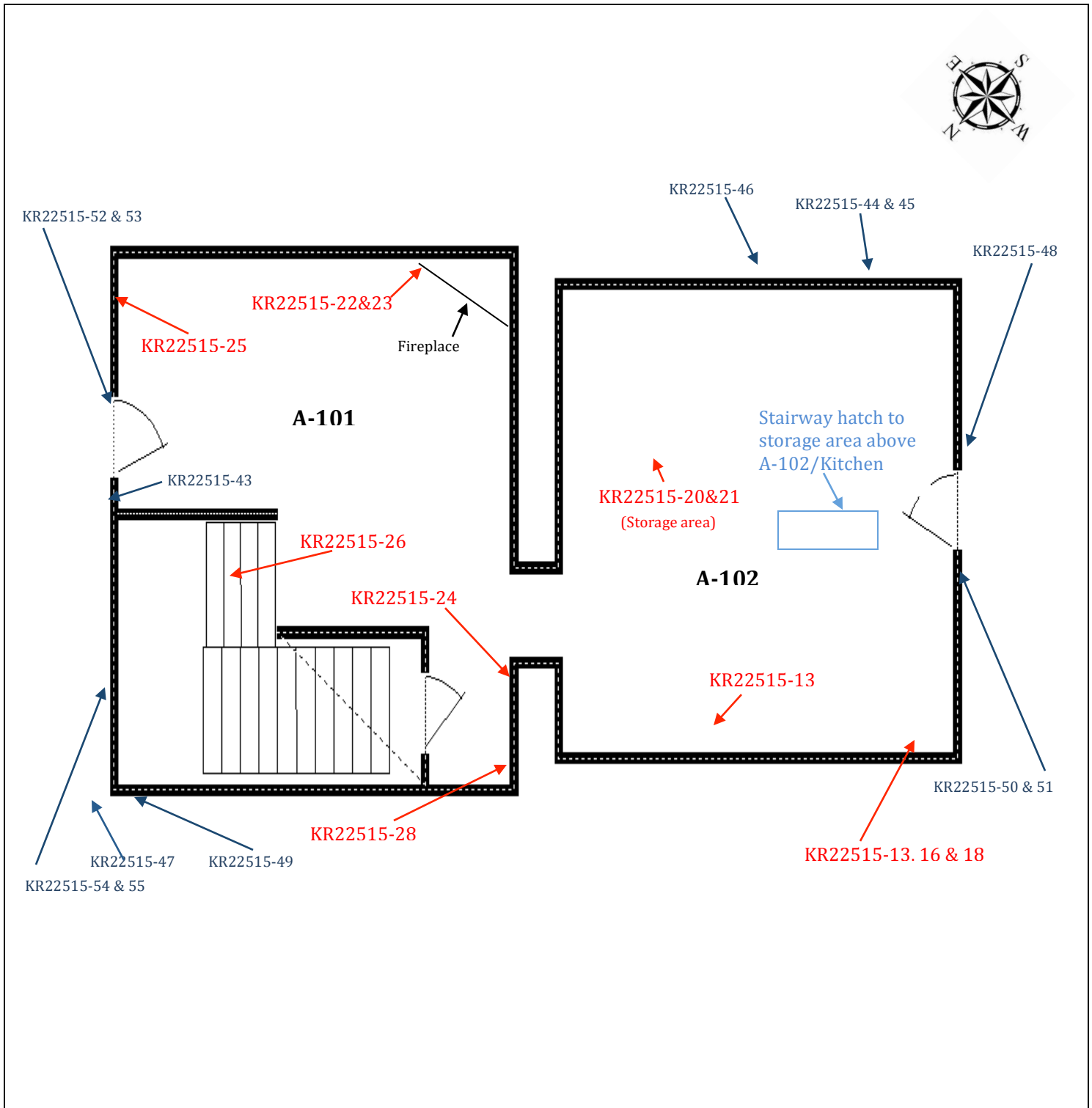


Figure Reference: Mohonk Testimonial Gateway



8636 Brewerton Road, Cicero, NY 13039
 Telephone: 315-698-1438 ♦ Fax: 315-698-1441
 www.hseconsultingservices.com

Drafter: Kevin R. Rowe

Figure 2 –First Floor Sampling Locations

1 Gatehouse Road
 New Paltz, NY 112561

Ulster County
 City of New Paltz

Date
 03/06/15

Project No.

KEY

KR22515-# Interior
 Sample Locations

KR22515 - #
 Exterior Sample
 Locations

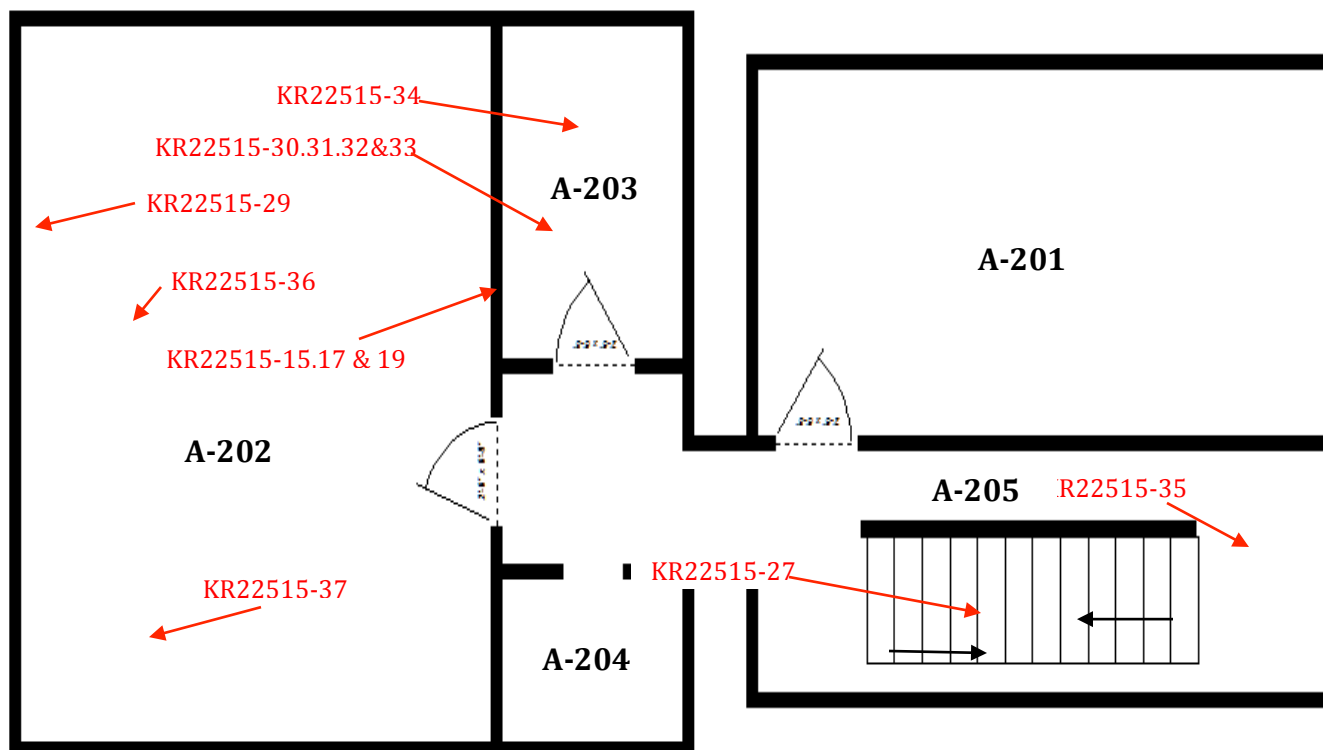


Figure Reference: Mohonk Testimonial Gateway



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 Telephone: 315-698-1438 ♦ Fax: 315-698-1441
 www.hseconsultingservices.com

Drafter: Kevin R. Rowe

Figure 3 – Second Floor Sampling Locations

1 Gatehouse Road
 New Paltz, NY 112561

Ulster County
 City of New Paltz

Date
 03/06/15

Project No.

KEY

KR22515-# =
 General
 Sample Location

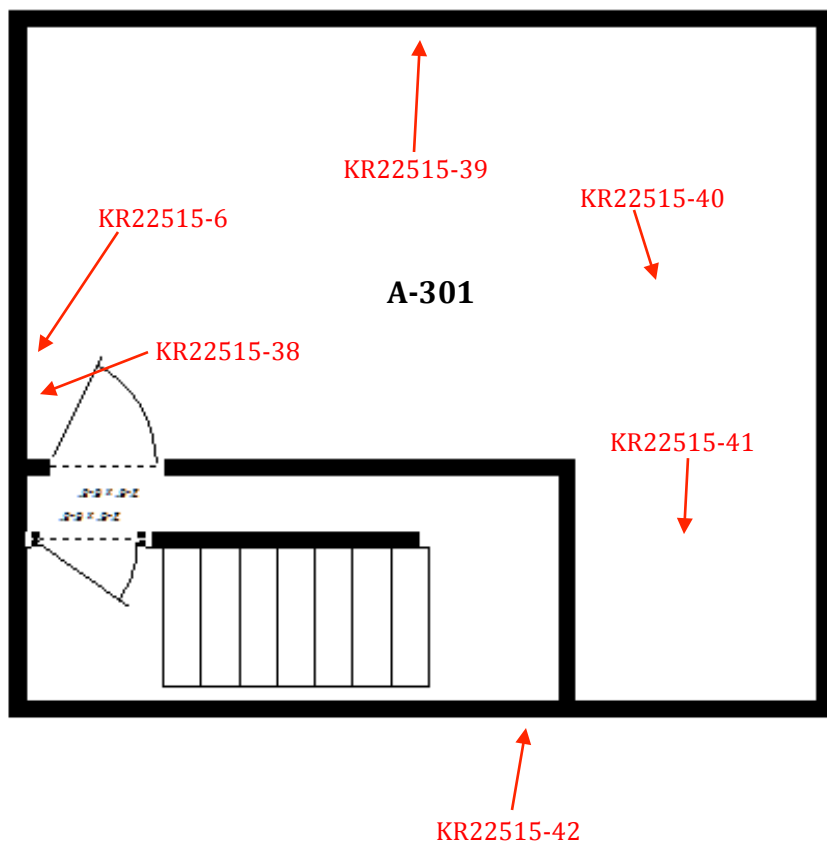


Figure Reference: Mohonk Testimonial Gateway



8636 Brewerton Road, Cicero, NY 13039
 Telephone: 315-698-1438 ♦ Fax: 315-698-1441
 www.hseconsultingservices.com

Drafter: Kevin R. Rowe

Figure 4 – Third Floor Sampling Locations

1 Gatehouse Road
 New Paltz, NY 112561

Ulster County
 City of New Paltz

Date
 03/06/15

Project No.

KEY

↗ KR22515-# =
 General
 Sample Location



Appendix 3

Representative Project Photographs



Tan 12x12 floor tile; Area B-3A



Gold pebble pattern linoleum with mastic; Area B-3B



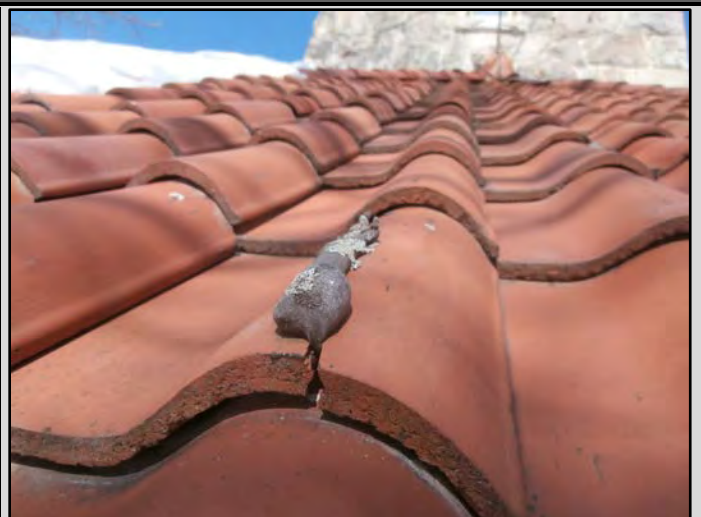
Gold pebble pattern linoleum with mastic; Area 102



Fireplace Caulk; Area 101



Area 101; fireplace in south corner



Black tar patch on ceramic roof tiles



PHOTO 1: View of the fuel oil tanks located in the basement of the structure

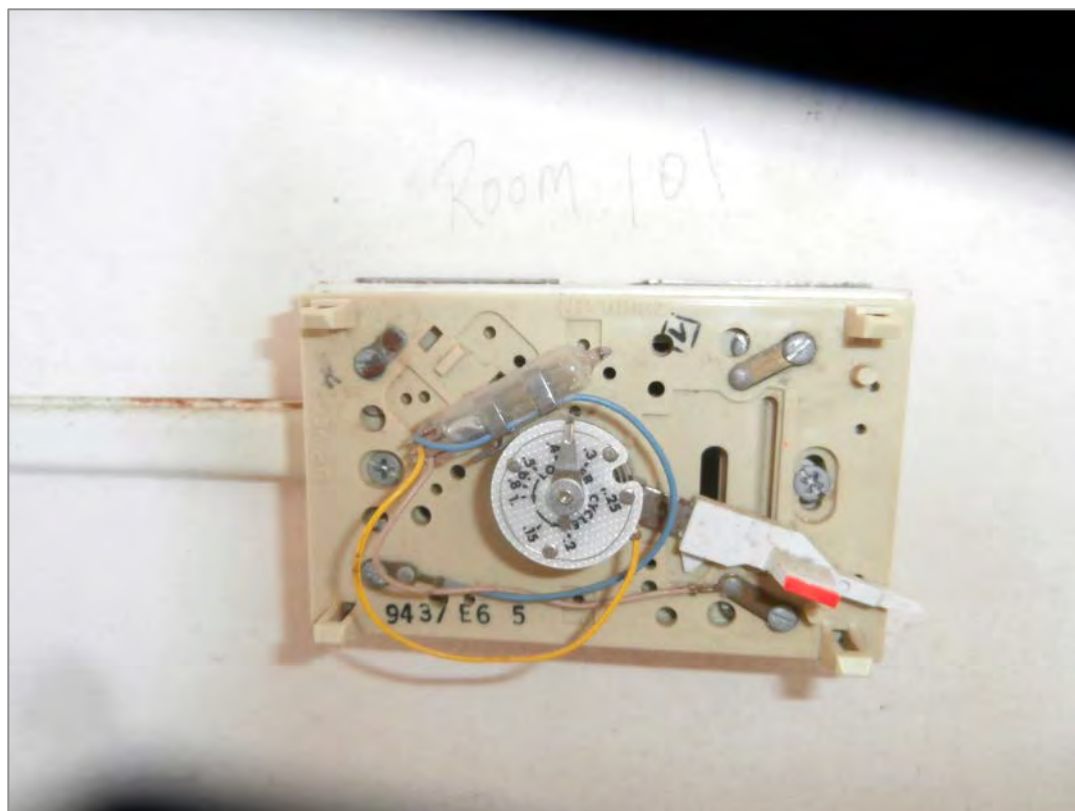


PHOTO 2: View of a typical thermostat (3 units located on first and second floor levels)



Appendix 4

Homogenous Area Listing



**Pre-Renovation Asbestos Survey
Homogenous Area Listing**

**Mohonk Testimonial Gateway
1 Gatehouse Road
New Paltz, New York 12561**

HOMOGENOUS AREA (Material)	ACM Present? (> 1%)
<i>Tan 12 x12 floor tile with mastic</i>	<i>Yes</i>
<i>Gold pebble pattern linoleum with mastic</i>	<i>Yes</i>
Sheetrock wall board	No
Tape to sheetrock wall board	No
Joint compound to sheetrock wall board	No
Plaster on brick wall	No
Caramel ceramic wall tile mastic	No
White ceramic wall tile grout	No
Yellow mastic polystyrene insulation	No
Green mastic polystyrene insulation	No
Brown fiberboard wall mastic	No
Gray cove base with mastic	No

HOMOGENOUS AREA (Material)	ACM Present? (> 1%)
Yellow stair carpet/pad mastic	No
2x4 white fissured ceiling tile	No
Wall penetration sealant	No
<i>Yellow fireplace caulk</i>	<i>Yes</i>
White interior window caulk	No
Tan interior door caulk	No
White textured wall covering	No
Brown interior window caulk	No
Exterior window glazing compound	No
Exterior vent pipe caulk	No
Exterior stone mortar	No
<i>Black tar patch on ceramic roof tiles</i>	<i>Yes</i>



***PRE-Renovation Asbestos Survey
Homogenous Area Listing***

***Mohonk Testimonial Gateway
1 Gatehouse Road
New Paltz, New York 12561***

HOMOGENOUS AREA (Material)	ACM Present? (> 1%)
Black paper under ceramic roof tiles	No
Tan exterior door caulk	No
Brown exterior window caulk	No



Appendix 5

NYSDOL Firm Asbestos Handling License

New York State – Department of Labor

Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

HSE Consulting Services, LLC

8636 Brewerton Road

Cicero, NY 13039

FILE NUMBER: 09-50181

LICENSE NUMBER: 50181

LICENSE CLASS: RESTRICTED

DATE OF ISSUE: 01/28/2015

EXPIRATION DATE: 01/31/2016

Duly Authorized Representative – Brian C King:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.



Eileen M. Franko, Director
For the Commissioner of Labor



Appendix 6

NYSDOL Asbestos Inspector Certification Documentation

ASBESTOS INSPECTOR CERTIFICATION DOCUMENTATION

PROJECT NAME

Hazardous Materials Survey
Mohonk Testimonial Gateway
1 Gatehouse Road
New Paltz, New York 12561
Ulster County

CLIENT NAME

Mohonk Preserve
P.O. Box 715
New Paltz, New York 12561

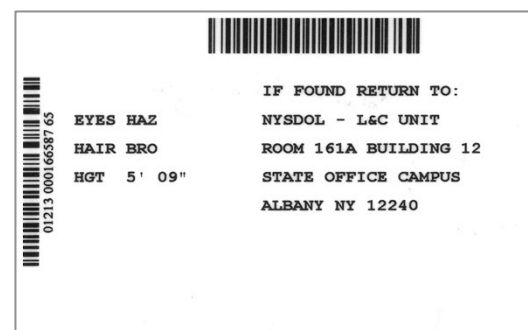
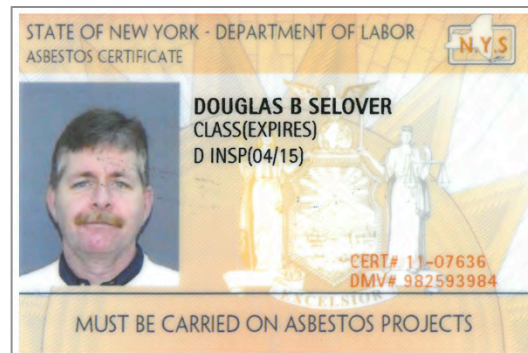
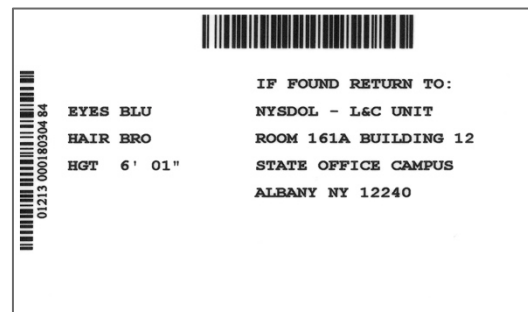
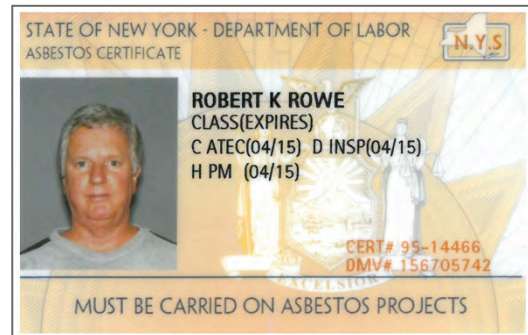
SURVEY DATES

February 25, 2015

ASBESTOS INSPECTOR

Kevin R. Rowe
NYSDOL Certificate # 95-14466
Expires 04/2015

Douglass B. Selover
NYSDOL Certificate # 11-07
Expires 04/2015





Appendix 7

Laboratory Analysis Reports & Chain-of-Custody Records



**Asbestos Sample Analysis Reports
&
Chain-of-Custody Records**

ASBESTOS ANALYSIS REPORT

Gravimetrically Reduced Samples

Non-Friable Organically Bound Material

Mohonk Preserve
PO Box 715

New Paltz NY 12561
Attention: Peter A. Karis

PLM Analysis Method - NY State ELAP 198.6

NYS DOH ELAP ID #11973

TEM Analysis Method - NY State ELAP 198.4

TEM Analysis Performed by NYSDOH ELAP ID #10984

Friday, March 06, 2015

Batch Number: 4708

Date Received: 2/26/2015

Date Collected: 2/25/2015

Sampled By: Kevin R Rowe

Page 1 of 4

Project # NA

Project Name: Mohonk Testimonial Gateway

Lab ID	Sample ID	Color	Residue %	PLM ANALYSIS				TEM ANALYSIS				Total % Asbestos	Date Analyzed
				%	Type	%	Type	%	Type	%	Type		
37395	KR22515-1-1	Tan	55.6	NAD		<1.0	CH					<1.0	2/27/2015
37396	KR22515-1-2	Gold	32.9	NAD		NAD						NAD	2/27/2015
37397	KR22515-2-1	Tan	52.8	NAD		2.8	CH					1.5	2/27/2015
37398	KR22515-2-2	Gold	35.3	NAD		<1.0	CH					<1.0	2/27/2015
37399	KR22515-3	Gray	91.9	NAD		NAD						NAD	2/27/2015
37400	KR22515-4	Gray	90.9	NAD		NAD						NAD	2/27/2015
37401	KR22515-5	Off White	3.7	NAD		NAD						NAD	2/27/2015
37402	KR22515-6	Off White	1.8	NAD		NAD						NAD	2/27/2015
37403	KR22515-7	Tan	35.2	NAD		NAD						NAD	2/27/2015
37404	KR22515-8	Tan	36.1	NAD		<1.0	CH					<1.0	2/27/2015
37405	KR22515-12-1	Gray/Tan	22.3	80.0	CH	NR						18	2/27/2015

Abbreviations:

AM - Amosite N/A - Not Applicable
 CH - Chrysotile NA - Not Available
 CR - Crocidolite NAD - No Asbestos Detected
 TM - Tremolite SAFF - Stop at First Positive
 AC - Actinolite (not analyzed)
 AN - Anthophyllite NR - Not Required

TR-Inconclusive - Trace asbestos detected at 1% or less (Samples with inconclusive results must not be interpreted as being non-ACM)
 *Insufficient sample for analysis.

** - Inconclusive, No Asbestos Detected (Samples with inconclusive results must not be interpreted as being non-ACM)

***TEM analysis not performed per client's request. (Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-ACM.

NOTE: The results pertain only to the samples in this report.

8636 Brewerton Road
Cicero, New York 13039

Ph # (315) 698-1438
 Fax # (315) 698-1441
 www.hseconsultingservices.com

ASBESTOS ANALYSIS REPORT

Gravimetrically Reduced Samples

Non-Friable Organically Bound Material

Mohonk Preserve
PO Box 715

New Paltz NY 12561
Attention: Peter A. Karis

PLM Analysis Method - NY State ELAP 198.6

NYS DOH ELAP ID #11973

TEM Analysis Method - NY State ELAP 198.4

TEM Analysis Performed by NYSDOH ELAP ID #10984

Friday, March 06, 2015

Batch Number: 4708

Date Received: 2/26/2015

Date Collected: 2/25/2015

Sampled By: Kevin R Rowe

Page 2 of 4

Project # NA

Project Name: Mohonk Testimonial Gateway

Lab ID	Sample ID	Color	Residue %	PLM ANALYSIS				TEM ANALYSIS				Total % Asbestos	Date Analyzed
				%	Type	%	Type	%	Type	%	Type		
37406	KR22515-12-2	Gold	42.6	66.7	CH							28	2/27/2015
37407	KR22515-13-1	Gray/Tan	20.8	80.0	CH							17	2/27/2015
37408	KR22515-13-2	Gold	62.1	50.0	CH							31	2/27/2015
37409	KR22515-20	Caramel	40.3	NAD								NAD	2/27/2015
37410	KR22515-21	Caramel	40.0	NAD								NAD	2/27/2015
37411	KR22515-22	Yellow	34.8	NAD				3.7	CH			1.3	2/27/2015
37412	KR22515-23	Yellow	36.3	NAD				3.9	CH			1.4	2/27/2015
37413	KR22515-24-1	Gray	2.0	NAD								NAD	2/27/2015
37414	KR22515-24-2	Caramel	29.9	NAD								NAD	2/27/2015
37415	KR22515-25-1	Gray	1.5	NAD								NAD	2/27/2015
37416	KR22515-25-2	Caramel	29.6	NAD								NAD	2/27/2015

Abbreviations:

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CR - Crocidolite NAD - No Asbestos Detected
TM - Tremolite SAFR - Stop at First Positive
AC - Actinolite (not analyzed)
AN - Anthophyllite NR-Not Required

TR-Inconclusive - Trace asbestos detected at 1% or less (Samples with inconclusive results must not be interpreted as being non-ACM)
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8636 Brewerton Road
Cicero, New York 13039

Ph # (315) 698-1438
Fax # (315) 698-1441
www.hseconsultingservices.com

ASBESTOS ANALYSIS REPORT

Gravimetrically Reduced Samples Non-Friable Organically Bound Material

Mohonk Preserve
PO Box 715

New Paltz NY 12561
Attention: Peter A. Karis

PLM Analysis Method - NY State ELAP 198.6

NYS DOH ELAP ID #11973

TEM Analysis Method - NY State ELAP 198.4

TEM Analysis Performed by NYSDOH ELAP ID #10984

Friday, March 06, 2015

Batch Number: 4708

Date Received: 2/26/2015

Date Collected: 2/25/2015

Sampled By: Kevin R Rowe

Page 3 of 4

Project Name: Mohonk Testimonial Gateway

Page 3 of 4		Project # NA		Project Name: Mohonk Testimonial Gateway									
Lab ID	Sample ID	Color	Residue %	PLM ANALYSIS			TEM ANALYSIS					Total % Asbestos	Date Analyzed
				%	Type	%	Type	%	Type	%	Type		
37417	KR22515-26	Gold	27.9	NAD							NAD	NAD	2/27/2015
37418	KR22515-27	Gold	25.7	NAD							NAD	NAD	2/27/2015
37419	KR22515-30	Caramel	17.4	NAD							NAD	NAD	2/27/2015
37420	KR22515-31	Caramel	11.4	NAD							NAD	NAD	2/27/2015
37421	KR22515-36	Green	2.4	NAD							NAD	NAD	2/27/2015
37422	KR22515-37	Green	2.5	NAD							NAD	NAD	2/27/2015
37423	KR22515-38	Brown/Off White	1.8	NAD							NAD	NAD	2/27/2015
37424	KR22515-39	Brown/Off White	2.2	NAD							NAD	NAD	2/27/2015
37425	KR22515-42	Tan	1.4	NAD							<1.0	CH	2/27/2015
37426	KR22515-43	Tan	1.7	30.8	CH						<1.0	CH	2/27/2015
37427	KR22515-44	Gray	55.4	NAD							NAD	NAD	2/27/2015

Abbreviations:

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CR - Crocidolite NAD - No Asbestos Detected
TM - Tremolite SAFF - Stop at First Positive
AC - Actinolite (not analyzed)
AN - Anthrophyllite NR - Not Required

TR - Inconclusive - Trace asbestos detected at 1% or less (Samples with inconclusive results must not be interpreted as being non-ACM)
*Insufficient sample for analysis.

** - Inconclusive, No Asbestos Detected (Samples with inconclusive results must not be interpreted as being non-ACM)

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NOTE: The results pertain only to the samples in this report.

8636 Brewerton Road
Cicero, New York 13039

Ph # (315) 698-1438
Fax # (315) 698-1441
www.hseconsultingservices.com

ASBESTOS ANALYSIS REPORT Gravimetrically Reduced Samples Non-Friable Organically Bound Material

Mohonk Preserve
PO Box 715

New Paltz NY 12561
Attention: Peter A. Karis

PLM Analysis Method - NY State ELAP 198.6

NYS DOH ELAP ID #11973

TEM Analysis Method - NY State ELAP 198.4

TEM Analysis Performed by NYSDOH ELAP ID #10984

Friday, March 06, 2015

Batch Number: 4708

Date Received: 2/26/2015

Date Collected: 2/25/2015

Sampled By: Kevin R Rowe

Page 4 of 4

Project # NA

Project Name: Mohonk Testimonial Gateway

Lab ID	Sample ID	Color	Residue %	PLM ANALYSIS				TEM ANALYSIS				Total % Asbestos	Date Analyzed
				%	Type	%	Type	%	Type	%	Type		
37428	KR22515-45	Gray	55.6	NAD				NAD				NAD	2/27/2015
37429	KR22515-48	Black	18.9	NAD				NAD				NAD	2/27/2015
37430	KR22515-49	Black	18.1	NAD				NAD				NAD	2/27/2015
37431	KR22515-50	Black	14.8	50.0	CH			NR				7.4	2/27/2015
37432	KR22515-51	Black	14.6	57.1	CH			NR				8.3	2/27/2015
37433	KR22515-52	Tan	2.4	NAD				NAD				NAD	2/27/2015
37434	KR22515-53	Tan	2.7	NAD				NAD				NAD	2/27/2015
37435	KR22515-54	Brown	2.0	NAD				NAD				NAD	2/27/2015
37436	KR22515-55	Brown	1.9	NAD				<1.0	CH			<1.0	2/27/2015

Reviewed and Approved By (and for questions regarding this report):


Douglas L. Gee, Technical Director

Abbreviations:

AM - Amosite N/A - Not Applicable
CH - Chrysotile NA - Not Available
CR - Crocidolite NAD - No Asbestos Detected
TM - Tremolite SAFF - Stop at First Positive
AC - Actinolite (not analyzed)
AN - Anthophyllite NR - Not Required

TR-Inconclusive - Trace asbestos detected at 1% or less (Samples with inconclusive results must not be interpreted as being non-ACM)
*Insufficient sample for analysis.

** - Inconclusive, No Asbestos Detected (Samples with inconclusive results must not be interpreted as being non-ACM)

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Cicero, New York 13039

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Fax # (315) 698-1441
www.hseconsultingservices.com

ASBESTOS ANALYSIS REPORT

Mohonk Preserve
PO Box 715
New Paltz NY 12561
Attention: Peter A. Karis

Monday, March 09, 2015

Batch Number: 4709
Date Received: 2/26/2015
Date Collected: 2/25/2015
Sampled By: Kevin R Rowe

Analysis Method - NY State ELAP 198.1
NYS DOH ELAP ID #11973

Page 1 of 2

Project #		Project Name Mohonk Testimonial Gateway												%Non-Fibrous Material Analyzed	Date		
Lab ID	Sample ID	Color	Total % Asbestos	NA	% AM	% CH	% CR	% TM	% AC	% AN	% CE	% MW	% GW			% SY	% HH
37437	KR22515-9	White	NAD								TR						100 3/5/2015
37438	KR22515-10	White	NAD								TR						100 3/5/2015
37439	KR22515-11	White	<1.0			<1.0					TR						100 3/5/2015
37440	KR22515-14	Off White/Brown	NAD								10						90 3/5/2015
37441	KR22515-15	Off White	NAD								TR						100 3/5/2015
37442	KR22515-16	Tan	NAD								100						3/5/2015
37443	KR22515-17	Tan	NAD								100						3/5/2015
37444	KR22515-18	Tan	<1.0			<1.0					TR						100 3/5/2015
37445	KR22515-19	Off White	NAD								TR						100 3/5/2015
37446	KR22515-28	Brown	<1.0			<1.0					TR				TR		100 3/5/2015
37447	KR22515-29	Brown	NAD														100 3/5/2015

Abbreviations:

AM - Amosite	TM - Tremolite	CE - Cellulose	SY - Synthetic	TR - Trace (<1%)	N/A - Not Applicable
CH - Chrysotile	AC - Actinolite	MW - Mineral Wool	HH - Horse Hair	NAD - No Asbestos Detected	NA - Not Available
CR - Crocidolite	AN - Anthophyllite	GW - Glass Wool	O - Other	SAPP - Stop at First Positive (not analyzed)	*Insufficient Sample for Analysis

The results pertain only to the samples in this report.

Ph # (315) 698-1438
Fax # (315) 698-1441
www.hseconsultingservices.com

8636 Brewerton Road
Cicero, New York 13039

ASBESTOS ANALYSIS REPORT

Mohonk Preserve

PO Box 715

New Paltz NY 12561

Attention: Peter A. Karis

Non-Gravimetrically Reduced Samples

Analysis Method - NY State ELAP 198.1

NYS DOH ELAP ID #11973

Monday, March 09, 2015

Batch Number: 4709

Date Received: 2/26/2015

Date Collected: 2/25/2015

Sampled By: Kevin R Rowe

Page 2 of 2

Page 2 of 2		Project Name Mohonk Testimonial Gateway															
Lab ID	Sample ID	Color	Project # NA		% CR	% TM	% AC	% AN	% CE	% MW	% GW	% SY	% HH	% O	Other Type	%Non-Fibrous Material	Date Analyzed
			Total % Asbestos	% AM													
37448	KR22515-32	White/Gray	NAD								TR					100	3/5/2015
37449	KR22515-33	White/Gray	NAD								TR					100	3/5/2015
37450	KR22515-34	White/Brown	NAD						95							5	3/5/2015
37451	KR22515-35	Brown	NAD						100								3/5/2015
37452	KR22515-46	Brown/Gray	NAD						TR							100	3/5/2015
37453	KR22515-47	Brown/Gray	NAD													100	3/5/2015

Reviewed and Approved By (and for questions regarding this report):


Douglas L. Gee, Technical Director

Abbreviations:

AM - Amosite
CH - Chrysotile
CR - Crocidolite

TM - Tremolite
AC - Actinolite
AN - Anthophyllite

CE - Cellulose
MW - Mineral Wool
GW - Glass Wool

SY - Synthetic
HH - Horse Hair
O - Other

TR - Trace (<1%)
NAD - No Asbestos Detected
SAFP - Stop at First Positive (not analyzed)

N/A - Not Applicable
NA - Not Available
*Insufficient Sample for Analysis

The results pertain only to the samples in this report.

8636 Brewerton Road
Cicero, New York 13039

Ph # (315) 698-1438

Fax # (315) 698-1441

www.hseconsultingservices.com



ASBESTOS ANALYSIS REPORT Gravimetrically Reduced Samples Friable Material

Mohonk Preserve
PO Box 715

New Paltz NY 12561
Attention: Peter A. Karis

PLM Analysis Method - NY State ELAP 198.6

NYS DOH ELAP ID #11973

TEM Analysis Method - NY State ELAP 198.4

TEM Analysis Performed by NYSDOH ELAP ID #10984

Friday, March 06, 2015

Batch Number:

4710

Date Received:

2/26/2015

Date Collected:

2/25/2015

Sampled By:

Kevin R Rowe

Project # NA

Project Name: Mohonk Testimonial Gateway

Page 1 of 1

Lab ID	Sample ID	Color	Residue %	PLM ANALYSIS				TEM ANALYSIS				Total % Asbestos	Date Analyzed
				%	Type	%	Type	%	Type	%	Type		
37454	KR22515-40	White/Tan	71.6	NAD				NAD				NAD	2/27/2015
37455	KR22515-41	White/Tan	79.1	NAD				NAD				NAD	2/27/2015

Reviewed and Approved By (and for questions regarding this report):


Douglas L. Gee, Technical Director

Abbreviations:

AM - Amosite N/A - Not Applicable
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*Insufficient sample for analysis.

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NOTE: The results pertain only to the samples in this report.

8636 Brewerton Road
Cicero, New York 13039

Ph # (315) 698-1438
Fax # (315) 698-1441
www.hseconsultingservices.com



8636 Brewerton Road, Cicero, NY 13039
Phone: 315-698-1438 / Fax: 315-698-1441

Bulk Sample Log

For Lab Use Only

Batch # 4708 37395-37436
4709 37437-37453
4710 37454-37455

Page 1 of 4

Date: 2/25/2015

Project Name: Mohawk Testimonial Gateway

Client Name: Mohawk Preserve

Project Address: 1 Gatehouse Road

Client Address: P.O. Box 215

New Paltz NY 12561

Contact: Peter A. Karpis

Phone/Fax: 846-255-0919 ext 1251

E-mail:

For Lab Use Only

Sample No.	Sample Location	Sample Description (1-1)	Layers (1-2)	Sample Type	Condition	Analysis Method	Lab ID
1	E side RM B3	TAN 12x12 tile w mortar	(2)			198.6	37395/37396
2	" " " "	" (1-2) " " (2-2)	(2)				37397/37398
3	SE " " "	Penetration crack					37399
4	" " " "	" "					37400
5	SE " " B2	white under crack					37401
6	E side RM 301	white under "					37402
7	west door	TAN inner crack					37403
8	west door	" " "					37404
9	North side B3 stairs	white textured concrete				198.1	37437
10	" " " "	" " "					37438
11	" " " "	" " "					37439
12	E side B3	12' pebble pattern limestone w mortar	(2)			198.6	37405/37406
13	" " RM 102	" " " 13-2	(2)				37407/37408
14	SW " " "	sheet rock				198.1	37440
15	" " " 102	" " "					37441

Sample Types: F = Friable NF = Non-Friable NOB = Non-Friable Organically Bound

Sample Conditions: G = Good/Intact F = Light/Minor Damages/Deterioration P = Heavy/Major Damages/Deterioration

Chain of Custody	Print Name	Signature	Date	Time
Sampled by:	Kerry R. Lowe	Kerry R. Lowe	2/25/15	1400
Relinquished by:	Kerry R. Lowe	Kerry R. Lowe	2/26/15	0845
Received at Lab by:	Douglas G...	Douglas G...	2-26-15	10:30
Turnaround Time:	<input type="checkbox"/> RUSH (Specify): <input type="checkbox"/> 12 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour	<input checked="" type="checkbox"/> Standard (5 Day)		



8636 Brewerton Road, Cicero, NY 13039
Phone: 315-698-1438 / Fax: 315-698-1441

Bulk Sample Log

For Lab Use Only

Batch # 4708 37395-37436
4709 37437-37453
4710 37454-37455

Date: 2/25/2015

Page 2 of 4

Project Name: Mohawk Testimonial Gateway	Client Name: Mohawk Preserve	Contact: Peter A. Kari's
Project Address: 1 Gatehouse Road	Client Address: P.O. Box 215	Phone/Fax: 845-255-0919 ext 1651
New Paltz NY 12561	New Paltz NY 12561	E-mail:

Sample No.	Sample Location	Sample Description	Layers	Sample Type	Condition	Analysis Method	Lab ID
KR22515-16	SW side RM 108	Sheetrock tape				198.1	37442
17	S " " 102	"					37443
18	SW side RM 102	Tent compd					37444
19	S " " 102	Tent compd					37445
20	center attic RM 101	polyethylene yellow mastic				198.6	37409
21	" " " "	" "					37410
22	S corner " 101	Fireplace mastic					37411
23	" " " "	"					37412
24	W " " "	"					37413/37414
25	E " " "	"					37415/37416
26	NE side " " stairs	yellow stain mastic					37417
27	" " " 102	"					37418
28	W corner " 101	Paster on brick				198.1	37446
29	NE " " 102	"					37447
30	E side RM 103	white cement like mastic				198.6	37419

Sample Types: F = Friable NF = Non-Friable NOB = Non-Friable Organically Bound

Sample Conditions: G = Good/Intact F = Light/Minor Damages/Deterioration P = Heavy/Major Damages/Deterioration

Chain of Custody	Print Name	Signature	Date	Time
Sampled by:	Kevin R. Rowe	Kevin R. Rowe	2/25/15	1400
Relinquished by:	Kevin R. Rowe	Kevin R. Rowe	2/26/15	0845
Received at Lab by:	Douglas G. C.		2-26-15	10:30
Turnaround Time:	<input type="checkbox"/> RUSH (Specify):	<input type="checkbox"/> 12 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour	<input checked="" type="checkbox"/> Standard (5 Day)	



8636 Brewerton Road, Cicero, NY 13039
Phone: 315-698-1438 / Fax: 315-698-1441

Bulk Sample Log

For Lab Use Only

Batch # 4708 37395-37436
4709 37437-37453
4710 37454-37455

Date: 2/25/2015

Page 3 of 4

Project Name: Mohawk Testimonial Gateway	Client Name: Mohawk Preserve	Contact: Peter A. Kaps
Project Address: 1 Gatehouse Road	Client Address: P.O. Box 215	Phone/Fax: 845-255-0919 ext 1851
New Paltz NY 12561	New Paltz NY 12561	E-mail:

Sample No.	Sample Location	Sample Description	Layers	For Lab Use Only			
				Sample Type	Condition	Analysis Method	Lab ID
KR24515-31	E side rm 203	white ceramic tile mastic				198.6	37420
32	" "	" " " " " "				198.1	37448
33	" "	" " " " " "				↓	37449
34	" "	Fiberglass board mastic				198.1	37450
35	" "	" " " " " "				↓	37451
36	NE rm 203	green mastic				198.6	37421
37	" "	" " " " " "				↓	37422
38	E side " 301	ben amber caulk				↓	37423
39	S " " "	" " " " " "				↓	37424
40	SE " " "	grey figured ct				198.6(F)	37454
41	" " " "	" " " " " "				↓	37455
42	" " " 301 stairs	elt amber stage				198.6	37425
43	" " " 101 Arch	" " " " " "				↓	37426
44	SE exten	" " pipe caulk				↓	37427
45	SE "	" " " " " "				↓	37428

Sample Types: F = Friable NF = Non-Friable NOB = Non-Friable Organically Bound

Sample Conditions: G = Good/Intact F = Light/Minor Damages/Deterioration P = Heavy/Major Damages/Deterioration

Chain of Custody	Print Name	Signature	Date	Time
Sampled by:	Kerry R. Kaps	Kerry R. Kaps	2/25/15	1400
Relinquished by:	Kerry R. Kaps	Kerry R. Kaps	2/26/15	0845
Received at Lab by:	Danylee		2-26-15	10:30
Turnaround Time:	<input type="checkbox"/> RUSH (Specify):	<input type="checkbox"/> 12 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour	<input checked="" type="checkbox"/> Standard (5 Day)	



8636 Brewerton Road, Cicero, NY 13039
Phone: 315-698-1438 / Fax: 315-698-1441

Bulk Sample Log

For Lab Use Only

Batch # 4708 37395-37436
4709 37437-37453
4710 37454-37455

Date: 8/25/2015

Page 4 of 4

Project Name: Mohawk Testimonial Gateway

Client Name: Mohawk Preserve

Contact: Peter A. Kael's

Project Address: 1 Gatehouse Road

Client Address: P.O. Box 215

Phone/Fax: 846-855-0919 ext 1651

New Paltz NY 12561

E-mail:

Sample No.	Sample Location	Sample Description	Layers	Sample Type	Condition	Analysis Method	Lab ID
KR22615-46	SE entrance	stone mortar				198.1	37452
47	NO " "	" "				↓	37453
48	S " "	Black roof				198.6	37429
49	N " "	" "					37430
50	S " "	" " tae patch					37431
51	S " "	" " " "					37432
52	N " "	tAN door casulk					37433
53	N " "	" " " "					37434
54	N " "	under casulk					37435
55	N " "	" " " "				✓	37436
56							
57							
58							
59							
60							

For Lab Use Only

Sample Types: F = Friable NF = Non-Friable NOB = Non-Friable Organically Bound

Sample Conditions: G = Good/Intact F = Light/Minor Damages/Deterioration P = Heavy/Major Damages/Deterioration

Chain of Custody	Print Name	Signature	Date	Time
Sampled by:	Kevin R. Kael's	<i>Kevin R. Kael's</i>	2/25/15	1400
Relinquished by:	Kevin R. Kael's	<i>Kevin R. Kael's</i>	2/26/15	0845
Received at Lab by:	Joyce L. Lee	<i>Joyce L. Lee</i>	2-26-15	10:30
Turnaround Time:	<input type="checkbox"/> RUSH (Specify): <input type="checkbox"/> 12 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour	<input checked="" type="checkbox"/> Standard (5 Day)		



**Lead Paint Analysis Reports
&
Chain-of-Custody Records**

Revised

Certificate of Analysis: Lead In Paint by EPA Method 7000B

Client : HSE Consulting Services
8363 Brewerton Road
Cicero, Ny 13039

Attn : Brian king Email : bking@hseconsultingservices.com
Phone : 315-698-1438 Fax : 954-229-8057

Client Project : Testimonial Gatehouse

Project Location : 1 Gateway Road Mohonk Preserve New Platz NY

AAT Project : 220568
Sampling Date : 02/25/2015
Date Received : 03/02/2015
Date Analyzed : 03/04/2015
Date Reported : 3/5/2015 8:56:06AM
Analyst : Tony Gincott

Lab Sample ID	Client Code	Sample Description	PPM	Result Lead (% by weight)	Calculated R L (% by weight)
2134476	KR22515-1LB	1ST FLOOR STAIRS STAIRS WHITE	494	0.0494	0.0025
2134477	KR22515-2LB	1ST FLOOR STAIRS STAIRS SIDE RUN	1512	0.1512	0.0041
2134478	KR22515-3LB	2ND FLOOR DOOR DRM DR FRM	602	0.0602	0.0036
2134479	KR22515-4LB	2ND FLOOR DOR FRM T 3RD DR FRM	299	0.0299	0.0035
2134480	KR22515-5LB	2ND FLOOR WINDOW FLOOR T 3RD	104	0.0104	0.0047
2134481	KR22515-6LB	2ND FLOOR ROOM 202 WALLS BLUE	12325	1.2325	0.0047



Analyst Signature

RL= Reporting Limit * For true values assume (2) significant figures. The method and batch QC is acceptable unless otherwise stated. Current EPA/HUD Interim Standard for lead in paint samples is: 5000 PPM (parts per million) or ug/g which is equivalent to 0.5% by weight. AAT internal sop S203. The laboratory operates in accord with ISO 17025 guidelines and holds limited scopes of accreditation under AIHA and NY State DOH ELAP programs. These results are submitted pursuant to AAT LLC current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. Analytical results relate to the samples as received by the lab. AAT will not assume any liability or responsibility for the manner in which the results are used or interpreted. Reproduction of this document other than in its entirety is not permitted. All Quality control requirements for the samples this report contains have been met.

AIHA ELLAP- Lab ID #100986, NY State DOH ELAP -Lab ID #11864, State of Ohio- Lab ID # 10042

Date Printed: 03/05/2015 8:57AM

AAT Project: 220568





30105 Beverly Road
Romulus, MI 48174
Ph: 734-629-8161; Fax: 734-629-8431

To : HSE Consulting Services
8363 Brewerton Road
Cicero, Ny 13039

Attn : Brian king

Email : bking@hseconsultingservices.com

Phone : 315-698-1438

Project Location : 1 Gateway Road Mohonk Preserve New Platz NY

AAT Project : 220568
Client Project : Testimonial Gatehouse
Date Reported : 3/5/2015 8:56:06AM

Sample	Client Code	Analysis Requested	Completed
2134476	KR22515-1LB	Lead Paint	03/04/2015
2134477	KR22515-2LB	Lead Paint	03/04/2015
2134478	KR22515-3LB	Lead Paint	03/04/2015
2134479	KR22515-4LB	Lead Paint	03/04/2015
2134480	KR22515-5LB	Lead Paint	03/04/2015
2134481	KR22515-6LB	Lead Paint	03/04/2015

Reviewed By

Quality Assurance Coordinator - Robert A Theys

Revision History

Job #	Sample	Revision Date	Revised By	Comment
220568	0	03/05/2015	Jill Yonts	spelling correction

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AIHA ELLAP - Lab ID #100986, NY State DOH ELAP -Lab ID #11864, State of Ohio- Lab ID # 10042

Date Printed: 03/05/2015 8:57AM

AAT Project: 220568





→ HSE Consulting Services LLC

[illegible]

TURNAROUND TIME: ☐ Rush (Same Day) ☐ 24-Hour ☒ 48-Hour ☐ 72-Hour ☐ 5-Day

8636 Brewerton Road
Cicero, New York 13039

Ph # (315) 698-1438
Fax # (315) 698-1441

www.hseconsultingservices.com



**Polychlorinated Biphenyl Analysis Reports
&
Chain-of-Custody Records**



Analytical Sample Results

Job Number: 15020582

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: HSE CONSULTING SERVICES
Project: MOHONK TESTIMONIAL GATEWAY
Client Sample ID: KR22515-1PB
Lab Sample ID: 15020582-01 (AS04943)

Collection Date: 02/26/2015 14:00
Sample Matrix: CAULK
Received Date: 02/27/2015 09:30
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC20F-2133-13	SW-846 8082A (PCB)	03/04/2015 17:36	MCA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	30246	EPA 3540C	03/03/2015 15:01	DSD	1.00 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.498	1.00	U	GC20F-2133-13
Aroclor 1221	11104-28-2	ND	0.498	1.00	U	GC20F-2133-13
Aroclor 1232	11141-16-5	ND	0.498	1.00	U	GC20F-2133-13
Aroclor 1242	53469-21-9	ND	0.498	1.00	U	GC20F-2133-13
Aroclor 1248	12672-29-6	ND	0.498	1.00	U	GC20F-2133-13
Aroclor 1254	11097-69-1	ND	0.498	1.00	U	GC20F-2133-13
Aroclor 1260	11096-82-5	ND	0.498	1.00	U	GC20F-2133-13
Aroclor 1262	37324-23-5	ND	0.498	1.00	U	GC20F-2133-13
Aroclor 1268	11100-14-4	ND	0.498	1.00	U	GC20F-2133-13
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC20F-2133-13

Surrogate	CAS No.	% Recovery	Limits (%)	Q ¹	File ID
Tetrachloro-meta-xylene	877-09-8	108	47.0-123		GC20F-2133-13
Decachlorobiphenyl	2051-24-3	122	35.0-153		GC20F-2133-13

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Analytical Sample Results

Job Number: 15020582

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: HSE CONSULTING SERVICES
Project: MOHONK TESTIMONIAL GATEWAY
Client Sample ID: KR22515-2PB
Lab Sample ID: 15020582-02 (AS04944)

Collection Date: 02/26/2015 14:00
Sample Matrix: CAULK
Received Date: 02/27/2015 09:30
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC20F-2134-5	SW-846 8082A (PCB)	03/05/2015 10:53	MCA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	30246	EPA 3540C	03/03/2015 15:02	DSD	1.01 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.495	1.00	U	GC20F-2134-5
Aroclor 1221	11104-28-2	ND	0.495	1.00	U	GC20F-2134-5
Aroclor 1232	11141-16-5	ND	0.495	1.00	U	GC20F-2134-5
Aroclor 1242	53469-21-9	ND	0.495	1.00	U	GC20F-2134-5
Aroclor 1248	12672-29-6	ND	0.495	1.00	U	GC20F-2134-5
Aroclor 1254	11097-69-1	1.45	0.495	1.00		GC20F-2134-5
Aroclor 1260	11096-82-5	ND	0.495	1.00	U	GC20F-2134-5
Aroclor 1262	37324-23-5	ND	0.495	1.00	U	GC20F-2134-5
Aroclor 1268	11100-14-4	ND	0.495	1.00	U	GC20F-2134-5
Total PCB Amount > RL	1336-36-3	1.45		1.00		GC20F-2134-5

Surrogate	CAS No.	% Recovery	Limits (%)	Q ¹	File ID
Tetrachloro-meta-xylene	877-09-8	112	47.0-123		GC20F-2134-5
Decachlorobiphenyl	2051-24-3	124	35.0-153		GC20F-2134-5

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



Analytical Sample Results

Job Number: 15020582

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: HSE CONSULTING SERVICES
Project: MOHONK TESTIMONIAL GATEWAY
Client Sample ID: KR22515-3PB
Lab Sample ID: 15020582-03 (AS04945)

Collection Date: 02/26/2015 14:00
Sample Matrix: CAULK
Received Date: 02/27/2015 09:30
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC20F-2133-15	SW-846 8082A (PCB)	03/04/2015 18:01	MCA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	30246	EPA 3540C	03/03/2015 15:03	DSD	1.00 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.499	1.00	U	GC20F-2133-15
Aroclor 1221	11104-28-2	ND	0.499	1.00	U	GC20F-2133-15
Aroclor 1232	11141-16-5	ND	0.499	1.00	U	GC20F-2133-15
Aroclor 1242	53469-21-9	ND	0.499	1.00	U	GC20F-2133-15
Aroclor 1248	12672-29-6	ND	0.499	1.00	U	GC20F-2133-15
Aroclor 1254	11097-69-1	ND	0.499	1.00	U	GC20F-2133-15
Aroclor 1260	11096-82-5	ND	0.499	1.00	U	GC20F-2133-15
Aroclor 1262	37324-23-5	ND	0.499	1.00	U	GC20F-2133-15
Aroclor 1268	11100-14-4	ND	0.499	1.00	U	GC20F-2133-15
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC20F-2133-15

Surrogate	CAS No.	% Recovery	Limits (%)	Q ¹	File ID
Tetrachloro-meta-xylene	877-09-8	113	47.0-123		GC20F-2133-15
Decachlorobiphenyl	2051-24-3	126	35.0-153		GC20F-2133-15

¹Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



8636 Brewerton Road, Cicero, NY 13039
Phone: 315-698-1438 / Fax: 315-698-1441

<15020582P1>



Bulk Sample Log

For Lab Use Only

Batch #

Date: 2-26-15

Project Name: *Mohank Testimonial Gateway*

Project Address: 1 Gatehouse Road

New Patz, N.Y.

Client Name: HSE Consulting Services LLC

Client Address: 8636 Brewerton Rd.

Cicero, N.Y.

Contact: Dan Hoosack

Phone/Fax: 315-698/1438/1698-1401

E-mail: choosick@hsfconsulting.com

For Lab Use Only

[illegible]

Sample Types: F = Friable NF = Non-Friable NOB = Non-Friable Organically Bound

Sample Conditions: G = Good/Intact F = Light/Minor Damages/Deterioration P = Heavy/Major Damages/Deterioration

Col sent: ①

Chain of Custody	Print Name	Signature	Date	Time
Sampled by:	Kevin K. Koore	[Signature]	2/26/15	1400
Relinquished by:	Kevin K. Koore	[Signature]	2/26/15	1600
Received at Lab by:	James Murphy	[Signature]	2/26/15	16:00
Turnaround Time:	<input type="checkbox"/> RUSH (Specify): _____ <input type="checkbox"/> 12 Hour <input checked="" type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input checked="" type="checkbox"/> Standard (5 Day)			

Pace Analytical Services Inc.

VIA FED EX → J. Burt (PACE) 2/27/15 09:30
 March 06, 2015
 Penn: 4:30c (5/18) - Page 9 of 19



Appendix 8

NYSDOH ELAP Certificates of Approval

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2015
Issued April 01, 2014

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. BRIAN C. KING
HSE CONSULTING SERVICES, LLC
8636 BREWERTON ROAD
CICERO, NY 13039

NY Lab Id No: 11973

*is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:*

Miscellaneous

Asbestos in Friable Material	Item 198.1 of Manual EPA 600/M4/82/020
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)

STATE OF NEW YORK
DEPARTMENT OF HEALTH

Serial No.: 50983

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2015
Issued April 01, 2014

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. G EDWARD CARNEY
AMA ANALYTICAL SERVICES INC
4475 FORBES BLVD
LANHAM, MD 20706

NY Lab Id No: 10920

*is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:*

Metals I

Lead, Total EPA 7000B

Miscellaneous

Asbestos in Friable Material Item 198.1 of Manual
EPA 600/M4/82/020

Asbestos in Non-Friable Material-PLM Item 198.6 of Manual (NOB by PLM)

Asbestos in Non-Friable Material-TEM Item 198.4 of Manual

Lead in Dust Wipes EPA 7000B

Lead in Paint EPA 7000B

Sample Preparation Methods

EPA 600/R-93/200

ASTM E-1979-04

Serial No.: 50429

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2015
Issued April 01, 2014

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

DR. RANJANA VALECHA
ACCURATE ANALYTICAL TESTING, LLC
12950 HAGGERTY ROAD
BELLEVILLE, MI 48111

NY Lab Id No: 11864

*is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:*

Metals I

Lead, Total EPA 7000B

Miscellaneous

Lead in Dust Wipes EPA 7000B

Lead in Paint EPA 7000B

Sample Preparation Methods

EPA 3050B

EPA 3051A

Serial No.: 50913

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**NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER**



Expires 12:01 AM April 01 2015
Issued April 01, 2014
Revised September 28, 2014

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE
Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. DAN PFALZER
PAGE ANALYTICAL SERVICES, INC.
2190 TECHNOLOGY DRIVE
SCHENECTADY, NY 12308

NY Lab Id No: 11078

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below*

Chlorinated Hydrocarbons

Hexachlorobutadiene	EPA 8270D
Hexachlorocyclopentadiene	EPA 8270D
Hexachloroethane	EPA 8270D

Haloethers

4-Bromophenylphenyl ether	EPA 8270D
4-Chlorophenylphenyl ether	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 8270D
Bis(2-chloroethyl)ether	EPA 8270D
Bis(2-chloroisopropyl) ether	EPA 8270D

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270D SIM
Acenaphthylene Low Level	EPA 8270D SIM
Anthracene Low Level	EPA 8270D SIM
Benzo(a)anthracene Low Level	EPA 8270D SIM
Benzo(a)pyrene Low Level	EPA 8270D SIM
Benzo(b)fluoranthene Low Level	EPA 8270D SIM
Benzo(g,h,i)perylene Low Level	EPA 8270D SIM
Benzo(k)fluoranthene Low Level	EPA 8270D SIM
Chrysene Low Level	EPA 8270D SIM
Dibenzo(a,h)anthracene Low Level	EPA 8270D SIM
Fluoranthene Low Level	EPA 8270D SIM
Fluorene Low Level	EPA 8270D SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270D SIM
Naphthalene Low Level	EPA 8270D SIM
Phenanthrene Low Level	EPA 8270D SIM

Low Level Polynuclear Aromatic Hydrocarbons

Pyrene Low Level	EPA 8270D SIM
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Metals I

Barium, Total	EPA 6010C
Cadmium Total	EPA 6010C
Calcium, Total	EPA 6010C
Chromium Total	EPA 6010C
Copper, Total	EPA 6010C
Iron, Total	EPA 6010C
Lead Total	EPA 6010C
Magnesium, Total	EPA 6010C
Manganese, Total	EPA 6010C
Nickel, Total	EPA 6010C
Potassium, Total	EPA 6010C
Silver, Total	EPA 6010C
Sodium, Total	EPA 6010C
Strontium, Total	EPA 6010C

Metals II

Aluminum, Total	EPA 6010C
Antimony, Total	EPA 6010C
Arsenic, Total	EPA 6010C
Beryllium, Total	EPA 6010C
Lithium, Total	EPA 6010C
Mercury, Total	EPA 7471B
Selenium, Total	EPA 6010C
Vanadium, Total	EPA 6010C

Serial No.: 51603

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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Issued April 01, 2014
Revised September 28, 2014

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. DAN PFALZER
PAGE ANALYTICAL SERVICES, INC.
2190 TECHNOLOGY DRIVE
SCHENECTADY, NY 12308

NY Lab Id No: 11078

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Polychlorinated Biphenyls

PCB 115	EPA 8082A
PCB 116	EPA 8082A
PCB 117	EPA 8082A
PCB 118	EPA 8082A
PCB 119	EPA 8082A
PCB 12	EPA 8082A
PCB 120	EPA 8082A
PCB 121	EPA 8082A
PCB 122	EPA 8082A
PCB 123	EPA 8082A
PCB 124	EPA 8082A
PCB 125	EPA 8082A
PCB 126	EPA 8082A
PCB 127	EPA 8082A
PCB 128	EPA 8082A
PCB 129	EPA 8082A
PCB 13	EPA 8082A
PCB 130	EPA 8082A
PCB 131	EPA 8082A
PCB 132	EPA 8082A
PCB 133	EPA 8082A
PCB 134	EPA 8082A
PCB 135	EPA 8082A
PCB 136	EPA 8082A
PCB 137	EPA 8082A
PCB 138	EPA 8082A

Polychlorinated Biphenyls

PCB 139	EPA 8082A
PCB 14	EPA 8082A
PCB 140	EPA 8082A
PCB 141	EPA 8082A
PCB 142	EPA 8082A
PCB 143	EPA 8082A
PCB 144	EPA 8082A
PCB 145	EPA 8082A
PCB 146	EPA 8082A
PCB 147	EPA 8082A
PCB 148	EPA 8082A
PCB 149	EPA 8082A
PCB 15	EPA 8082A
PCB 150	EPA 8082A
PCB 151	EPA 8082A
PCB 152	EPA 8082A
PCB 153	EPA 8082A
PCB 154	EPA 8082A
PCB 155	EPA 8082A
PCB 156	EPA 8082A
PCB 157	EPA 8082A
PCB 158	EPA 8082A
PCB 159	EPA 8082A
PCB 16	EPA 8082A
PCB 160	EPA 8082A
PCB 161	EPA 8082A

Serial No.: 51603

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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Revised September 28, 2014

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE
Issued in accordance with and pursuant to section 602 Public Health Law of New York State

MR. DAN PFALZER
PACE ANALYTICAL SERVICES, INC.
2190 TECHNOLOGY DRIVE
SCHENECTADY, NY 12308

NY Lab Id No: 11078

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Polychlorinated Biphenyls

PCB 209	EPA 8082A
PCB 21	EPA 8082A
PCB 22	EPA 8082A
PCB 23	EPA 8082A
PCB 24	EPA 8082A
PCB 25	EPA 8082A
PCB 26	EPA 8082A
PCB 27	EPA 8082A
PCB 28	EPA 8082A
PCB 29	EPA 8082A
PCB 3	EPA 8082A
PCB 30	EPA 8082A
PCB 31	EPA 8082A
PCB 32	EPA 8082A
PCB 33	EPA 8082A
PCB 34	EPA 8082A
PCB 35	EPA 8082A
PCB 36	EPA 8082A
PCB 37	EPA 8082A
PCB 38	EPA 8082A
PCB 39	EPA 8082A
PCB 4	EPA 8082A
PCB 40	EPA 8082A
PCB 41	EPA 8082A
PCB 42	EPA 8082A
PCB 43	EPA 8082A

Polychlorinated Biphenyls

PCB 44	EPA 8082A
PCB 45	EPA 8082A
PCB 46	EPA 8082A
PCB 47	EPA 8082A
PCB 48	EPA 8082A
PCB 49	EPA 8082A
PCB 5	EPA 8082A
PCB 50	EPA 8082A
PCB 51	EPA 8082A
PCB 52	EPA 8082A
PCB 53	EPA 8082A
PCB 54	EPA 8082A
PCB 55	EPA 8082A
PCB 56	EPA 8082A
PCB 57	EPA 8082A
PCB 58	EPA 8082A
PCB 59	EPA 8082A
PCB 6	EPA 8082A
PCB 60	EPA 8082A
PCB 61	EPA 8082A
PCB 62	EPA 8082A
PCB 63	EPA 8082A
PCB 64	EPA 8082A
PCB 65	EPA 8082A
PCB 66	EPA 8082A
PCB 67	EPA 8082A

Serial No.: 51603

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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MR. DAN PFALZER
PAGE ANALYTICAL SERVICES, INC.
2190 TECHNOLOGY DRIVE
SCHENECTADY, NY 12308

NY Lab Id No: 11078

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Polychlorinated Biphenyls

PCB 68	EPA 8082A
PCB 69	EPA 8082A
PCB 7	EPA 8082A
PCB 70	EPA 8082A
PCB 71	EPA 8082A
PCB 72	EPA 8082A
PCB 73	EPA 8082A
PCB 74	EPA 8082A
PCB 75	EPA 8082A
PCB 76	EPA 8082A
PCB 77	EPA 8082A
PCB 78	EPA 8082A
PCB 79	EPA 8082A
PCB 8	EPA 8082A
PCB 80	EPA 8082A
PCB 81	EPA 8082A
PCB 82	EPA 8082A
PCB 83	EPA 8082A
PCB 84	EPA 8082A
PCB 85	EPA 8082A
PCB 86	EPA 8082A
PCB 87	EPA 8082A
PCB 88	EPA 8082A
PCB 89	EPA 8082A
PCB 9	EPA 8082A
PCB 90	EPA 8082A

Polychlorinated Biphenyls

PCB 91	EPA 8082A
PCB 92	EPA 8082A
PCB 93	EPA 8082A
PCB 94	EPA 8082A
PCB 95	EPA 8082A
PCB 96	EPA 8082A
PCB 97	EPA 8082A
PCB 98	EPA 8082A
PCB 99	EPA 8082A
PCB Congeners, Total	EPA 8082A
PCB-1018	EPA 8082A
PCB-1221	EPA 8082A
PCB-1232	EPA 8082A
PCB-1242	EPA 8082A
PCB-1248	EPA 8082A
PCB-1254	EPA 8082A
PCB-1260	EPA 8082A
PCB-1262	EPA 8082A
PCB-1268	EPA 8082A

Polynuclear Aromatic Hydrocarbons

Acenaphthene	EPA 8270D
Acenaphthylene	EPA 8270D
Anthracene	EPA 8270D
Benzo(a)anthracene	EPA 8270D
Benzo(a)pyrene	EPA 8270D

Serial No.: 51603

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