



Kelly DeGuzman – Senior Environmental Analyst

SKILLS AND EXPERIENCE

Ms. DeGuzman is an environmental scientist at Capital Environmental Consultants, Inc. with 15 years of experience performing ecological investigations and stormwater analyses in urban and rural environments. Her areas of expertise include stormwater permitting, stormwater pollution prevention plans, erosion and sedimentation plans, freshwater and tidal wetland delineation, wetland permitting and mitigation development, natural resource inventory, and State Environmental Quality Review/Environmental Impact Statements (SEQR/EIS). Kelly specializes in performing critical analyses necessary to determine the extent of USACE, NYSDEC and local regulatory wetland boundaries on project sites.

EDUCATION

- Auburn University, Master of Science, Crop and Soil Science, 2024
- Auburn University, Graduate Certificate Program, Crop and Soil Science, 2022
- SUNY New Paltz, Bachelor of Science, Geology, 2018
- SUNY Orange, Dual Associates in Science, Engineering and Physics, 2010

CONTINUING PROFESSIONAL EDUCATION

Wetland Delineator Program, Rutgers University

- Vegetation Identification
- Methodology for Delineating Wetlands

NYSDEC Certificate of Erosion and Sediment Control Training

- 2017, 2019, 2022

Cornell Cooperative Extension of Orange County - The Practicing Institute of Engineering, Inc.

- When it Rains - Stormwater Hydrology (2017)
- Maintenance and the New MS4 Permit (2017)
- Constructed Wetlands (2017)



- The New Blue 2 - New E&SC Practices/2016 Edition of Blue Book (2017)
- The Stormwater Construction Permit (2023)
- NYSDEC Stormwater Management Design Manual Updates (2023)
- The New Design Manual (2025)
- The New Stormwater Construction Permit (2025)
- Adapting To a Changing Climate (2025)

AFFILIATIONS

- New York State Floodplain and Stormwater Managers Association
- New York State Wetlands Forum
- New York Flora Association

EXPERTISE

Stormwater Analyses in urban and rural environments

- Stormwater Construction Permitting
- Stormwater Pollution Prevention Plans
- Erosion and Sediment Control Plans

Wetlands

- Delineation
- Permitting
- Mitigation Planning and Monitoring

Ecological Assessments

- Natural Resource Inventories
- Vegetation Identification
- Ecological Community Assessment



REPRESENTATIVE PROJECTS

NYCDEP/NYSDEC Construction Stormwater Pollution Prevention Plan (SWPPP). Schmeig Avenue

Warehouses, Staten Island, New York

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, and obtained coverage under the NYSDEC State Pollution Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity General Permit Number (GP-0-25-001) and a NYC Stormwater Construction Permit for the construction of two warehouse facilities located in southern Staten Island. The project is sited over a deep clay stratum, not suitable for traditional infiltration practices. Ms. DeGuzman worked closely with NYCDEP and their NYSDEC counterpart to devise a stormwater disposal concept that allows for the filtration of stormwater prior to disposal through sand column conduits and into the groundwater table, located greater than 30 feet below ground surface.

NYCDEP/NYSDEC Construction SWPPP. Bartlett Avenue Subdivision and Right-of-Way Improvements,

Staten Island, New York

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, in accordance with the NYSDEC SPDES GP-0-25-001, 2024 New York State Stormwater Management Design Manual (NYS SMDM), 2022 New York City Unified Stormwater Rule and 2024 NYC Stormwater Manual to obtain a NYC Stormwater Construction Permit for this four (4) unit residential subdivision. Ms. DeGuzman assisted in the design of discrete residential rain gardens, underground infiltration practices, and, within the privately-owned right-of-way, NYCDEP-approved pre-cast porous concrete panels.

NYCDEP/NYSDEC Construction SWPPP. Union Avenue Subdivision, Staten Island, New York

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, and obtained a NYC Stormwater Construction Permit for this twenty-nine (29) unit residential subdivision. Located in northern Staten Island, Ms. DeGuzman gained approval for the residential subdivision which included development of a private roadway and sidewalks, not constrained by the limited stormwater practices allowed within a public right-of-way.

NYCDEP/NYSDEC Construction SWPPP. Cole Street Residential Subdivision, Staten Island, New York

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, and obtained a NYC Stormwater Construction Permit for this initial phase including four (4) units of a fifty-three (53) unit residential subdivision. Ms. DeGuzman encouraged the use of residential stormwater planters to function in tandem with drywells to meet NYC's tier-1 practice requirement and maintain pre-construction peak discharge rates under post-construction conditions. Future phases of the residential subdivision will uniquely include development of the privately-owned lots as roadways which will be adopted by the City of New York.



NYCDEP/NYSDEC Construction SWPPP. Palisade Avenue, Bronx, New York

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, and obtained a NYC Stormwater Construction Permit for this two (2) unit residential subdivision. This small, yet complex, site consisted of two drainage areas discharging to a combined sewer system (CSS) and a municipal separate storm sewer system (MS4), resulting in widely variable design requirements. Utilizing the areas tributary to each watershed, Ms. DeGuzman methodically determined the applicable stormwater management requirements and associated SMP sizing for each drainage area.

NYCDEP Construction SWPPP. Homeless Shelter at 2443 Poplar Street, Bronx, New York

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, and obtained a NYC Stormwater Construction Permit for this community facility. This 200-bed single men's homeless shelter within Westchester Square implemented stormwater planters and drywells to avoid connection to the combined sewer system, avoiding impacts to the City's infrastructure. Ms. DeGuzman aided in the design of the stormwater management practices (SMPs) to meet City and State regulations while maintaining recreational areas and necessary parking required to support such a development.

NYCDEP/NYSDEC Construction SWPPP. Tennyson Drive Subdivision, Staten Island, New York

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, and obtained a NYC Stormwater Construction Permit for this thirty (30) unit residential subdivision. The project site is located just feet away from the Great Kills Harbor shoreline and exhibited substantial site constraints including high groundwater table and soils with high organic and clay content, resulting in inadequate infiltration capability. To overcome these limitations, Ms. DeGuzman conceptually designed stormwater planters to achieve the minimum runoff reduction, a detention system to meet the NYC sewer operations volume, and a Jellyfish filter to treat the water quality volume prior to discharge to the sewer.

NYCDEP/NYSDEC Construction SWPPP. Arthur Kill Road Commercial Facilities, Staten Island, New York

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, and obtained coverage under the NYSDEC SPDES GP-0-25-001 and a NYC Stormwater Construction Permit for two (2) commercial facilities. Ms. DeGuzman navigated highly variable soil conditions by implementing soil sampling contingency plans during project design and similar plans during SMP installation to ensure the proposed practices will function as designed. She classified landscaped areas as stormwater planters, allowing for simple integration of NYC tier-1 practices with minimal project redesign.

NYCDEP/NYSDEC Construction SWPPP. Eltingville Boulevard Subdivision and Right-of-Way Improvement, Staten Island, New York

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, and obtained coverage under the NYSDEC SPDES GP-0-25-001 and a NYC Stormwater Construction Permit for this



ten (10) unit residential subdivision, inclusive of sidewalk reconstruction. Ms. DeGuzman aided to incorporate discrete rain gardens within the front yard of the residences to satisfy NYC's tier-1 practice requirement.

NYCDEP/NYSDEC Construction SWPPP. Remedial Fill Removal, Zerega Avenue, Bronx, New York

Ms. DeGuzman prepared an "erosion and sediment control only" SWPPP, for the initial phase of site remediation and redevelopment. Located adjacent to the shoreline environmental enhancement project, Ms. DeGuzman obtained local and state stormwater construction permits for this phase of development to facilitate the timely removal of contaminated materials within sampling timeframes.

NYCDEP/NYSDEC Construction SWPPP. Graves Street Subdivision, Staten Island, New York

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, and obtained coverage under the NYSDEC SPDES GP-0-25-001 and a NYC Stormwater Construction Permit. This redevelopment entailed conversion of recreation ballfields into a thirty-two (32) unit residential subdivision. Ms. DeGuzman assisted with siting the underground infiltration practices based on the variable depth to bedrock, revealed during the geotechnical phase of development. The sloped site required succinct construction phases and subsequent erosion and sediment controls to ensure only the minimum soil disturbance occurred at any given time.

NYCDEP/NYSDEC Construction SWPPP. Future New York Public Library, Woodrow Road, Staten Island, New York

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, and obtained coverage under the NYSDEC SPDES GP-0-25-001 and a NYC Stormwater Construction Permit for the community facility located within south-central Staten Island. Ms. DeGuzman cross-referenced several City and State requirements to ensure landscaped areas were capable of satisfying the requirements of all agencies involved. Stormwater planters and bioretention areas were designed to function in tandem with drywells to meet NYC's tier-1 practice requirement and maintain pre-construction peak discharge rates under post-construction conditions.

NYCDEP/NYSDEC Construction SWPPP and NYCDEP Stormwater Maintenance Permitting. Bionia Avenue Subdivision, Staten Island, New York

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, and obtained coverage under the NYSDEC SPDES GP-0-20-001 and a NYC Stormwater Construction Permit for this twelve (12) unit residential subdivision. Following construction and final stabilization, Ms. DeGuzman navigated the NYC Stormwater Maintenance Permitting program for each individual residence, accounting for site design changes during construction, and provision of as-built and operation and maintenance plans.



NYCDEP/NYSDEC Construction SWPPP. Shoreline Environmental Enhancement Project, Zerega Avenue, Bronx, NY

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, and obtained coverage under the NYSDEC SPDES GP-0-20-001 and a NYC Stormwater Construction Permit for the shoreline enhancement project required under a NYSDEC consent order. Ms. DeGuzman worked with NYCDEP staff to ensure the Stormwater Construction Permit was received swiftly so that the project could remain within the legal timeframes associated with the schedule of compliance. She continues to assist this project through completion of the Notice of Termination.

NYSDEC Industrial SWPPP. Big Apple Ready Mix, Inc. Meredith Avenue, Staten Island, New York

Ms. DeGuzman prepared an industrial SWPPP in accordance with the NYSDEC SPDES General Permit for Stormwater Discharges Associated with Industrial Activity (GP-0-23-001), under Sector E – Glass, Clay, Cement, Concrete and Gypsum Products. The SWPPP incorporated best management practices (BMPs) and semi-annual monitoring protocols for the concrete ready-mix facility located in northwestern Staten Island. Ms. DeGuzman devised BMP upgrades, including a new trench drain system, increased concrete washout capacity, and protocols, and the facility was able to satisfy the responsibilities of the general permit. Ms. DeGuzman continues to aid via oversight of the monitoring program, discharge monitoring reporting, and annual compliance reporting.

NYCDEP/NYSDEC Construction SWPPP. Hemlock Street Subdivision, Staten Island, New York

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, and obtained coverage under the NYSDEC SPDES GP-0-20-001 and a NYC Stormwater Construction Permit for the seven (7) unit residential subdivision. Incorporating rain gardens with minimal loss to usable yard area, Ms. DeGuzman received NYCDEP approval for this project, making it the first residential subdivision and full-depth right-of-way construction to receive coverage under the NYCDEP stormwater construction permitting program.

NYCDEP/NYSDEC Construction SWPPP. Forest Avenue Commercial Parking, Staten Island, New York

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, and obtained coverage under the NYSDEC SPDES GP-0-20-001 and a NYC Stormwater Construction Permit for the construction of a commercial parking facility located within northern Staten Island, in accordance with State and local regulations. Ms. DeGuzman integrated NYC zoning perimeter and interior planting requirements and the NYSDEC bioretention design to meet both state and local regulations and the achieve necessary require runoff reduction and water quality volumes.

NYSDEC Industrial SWPPP. Hughes Brothers, Inc., Columbia Street, Brooklyn, New York

Ms. DeGuzman prepared an industrial SWPPP in accordance with the NYSDEC SPDES General Permit for Stormwater Discharges Associated with Industrial Activity (GP-0-23-001), under Sector R – Ship & Boat Building



or Repair Yards. The SWPPP incorporated best management practices (BMPs) and monitoring protocols for the dry dock facility located in the Erie Basin in Brooklyn. Ms. DeGuzman continues to aid via oversight of the monitoring program and annual compliance reporting.

Wetland Delineation & Natural Resources. Matrix Global Logistics Park West Campus. Staten Island, New

York.

Ms. DeGuzman reconfirmed the wetland delineation for the 72-acre site encompassing a wide variety of environments and secured freshwater and tidal wetland jurisdictional determinations from both the NYSDEC and USACE. Ms. DeGuzman also designed and implemented a natural resource inventory for the characterization of ecological communities. Surveys were conducted over four seasons to assess the native flora and fauna and presence of threatened and endangered species. The data obtained from these surveys were compiled and used to compose the Natural Resources section of the Environmental Impact Statement (EIS) that was developed for the project to meet CEQR standards.

NYCDEP/NYSDEC Construction SWPPP. Richmond Avenue, Staten Island, New York

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, for the construction of a three-story ambulatory care facility and associated parking located within the Sandy Hook-Staten Island watershed, in accordance with the NYSDEC SPDES GP-0-20-001, 2015 New York State Stormwater Management Design Manual (NYS SMDM), and 2022 New York City Unified Stormwater Rule and NYC Stormwater Manual. The project location posed a significant site constraint as the project was landlocked and was unable to discharge to a wetland, waterbody, or sewer. Ms. DeGuzman determined sufficient infiltration rates existed to efficiently infiltrate the 100-year, 24-hour rainfall event, satisfying both NYSDEC and NYCDEP permitting requirements and obtaining the necessary permit approvals.

Wetland Delineation and Permitting, Detroit Avenue. Staten Island, New York.

Ms. DeGuzman performed a wetland delineation for a residential site adjacent to a NYCDEP Bluebelt. Ms. DeGuzman coordinated with team members to ensure the freshwater wetland permit was secured from the NYSDEC in a timely and efficient manner.

NYCDEP and NYSDEC Construction SWPPP. East 149th Street, Bronx, New York

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, for the redevelopment of a disturbed site with a multi-story warehouse, a parking garage, and associated parking located within the Bronx watershed, in accordance with the NYSDEC SPDES GP-0-20-001, 2015 NYS SMDM, and 2019 New York City Stormwater Design Manual. The project was subject to site constraints including, but not limited, to insufficient permeability for infiltration practices and a high groundwater table. Stormwater management practices proposed an underground infiltration system within an extremely limited area and included an alternative plan for implementation of an intensive green roof. Following NYSDEC and NYCDEP approvals, development plans were altered, and Ms. DeGuzman assisted with updating the SWPPP and



obtaining the subsequent NYCDEP modification approval.

NYCDEP and NYSDEC Construction SWPPP. Grand Avenue, Maspeth, New York

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, for the construction of a one-story warehouse facility, associated parking, and loading docks located within the Lower Hudson watershed, in accordance with the NYSDEC SPDES GP-0-20-001, 2015 NYS SMDM, and 2019 New York City Stormwater Design Manual. The stormwater management practices required several deviations from the technical manuals due to site constraints including, but not limited to, insufficient permeability for infiltration practices, a high groundwater table, and structural constraints. The engineered solution entailed excavation of the insitu low-permeability soils, installation of the underground infiltration system, and backfill with engineered, permeable soil. Proposed deviations were reviewed by both NYSDEC and NYCDEP staff and deemed equivalent to the technical standard. Following coverage under NYSDEC SPDES GP-0-20-001 and receipt of the NYCDEP stormwater construction permit, Ms. DeGuzman assisted with updating the SWPPP and obtaining the subsequent NYCDEP modification approvals.

Wetland Delineation and Natural Resources, Novartis Campus. Suffern, New York

Ms. DeGuzman delineated and confirmed the wetland delineation for the 162-acre site encompassing a wide variety of environments, watercourses and waterbodies and secured the jurisdictional determination and standard Individual permit from the USACE. Ms. DeGuzman performed a natural resource inventory for the characterization of ecological communities. Surveys were conducted over four seasons to assess the native flora and fauna and presence of threatened and endangered species. The data obtained from these surveys were compiled and used to compose the Natural Resources section of the Environmental Impact Statement (EIS) that was developed for the project to meet municipal and SEQR standards.

Wetland Delineation. Ramapo, New York.

Ms. DeGuzman reconfirmed the wetland delineation for the 200-acre site encompassing a wide variety of environments, watercourses and waterbodies and again secured jurisdictional determinations from both the NYSDEC and USACE.

Wetland Delineation and Permitting, Englewood Avenue. Staten Island, New York.

Ms. DeGuzman performed a wetland delineation, developed mitigation and restoration plans, and secured freshwater wetland permit in accordance with the stringent timeframes of a Modified Consent Order.

NYSDEC Industrial SWPPP, LMC Trucking Corp. Chelsea Road, Staten Island, NY

Ms. DeGuzman prepared an industrial SWPPP in accordance with the NYSDEC SPDES General Permit for Stormwater Discharges Associated with Industrial Activity (GP-0-17-004), under Sector P – Land Transportation and/or Warehousing facilities. The industrial SWPPP outlines the required erosion and sediment controls, best management practices, and semi-annual and quarterly monitoring protocols required to remain in compliance



with GP-0-17-004. Ms. DeGuzman continues to aid via oversight of the monitoring program, discharge monitoring reporting, and annual compliance reporting.

Wetland Delineation and Permitting, Amboy Road. Staten Island, New York.

Ms. DeGuzman performed a wetland delineation for a residential site adjacent to a NYCDEP Bluebelt. Ms. DeGuzman coordinated with team members to ensure the freshwater wetland permit was secured from the NYSDEC in a timely and efficient manner.

NYSDEC Construction SWPPP. Ellis Street, Staten Island, New York

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, for the construction of a three-story self-storage facility and associated parking located within the Sandy Hook-Staten Island watershed, in accordance with the NYSDEC SPDES GP-0-20-001 and 2015 NYS SMDM. The stormwater management practices required careful placement to ensure strict compliance with the NYS SMDM due to site constraints including, but not limited, placement of approximately 10 to 14 feet of clean fill required to meet the grade at Ellis Street. Proper stormwater controls ensured all stormwater falling on the development flowed to the adjacent tidal wetland/Arthur Kill, relieving burden to the NYC Municipal Separate Storm Sewer (MS4) and maintained compliance with the NYSDEC issued Tidal Wetlands Permit.

Wetland Delineation and Permitting, Poillon Avenue. Staten Island, New York.

Ms. DeGuzman performed a wetland delineation for a residential site adjacent to NYC's Blue Heron Park. Ms. DeGuzman carefully reviewed the development plans to determine applicability of the NYSDEC Freshwater Wetland General Permit and received the NYSDEC permit authorizations in the most efficient manner.

NYSDEC Industrial SWPPP, Richmond Precast, Inc. Chelsea Road, Staten Island, NY

Ms. DeGuzman prepared an industrial SWPPP in accordance with the NYSDEC SPDES GP-0-17-004, under Sector E – Glass, Clay, Cement, Concrete and Gypsum Products. The industrial SWPPP outlines the required erosion and sediment controls, best management practices, and semi-annual and quarterly monitoring protocols required to remain in compliance with GP-0-17-004. Ms. DeGuzman continues to aid the facility during NYCDEP inspections and with the oversight of the monitoring program, discharge monitoring reporting, and annual compliance reporting.

NYSDEC Industrial SWPPP, Richmond Ready Mix, Chelsea Road, Staten Island, NY

Ms. DeGuzman prepared an industrial SWPPP in accordance with the NYSDEC SPDES GP-0-17-004, under Sector E – Glass, Clay, Cement, Concrete and Gypsum Products. The industrial SWPPP outlines the required erosion and sediment controls, best management practices, and semi-annual and quarterly monitoring protocols required to remain in compliance with GP-0-17-004. Ms. DeGuzman continues to aid the facility during NYCDEP inspections and with the oversight of the monitoring program, discharge monitoring reporting, and annual compliance reporting.



Wetland Delineation, Kreischer Street. Staten Island, New York

Ms. DeGuzman delineated and confirmed the wetland delineation, scientifically determining the extent of tidal influence for the inland site and secured the jurisdictional determination from USACE.

Wetland Delineation, Seagirt Avenue. Far Rockaway, New York

Ms. DeGuzman delineated and confirmed the wetland delineation, scientifically determining the extent of tidal influence for the coastal site and secured the jurisdictional determination from USACE.

NYSDEC Construction SWPPP. Richmond Valley Road, Staten Island, New York

Ms. DeGuzman prepared a construction SWPPP, inclusive of phased sediment and erosion control plans, for the construction of a subdivision with 35 residences and associated internal, private roadway construction located within the Sandy Hook-Staten Island watershed, in accordance with the NYSDEC SPDES GP-0-20-001 and 2015 SMDM. Properly sized stormwater management practices were implemented onsite to ensure that the water quality volume storm was effectively reduced and that, following construction, the site discharged stormwater at predevelopment 1-, 10-, and 100-year, 24-hour storm rates.

NYSDEC Construction SWPPP. Purdy Place, Staten Island, New York

Ms. DeGuzman prepared a SWPPP, inclusive of sediment and erosion control plans, for the construction of a subdivision with 14 residences and associated utility connections located within the Sandy Hook-Staten Island watershed, in accordance with the NYSDEC SPDES GP-0-20-001 and 2015 SMDM. The site discharged to the NYC MS4, as approved by the NYCDEP Bureau of Sewer and Water Operations. Erosion and sediment controls were implemented and maintained in compliance with the NYSDEC issued Tidal and Freshwater Wetlands Permit.

Wetland Delineation & Natural Resources. South Avenue Retail Development. Staten Island, New York.

Ms. DeGuzman performed a wetland delineation for the 28-acre site encompassing a wide variety of environments and secured freshwater and tidal wetland jurisdictional determinations from both the NYSDEC and USACE. Ms. DeGuzman performed a natural resource inventory for the characterization of ecological communities. Surveys were conducted over four seasons to assess the native flora and fauna and presence of threatened and endangered species. The data obtained from these surveys were compiled and used to compose the Natural Resources section of the Environmental Impact Statement (EIS) that was developed for the project to meet CEQR standards.

Wetland Permit Modification and Variance, Mansion Avenue. Staten Island, New York

Ms. DeGuzman prepared a NYSDEC permit modification package for a project requiring a NYSDEC variance for the reduction in the width of the wetland buffer. She secured the permit modification through development of an appropriate mitigation plan for rehabilitation of a degraded ditch in exchange for the reduced buffer.



Wetland Delineation, Androvette Street. Staten Island, New York.

Ms. DeGuzman performed a tidal and freshwater wetland delineation for a vacant site along the Arthur Kill. She analyzed vegetation and wildlife to determine the onsite extent of each wetland type, prepared a wetland delineation report, and secured a jurisdictional determination from USACE.

Tidal Wetland and Coastal Erosion Hazard Area Permitting, Oceanic Avenue. Staten Island, New York.

Ms. DeGuzman prepared a NYSDEC tidal wetland and CEHA permit application package, inclusive of pre- and post-development coverage analyses and mitigation planting plans, for a residential redevelopment along the shoreline of the Raritan Bay. She secured the necessary NYSDEC permits for the redevelopment project.

Mitigation Planning, Manhattan Beach. Brooklyn, New York.

Ms. DeGuzman developed a mitigation planting plan and stormwater analysis for a private esplanade along a tidal wetland and within a coastal erosion hazard area originally damaged by Superstorm Sandy. She secured NYSDEC approval and coordinated implementation of the mitigation plan.

Wetland Permitting and Environmental Assessment Statement, Tyrellan Avenue. Staten Island, New York.

Ms. DeGuzman compiled data from seasonal surveys conducted to assess the native flora and fauna and presence of threatened and endangered species for development of an Environmental Assessment Statement and used in support of obtaining project approvals with NYCDPCP.

Wetland Delineation, Natural Resource Inventory, Outerbridge Commons. Staten Island, New York.

Ms. DeGuzman performed a wetland delineation for the 11.5 -acre commercial site encompassing a freshwater wetland and associated watercourse. She secured jurisdictional determinations and subsequently NWPs and freshwater wetland permits from the USACE and NYSDEC, respectively. Ms. DeGuzman also performed a natural resource inventory for the characterization of ecological communities and associated wildlife. Seasonal surveys were conducted to assess the native flora and fauna and presence of threatened and endangered species. The data obtained from these surveys were compiled and used in support of meeting CEQR requirements and obtaining project approvals.

Wetland Delineation, Wallkill, New York.

Ms. DeGuzman performed a wetland delineation for the 200+-acre site encompassing a wide variety of environments, watercourses, and waterbodies in preparation for jurisdictional determinations from both the NYSDEC and USACE.

Wastewater Sampling at Industrial Facilities. Allendale and Mahwah, NJ.

Ms. DeGuzman performed the monthly wastewater sampling for two industrial facilities. She provided the facilities with their monthly wastewater reports including flow records and sample analysis. Ms. DeGuzman coordinated directly with the laboratories to analyze and interpret sampling results to ensure client were



providing their local utilities authority with accurate information.

Monitoring and Maintenance of Site Remediation Operations. Brooklyn, New York.

Ms. DeGuzman assisted in performing routine maintenance, monitoring and reporting on the air sparge/soil vapor evaporation system that continuously cleaned the contaminated soil and groundwater underneath the center. Her monthly trips included monitoring groundwater levels and dissolved oxygen content, volatile organic compound levels, and operating pressures. Groundwater sampling was executed at semi-annual intervals and annual reports were submitted to the NYSDEC.