

# The QUINTEK Newsletter

The Leader in Environmentally Safe Cleaning Technology



*Welcome to our QUINTEK Newsletter!*

Vol. 2, Issue 1

## Hall of Justice Renovation Los Angeles County



Photo Hall of Justice c. 1939 — Photo courtesy of LAPL

### Original Architect:

Allied Architects Association Los Angeles, CA

### Project team:

A. C. Martin Partners, Inc., Los Angeles, CA

Clark Construction. Irvine, California

Wiss, Janney, Elstner Associates, Inc

Levin & Associates Architects, Los Angeles, CA

Carrara Marble Co of America, City of Industry, CA

### QUINTEK Certified Contractor:

Bielski Services - Anaheim, California

Carrara Marble Co of America, City of Industry, CA

It is since 1925 the Los Angeles County Hall of Justice, a downtown landmark, remains the oldest surviving government building located on Temple Street, on what was once called Pound Cake Hill. This Beaux-Arts building served as the home of the LA County Sherriff's Department and the Coroner's Office. The building was designed by Allied Architects Association a super design team consortium of 33 Los Angeles-based architects. Allied Architects Association was founded in 1921 to provide the best expression of the art of architecture to municipal, county, state, and national governments by professional architects at the least possible cost. Among the participating architects were Octavius Morgan, Edwin Bergstrom, David C. Allison, Myron Hunt, Reginald Johnson, Elmer Grey, and J. J. Backus. AAALA's design was of bold classical details that matched on all four sides and presented an imposing presence in the Los Angeles Civic Center. The exterior of the building is clad almost entirely in granite from the ground level, to the granite columns encircling the upper floors. The floors above and below the colonnade contain terra cotta panels featuring bucrania (ox skulls) and acanthus leaves while a terra cotta cornice caps the façades. The opulent grand lobby features Ionic marble columns and a gilded coffered ceiling. The facility continued consolidated operations as the County's Courts and County Jail until the 1994 Northridge Earthquakes when the structure was damaged by seismic activity and was deemed unsound to occupy.

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## Hall of Justice, Los Angeles County, California



Photo by Bielski Services Anaheim CA.



Photo by Bielski Services Anaheim Ca.

After more than 20 years of abandonment the Los Angeles County Board of Supervisors sought to reopen the building that once housed infamous criminals like “Bugsy” Siegel, Robert Mitchum, Charles Manson and Sirhan Sirhan, and where the autopsies of Marilyn Monroe and Robert Kennedy were conducted. The \$234 million design-build contract was awarded to the Clark Construction Company and A. C. Martin to rehabilitate and restore the building to its former glory. This project was equal parts structural retrofit, historic restoration, and complete tenant improvement. Over the course of the last three years, the project team meticulously repaired and restored the Hall of Justice, delivering a modern, functional facility that retains all of its original grandeur. The building’s rehabilitation included extensive cleaning of the Sierra White Granite facades and the restoration of the marble-clad grand lobby and loggia. Countless hours of collaboration were spent with Clark Construction and its Design Team heads up by Carrara Marble Company, the prime restoration contractor in an effort to restore the Hall of Justice exterior



Photo by Bielski Services Anaheim CA.



Photo by Bielski Services Anaheim CA.

Find additional information at <http://www.clarkhallofjustice.com/>

façade to its former glory. The final specification resulted in the use of the environmentally safe ROTEC VORTEX micro abrasive cleaning system. The granite and terra cotta have been carefully and methodically cleaned and restored under the watchful eyes of the Carrara Marble Company, and sub-contractor Bielski Services of Anaheim, CA both are certified QUINTEK contractors that used ROTEC VORTEX micro abrasive cleaning system and QUINTEK certified micro abrasive glass media M 1035 for spectacular results.





## The High Bridge project New York N. Y. A Bridge over the Harlem River

**Project :** The High Bridge and approaches located within Highbridge Park, Manhattan and Highbridge Park, Bronx

**Original Engineering Team:** John B. Jervis and James Renwick, Jr.

**Style:** Roman aqueduct architecture

**The Scope of Work to be Performed:** A \$ 61.7 million rehabilitation project funded by Mayor Bloomberg's PlaNYC initiative and Congressman Joe E. Serrano to restore and reopening of the bridge for pedestrians and bicyclists using historic preservation methods. Estimated opening 2015

**Construction Manager:** The New York City Department of Design and Construction in partnership with Parks and Recreation

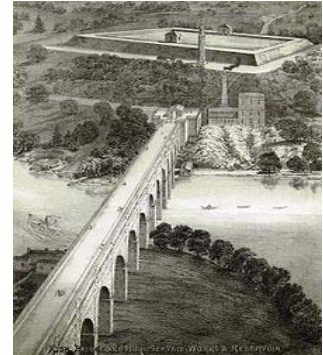
**Design Team:** Led by Lichtenstein Consulting Engineers, P.C.

**General Contractor:** Schiavone Construction Co., Secaucus NJ

**Conservator:** Jablonski Building Conservation, Inc. New York, NY

**QUINTEK Certified Contractor:** JMC Stone Company, Mineola NY

Completed in 1848 the High Bridge is part of the Old Croton Aqueduct, a 41 mile gravity system designed to replace privet wells that could not supply the clean water needs of a rapidly growing urban population of New York City. The High Bridge is listed on the National Register of Historic Places. It a New York City and a National Historic landmark. The bridge served NYC from 1842 until 1958 at it peak it carried about 100 million gallons of pure water to the city. The bridge was the result of architectural and engineering innovations developed to connect the Old Croton Aqueduct system from the Croton River in Westchester County to Manhattan NY. Designed on principles of Roman aqueduct architecture, the granite bridge is about 116 feet in height, with the peak of its arches 100 feet above the Harlem River. The bridge is 1,450 feet long, measured from gatehouse to gatehouse, with a 1,200-foot-long brick walkway. In 1864 larger water pipe and a walkway were added. In 1928, after many years of calls for complete demolition of the bridge, the city replaced five of the original 15 arches with a central steel span to ease the passage of large ships up the Harlem River. The rest of the majestic stone arches still stand today the majority on the Bronx side of the river.



**High Bridge, High Bridge Water tower**

[https://upload.wikimedia.org/wikipedia/commons/a/af/High\\_Bridge\\_and\\_high\\_service\\_works\\_%26\\_reservoir.jpg](https://upload.wikimedia.org/wikipedia/commons/a/af/High_Bridge_and_high_service_works_%26_reservoir.jpg)



**High bridge original stone arches C.A. 1900**

[http://en.wikipedia.org/wiki/File:High\\_Bridge,\\_New\\_York\\_City,\\_1900.jpg](http://en.wikipedia.org/wiki/File:High_Bridge,_New_York_City,_1900.jpg)



**High Bridge with steel arches C.A. 1990**

<http://upload.wikimedia.org/wikipedia/commons/a/a5/HighbridgeNewYork.jpg>



**High Bridge before restoration**

<http://commons.wikimedia.org/wiki/File:HighBridgeDeeganjeh.jpg>



## The High Bridge project New York N. Y. A Bridge over the Harlem River

The High Bridge project involved: the repairing of brick walkway deck, including supporting structural arches and tie rods; the re-pointing and repairing of stone masonry arches, repairing, strengthening, and repainting of the steel arch; constructing new safety fencing; restoring historic hand railings; constructing new bicycle and ADA accessible ramps on brick walkway decking; adding decorative lighting and cleaning of the stone arches. Jablonski Building Conservation was retained by the general contractor Schiavone Construction Co. and masonry sub-contractor JMC Stone Company to assist with the development of appropriate methods for cleaning the masonry at the High Bridge. There were three types of soiling present on

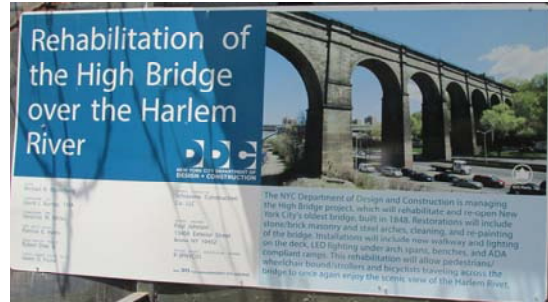


Photo courtesy of JMC Stone Co



Testing samples at the High Bridge . Photo courtesy of JMC Stone Co.

the masonry, heavy atmospheric soiling, paint, and graffiti. A cleaning test program was undertaken to determine the most effective and gentlest means for removing the soiling from the historic granite. The testing included, low pressure micro-abrasives, chemical cleaners and

methods of paint removal. An 8X magnification field scope was used to detect any etching. Etching is the scratching of softer minerals in the granite that may causes more light to be reflect from the stone to make the stone appear lighter in color.



8x magnification after cleaning with ROTEC VORTEX cleaning system no etching visible. Photo courtesy of JMC Stone Co.

Etching can be caused by both low pressure micro-abrasive cleaners and chemical cleaners. Over 30 different test were performed to determine the best course of action. Based on the results of the testing, the size of the structure, its proximity to the river, possible containment issues, and varying temperature conditions, it was recommends that the QUINTEK ROTEC VORTEX cleaning system utilizing the M1035 180 Micron Glass Powder be utilized to clean the High Bridge granite masonry.

**QUINTEK's ROTEC VORTEX** sufficiently cleaned the soiling at 40 psi without causing any measurable damage to the granite. In addition to successfully removing general atmospheric soiling, the ROTEC VORTEX cleaning system was also proven to successful remove paint and underlying graffiti from the north façade of the pier during the testing. The **QUINTEK Corporation** is proud to work with the **JMC Stone Corporation**, a certified QUINTEK company in the restoration of the National Register listed Historic High Bridge that spans the Harlem River.



Photo of the ROTEC VORTEX mock-up sample. Courtesy of JMC Stone Co.



## QUINTEK's Misting Cleaning System

A safe and effective way to clean masonry.

QUINTEK a leader in environmentally safe cleaning systems presents the new revised Misting Cleaning System **QMCS 100** a traditional stone cleaning method for the technical era. Our Misting Cleaning Systems meet or exceed the most discerning specification requirements. The **QMCS 100** creates a micro-fine mist of filtered potable water that can cleans sensitive stone surfaces removing; grime, pollutants and many other types of water-soluble soiling by gently softening the layers of dirt that have accumulated over time. Our articulating spray nozzles are securely mounted on a 5 foot spray bar ensuring that the cleaning mist can be precise focused where it is needed with to avoiding over saturation. Our system is the only system that is controllable in the ON as well as the OFF cycles. The duration of both cycles can be accurately controlled from 5 seconds to 10 minutes. The system also has a built in filtration unit that will restrict particles down to 5 micron in size. Cleaning with the **QMCS 100** is gentle, environmentally safe and effective for use on historic stonework and masonry.



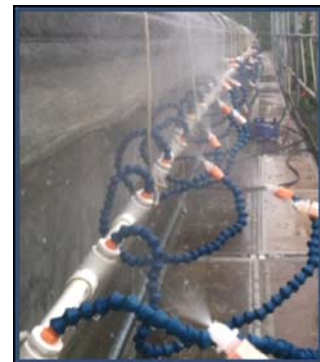
Corcoran Art Gallery, Washington DC  
before cleaning



Corcoran Art Gallery, Washington DC  
after mist cleaning

### The units feature:

- Built in cyclic timer adjustable from 5 sec to 10 minute
- Built in Micron Filtration
- Conical spray nozzles
- Whisper quiet operation
- UV-stable articulated nozzle hoses
- Misting bars are constructed of non corrosive materials
- Articulated nozzle hoses enable accurate positioning of spray.
- Standard length: 5 Feet (Maximum length per control timing unit is 70 linear feet)



The QMCS 100 is extremely flexible and can be modified to fit the needs of your project. The most common designs are the ladder and the horizontal layout. This system is environmental safe and uses no chemicals to clean the substrate.



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QUINTEK was proud to participate in the September 24, 2014 Seminar - CLEANING HISTORIC MASONRY - presented by the International Masonry Institute and the Association for Preservation Technology of Delaware Valley Chapter. As you can see from the photos the presentations were well attended. We demonstrated our ROTEC VORTEX Cleaning System and Misting Cleaning System. During the demonstration we discussed how the ROTEC VORTEX Cleaning System can efficiently, affectively, and safely remove pollutants from



the substrate without harm it. Helping restore historic structures to there former glory. Attendees were given the opportunity ask questions and inspect the material cleaned using a 5x hand held jeweler's loupe. Special thanks to Roy Ingraffia of

International Masonry Institute and Association for Preservation Technology, for his invitation.

**QUINTEK** Corporation is committed to providing cleaning technology to preserve the building and living environment. We are ready to assist you with your project needs. We provide consultant services and testing services for your projects.

- Sample testing
- Mock-ups
- Technical evaluation
- Training Certification

Environmentally safe **QUINTEK's** certified micro abrasive glass powder M 1035 and dolomite powder D 5025 are safe to the environment and user.



- Our media is environmentally friendly
- **NO FREE SILICA**
- no heavy metals
- no toxic components
- no potentially damaging soluble salts
- Odorless
- not considered a carcinogen
  - not listed by NTP, IARC or OSHA as a carcinogen
  - not reactive to; metals, organic materials or chlorates

Don't be fooled by others that claim they are environmentally friendly read the MSDS sheets! Our MSDS sheets are posted on [www.QUINTEK.net](http://www.QUINTEK.net).

Please follow us on the web at [www.QUINTEK.net](http://www.QUINTEK.net)



Attendee using the 5x hand held Jewelers loop



Demonstrating the ROTEC VORTEX cleaning system

All photos courtesy of QUINTEK Corp