

LANGAN QUALIFICATIONS

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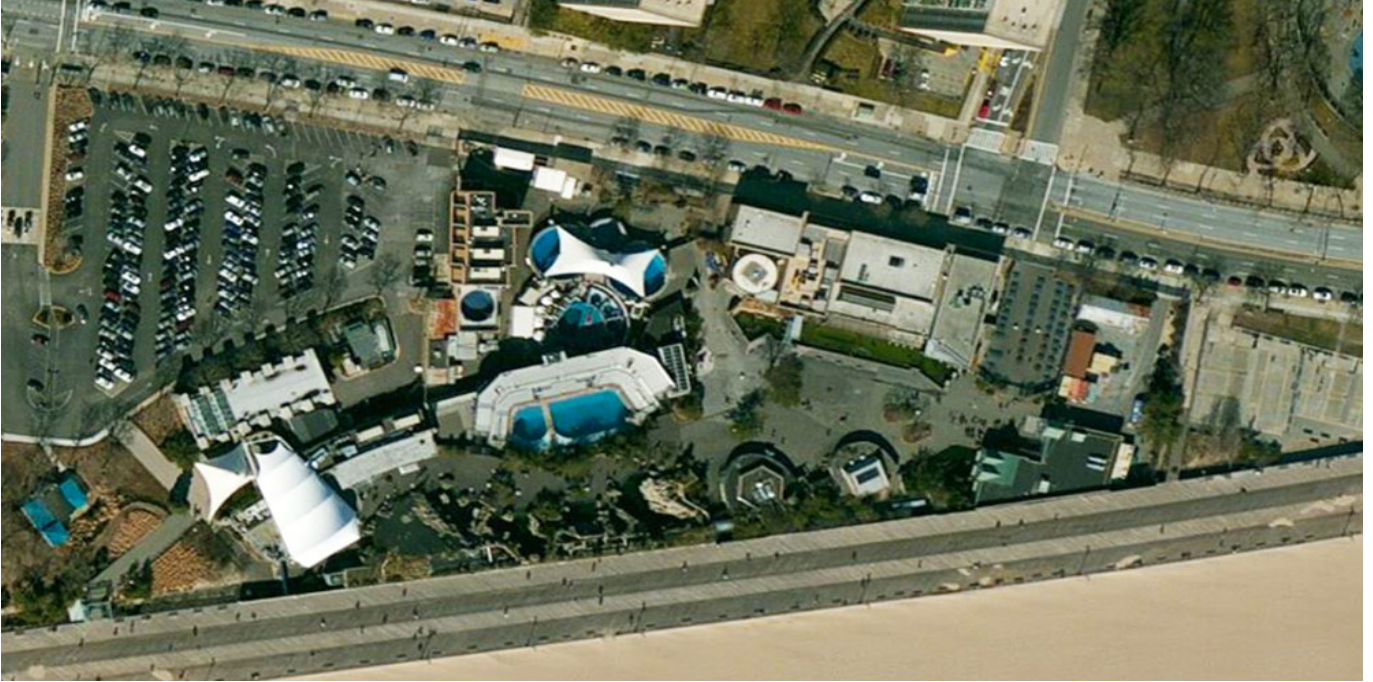
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NEW JERSEY NEW YORK CONNECTICUT PENNSYLVANIA OHIO VIRGINIA GEORGIA FLORIDA TEXAS CALIFORNIA ARIZONA WEST VIRGINIA

ABU DUBAI GREECE LONDON QATAR TURKEY PANAMA



NEW YORK AQUARIUM - REHABILITATION & FLOOD MITIGATION

Location: Brooklyn, NY
Client: Wildlife Conservation Society
Architect: di Domenico + Partners
Services: Site/Civil, Geotechnical,

OVERVIEW

Having completed a damage assessment in an earlier Federal Emergency Management Agency (FEMA) report, Langan was retained to complete permitting and construction documentation phase services for New York Aquarium's (NYA) restoration efforts. Design services included repair and replacement of damaged site and building features and improvements to bring the NYA infrastructure up to current code. We also provided mitigation services to prevent similar flood-related damages in the future. Langan's scope included coordination with the architect and design team to document the FEMA-approved scope of work throughout the 14-acre site.

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THE NEW YORK BOTANICAL GARDEN - NATIVE PLANT GARDEN

Location: Bronx, NY
Partner: Oehme, van Sweden & Associates
Services: Site/Civil, Geotechnical, Environmental,

OVERVIEW

Langan provided site/civil, geotechnical and environmental engineering services for the new Native Plant Garden at the New York Botanical Garden opening May 3, 2013. The beautiful garden is intended to educate visitors about the diversity, ecology and horticultural interests of native plants.

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Credit: Visualhouse

HUDSON YARDS REDEVELOPMENT

- Location:** New York, NY
- Client:** Hudson Yards, a Related Oxford Venture
- Architect:** Kohn Pedersen Fox, Skidmore, Owings & Merrill, Diller
Scofidio + Renfro, Ismael Leyva Architects, Rockwell Group
- Partner:** Thornton Tomasetti, WSP
- Services:** Geotechnical, Environmental, Site/Civil, Traffic &
Transportation, Traditional Surveying, Terrestrial
Scanning/BIM,

OVERVIEW

This major New York City redevelopment, under the joint guidance of the City, the Metropolitan Transportation Authority, and State of New York initiatives, is in the process of reinventing the Hudson Yards area in midtown Manhattan. Langan has been retained by multiple teams to provide geotechnical, site/civil, environmental, and traffic engineering, seismic design analysis, and surveying services during the pre-design phase of development.

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US FEDERAL COURTHOUSE

Location: White Plains, NY
Client: General Services Administration
Services: Geotechnical,

OVERVIEW

As part of the design-build team for this seven-story federal courthouse, Langan performed a geotechnical investigation of the sub-surface conditions at the site. Our geotechnical report led to technically feasible and cost-effective foundations and floor slab alternatives.

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BUSHWICK INLET PARK

- Location:** Brooklyn, NY
- Client:** New York City Department of Parks and Recreation
- Architect:** Kiss + Cathcart Architects
- Partner:** Starr Whitehouse Landscape Architects and Planners, Robert Silman Associates, AG Consulting Engineers
- Services:** Site/Civil, Waterfront & Marine, Geotechnical, Environmental, Natural Resources & Permitting, Traditional Surveying,

OVERVIEW

Langan participated in the revitalization of five acres on the Greenpoint-Williamsburg waterfront by performing survey, marine, and site/civil, geotechnical, and environmental engineering services. The multi-faceted public park includes a two-story building structure topped by a sloped green roof. The middle of the site contains a soccer field and the west portion of the site contains landscaped and waterfront walkways. This project is on track to receive LEED Gold or higher certification for its innovative sustainable design.

AWARDS

2014 American Council of Engineering Companies New York, Engineering Excellence Awards, Gold

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THE HIGH LINE

Location: New York, NY
Client: City of New York
Architect: Diller Scofidio + Renfro, Field Operations
Services: Site/Civil, Environmental,

OVERVIEW

The project involved the transformation of an abandoned, elevated railroad structure into a public park. Stretching 1.5 miles on Manhattan's west side, the park helped spur residential and commercial development in the West Chelsea neighborhood and is a popular tourist attraction. Langan's site/civil group assisted with the design and permitting of three plazas associated with the High Line, and obtained DEP drainage plan permits to connect drains for the project areas and at street level for the length of the structure. Our environmental team provided remediation design and oversight for the section of the park between West 17th Street and West 18th Street.

AWARDS

2012 Society of American Registered Architects (SARA), Visionary City Landscape Award
2009 Urban Land Institute (ULI), Award for Excellence: The Americas

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TUXEDO RESERVE MASTER PLAN

Location: Tuxedo, NY
Client: Related Companies
Services: Natural Resources & Permitting, Site/Civil, Geotechnical,
Traffic & Transportation, Environmental, Traditional Surveying,

OVERVIEW

Tuxedo Reserve is a planned integrated development of a 2,400-acre site located in the southeastern corner of Orange County, New York. Langan was retained to undertake all land development engineering of the site for construction of the multi-use development, which includes 1,500 residential units as well as over 30,000 SF of light industrial office commercial building.

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FRANKLIN D. ROOSEVELT FOUR FREEDOMS PARK

Location: Roosevelt Island, NY
Client: Frankling D. Roosevelt Four Freedoms Park, LLC
Architect: Mitchell | Giurgola Architects, Louis Kahn
Partner: Weidlinger Associates, F.J. Sciame
Services: Waterfront & Marine, Environmental Planning, Natural Resources & Permitting, Site/Civil, Geotechnical, Landscape Architecture,

OVERVIEW

Designed by renowned architect Louis Kahn, the 4.5-acre park and plaza sits at the Island's southernmost point. The site features a landscaped open garden and plaza area for passive public enjoyment, promenade along the East River, forecourt, sculpture court and front plaza overlooking the East River with views of Manhattan, Queens and Brooklyn.

AWARDS

2013 Engineering News Record Best Project - Merit Award (Landscape/Hardscape/Urban Development)
2013 American Institute of Architects New York Chapter Design Awards: Urban Design Merit Award
2013 Municipal Art Society: Brendan Gill Prize
2013 Travel + Leisure Design Awards: Best Public Space

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MAPLE MOOR GOLF COURSE IMPROVEMENTS

Location: White Plains, NY
Client: Westchester County Department of Public Works and Transportation
Architect: Reese Jones, Inc.
Partner: Keystone Engineering, Avalon Consulting Group, James Barrett Associates, Manganaro Engineers
Services: Site/Civil, Traditional Surveying,

OVERVIEW

Once part of the Griffen family farm established in 1879, the Maple Moor Golf Course was named after the abundance of maple trees on the property. The 18-hole golf course, which opened to the public in 1927, includes practice greens and a clubhouse/catering facility across 140 acres. Langan evaluated conditions and provided recommendations for the golf course improvement project, including fairway realignments and rerouting of cart paths to enhance overall circulation.

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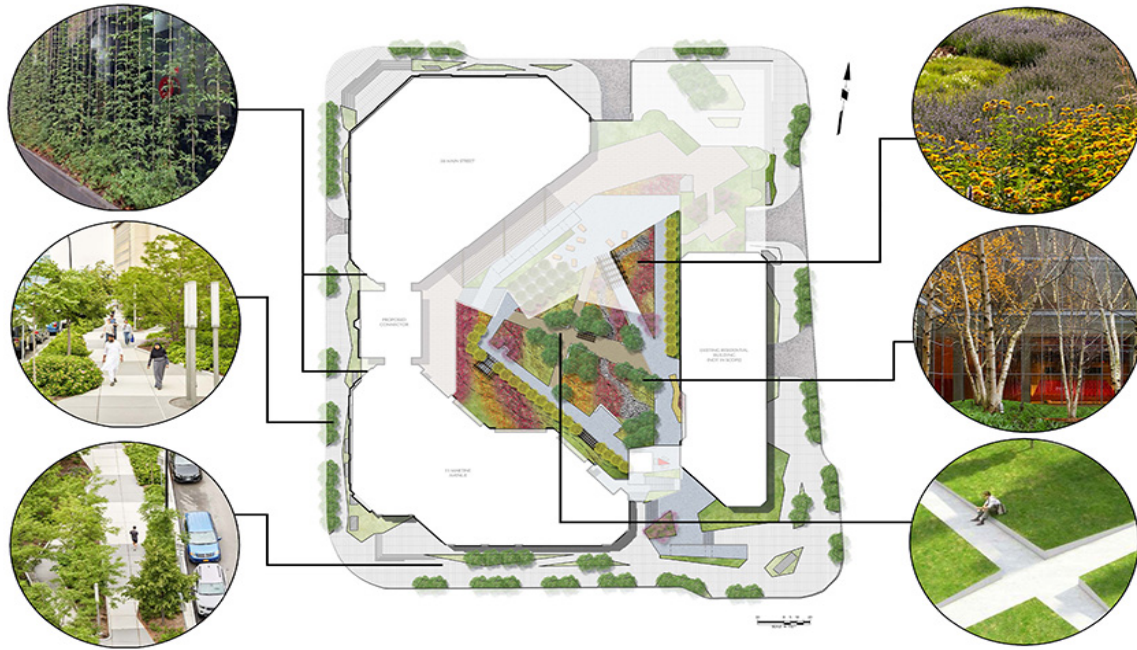
BRONX ZOO - CHILDREN'S ZOO

Location: Bronx, NY
Client: Wildlife Conservation Society
Partner: Duval & Stachenfeld LLP
Services: Environmental,

OVERVIEW

Langan was retained to complete State Environmental Quality Review Act (SEQR) Environmental Assessments for over 100 projects planned at the Bronx Zoo, including improvements and upgrades to the existing 1.7-acre Children's Zoo. As part of the SEQR process, Langan completed a Coastal Consistency Assessment that evaluated the projects' consistency with New York City's Waterfront Revitalization Program and New York State's Coastal Zone Management Program.

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WESTCHESTER FINANCIAL CENTER

Location: White Plains, NY

Client: Robert Martin Company, Warshauer Mellusi Warshauer
Architects

Services: Landscape Architecture,

OVERVIEW

The Westchester Financial Center consists of approximately 309,000 SF of existing Class A office space in downtown White Plains. Langan worked closely with the owner and architect to re-imagine this site in a much more pedestrian-friendly way. The main concept was to pull nature back into the concrete-heavy character of White Plains by incorporating ecological design. With this in mind, the streetscapes and 3-tier interior rooftop courtyards were designed using our concept of the Southern Taconic Ecological Precinct, or S.T.E.P. This unique design infuses the multi-level pedestrian space with an educational landscape that includes native species in varying layers of the local, southern New York landscape while creating an interactive outdoor office and café to enhance the office experience.

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VIA 57 WEST

Location: New York, NY
Client: The Durst Organization
Architect: Bjarke Ingels Group
Partner: Thornton Tomasetti, Hunter Roberts Construction Group
Services: Geotechnical, Site/Civil,

OVERVIEW

Regarded as a cross between Copenhagen-style residential courtyards and a New York City skyscraper, this mixed-use, 38-story residential building in Midtown West includes 709 residential units and ground floor retail space. A massive outdoor courtyard, cut into the center of the building, adds to the structure's unique pyramid-like shape. Langan performed extensive geotechnical and site/civil work including design of a bioswale; in addition, Langan produced a Stormwater Pollution Prevention Plan.

AWARDS

2017 ArchDaily Building of the Year
2017 Urban Land Institute Awards for Excellence in Development: Housing Development Finalist
2016 Engineering News Record New York, Best Projects Awards: Residential Hospitality

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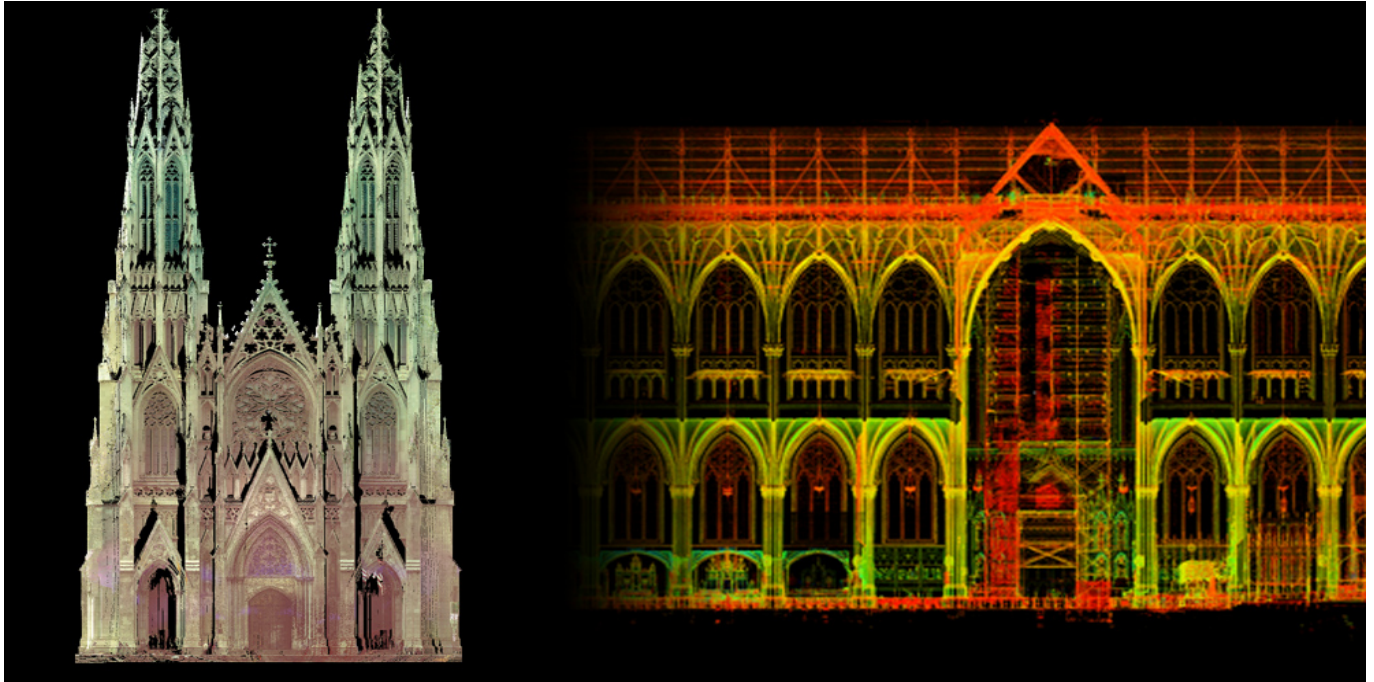
2016 New York Times, Best Architecture in New York

2016 Society of American Registered Architects New York, Excellence in Residential Design
Innovation Award

2015 6SQFT Building of the Year

2012 American Institute of Architects New York, Design Merit Award

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ST. PATRICK'S CATHEDRAL RESTORATION

Location: New York, NY
Client: St. Patricks Cathedral
Architect: Murphy Burnham & Buttrick Architects
Services: Terrestrial Scanning/BIM, Traditional Surveying, Geotechnical, Site/Civil,

OVERVIEW

St. Patrick's Cathedral publicly announced its restoration in 2012 after years of pollution critically deteriorated both the interior and exterior. Langan performed 3D laser scans of the façade, sanctuary, and attic spaces to document the conditions and model the building's unique layout. This highly detailed data saved the project team time and money, and the deliverables were regularly compared to the base survey to maintain accuracy.

AWARDS

2017 American Council of Engineering Companies, Engineering Excellence Awards, Honor Award
2017 American Council of Engineering Companies New York, Engineering Excellence Awards, Diamond
2016 Engineering News Record New York, Best Projects Awards: Cultural/Worship
2016 American Institute of Architects New York, Design Awards: Merit Award
2016 Municipal Art Society of New York, MASTerworks Awards: Best Restoration

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55 BANK STREET

Location: White Plains, NY
Client: LCOR Incorporated
Architect: SLCE Architects
Partner: Tadjer-Cohen-Edelson & Associates, Inc.
Services: Environmental, Geotechnical,

OVERVIEW

Langan provided engineering services for this transit-oriented mixed-use residential/retail development located approximately 25 miles north of Manhattan. The project offers 760,000 SF of useable space to the community. The development will include a 16-story, 288-unit residential building with ground retail space and 381 parking spaces. The next phase will include construction of a second 16-story building with 273 residences, retail space, and a combination of above and below ground parking for 189 vehicles.

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NEW YORK CITY POLICE ACADEMY

- Location:** College Point, NY
- Client:** New York City Police Department (NYPD), New York City Department of Design and Construction (NYCDDC)
- Partner:** Robert Silman Associates, Turner Construction Company
- Services:** Geotechnical, Site/Civil, Environmental, Natural Resources & Permitting, Traditional Surveying,

OVERVIEW

Langan is providing site/civil, geotechnical, environmental, natural resource, and survey services for this new 35-acre facility that will serve recruits, civilians, and in-service police. The project, which is expected to earn LEED certification, consolidates many of NYPD's existing training facilities currently spread throughout New York City. Langan played a major role in the replacement of existing tidal gates, which are critical in maintaining water levels and allowing water from the channel to flow through to Flushing Bay.

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WESTCHESTER COMMUNITY COLLEGE - GATEWAY CENTER

Location: Valhalla, NY
Client: Westchester Community College
Services: Site/Civil, Geotechnical, Traditional Surveying,

OVERVIEW

Langan provided site/civil and geotechnical engineering services for the new Gateway Center, the first ever LEED Gold certified structure in New York's Westchester County. The 70,000-SF site consists of three new buildings located within 218 wooded acres of Westchester Community College's northeastern quadrant.

AWARDS

New York Construction News: Higher Education/Research - Project of the Year
American Institute of Architects, New York Design Award: Architectural Merit Award

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OOSTEN CONDOMINIUM (429 KENT AVENUE)

Location: Brooklyn, NY
Client: R Black Global, XIN Development
Architect: Piet Boon, WASA/Studio A
Partner: Wexler Associates
Services: Site/Civil, Geotechnical, Environmental, Landscape
Architecture,

OVERVIEW

Langan provided multiple design and construction administration services for this new eight-story, 500,000 GSF condominium that encompasses an entire block along the South Williamsburg waterfront. Langan's environmental engineers established a Remedial Action Plan (RAP) and Construction Health and Safety Plan (CHASP) to remediate approximately 95,000 SF of property. Langan's geotechnical staff completed a subsurface investigation, seismic evaluations, and provided recommendations for foundation design and construction. Site/civil engineering services included full engineering sets from schematic to final bid documents, and landscape design services included designs for ground level planting and three levels of rooftop amenity space.

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BRONX TERMINAL MARKET

Location: Bronx, NY
Client: The Related Companies
Architect: GreenbergFarrow, BBGM
Partner: Thornton Tomasetti
Services: Environmental, Geotechnical, Site/Civil,

OVERVIEW

Adjacent to the Harlem River and immediately south of Yankee Stadium, the redevelopment of the 18-acre portion of the Bronx Terminal Market included demolition of several of existing buildings, and development of approximately one million square feet of new retail, restaurant and neighborhood services, structured parking for 2,800 vehicles, and a 250-unit hotel.

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FORDHAM UNIVERSITY LAW SCHOOL - UPPER WEST SIDE CAMPUS

Location: New York, NY

Services: Site/Civil, Environmental, Geotechnical,

OVERVIEW

The new Fordham University Law School is part of Fordham's 15-year master plan expansion for its Upper West Side campus. A 22-story tower is expected to house up to 430 undergraduate students and the nine-story lower level will house lecture halls, library and conference spaces with the remaining upper stories housing dormitory and mechanical spaces. Langan provided a variety of services and made recommendations for limiting the effects of vibrations and movements of adjacent structures during construction.

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WESTCHESTER COUNTY AIRPORT HANGAR D-1

Location: White Plains, NY
Client: Morgan Stanley
Services: Environmental,

OVERVIEW

Langan investigated environmental issues associated with leasing 26,000 SF of hangar and office space at the Westchester County Airport to house their corporate jet fleet. The hangar was formerly leased by Mobil Oil Corporation during which time spent solvents leaked into the ground beneath the hangar floor from a drum storage area.

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