



# MATRIX **NEW** WORLD

Engineering Progress

## ENVIRONMENTAL IMPACT ASSESSMENT

### **Matrix navigates complexity.**

Matrix New World Engineering's (Matrix's) Environmental Impact Assessment (EIA) capabilities are built on more than 25 years of nationwide consulting experience. With a reputation for crafting NEPA and state-equivalent documents with precision and accuracy, our experience and proficiency in transportation, aviation, marine, water/wastewater, coastal resiliency, energy, other infrastructure, and disaster response enables us to manage impact assessment projects across a broad range of sectors.

Assessments come in many forms, depending on the project location and regulatory requirements of the project sponsor. Matrix's team of scientists, consultants, and project managers understand that EIA is often critical to a project's timely success. Through diligent coordination and communication with regulatory agencies, Matrix streamlines the time-consuming impact assessment process. We strive to avoid project delays by identifying environmental constraints early in the design phase, using strategic early public and agency outreach, and incorporating required studies and issue framing in initial project development.

Successful projects have minimal environmental impact. Matrix focuses on solving problems related to natural resources and the human/built environment, strategically identifying project issues, and employing minimization/mitigation measures that are technically feasible, cost effective, and easily implemented.

### **Key Project Experience**

- Environmental Noise Assessments
- Initial Studies
- Negative Declarations (NDs) & Mitigated NDs
- Scoping Reports
- Alternative Screening Reports
- Environmental Impact Analysis
- Programmatic Analysis
- Purpose & Needs Statements
- Physical Stream & Stream Quality Assessments
- Qualitative Habitat Indices
- Agency Coordination
- Phase I & II Environmental Site Assessments
- Storm Water Pollution Prevention Plans
- Permit & Grant Applications
- Air Quality Impact Assessments
- Biological Resource Assessments
- Cultural Resource Reports
- Wetland Delineations
- Land Use Consistency & Compatibility Analyses

### **Services provided**

- NEPA
- State & Local Equivalents (e.g., SEQRA; CEQR)
- USDOT Act Section 4(f)
- Land Use Studies & Planning
- Coastal Zone Consistency Review
- Population & Demographic Analysis
- Environmental Justice
- Wetland Delineation, Classification, & Restoration
- Threatened & Endangered Species Consultations/ Habitat Surveys/Essential Fish Habitat Assessments
- Natural Resource Damage Assessments
- Air Quality Assessments
- Noise & Vibration Monitoring
- Soil Contamination & Subsurface Investigations
- Hazardous Material Surveys
- Geotechnical & Hydrogeological Investigations
- Sediment Sampling & Analysis
- Water Quality Sampling
- Benthic Studies
- GIS/GPS Data Collection, Inventory, & Mapping

### **Contact**

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## Environmental Impact Assessment (EIA)

EIAs generally have common elements in common with the National Environmental Policy Act (NEPA). By informing and engaging the public involvement in government decisions on actions that impact their communities, EIA processes can foster the community engagement and support needed to make ensure development decisions are politically and environmentally sustainable.

## The National Environmental Policy Act (NEPA)

NEPA assessments provide the framework for environmental decision-making. NEPA requires federal agencies to consider and disclose the potential impacts of their proposed actions and evaluate reasonable alternatives. Matrix prepares all types of NEPA documents for federal agencies, including Environmental Assessments, Environmental Impact Statements, and Categorical Exclusion Reviews.



## Projects

- Puerto Rico Critical Port Facilities – NEPA EAs at multiple locations in Puerto Rico following Hurricane Maria (FEMA)
- LaGuardia Airport Access Improvement Project – Ecological & Hazardous Waste Sections of EA for proposed AirTrain facility between the airport & Willett’s Point Station (FAA)
- Tompkinsville Esplanade and Pier – NEPA EA for coastal resiliency/public access/facility rehabilitation project (NYCEDC)
- Crowninshield and Cressy Piers Replacement and Partial Seawall Rehabilitation – NEPA EA addressing baseline environmental conditions & project-specific & cumulative impact analysis (FEMA)
- Hunts Point Peninsula Resiliency Evaluation and Pilot Project – preliminary NEPA/SEQRA/CEQR environmental reviews, focusing on essential issues affecting proposed pilot projects (NYCEDC)
- Raise Shorelines Citywide Priority Implementation Projects – natural resource, topographic, property, utility, and bathymetric surveys; drainage analysis; and preparation of environmental review documents in accordance with CEQR law and regulations (NYCEDC)
- Privatization of Utilities Systems at the U.S. Military Academy (USACE)
- Development of a Community Activities Center at U.S. Military Academy at West Point (USACE)
- Phase II Electrical Upgrades at McGuire Air Force Base, NJ (USACE)
- Hazardous Waste Sections of EIS for Access to Region’s Core Project – constructing a new rail tunnel below Hudson River to connect NY and NJ (PANYNJ)
- Ecological and Hazardous Waste Sections of EA in response to New Jersey EO215 requirement for Reconstruction of Ambrose Brook Bridge, Middlesex County, NJ (NJT)



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