

NJM Insurance Corporate Campus

*New Jersey Manufacturers Insurance Company
Town of Hammonton, NJ*

Princeton Hydro was contracted by the NJM Insurance Group (NJM) to provide environmental, geotechnical and stormwater management design services for the construction of their new 55-acre corporate campus. We worked with the project's team to develop a concept plan that could be built within the context of proper stormwater management and meet the stringent requirements of the NJ Pinelands Comprehensive Management Plan.

Due to a number of site physical constraints, the site was designed to contain nearly all stormwater runoff on site, up to and including the 100-year frequency, 24-hour duration storm event. To accomplish this ambitious goal, the project infiltrates stormwater in a number of bioretention and infiltration basins and parking lot islands, a wetland basin, and a bioretention island. All infiltration areas were designed using a "dig and drop approach" where the underlying soils were excavated and put back in place to improve the underlying recharge capabilities of the soils. Additionally, a 120,000 gallon below-grade cistern will capture roof runoff for use in on-site irrigation.

Because the site was contaminated by historic pesticide residue, Princeton Hydro was contracted to delineate the extent of contamination using a combination of Global Positioning Systems and Geographic Information Systems. We then prepared an application for a voluntary clean-up through soil excavation and off-site disposal of the contaminated soil, the actual volume of which we correctly estimated. We oversaw the remediation to ensure compliance with the Remedial Action Workplan and the soil erosion and sediment control plan. Upon completion of the Remedial Action, we prepared the Remedial Action Report and subsequently received a No Further Action for the site.

Princeton Hydro also completed geotechnical investigations for the proposed development, including investigations for building foundations, parking lot and drive subgrades and stormwater infiltration with all laboratory testing completed in-house. Recommendations were prepared regarding foundations types and settlement predictions, seismic conditions and classifications, pavement section design, and stormwater infiltration parameters and recommendations. Our Certified Professional in Erosion and Sediment Control™ utilized the site's natural topography and design grades to develop the site in a controlled manner and develop the soil erosion and sediment control phasing plan.

During construction, Princeton Hydro provided monitoring services for all earthwork activities. Our staff was on site full time during critical activities of site work to ensure that the project was built in accordance with the intent of the original design and ensure the maintenance of the project schedule. Our geotechnical engineers reviewed shop drawings of subsurface structures and provided field engineering and consultation to the general contractor when specific field conditions differed from that anticipated during the investigation.

