

TAYLOR ENVIRONMENTAL GROUP, INC.

**Stuyvesant High School
Chambers Street, New York, NY
SCA Project #:M477-15217, LLW#: 29881**

Elevator Shaft(s) Cleaning and Testing Protocol

1. Prior to any cleaning work being performed inside the elevator shaft, each set of elevator doors on every floor (not being used to access the elevator car and/or shaft) shall be sealed with a loose diaphragm consisting of two layers of six-mil plastic sheeting sealed with tape.
2. A licensed elevator mechanic shall secure the elevator car at the highest elevation of the elevator shaft. The HVAC cleaning contractor shall clean the elevator pit area using wet methods and/or HEPA vacuum.
3. Under the supervision of a licensed elevator mechanic, the HVAC cleaning contractor shall clean all accessible interior surfaces of the elevator shaft and accessible exterior surfaces of the elevator car using wet methods and/or HEPA vacuum.
4. A visual inspection of all cleaned surfaces will be conducted to ensure they no visible dust/debris remain.
5. At the conclusion of a successful visual inspection, all accessible interior surfaces of the elevator shaft will be sealed with a clear-coat encapsulant.
6. The ceiling access hatch of the elevator car will be opened , and the car will ascend and descend the shaft a number of times. Two air samples will then be collected inside the elevator car to be analyzed for asbestos (TEM AHERA) and airborne lead (NIOSH 7082).



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Procedure used by Kiss Construction, Inc. for the Cleaning of Stage Curtains in Auditorium

1. Pre-Clean stage area using HEPA Vacuum / Wet Methods.
2. Cover stage area with two (2) layers of 6-mil plastic sheeting
3. Curtains were lowered to stage level and manually struck with hard objects e.g. broom handles.
4. Curtains were HEPA-Vacuumed a minimum of two (2) times prior to being raised to original elevation.

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Cleaning Protocol for Ceiling Mounted (Ducted) Unit-Ventilators

- 1) V&R to cut 1'x2' access panels into duct work on either side of Unit Ventilator.
- 2) V&R to clean intake duct work and seal exterior louver.
- 3) V&R will drill 1" diameter hole at bottom of fan unit housing to allow access to clean unit fan and housing.
- 4) Kiss Construction will isolate Unit Ventilator from duct work with 6 mil. Poly Isolation Barriers.
- 5) Kiss Construction to clean top (adjacent to deck) of Unit Ventilator.
- 6) Kiss Construction to construct tent enclosure around the Unit Ventilator.
- 7) Kiss Construction will remove fiberglass insulation from inside the Unit Ventilator.
- 8) Tent enclosure is placed under negative pressure.
- 9) Kiss Construction proceed to clean Unit Ventilator.
- 10) Taylor Environmental Group, Inc. will perform visual inspection of the Unit Ventilator and interior of tent enclosure.
- 11) If no visible dust or debris is observed, Taylor will collect Lead Wipe Sample from Unit Ventilator
- 12) If visual inspection fails, Taylor will instruct Kiss Construction to re-clean unit and Taylor will perform an additional visual inspection and retest as per Step #11.
- 13) If wipe sample results pass the BOE/SCA clearance criteria (less than or equal to 20 $\mu\text{g}/\text{ft}^2$) Kiss Construction shall isolate the unit by enclosing the entire unit with 6 Mil poly sheeting.
- 14) If wipe sample results fail the BOE/SCA clearance criteria (exceed 20 $\mu\text{g}/\text{ft}^2$) re-clean unit and re-sample

Note: Unit Ventilator will be kept isolated from duct work until V&R has completed cleaning the adjacent duct work and re-installed the Unit Ventilator.

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Auditorium Carpet Removal / Chair Upholstery Cleaning Protocol **Revised August 23, 2002 Revision #2**

1. Shut down the heating, ventilation, and air-conditioning (HVAC) system(s) for the auditorium.
2. Attached personal/waste decontamination unit(s) will be constructed and located at the main entrance (s) to the auditorium (work area). Full enclosure(s) shall be constructed to enclose all carpeted floor surfaces within the auditorium. The full enclosure(s) shall be constructed using a framework consisting of 2inch x 3 inch. studs. (36 inch. O.C.) lined with 2 layers of 6-mil plastic sheeting.
3. Negative pressure ventilation equipment will be installed inside the full enclosure(s) in order to establish a minimum static negative-pressure differential of 0.02 inches water column.
4. All penetrations that can be reached using an 8 foot ladder (such as windows, doorways, supply air diffusers, return air grilles, etc.) shall be sealed with 2 layers of 6-mil plastic sheeting sealed with tape.
5. A thorough visual inspection will be performed by a third party consultant to verify that all required engineering controls are in place and working correctly.
6. Clean the chair upholstery and associated floor surfaces twice using HEPA filtered vacuum equipment.
7. After the chair upholstery and associated floor surfaces have passed a thorough visual inspection, all seating systems shall be covered with two layers of 6-mil plastic sheeting and sealed with tape.
8. All carpeted floor surfaces within the full enclosure(s) shall be saturated with an approved lock-down encapsulant and then covered with two layers of 6-mil plastic sheeting sealed with tape.
9. The plastic covered carpet shall be continually misted with amended water while it is being cut into manageable sections and rolled up. When a section of carpet has been rolled up, it shall be misted with amended water and sealed with two layers of 6-mil plastic sheeting. The sealed carpet section shall be transported to the



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waste decontamination unit where it shall be wet wiped and sealed with an additional two layers of 6-mil plastic sheeting. The sealed carpet section shall be transported out of the facility to an approved waste container for appropriate disposal.

10. After all carpeting has been removed from the full enclosure(s), all surfaces within the full enclosure(s) shall be cleaned using wet methods and HEPA vacuum.
11. The two layers of 6 mil plastic sheeting covering the seating systems shall remain in place until the auditorium has undergone general cleaning, passed a visual inspection for dust/debris and passed clearance criteria for lead in dust.

AIR MONITORING PROTOCOL:

1. During the removal of the carpet within the full enclosure(s), air-samples will be collected inside the full enclosure(s). These samples will be analyzed via TEM (AHERA Protocol).
2. Outside work area air samples will be collected during the preparation, cleaning and carpet removal phases of the project to evaluate any asbestos fiber release from the work area. These samples will be analyzed via TEM (AHERA Protocol).
3. After all work has been completed within the full enclosure(s), a thorough visual inspection will be conducted by the third party consultant to ensure that no visible dust/debris remain.
4. Final clearance air-monitoring will be conducted inside the full enclosure(s) using aggressive techniques and outside the work area (ambient air samples) and samples will be analyzed via TEM (AHERA Protocol).