QUALIFICATIONS FOR
BOROUGH OF BERLIN

DECEMBER 3, 2019

2020 PROFESSIONAL POSITIONS

MUNICIPAL WATER & SEWER ENGINEER

Our experienced professionals look forward to working with you to meet your civil engineering, environmental, surveying, and planning needs!

www.erinj.com

ENVIRONMENTAL RESOLUTIONS, INC.

Engineers • Planners • Scientists • Surveyors

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December 3, 2019

Ms. Lois Sahina, RMC
Borough Clerk
Borough of Berlin
59 South White Horse Pike
Berlin, NJ 08009

Re: Request for Qualifications for the Position of Municipal Water & Sewer Engineer

Dear Ms. Sahina:

Enclosed please find Environmental Resolutions, Inc.'s (ERI) response to the Request for Qualifications issued for the above referenced position.

Environmental Resolutions Inc. is very familiar with the Borough of Berlin. Our firm has served as Special Projects Engineer 2016-Present, Municipal Engineer 1997-2004 and 2008-2009, Water & Sewer Engineer 1997 to 2010, Planning Board Engineer 2001-2008, and Planning Board Planner 2007-2008. In addition our firm has also provided engineering services for Borough projects which include Route 73/Berlin Circle Elimination Project, Water Meter Replacement Project, and Well #15 Redrilling & Wellhouse Project.

I am certain that the knowledge our firm has acquired about the issues and needs of Berlin Borough is an important asset that we are able to bring to the position. In addition, ERI has served as Sewer Engineer for numerous Southern New Jersey municipalities, therefore our professionals have vast knowledge and experience with providing consulting engineering services as well as resolving issues that the Borough may face.

ERI is a multi-disciplined firm with a strong background in all aspects of municipal engineering and planning, which allows us to offer you a comprehensive range of resources such as sewer operations assistance, treatment plant and pump station design improvements, collection system studies, evaluation and upgrade/replacement projects. We also provide concept plan development, grant applications, design engineering, traffic engineering, construction management and inspection services. We are confident that, given the opportunity, ERI could provide the Borough with the engineering services it may require. We encourage you to contact our references to verify our qualifications and to gain a sense of the customer satisfaction that exists among our clients.

Thank you for taking Environmental Resolutions, Inc.'s proposal into consideration. Please feel free to contact me at 856-235-7170 with any questions or if you require any additional information. Also, I look forward to the opportunity to meet with Borough officials to answer any questions they may have regarding our qualifications, experience and availability.

Sincerely,

Christopher J. Noll, PE, CME, PP
President and CEO

CJN/nah

Enclosure

Stacey Arcari, PE, CME, PTOE, PP
Timothy Kaluhiokalani, LLA, PP
Anthony R. Lopez, PE, CFM
José Ruiz-del-Valle, PLS
Karen Hermack, PE

Andrew J. Orsino, NICET III
John T. Potts, NICET III, W-2, T-2
Charles Sabatini, PE, CME, CPWM, PP
Edward E. Fox, III, AICP, PP

John L. Scott, Jr., PLS, NICET III
Rohan Tadas, CHMM, LSRP
Neil J. Werket, LLA, RLA
Kathryn Haywood, PE, CFM
Mathew Kensler, NICET III

Table of Contents

ENVIRONMENTAL RESOLUTIONS, INC.

Section 1: Scope of Services

- Executive Summary
- Firm Capabilities
- Knowledge of the Borough of Berlin
- Meeting Availability
- Description of Services
- Relevant Experience

Section 2: Résumé

- Business Information
- Staffing Plan
- Résumés/Licenses
- Past and Present Public Entities Represented
- Staff Licenses and Certifications
- Certificates
- Professional References
- Insurance
- Statements

Section 3: Facilities

Section 4: Conflicts of Interest

Section 5: Fee Proposal

ENVIRONMENTAL RESOLUTIONS, INC.

Engineers • Planners • Scientists • Surveyors

Section 1: Scope of Services

ENVIRONMENTAL RESOLUTIONS, INC.

Engineers • Planners • Scientists • Surveyors

Since its establishment in 1990, Environmental Resolutions, Inc. (ERI) has concentrated on assisting clients succeed in meeting their environmental, engineering, design and land use planning goals. We are proud of our reputation for delivering environmentally conscious and cost effective projects that bring lasting value to our clients.

Environmental Resolutions, Inc. has a long history of providing our clients with water and wastewater solutions. However, our Water & Wastewater staff has numerous years of experience in the field which is drawn upon daily to provide our clients with the best possible service. Environmental Resolutions, Inc. has conducted many investigations of various aspects of existing collection systems and treatment facilities as well as studying and designing proposed systems and facilities. Our firm is capable of providing our clients with personal and custom tailored engineering services for any sized project. In addition to professional engineers and planners, the ERI staff also consists of licensed water and wastewater operators giving us actual hands on perspective to those systems.

ERI performs municipal engineering services for numerous municipalities, utility agencies, planning and zoning boards, environmental commissions, and public works departments. Typical services include comprehensive reviews of development applications, design and preparation of specifications for municipal infrastructure projects, preparation of applications for loans and grants, and construction observation to guarantee projects are completed in accordance with sound engineering principles.

Utility projects designed by ERI include the rehabilitation of wells, replacement of sanitary sewer mains, potable water wells and well houses, upgrades to existing pump stations and instrumentation and control projects at sewage and water treatment plants. We have performed the construction observation services necessary to ensure that the projects meet the specifications and deadlines required by the client.

Our firm has the ability to accept full responsibility for construction design and management, including scheduling, payments, change orders, observation and material testing. This flexibility has enabled us to meet the needs of our clients on a variety of projects ranging from several thousand to several million dollars.

ERI performs all monitoring and reporting of collection systems, maintains pumping stations, provides the cleaning and maintaining of the trash racks, site maintenance, operational adjustments, corrective, and preventative maintenance and all other required tasks under operational assistance. System monitoring and reporting includes the recording of all pertinent flow summaries, electrical usage, and general system levels and providing detailed reports on a monthly basis. In addition to routine maintenance, ERI can coordinate 24-hour emergency response.

ERI is very familiar with regulatory agencies, their policies, and regulations and have worked with these agencies for many years. In addition, ERI is very experienced with the NJDEP, USDA, and the NJEIT Fund and we have successfully secured millions of dollars in loans/grants for our clients.

Capabilities

ENVIRONMENTAL RESOLUTIONS, INC.

Civil Engineering
Municipal Engineering
Public Works Design
Construction Management
Construction Inspection
Plan Reviews
Bidding Services
Planning & Zoning Board Reviews
Roadway & Highway Design, Reconstruction and Restoration

Land Planning & Design Services
Redevelopment & Urban Design Concept Planning
Master Plans and Updates
Streetscape Design & Concept
Ordinance Reviews and Updates
Council on Affordable Housing Compliance
Landscape Design & Specifications
Grant Applications and Management
Historic Preservation

Solid Waste Management
Waste Characterization
Closure/Post Closure Plans
Construction Observation and Certification
Facility Design
Quality Control/Quality Assurance

Environmental Due Diligence
Phase I Environmental Site Assessments
Phase II & III Environmental Site Assessments
Environmental Impact Statements

Underground Storage Tanks
Complete UST/AST Design
Closures and Site Assessments
Construction Management

Wastewater Management
Waste Characterization
Treatability Studies
Sewage Treatment Plant Design
Septic System Design & Closure
Inflow and Infiltration Studies
Buildout Projects
Wastewater Management Plans
Pump Station Design
Collection System Management
Construction Management and Inspection
Plant Start Up
Build-Out Analysis
Plant Expansions and Upgrades
New Plant Construction
Daily Operations Assistance

Water Supply Management
Source Development
Surface Water Treatment Design
Distribution System Design
Ground Water Supply Design
Wellhouse Design
Wellhead Protection
Well Closure
Collection System Management

Licensed Site Remediation Professional Services
Preliminary Assessments
ISRA Investigations
Site & Remedial Investigations
Ecological Evaluations
Remedial Design & Oversight
HDSRF Grant Applications

Storm Water Management
Master Plan Elements & Ordinances
Collection Design
Runoff Characterization
Permitting and Monitoring
Floodplain Analysis & Management

Regulatory Permitting
Municipal, County, State and Federal permitting including:
NJDEP Freshwater Wetlands
NJDEP CAFRA
NJDEP Landfill Disruption
NJDEP Solid Waste Facility
NJDEP Waterfront Development Act
NJDEP Tidelands Conveyances (Grant, Lease, License)
NJDEP Groundwater Diversion
NJDEP Treatment Works Approval
NJDEP Bureau of Water System Engineering
NJDEP Flood Hazard Area
NJDEP Water Allocation
NJPDES - Discharge to Surface Water
NJPDES - Discharge to Ground Water
Soil Erosion and Sediment Control
Pinelands Commission
U.S. Coast Guard
U.S. Army Corps of Engineers

Educational Facilities
Athletic facility development
Site selection
School additions
Running Tracks
Drainage analysis

Parks and Recreation Services
Facility planning and design
Trails and Pathways
Sports fields and synthetic surfaces
Court facilities
Recreation Planning

Wetlands Services
Delineation
Mitigation Plans
Permitting
Monitoring

Surveying Services
Green Acres, Farmland, and Open Space Preservations
Construction Layout / Stakeout
Topographical Surveys
ALTA / ASCM Land Title Surveys

Capabilities

ENVIRONMENTAL RESOLUTIONS, INC.

Grant Writing Services

NJ Dep't of Environmental Protection
Green Acres Acquisitions
Green Acres Development
NJ Environmental Infrastructure Trust Fund Loans (EIT)
Livable Communities

NJDEP / USEPA Clean Waters Act
Section 319h Grant

NJ Department of Community Affairs
CDBG Small Cities – Housing
CDBG Small Cities – Public Facilities

NJ Department of Transportation
Centers of Place
Discretionary Aid
Municipal Aid
Bikeway
Pedestrian Safety
Safe Routes to Schools
Safe Streets to Transit

NJ Economic Development Authority
Hazardous Discharge Site Remediation Fund (HDSRF)

NJ Department of State
New Jersey Smart Growth

New Jersey Smart Futures

Federal Highway Administration
American Recovery and Reinvestment Act (ARRA)
Transportation Equity Act for the 21st Century (TEA-21)
Safe, Accountable, Flexible, Efficient Transportation Equity Act (SAFETEA-LU)
FEMA

US Department of Agriculture
Rural Development

Counties
Municipal Parks Development Grant
Community Development Block Grants (CDBG) – Housing
Community Development Block Grants (CDBG) – Public Facilities

Association of New Jersey Environmental Commissions (ANJEC)

Sustainable Jersey

Delaware Valley River Planning Commission
Transportation and Community Development Initiative (TCDI)

Traffic Engineering

Traffic Impact Studies
Parking & Traffic Calming Studies
Title 39 Reviews
Roadway Geometry and Signalization
Traffic Control Plans and Details
Guiderail Warrant Analysis

Construction & Specialty Inspection Services

Municipal Roadway Construction
NICET Level III
Cured-in-Place Pipe Lining
Certified Park Safety Inspections
Mold Assessment & Inspection
Safety of In-Service Bridges
C-5 Supervisor/ De-leading of Industrial Structures
Asbestos Building Inspection
Asbestos Management Planning
Asbestos Project Design
Dam Safety Inspections

Support Services

Construction Administration
Public Relations
Expert Testimony
CADD
GIS

Knowledge of the Borough of Berlin

ENVIRONMENTAL RESOLUTIONS, INC.

Environmental Resolutions Inc. (ERI) is very familiar with the Borough of Berlin. Our firm has served as Special Projects Engineer 2016-Present, Municipal Engineer 1997-2004 and 2008-2009, Water & Sewer Engineer 1997 to 2010, Planning Board Engineer 2001-2008, and Planning Board Planner 2007-2008.

In addition to numerous road improvement projects that ERI has worked on in neighboring communities, some for the County, our firm has also provided engineering services directly for Berlin Borough. Some of these services include:

- ERI performed engineering review services and construction inspection of water and sewer installation for Nexus Properties, a developer who is proposing construction of 472 apartments, a one-story clubhouse, a one-story maintenance building/garage, and a pool.
- ERI performed investigations for three (3) Borough playgrounds to determine if the play equipment is compliant with park safety standards. In addition, ERI also developed concepts and cost estimates for playground improvements.
- In 2018, ERI provided Berlin Borough with a long range road program evaluation report so that the Borough could effectively select roads for their annual road improvement program. ERI evaluated all thirty (30) plus miles of Borough owned roads based on condition, traffic and road type. ERI also provided the Borough cost estimates for each roadway so that the Borough could effectively budget for the annual road program.
- ERI's Senior Planner Edward E. Fox, III, AICP, PP is extremely familiar with the Borough of Berlin, having performed development reviews for four (4) years while serving as Planning Board and Zoning Board Planner while employed with another firm.

Timeliness of Service:

In the highly regulated field of municipal government, timeliness is a critical component of quality service and professionalism. Environmental Resolutions, Inc. (ERI) is proud of our reputation for delivering quality services in a timely fashion. ERI has assembled an experienced, professional staff team that will provide engineering services for the Borough in an expedient and cost effective manner.

Availability

Environmental Resolutions, Inc.'s personnel are extremely flexible and available to attend meetings and conferences with Borough officials and personnel, day or evening. We meet strict, expedited timelines to accommodate the most aggressive deadlines given to us, and we are available to respond promptly to emergent matters.

Environmental Resolutions, Inc. does not foresee any conflicts with being able to accommodate the meetings as required by this engagement.

Environmental Resolutions, Inc.

Description of Services

Utilizing the best available technologies, ERI assesses client needs and available water resources to evaluate alternatives on the basis of water quality, cost effectiveness and long term reliability.

WATER AND WASTEWATER ENGINEERING

Environmental Resolutions, Inc. and its employees have a broad range of experience in every phase of design and construction management of water supply, treatment, storage, distribution systems, as well as wastewater treatment plants, pumping stations, force mains and collection systems for government and industry. Among these services which the firm provides are:

- ◊ Feasibility Studies
- ◊ Field Survey and Data Collection
- ◊ Environmental Analysis and Impact Statements
- ◊ Permit Applications and Impact Statements
- ◊ Environmental Infrastructure Trust Applications
- ◊ Management Plans
- ◊ Financial Studies
- ◊ NJDEP Reporting
- ◊ Preliminary and Final Design
- ◊ Construction Management and Inspection
- ◊ Plant Start Up
- ◊ Build-Out Analysis
- ◊ Plant Expansions and Upgrades
- ◊ New Plant Construction
- ◊ Daily Operations Assistance
- ◊ Pump Stations

Environmental Resolutions, Inc. can provide operational assistance, troubleshooting, operations, permit negotiations and renewals and assistance in contractor selections.

We are a production-oriented company, which emphasizes a melding of traditional proven technologies with state-of-the-art technologies to protect the water, air, and land environments. The firm can provide clients with both specialized and comprehensive services for water and wastewater engineering, stormwater management and water resources projects. Our services include planning and permitting, design, construction management, start-up operations, operation and maintenance manuals, training and operating assistance.

STORMWATER MANAGEMENT AND DRAINAGE DESIGN

Environmental Resolutions Inc.'s Staff includes professional engineers with extensive experience in hydrology, hydraulics and design of stormwater management systems. ERI's stormwater management experience ranges from minor projects such as designing "fixes" for small localized flooding to major drainage studies including design and modeling of complex systems consisting of multiple watersheds for entire municipalities and large scale projects.

Our experience in storm water management includes retrofitting and reconstructing aging infrastructure to accommodate increases in storm water flow caused by development of upstream watersheds. ERI has worked with several municipal, institutional and private clients to address storm water management issues ranging from regulatory compliance to flood proofing and mitigation.

ERI's staff of professionals is knowledgeable in the most recent NJDEP and NRCS regulations and design criteria. We have designed countless projects implementing various Best Management Practices and Manufactured Treatment Devices. Our experience includes the design of constructed wetlands, bio-retention basins, sand filters, rain gardens and numerous other BMPs. All designs seek to maximize usable space of the project site while implementing low impact, non-structural strategies to the maximum extent practical. All calculations and modeling are performed using the most current Drainage Design software.

GOODS AND SERVICES PROCUREMENT SERVICES

Environmental Resolutions Inc.'s staff includes professional engineers with extensive experience in procurement services. ERI's staff provides procurement services for a wide variety of equipment and services including vehicles, annual service and maintenance contracts, and annual parts contracts. These services range from preparation of detailed specifications and bid documents to simplified request for quote packages for lower cost items.

ERI has worked with several municipal, Authority and MUA's to identify needs for equipment and services and arrange procurement of these services.

ERI's staff is knowledgeable enough with public bidding requirements to find ways to deal with issues such as propriety products and limited availability items. Additionally, as we gain understanding of our client's needs and capabilities we can evaluate the potential for multiyear contracts.

ERI has also worked with our clients to set up annual reoccurring contracts for services wherein we have prepared the initial contract and turned over electronic copies of the bid documents to the client for their use in future years procurement.

ERI's procurement service experience includes the following projects:

Mechanical Maintenance- Utilities, Medford, NJ
Sludge Disposal, Palmyra NJ
Electric Maintenance-Utilities, Medford NJ
HVAC Maintenance, Palmyra, NJ
General Maintenance - Sewer, Palmyra NJ
General Maintenance - Sewer, BSA
Jetting and Vactoring Services Medford & Palmyra, NJ
On-Call Contracting Services, Medford & Palmyra, NJ
Generator Maintenance, Medford & Palmyra NJ
Control Valve Maintenance Medford, NJ
Crane Maintenance, Medford, NJ
Air Compressor Maintenance, Medford, NJ
Backflow Preventor Maintenance, Medford, NJ
Annual Well Inspection, Medford, NJ
Annual Chlorination Equipment Parts, Medford, NJ
Annual Laboratory Services, Medford (Landfills), NJ; Burlington (Sewer, Water and Landfill), Beverly Sewerage Authority
Annual Instrumentation Maintenance, Burlington NJ
Vehicles –Various -
Jetter, Jetter Vactor, Street Sweeper, Loader, Dump Truck (Large & Small) Pickups, etc.
Samplers, Palmyra NJ
Trash and Grit Disposal - Utilities, Medford NJ
Annual Instrumentation Calibration, Medford, NJ
Chemical Supply, Medford, NJ

WATER SUPPLY & SYSTEMS SERVICES

Environmental Resolutions Inc. has a skilled team of environmental engineers, civil engineers, planners, and hydrologists that are uniquely qualified to design, model, map, update and upgrade water supply systems for both surface water and ground water supply sources.

Environmental Resolutions, Inc. is committed to staying at the forefront of all aspects of the municipal water supply and systems engineering field. This includes matching water system projects with the best possible technology to deliver the greatest potential value to our clients. Accordingly, Environmental Resolutions, Inc. staff's proficiency includes utilization of computer based modeling systems such as Kentucky Pipe Model for Water Systems (Kpipe), WaterCADD, Microstation GeoPak Water and Sewer Modeling Package, and similar systems to help identity and prioritize system improvements.

The firm has designed treatment systems for both surface water and groundwater sources that will meet drinking water standards by using filtration, carbon absorption, chlorination, flocculation, sedimentation aeration and other new technologies. Ground water supply development includes aquifer assessment and testing, obtaining ground water diversion permits and wellfield protection. These designs and developments are approached with a unique design philosophy of providing facilities with the operators in mind.

Environmental Resolutions' vast municipal experience coupled with a practical background has resulted in the effective design and construction of both new and replacement water distribution mains, wells, treatment and storage facilities in urban and rural areas. Urban areas with denser population and confined working spaces present unique changes for water system distribution system improvements on every project. However, through the firm's dedicated staff of engineers and construction managers, miles of mains in such areas have been successfully installed with minimal impacts on the local communities.

The firm can provide clients with both specialized and comprehensive services for water engineering projects. Our services include planning and permitting, design, construction management, start-up operations, operation and maintenance manuals, training and operating assistance.

DEMOLITION SERVICES

Environmental Resolutions, Inc, has the ability to assess existing structures for stability and potential for required demolition. We have been assisting our municipal and private clients in the management and assessment of public works, industrial, commercial and residential facilities. An assessment of the areas noted above can help determine if a structure is in need of demolition and dictate the necessary procedure for demolition. Assessments available include the following:

- ◊ Air Quality and Mold
- ◊ Asbestos
- ◊ Lead Based Paint
- ◊ Phase I and II Site Investigations
- ◊ Structural Stability
- ◊ Safety

We are experienced in the coordination and inspection of the removal and/or demolition of identified contaminants and materials. Clearance inspection will determine if appropriate abatement has been completed.

ERI has completed numerous emergency and traditional demolition projects ranging from four story masonry structures to townhouses throughout Burlington and Camden Counties.

ERI has prepared and implemented remediation, abatement and construction specifications in order to facilitate demolition. Confirmation of utility disconnection is coordinated with local utility and municipal agencies. ERI has the personnel and expertise to design and manage demolition projects from initial assessments to final demolition and site restoration.

CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES

Our firm has the ability to accept full responsibility for construction management and inspection of many types of projects, whether designed by our firm or by others, which services include: the coordination and communications between the client, the local police department, utilities, railroads and the contractor, ensuring compliance with project plans and specifications as well as all grant funding agreements, oversight of scheduling, preparation of reports, payments, change orders, and performing daily construction observation and material testing as required through project closeout. Our thorough understanding of the construction management and inspection responsibilities required for municipal and grant-funded projects has enabled us to successfully meet the needs of our clients on projects ranging in size from several thousand to several million dollars.

We are experienced in the design and inspection of structural, mechanical, hydraulic, electrical and instrumentation systems. When required for a specific specialized service, special consultants, such as registered architects, value engineers, testing laboratories and environmental scientists are engaged to supplement our in-house staff.

ERI has both the experience and the credentials to perform a wide-variety of construction inspection services. Providing well-educated and field-seasoned inspectors for our clients is a hallmark of our firm. Our inspectors are certified in numerous categories, including the following:

- NICET (National Institute of Certified Engineering Technicians), Levels I, II & III
- NJSME (New Jersey Society of Municipal Engineers) - Municipal Engineering Construction Inspection
- NHI/FHWA (National Highway Institute/Federal Highway Administration) - Safety Inspection of In-Service Bridges
- SSPC (Society for Protective Coatings) - C-3 Supervisor for Deleading of Industrial Structures
- NRPA (National Recreation and Park Association) – Certified Playground Safety Inspectors
- Environmental Solutions Association (ESA) - Mold Inspection and Assessment

Our experience with construction management and observation services includes: storm sewer, sanitary sewer, potable water systems and treatment plant construction; road and highway construction; recreation and park facilities, water tanks, landfill and leachate lagoon construction and other types of specialty projects, such as reforestation for the NJDEP Division of Forestry and the construction of a synthetically lined drainage basin.

Our firm's commitment to quality, integrity and improvement in every aspect of a project, from design and inspection through contract completion, has enabled us to attract and retain outstanding and experienced professionals in the construction industry. The result is a more thoughtful and economical project ultimately resulting in cost savings to our client.

Environmental Resolutions, Inc. is comprised of principals and employees who make up an organization that is well-qualified based on education and experience in order to perform complete construction design, management, and inspection services.

LAND SURVEYING

Environmental Resolutions, Inc. (ERI) has professionally licensed surveyors on staff and is experienced in providing a vast array of survey services, including:

- ALTA / Land Title Surveys
- As-built Surveys
- Capacity Surveys for Landfills
- Cell Tower Site Surveys
- Construction Stakeout
- Deed Research
- Easement Exhibits and Descriptions
- Farmland Preservation Easement Surveys
- Flood Plain Surveys and Elevation Certificates
- GPS Surveying
- Green Acres Surveys
- Legal Descriptions
- Monitoring Well Surveys
- Open Space Acquisition Surveys
- Outbound Surveys
- Parcel Acquisition Maps
- Road Cross Sections
- Subdivisions Plats
- Tax Maps & Map Updates
- Topographic Surveys
- Utility Maps & Map Updates
- Title Surveys

ERI personnel utilize the latest surveying and GPS equipment to perform these services. The result is a more accurate and economical product that can be produced in a timely fashion.

UNDERGROUND STORAGE TANKS

Environmental Resolutions, Inc. provides the full range of engineering and environmental services necessary to comply with underground storage tank (UST) regulations. Services provided include:

- ◊ Permitting and Documentation for Regulatory Compliance
- ◊ Evaluation of Storage Needs and Alternatives
- ◊ Design of UST Upgrades
- ◊ Design of New UST and Monitoring Systems
- ◊ Preparation of Specifications
- ◊ Construction Management
- ◊ Closure Documentation
- ◊ Site Assessment

The firm certified by the New Jersey Department of Environmental Protection (NJDEP) in accordance with N.J.S.A. 58:10A-24.1-8 to perform UST Closures and Subsurface Evaluations (No. 0300078). When contamination is encountered, we conduct additional investigations to assess the extent of soil and ground water contamination, assess hydrogeologic characteristics, evaluate the potential risk to receptors, and analyze remedial alternatives. Our hydrogeologists are often able to recommend alternatives to traditional high cost remediation such as natural degradation.

Environmental Resolutions, Inc. provides complete storage tank management consulting services. Our experience in completing site assessments, preparing closure plans, supervising underground storage tank installations and obtaining the required permits allows us to provide a turnkey operation for UST management.

Typical services we provide for UST management include: Preparation of assessments, Preparation of registration document, Management of UST removals and/or replacements, Supervision and inspection of UST removals, Supervision of installation of groundwater monitoring wells and groundwater sampling analysis, and Hydrogeologic Studies. ERI personnel are certified to perform this type of work and have completed the required OSHA Safety Course. We effectively combine the experience and knowledge of our professional staff resulting in UST and AST management services that are economical and in full compliance with local, state and federal regulations.

GEOGRAPHIC INFORMATION SYSTEMS (GIS)

Environmental Resolutions, Inc. has Geographic Information Systems (GIS) technicians on staff and is experienced in providing a vast array of GIS services including:

GIS Needs Assessment

ERI staff meet with Municipal staff and assess the current hardware/software inventory and its ability to meet system requirements as prescribed by ESRI GIS. ERI provides recommendations on system upgrades.

Initial Geographic Information Systems (GIS) Development

Construction of Municipal Geodatabases including pertinent GIS Data (Parcel Data, Tax Mapping, Utility Mapping, Flood Prone Areas, Zoning, Land Use, Soil Types, etc) and the use of 2007 (or most current available) Orthophotos geo-referenced to the New Jersey State Plane Coordinate System North American Datum of 1983 (NAD 83). ERI incorporates existing paper and digital information of record into the construction of the database.

GIS System Topology & Database Management

ERI updates and manages existing databases, geo-referencing additional/new features in each data layer to their correct geographic location on the GIS base map, assigning unique identification numbers for use by municipal and private clients.

The GIS mapping database features polygon processing. All data is quality checked for accuracy and standard FGDC compliant metadata files are provided as reference. ERI links data to the geo-referenced parcel data in a layered, polygon-process, color-coded format.

ERI personnel utilize the latest ArcGIS software equipment to perform these services. The result is a more accurate and economical product that can be produced in a timely fashion.

PERMITTING SERVICES

Environmental Resolutions, Inc. (ERI) has extensive experience with the regulatory and permitting process in New Jersey. Our knowledge and experience have resulted in the development of a professional rapport with regulatory agencies and personnel that allows projects to flow through the system and maintain critical time lines. In addition to executing numerous permitting projects per year, our staff maintains their edge by regularly attending seminars, subscribing to publications, authoring publications and actively participating in numerous professional organizations.

Public clients include public utility companies and local, county, state and federal agencies. The scope of projects can be from initial wetland site investigation to obtaining all required permits for a project.

Services include site investigations to determine environmental constraints and issues and preparation of application packages to address the concerns of the regulatory agencies.

Environmental Resolutions, Inc. has extensive experience at identifying and obtaining required environmental permits from federal, state and local agencies. Our permitting experience includes the following:

- ◊ NJDEP Freshwater Wetlands Permits
- ◊ NJDEP CAFRA
- ◊ NJDEP Landfill Disruption Permits
- ◊ NJDEP Solid Waste Facility Permits
- ◊ NJDEP Waterfront Development Act
- ◊ NJDEP Tidelands Conveyances (Grant, Lease, License)
- ◊ NJDEP Groundwater Diversion
- ◊ NJDEP Treatment Works Approval
- ◊ NJDEP Bureau of Safe Drinking Water
- ◊ NJDEP Flood Hazard Area Permits
- ◊ NJPDES - Discharge to Surface Water
- ◊ NJPDES - Discharge to Ground Water
- ◊ Soil Erosion and Sediment Control
- ◊ Pinelands Commission
- ◊ U.S. Coast Guard
- ◊ U.S. Army Corps of Engineers

GRANT SERVICES

The professional staff of ERI has written, successfully acquired and administered grant funding from various federal, state, and local agencies. A partial list of our grant experience is shown below:

FEDERAL FUNDING SOURCES:

Federal Emergency Management Agency (FEMA)
Transportation Enhancements
American Recovery and Reinvestment Act (ARRA)
Safe, Accountable, Flexible, Efficient Transportation Equity Act (SAFETEA-LU)
Transportation Equity Act for the 21st Century (TEA-21)

United States Department of Agriculture (USDA)
Rural Development

STATE FUNDING SOURCES:

New Jersey Department of Transportation (NJDOT)
Centers of Place
Discretionary Aid
Municipal Aid
Bikeways
Safe Streets To Schools
Safe Streets To Transit
Transit Village

New Jersey Department of Environmental Protection (NJDEP)
Livable Communities
Green Acres Acquisitions
Green Acres Development
USEPA Clean Waters Act Section 319h Grant

New Jersey Department of Community Affairs (NJDCA)
Small Cities
New Jersey Smart Futures
New Jersey Smart Growth

Association of New Jersey Environmental Commissions (ANJEC)

New Jersey Economic Development Authority (NJEDA)
Hazardous Discharge Site Remediation Fund (HDSRF)

New Jersey Environmental Infrastructure Trust (NJEIT)

Sustainable Jersey

COUNTY FUNDING SOURCES:

Burlington County Municipal Parks Development Grant
Community Development Block Grants (CDBG)
Public Facilities

REGIONAL FUNDING SOURCES:

Delaware Valley Regional Planning Commission (DVRPC)
Transportation and Community Development Initiative (TCDI)

ENVIRONMENTAL SITE ASSESSMENTS

Environmental Resolutions, Inc. has conducted environmental assessments for a variety of clients on vacant, developed, and Brownfield parcels. The Phase I Environmental Site Assessments entail a site inspection, interviews with personnel familiar with prior and current operations, and a review of reasonably available historical records including federal, state and local government records. The findings from the record search are incorporated into the on-site inspection and a report is prepared based on the finding of the above activities. This report provides an environmental assessment of the facility, identifies areas which may present an environmental liability, and provides recommendations based on current state and federal legislation.

For parcels that will go through NJDEP review, Preliminary Assessments are conducted in accordance with NJDEP guidelines. Preliminary Assessments are typically conducted for industrial facilities or for parcels that have known contamination.

ENVIRONMENTAL SITE REMEDIATION

Environmental Resolutions, Inc. provides professional consulting services in conjunction with soil and groundwater remediation. These services are provided to comply with underground storage tank (UST) and Industrial Site Recovery Act (ISRA) regulations and voluntarily in conjunction with property transactions and with Brownfield Redevelopment. In New Jersey, service are provided through the Licensed Site Remediation Professional (LSRP) program

Environmental Site Remediation services provided by Environmental Resolutions, Inc. include:

- Preliminary Assessments and Phase I Environmental Site Assessments to identify areas of environmental concern
- Site Investigations at areas of environmental concern for potential impacts to soil and groundwater
- Remedial Investigations to delineate the extent of impacts that exceed applicable remedial standards
- Remedial Selection of remedies consistent with site conditions and future property uses
- Remedial Design of selected remedies
- Remedial Action Workplan preparation to propose selected remedies for regulatory approval
- Remedial Oversight of the implementation of remedial action
- Remedial Action Report preparation to document the completion of remediation

Remedial Actions are selected after contaminant of concern are identified and delineated. The selected remedial alternatives are dependent on site conditions and planned future property uses. Environmental Resolutions, Inc. has implemented remedial actions for soil and groundwater to obtain unrestricted use No Further Action determinations and to obtain No Further Action determinations restricted by a Deed Notice for soil and / or conditioned on a groundwater Classification Exception Area.

ENVIRONMENTAL RESOLUTIONS, INC.
Engineers • Planners • Scientists • Surveyors

Project Profile

WASTEWATER TREATMENT PLANT
COMBINED OUTFALL LINE REHABILITATION
BURLINGTON CITY, NJ

Key Personnel:
William H. Kirchner, P.E., C.M.E., N-2
Benjamin R. Weller, P.E., C.M.E., S-3, C-3, C.P.W.M.

Date Completed:
2008

Client Contact:
Mr. Mark Staravoj, Superintendent
Sewage and Drainage
City of Burlington
(609) 386-0035

Summary

Environmental & Wastewater Process Engineering

- Evaluation of the Condition of the Existing Outfall Line
- Rehabilitation Methods

Civil and Utility Engineering and Surveying Services

- Survey of Existing Site Facilities and Utilities
- Capital Budget & Cost Estimating for All Phases
- EIT Loan Acquisition and Administration

Environmental Resolutions, Inc. (ERI) prepared Plans and Specifications for the rehabilitation of a 184 linear foot section of a large diameter sanitary sewer line. The inside diameter of the Outfall ranges from a circular 72 inches to a 72 inch by 68 inch arch and a 72 inch by 68 inch arch with a concrete fillet reducing the pipe height to 48 inch near a junction box where the line transitions to Ductile Iron Pipe. This section originates at the Wastewater Treatment Plant Wet Well and extends 184 feet beneath West Broad Street and the Conrail Railroad tracks, which are also used by New Jersey Transit's River Line Light Rail System. Previous repairs were done on the outside of the pipe in order to stop leakage from the pipe's joints, however these repairs have not been completely successful in that they have failed to address the leaks over the long term.

With the Outfall continuing to leak at the joints a long term solution to address the entire first section of the Outfall was warranted. Due to the presence of the jet fuel line and railroad tracks in-pipe repair methods were desirable. Internal dive inspections of the Outfall were performed during the design phase. Inspection revealed no defects in the pipe walls except for minor scaling along the bottom. However, the pipe joints were noted as having spallings, voids, missing plugs, etc. After evaluating construction constraints and recommendations from the pipe inspections, a rehabilitation approach was reached. The design required five joints to be sealed with custom internal joint seals and the remaining 150 linear feet of pipe to be sliplined with 54 inch PVC slipliner pipe. Sliplining will facilitate the Outfall repairs without excavation in West Broad Street, near the jet fuel line or beneath the railroad tracks. Excavation was limited to the area of the junction box. A portion of pipe was excavated just prior to the junction box and the junction box was decapitated. The junction box was replaced by a 54 inch ductile iron tee fitting.

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Project Profile

NJDOT SAND HILL MAINTENANCE FACILITY
WATER AND SEWER CONNECTIONS
NJ DEPARTMENT OF PROPERTY MANAGEMENT & CONSTRUCTION (NJDPMC)

Key Personnel:
Joseph R. Hirsh, P.E., C.M.E., C.P.W.M.
Benjamin R. Weller, P.E., C.M.E., S-3, C-3, C.P.W.M.

Client Contact:
Mr. Steven Rappaport
Project Manager, DPMC
609-633-2836

Summary

- Survey
- Engineering Design
- Permitting
- Plans & Specifications
- Bidding
- Construction Management and Inspection

Environmental Resolutions, Inc. was contracted by the New Jersey Department of Property Management and Construction for the engineering, permitting, design and construction management for the construction of public potable water and public sewer connections and the NJDOT Maintenance Facility at Sand Hill in South Brunswick Township.

The project included the planning, surveying, design and layout of a sanitary sewer lateral from the main building lateral to the public sanitary system located in a major highway. The connection to the public water system included disconnection of a private well and treatment system and modifications required for usage of the public water service.

The project included detailed coordination with the State of New Jersey DPMC design and construction departments, DCA, South Brunswick Township and Utility Department, NJDOT and various other entities. ERI is assisted the client in obtaining permits from the Department of Community Affairs and administered the awarded contract, including the review of shop drawings for conformance with approved bid documents, review of change order and payment requests. ERI coordinated the project with the Contractor, NJDOT and DPMC to ensure efficient and responsible construction in accordance with the specifications, plans and policies of the client.

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ENVIRONMENTAL RESOLUTIONS, INC.
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Project Profile

VARIOUS INFLOW & INFILTRATION PROJECTS
DELANCO SEWERAGE AUTHORITY
DELANCO TOWNSHIP, NJ

Key Personnel:
William H. Kirchner, P.E., C.M.E., N-2
Benjamin R. Weller, P.E., C.M.E., S-3, C-3, C.P.W.M.

Client Contact:
Mr. Fred Weller, Executive Director
Delanco Sewerage Authority
Delanco, NJ
856-461-6876

Summary of Services:

- Field Investigation
- Engineering Design
- Plans and Specifications
- Bidding
- Construction Management and Inspection

Environmental Resolutions, Inc. (ERI) provided engineering services for various wastewater projects designed to address Inflow and Infiltration (I&I) within the Delanco Sewerage Authority's wastewater collection system. These projects were performed under a comprehensive I&I Program that ERI had developed for the Authority to systematically address the concerns of their aging infrastructure.

Initially, ERI had performed a historic analysis of the Authority's system to identify if there was a need to address I&I. Data was collected, analyzed and interpreted to determine that the system was experiencing seasonal groundwater infiltration and significant inflow during rainfall events. Based on the cost associated with treating the additional flow at their receiving treatment facility, this report was used by the Authority to justify developing an annual program to locate and eliminate I&I in the system.

Next, ERI then performed closed circuit television (CCTV) inspections of the entire collection system to locate the deficiencies that were causing the I&I. Using the CCTV inspections, a long range rehabilitation plan was developed with a prioritization plan. The usage of this plan has been ongoing over the past few years with notable reductions in inflow and infiltration.

Per our long range rehabilitation plan, ERI has and will continue to perform various trenchless sewer main repair projects using various repair methods based on the type and severity of the deficiencies. Some of the projects that were performed included: Joint and Crack Grouting Projects, Lateral Sealing Projects, Mechanical Joint Sealing Projects, Manhole Rehabilitation Projects and Lining Projects. In order to address inflow, a project was performed a project to procure custom fitted manhole inserts for all of the manholes in the system.

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ENVIRONMENTAL RESOLUTIONS, INC.
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Project Profile

MEDFORD SEWAGE TREATMENT PLANT UPGRADE
MEDFORD TOWNSHIP, NJ

Key Personnel:
William H. Kirchner, P.E., C.M.E., N-2
Joseph R. Hirsh, P.E., C.M.E., C.P.W.M.
Christopher J. Noll, P.E., C.M.E., P.P.

Client Contact:
Mr. Ryan Willitts
Asst. Director of Neighborhood Services for Utilities
Medford Township, NJ
609-654-7886

Summary

- Survey
- Field Inspection
- Engineering Design
- Permitting
- Wetlands
- Plans and Specifications
- Bidding
- Construction Management and Inspection

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The upgrade of the Medford Township Wastewater Treatment Plant was initiated in response to a decrease in discharge limits for Phosphorus in the Plant's 2004 NJPDES Permit. The resulting evaluation of the 1.75 MGD capacity facility revealed numerous design shortcomings from an operational and maintenance perspective, and noted that older portions of the facility were nearing their design life and beginning to fail. This situation was causing significant compliance issues, as the facility lacked the required redundancy to allow units to be taken offline to facilitate repairs.

The ensuing upgrades consisted of five (5) separate improvement projects addressing all parts of the facility, focusing on features such as: redundancy, minimal operator oversight and maintainability. Each phase utilized funding from the NJDEP EIT loan program (including ARRA funding) and sought to maximize the re-use of existing equipment and facilities in order to maximize the Township's return on their investment.

Today, the Upgraded Plant boasts:

- A full headworks providing: grinding, screening and grit removal
- An effective Flow Equalization System
- Three (3) RBC Treatment Trains:
  - Each with Primary Clarification
  - Five (5) shaft RBC Units
  - Secondary Clarification - with integral flocculater to facilitate chemical treatment for phosphorus removal
- Tertiary Filters with Backwash Reclamation System
- Disinfection System - utilizing Sodium Hypochlorite and Sodium Bisulfite for dechlorination
- Sludge Treatment System – consisting of:
  - A sludge Equalization Tank
  - Two (2) Sludge Treatment Units - providing for Aerobic Sludge Digestion, Gravity Sludge Thickening and Aerated Sludge Holding
- A Supernatant Treatment System consisting of a Polishing Tank

Ancillary facilities also include a new Electrical Distribution System, SCADA Control System utilizing a fiber optic network, and centralized Plant Blower Systems. Separately, the Township also arranged for a power purchase agreement which provides for up to 85% of electrical requirements of the plant.
The upgrades were staged to permit the facility to maintain operation while the improvements were being implemented, requiring the design to constantly adapt based on the ongoing construction.
While the selected treatment system is not as "state of the art" as a Biological Nutrient Removal System utilizing variants of the Activated Sludge System, the system design provides the required level of treatment with a more traditional approach. This approach utilizes a combination of conventional, fixed-film RBC system and chemical addition to provide a very resilient operation without constant Operator technical and analytical oversight and adjustment. The Operators essentially only have to keep the equipment running, and the system does the rest.

ENVIRONMENTAL RESOLUTIONS, INC.
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Project Profile

KORMAN PUMP STATION & SLUDGE SYSTEM IMPROVEMENTS
PALMYRA BOROUGH, NJ

Key Personnel:
William H. Kirchner, P.E. C.M.E., N-2
Joseph R. Hirsh, P.E., C.M.E., C.P.W.M.
Benjamin R. Weller, P.E., C.M.E., S-3, C-3, C.P.W.M.
John Scott, NICET III Inspector

Client Contact:
Mr. John Gural
Borough Administrator
Borough of Palmyra
856-829-6100

Summary

- Survey
- Field Inspection
- Engineering Design
- Permitting
- Plans and Specifications
- Bidding
- Construction Management and Inspection

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Environmental Resolutions, Inc. is in the process of engineering a project involving improvements to the Borough of Palmyra's Sewer Treatment Plant. The purpose of this project is to improve operations, reduce maintenance costs, improve residuals management and reduce potential and perceived odor from the facility. The project consists of improvements to an existing unused anaerobic digester, which is proposed to be converted into a gravity sludge thickener. In addition, modifications are proposed to the grit detention chamber of the equalization tank, and rehabilitation of the Korman Pumping Station to better enable it to handle drain and waste flow from the plant. Several necessary upgrades to existing plant facilities are also proposed to lengthen the plant longevity and improve overall operations.

The design scope for this project takes into account the preparation of plans and specifications for submission to the New Jersey Department of Environmental Protection for a Treatment Works Approval and Environmental Infrastructure Trust Loan. ERI is responsible for attendance at project meetings with the NJDEP, completion of their required reports, regulatory agency interaction, preparation of operation and maintenance manuals, permitting enforcement, SED reporting recruitment for construction, and audits and payment disbursement requirements. ERI is also responsible for construction observation, providing a full time resident project engineer on site to observe the work for compliance with the contract documents, as well as reviewing payment requests and issuing certificates of completion.

ENVIRONMENTAL RESOLUTIONS, INC.
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Project Profile

GRAVITY SEWER EXTENSION
DELANCO TOWNSHIP, NJ

Key Personnel:
William H. Kirchner, P.E., C.M.E., N-2
Benjamin R. Weller, P.E., C.M.E., S-3, C-3, C.P.W.M.
Joseph R. Hirsh, P.E., C.M.E., C.P.W.M.

Client Contact:
Mr. Fred Weller, Executive Director
Delanco Sewerage Authority
Delanco, NJ
856-461-6876

Summary

Environmental & Wastewater Process Engineering
- NJPDES Permitting Compliance

Civil and Utility Engineering and Surveying Services
- Survey of Existing Utilities
- Capital Budget & Cost Estimating for All Phases

Construction Inspection
- Inspection of Utility Installation

Environmental Resolutions, Inc. (ERI) provided survey, design, inspection and construction management services for the construction of a gravity sewer main extension to allow the Delanco Sewerage Authority to take one of their four (4) pumping stations permanently offline. The project consisted of the installation of a 1,800 linear foot gravity sewer main through a parcel of land purchased by the County of Burlington for a future roadway realignment.

To design the system, ERI had to work in conjunction with the County's engineer in order to properly position the mains and manholes along the centerlines and shoulders of the roadway. This was important due to the relatively strict design tolerances available to install the system while maintaining minimal slopes. Also, due to the depth of the sanitary sewer, ERI worked with the County to create specifications to ensure adequate compaction for the subbase below the expected level of disturbance for the roadway construction.

Construction services included the fulltime inspection of the project to ensure that the system was installed in accordance with the project specifications. This project also was within two county roadways with one being a major local truck route and the only access route for two active senior housing developments, continual coordination with the Authority, Township and County was required.

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ENVIRONMENTAL RESOLUTIONS, INC.
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Project Profile

ODOR CONTROL STUDY
DEPARTMENT OF SEWER, PALMYRA BOROUGH, NJ

Key Personnel:
William H. Kirchner, P.E. C.M.E., N-2
Joseph R. Hirsh, P.E., C.M.E., C.P.W.M.

Date Completed:
Ongoing

Client Contact:
Mr. Thomas Ryan
Superintendent of Sewer
Borough of Palmyra
856-829-1476

Summary

Environmental & Wastewater Process Engineering

- Evaluation of the Condition of the Existing Sewer Plant
- Process Evaluation, Optimization and Design of Solids Handling Facilities & Headworks
- NJPDES Permitting Compliance

Civil and Utility Engineering and Surveying Services

- Survey of Existing Site Facilities and Utilities
- Design of Plant Upgrades including Headworks Analysis and Design
- Evaluation and Design of Sludge Handling Facilities
- Capital Budget & Cost Estimating for All Phases
- EIT Loan Acquisition and Administration

Construction Inspection

- Tank Painting Inspection
- Provision of As-built Drawings

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Environmental Resolutions, Inc. provided engineering services for an odor control pilot study at the wastewater treatment plant. The study included various projects to minimize the impact on the surrounding community with the most notable being a magnesium hydroxide feed system located in the collection system.

In addition to implementing this study, Environmental Resolutions, Inc. had designed a full scale chemical feed system that, once constructed, will allow the operator more control over the influent and odor at the plant. Environmental Resolutions, Inc., in addition to having licensed professional engineers, also has licensed S, C and N operators who worked closely with the Borough's personnel on developing this overall plan. The feed system has been designed and bid. Construction is currently underway.

ENVIRONMENTAL RESOLUTIONS, INC.
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Project Profile

COLLECTION SYSTEM LINING IMPROVEMENTS
ENVIRONMENTAL INFRASTRUCTURE TRUST FUND (EIT)
MEDFORD LAKES BOROUGH, NJ

Key Personnel:
Benjamin R. Weller, P.E., C.M.E., S-3, C-3, C.P.W.M.
William H. Kirchner, P.E., C.M.E., N2

Date Completed:
Ongoing

Client Contact:
Mr. Robert Burton
Borough Administrator
Borough of Medford Lakes
609-654-8898

Summary

Environmental & Wastewater Process Engineering

- Evaluation of the Condition of the Existing Sewer Pipe System

Civil and Utility Engineering and Surveying Services

- Survey of Existing Site Facilities and Utilities
- Budget & Cost Estimating for All Phases
- Preparation of Technical Documents
- Public Bidding Services
- Construction Management
- Loan Administration

Construction Inspection

- Inspection of Gravity Sewer Lining

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Environmental Resolutions, Inc. has been contracted by the Borough of Medford Lakes to provide the necessary engineering design, bidding and construction services for the borough-wide rehabilitation of the sanitary sewer collection system utilizing Environmental Infrastructure Trust (EIT) funding. The scope of this project is to use trenchless pipelining methods to rehabilitate the Borough's existing non-PVC gravity sewer collection system, including the lining of manholes, sealing of lateral connections and a contingency to perform open-cut repairs to mains unable to be rehabilitated using only trenchless repair methods.

Construction bidding plans and technical specifications shall be prepared and include completing the engineering design and construction drawings for the lining project to make the plans ready for public bidding. The Borough's overall digital collection system map shall be used as the base plan to identify the various non-PVC sewers and manholes. ERI will develop the specifications to address the possibility of making excavated repairs by requiring pre-construction cleanings and inspections. Other tasks to be performed on this project are construction administration, which includes review and analysis of pipe videos, loan administration, and construction observation during the lining process.

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Project Profile

MISCELLANEOUS SANITARY SEWER MAIN AND LATERAL REPAIRS
HAMILTON TOWNSHIP, NJ

Key Personnel:
Joseph R. Hirsh, P.E., C.M.E., C.P.W.M.
John Scott, PLS, NICET III, Inspector

Client Contact:
Ms. Tina Stack
Environmental Scientist
Township of Hamilton Water Pollution Control
609-581-4140

Summary

Construction Inspection
- Inspection of Sanitary Sewer Repairs

Environmental Resolutions, Inc. provided inspection services for the Hamilton Township WPC for the removal and replacement of approximately 80 house lateral connections (approximately 1,100 LF total), 80 house connection wyes at the sewer main, and 80 cleanouts for lateral connections in varying locati.ons in the Township . Remove and replace some concrete curb, concrete aprons and 4" and 6" sidewalk as required to complete the work.

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Project Profile

SERVICE AREA BUILD OUT ANALYSIS
BEVERLY SEWERAGE AUTHORITY, BEVERLY CITY, NJ

Key Personnel:
Benjamin R. Weller, P.E., C.M.E., S-3, C-3, C.P.W.M.
William H. Kirchner, P.E., C.M.E., N-2

Client Contact:
Mr. Fred Weller, Executive Director
Delanco Sewerage Authority
609-387-7709

Summary

Environmental & Wastewater Process Engineering

- Evaluation of the Condition of the Existing Sewer Plant
- Capacity Analysis
- NJPDES Permitting Compliance

Civil and Utility Engineering and Surveying Services

- Survey of Existing Site Facilities and Utilities
- Capital Budget & Cost Estimating for All Phases

Environmental Resolutions, Inc., the engineer for the Beverly and Delanco Sewerage Authorities, has completed a Sewer Service Area Build-Out Analysis for the Beverly Sewerage Authority. The Beverly Sewerage Authority service area consists of the City of Beverly and the Township of Delanco. The City of Beverly is currently evaluating redevelopment options and the Township of Delanco has several large development proposals in process. These have the potential to exceed the overall plant capacity.

To aid in the proper planning of future plant upgrades and/or expansions, the Authority requested a Sewer Service Area Build-Out Analysis of both communities be performed. This involved an evaluation of Zoning & Redevelopment plans in conjunction with vacant/underdeveloped land inventory of each municipality.

Also involved is a detailed analysis of historic plant flows and water consumption records, to project the potential impact of quantities of inflow and infiltration. The Sewer Service Area Build-Out Analysis and Inflow & Infiltration study, projected future flows and capacity deficiencies that will be used by the Authority to plan inflow and infiltration projects and overall plant expansions and/or upgrades projects.

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Project Profile

SANITARY SEWER CURED IN PLACE LINING PROJECT
HAMILTON TOWNSHIP, MERCER COUNTY, NJ

ERI is performing inspection services for the installation of lining of sanitary and storm sewer for Hamilton Township Water Pollution Control Department (WPC), Mercer County, NJ. The poly resin liner was inverted from a refrigerator truck into the sewer main and was inserted into the main by using air pressure. Then, the liner was put under steam pressure to start the curing process. Once the curing process is complete, it creates a new pipe within the old existing sewer main.

ERI assisted the Hamilton Township WPC with the oversight and inspection of the installation of sanitary sewer lining and also the emergency replacement of 18 inch sanitary sewer force main, which included approximately 50,000 feet of pipe lining over the course of eleven (11) months to date.

Out of the eight (8) individuals in the State of NJ who are certified by NASSCO (National Association of Sewer Service Companies) for the inspection of Cured-in-Place Pipe Installations, three (3) of them are employed at ERI!

Key Personnel:
Joseph Hirsh, PE, CME, CPWM
John L. Scott, PLS, NICET III, C-3
Inspector
John T. Potts, NICET III, T-2, W-2
Inspector

Client Contact:
Ms. Tina Stack
Environmental Scientist
Water Pollution Control Department
Hamilton Township
609-581-4140

Date Completed:
Anticipated December 2019

Summary of Services:
- Oversight and Inspection

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ENVIRONMENTAL RESOLUTIONS, INC.
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Project Profile

BURLINGTON WATER TREATMENT PLANT TOTAL TRIHALOMETHANES REMEDIATION PROJECT

BURLINGTON CITY, NJ

Key Personnel:
William H. Kirchner, PE, CME, N-2
Rebecca B. Wentzel, ETI
Karen M. Hermack, PE

Date Completed:
Ongoing

Client Contact:
Mr. Joseph Cantwell, Superintendant
City of Burlington Water Department
609-386-0307

Summary of Services:

- Laboratory Protocol Development and Execution
- Compliance
- Pilot Testing
- Engineering Design
- Remediation

Environmental Resolutions, Inc (ERI) worked with the City of Burlington Water Treatment Plant to address the analysis and remediation of levels of total trihalomethanes (TTHMs) above the allowable limit of 80 ppb at their location. TTHMs are formed when the disinfectant used to treat the water to drinking water standards reacts with the organic matter in the source water and forms disinfection byproducts, of which TTHMs are a category. The primary ways of removing TTHMs are to remove the organic matter before adding disinfectant, or remove the TTHMs after they have formed.

With the guidance of the NJ Department of Environmental Protection, ERI has made plans to approach remediation from both ends. ERI has developed and begun execution of a laboratory scale protocol for the evaluation of optimizing or changing chemical doses within the plant, with the goal of oxidizing organic matter before it can react with disinfectant. ERI has also performed testing to classify the type of organic matter in the source water, which will inform future treatment decisions.

ERI began work on designing and gaining approval to introduce aeration within the Plant. The addition of very small bubbles coursing through the chemical feed flume will allow the TTHMs to leave the water and join the atmosphere. ERI designed a custom aeration system of bubble diffusers and applied for a Pilot Study Approval from the NJ Department of Environmental Protection to implement this system.

Both courses of action from ERI will produce Action Plans that will work simultaneously to get the City of Burlington's Water Treatment Plant back into compliance for TTHMs.

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ENVIRONMENTAL RESOLUTIONS, INC.

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Section 2: Résumé

Environmental Resolutions, Inc.'s key personnel that would be assigned to this contract work out of ERI's Mount Laurel headquarters at the following address:

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Fax (856) 273-9239

Environmental Resolutions, Inc. has been in business since 1990. The current management structure has been in place since 2005 with Christopher J. Noll, PE, CME, PP being principle in charge and primary stockholder, President and CEO. Barbara J. Fegley, AICP, PP is Sr. Vice President of ERI, and William H. Kirchner, PE, CME, N-2 is Vice President. These three principals are all located in the Mount Laurel office.

Christopher J. Noll, Barbara J. Fegley and William H. Kirchner are authorized to execute agreements.

Business Information

Environmental Resolutions, Inc. (ERI) was established in 1990 and currently employs a staff of fifty (50) professionals and support staff members. The number of staff has remained relatively stable, but growing in the past three (3) years with an average of 45 (forty-five) employees. A summary of the professional and support staff is provided below. Please note most professionals within our firm are certified or licensed in multiple disciplines.

Professional Engineers (PE)	12
Professional Planners (PP)	7
American Institute of Certified Planners (AICP)	2
Professional Licensed Surveyors (PLS)	2
Certified Municipal Engineers (CME)	10
Certified Floodplain Manager (CFM)	3
Professional Traffic Operations Engineer (PTOE)	1
Licensed Site Remediation Professionals (LSRP)	2
Hydrogeologist	1
Professional Geologist	1
Certified Public Works Managers (CPWM)	4
Licensed Landscape Architect (LLA)	2
C-3 Wastewater Collection System Operator	1
S-3 Wastewater Treatment System Operator	1
T-2 Water Treatment System Operator	1
W-2 Water Distribution System Operator	1
N-2 Industrial Treatment Operator	1
UST Closure Professional:	1
NICET Level III Inspectors	5
NJSAT (Asphalt Technician Certification)	1
Certified Park Safety Inspectors (CPSI)	1
Certified Asbestos Building Inspectors	3
Certified Asbestos Management Planners	1
Certified Asbestos Building Designers	1
Certified Mold Inspection Assessors	1
Certified Mold/Microbial Inspector	1
Certified In-Service Bridge Safety Inspector	1
C-5 Supervisor/Competent Person for Deleading of Industrial Structures	1
Certified Municipal Inspectors	7
Inspectors - Full Time	10
Certified Survey Technician (CST)	1

Support Staff:

CAD/GIS Specialists	2
Survey Party Chiefs	2
Survey Crew	4
Engineering/EIT	5
Administrative	6

Staffing Plan

Environmental Resolutions, Inc. has selected the following professionals to serve the Borough in this engagement.

Primary Municipal Water and Sewer Engineer

Principal-In-Charge
President and CEO
Christopher J. Noll, P.E., C.M.E., P.P.

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State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Board of Prof. Engineers & Land Surveyors

HAS LICENSED

CHRISTOPHR J. NOLL
101 WILLOW WAY PLACE
CHERRY HILL NJ 08034-3056

FOR PRACTICE IN NEW JERSEY AS A(N): Professional Engineer

04/05/2018 TO 04/30/2020 (VALID)
24GE03220600 (LICENSE/REGISTRATION/CERTIFICATION #)
Signature of Licensee/Registrant/Certificate Holder
ACTING DIRECTOR

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State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Board of Professional Planners

HAS LICENSED

CHRISTOPHER J. NOLL
101 Willow Way Pl.
Cherry Hill NJ 08034-3056

FOR PRACTICE IN NEW JERSEY AS A(N): Professional Planner

04/05/2018 TO 05/31/2020 (VALID)
33LI00370400 (LICENSE/REGISTRATION/CERTIFICATION #)
Signature of Licensee/Registrant/Certificate Holder
ACTING DIRECTOR

Back-up Municipal Water and Sewer Engineers

Vice President
William H. Kirchner, P.E., C.M.E., N-2

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New Jersey Office of the Attorney General
Division of Consumer Affairs

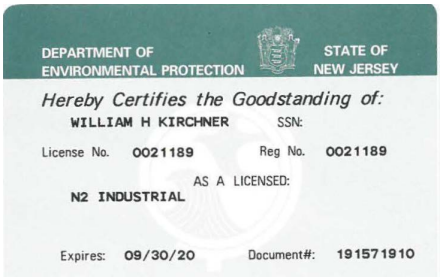
THIS IS TO CERTIFY THAT THE
Board of Prof. Engineers & Land Surveyors

HAS LICENSED

WILLIAM H. KIRCHNER
444 PRICKETTS MILL ROAD
TABERNACLE NJ 08088-8518

FOR PRACTICE IN NEW JERSEY AS A(N): Professional Engineer

03/16/2018 TO 04/30/2020 (VALID)
24GE03957800 (LICENSE/REGISTRATION/CERTIFICATION #)
Signature of Licensee/Registrant/Certificate Holder
ACTING DIRECTOR


DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF NEW JERSEY

Hereby Certifies the Goodstanding of:

WILLIAM H KIRCHNER SSN:

License No. 0021189 Reg No. 0021189

AS A LICENSED:

N2 INDUSTRIAL

Expires: 09/30/20 Document#: 191571910

Partner
G. Jeffrey Hanson, P.E., C.M.E.

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State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Board of Prof. Engineers & Land Surveyors,

HAS LICENSED

Glenn J. Hanson
1308 Kings Highway
Haddon Heights NJ 08035

FOR PRACTICE IN NEW JERSEY AS A(N): Professional Engineer

04/26/2018 TO 04/30/2020 (VALID)
24GE04787700 (LICENSE/REGISTRATION/CERTIFICATION #)
Signature of Licensee/Registrant/Certificate Holder
ACTING DIRECTOR

CHRISTOPHER J. NOLL, PE, CME, PP

President & CEO

REGISTRATION:
New Jersey Professional Engineer, 1987, #32206

New Jersey Certified Municipal Engineer, 1989, #CME 0128

Pennsylvania Professional Engineer, 1987, #36267

Newfoundland, Canada Professional Engineer, 1980, #1492

New Jersey Professional Planner, 1987, #3704

AFFILIATIONS:
National Society of Professional Engineers

American Society of Civil Engineers (Life Member)

New Jersey Society of Municipal Engineers

EDUCATION:
University of Rhode Island, Master of Science, Ocean Engineering, Course work completed

Lafayette College, Bachelor of Science, Civil Engineering, 1974

CERTIFICATIONS:
NJDEP UST Closure & Subsurface Evaluator - 1991 - #E001122

OSHA 29 CFR 1910.120 - 40 Hour Hazardous Training

Environmental Resolutions, Inc.
815 East Gate Drive, Suite 103
Mount Laurel, NJ 08054
Phone: 856.235.7170
Fax: 856.273.9239
Website: erinj.com

SUMMARY:
Mr. Noll is the President and CEO of Environmental Resolutions, Inc., a civil & environmental engineering company founded in 1990 and managed by him since its inception. His areas of expertise include all areas of environmental and municipal engineering.

EXPERIENCE:
As a managing partner, Mr. Noll is responsible for the daily management of the firm and for the supervision of a staff of engineers, planners, scientists and technicians. In addition to his management and business responsibilities, Mr. Noll is a practicing Professional Engineer. Mr. Noll's areas of engineering expertise include water supply, sanitary sewer design, recreational facilities, road improvement programs and municipal engineering services including grant acquisition and management of State, County and Federal grant-funded projects, solid waste management, underground storage tank management, and remediation plans. He is the principal in charge of the full scope of the company projects including public utility design, environmental assessments, master plan and ordinance preparation, stormwater management, hydrogeologic investigations, sampling and remediation plans, construction management and observation for capital, State and Federally-funded infrastructure highway and emergency projects, soils testing, permitting, and wetlands delineation.

Mr. Noll currently holds numerous municipal positions, for which he oversees grant acquisition, design and contract document preparation, public bidding services and project management and closeout procedures for County, State and Federal projects. Additionally, he continues to serve on many Planning and Zoning Boards in Burlington and Camden County, lending his expertise in attendance at public meetings and review of planning and zoning submissions.

Mr. Noll has been responsible for the supervision, review and preparation of various engineering plans and studies for proposed residential, commercial, state, municipal, educational and industrial facilities projects. Design projects have included the relocation of existing water and sewer for a Route 295 expansion, water main extensions, supply wells and water treatment facilities, numerous private and municipal projects dealing with sanitary sewers, force main and pump station design, and Closure/Post-Closure Plans for various municipal landfills.

RELEVANT EXPERIENCE:

Dam and Bridge Projects
Burlington Bristol Bridge Steel Replacement Project, Burlington, NJ and Bristol, PA
Burlington Bristol Bridge Counterweight Repair Project, Burlington, NJ and Bristol, PA
Dam Inspection & Repair Design, Kresson Lake & Lion's Lake Dams, Voorhees, NJ

Landfill Projects
Ocean County Landfill, Manchester Township, Ocean County, NJ
Pennsauken Sanitary Landfill, Pennsauken, NJ
Burlington County Resource Recovery Complex, Bordentown, NJ

Potable Water Projects
Well #15 Redrilling, Berlin Borough, Camden County, NJ
Jackson Road Water Main Extension, Medford, NJ
Jones Road, Union Street & Cherry Street Water Main Replacement Project Medford, NJ
Route 73/ Berlin Circle Elimination Project, Water and Sewer System, Berlin, NJ
Wells #14 and #16 Rehabilitation, Medford Township, NJ
Fairview Road Standpipe Rehabilitation, Medford, NJ

WILLIAM H. KIRCHNER, PE, CME, N-2

Vice President

REGISTRATION:

Delaware Professional Engineer, 1995, #9981

New Jersey Professional Engineer, 1996, #GE 39578

Pennsylvania Professional Engineer, 1996, PE-050252-E

New Jersey Certified Municipal Engineer – #732

New Jersey-N-2 Industrial Wastewater Treatment Operator, 1999, #0021189

CERTIFICATIONS:

NJDEP Wastewater Treatment Plant Operator – N2 Industrial, #0021189, 1999

Odor Field Enforcement Certification, Rutgers University

TECHNICAL COURSES, CONTINUING EDUCATION, AND SEMINARS:

Legal and Ethical Issues for Professional Engineers

AFFILIATIONS:

American Society of Civil Engineers

American Water Works Association

Association of Environmental Authorities

Water Environment Federation

New Jersey Water Association

EDUCATION:

Drexel University, Bachelor of Science, Civil Engineering, 1991

Drexel University, Master of Science, Environmental Engineering, 1995

Drexel University, Master of Science, Civil Engineering, 1995

Environmental Resolutions, Inc.
815 East Gate Drive, Suite 103
Mount Laurel, NJ 08054
Phone: 856.235.7170
Fax: 856.273.9239
Website: erinj.com

SUMMARY:

Mr. Kirchner is responsible for performing engineering and project management services for a wide variety of municipal, environmental and industrial clients. While Mr. Kirchner specializes in water and sewer infrastructure, analysis and improvements, he regularly undertakes many diverse projects that include all aspects of municipal improvement work (water and sewer utilities, stormwater, roadway and recreational). Mr. Kirchner is well known for his expertise in providing engineering services for projects that include evaluation, design, feasibility studies, and operation of process systems and automation, wastewater collection and treatment systems, public water distribution and treatment systems. He has extensive experience with water and wastewater treatment facilities, design, permitting, and operation and compliance. He also has experience with storm drainage systems, underground and aboveground storage tanks and their containment systems, as well as site plans. He also has designed a number of large scale recreational sites, road improvement and utility projects dealing with storm water, potable water and wastewater treatment, collection and distribution. Mr. Kirchner has also designed and provided construction management services and ongoing operational assistance for several treatment plants at both municipal and industrial facilities.

EXPERIENCE:

Mr. Kirchner's primary focus is providing engineering services to municipalities, authorities, MUA's and industrial clients. He is the head of the Water and Wastewater Division of ERI, where he oversees all of the company's related projects, including a dedicated staff of experts in the field. Duties include treatability, feasibility and permit required studies, process automation, treatment design, piping design, construction coordination services, general treatment system operation, rate studies and permit compliance. He provides "hands on" operational assistance including the evaluation of the operation of wastewater and water treatment processes based on the results of field and laboratory testing. He designs improvements of treatment systems based on his actual field operating experience and he tailors his designs to each client's situation.

Mr. Kirchner is also experienced in working with groundwater recharge basins. He has managed various field investigations at landfill sites including the delineation of the real extent of waste placement and methane migration, and determined the characterization of groundwater contamination. Mr. Kirchner has also conducted contaminated site remedial investigations which services include managing the classification and disposal of contaminated soil.

Mr. Kirchner designs underground storage tank upgrades and new system installations. He also designs containment systems for aboveground storage tank systems.

In his role as Municipal Engineer, he also reviews subdivisions and site plans for conformance to Municipal Land Use Law, local ordinances and sound engineering practices. He holds the positions of City Engineer, Borough Engineer, Planning Board Engineer, Sewerage Authority Engineer and related titles in several New Jersey municipalities.

RELEVANT EXPERIENCE:

Medford Township – Plant Rehabilitation:

Medford Township Wastewater Treatment Plant Upgrades

Palmyra Sewer Treatment Plant Improvements

City of Burlington Mitchell Avenue Pump Station Replacement:

City of Burlington Water System Improvements

Beverly City Wastewater Treatment Plant Improvements:

Borough of Palmyra Wastewater Treatment Plant Sludge Improvements:

G. JEFFREY HANSON, PE, CME

Partner/ Project Engineer

REGISTRATION:
New Jersey Professional Engineer #47877, 2009

New Jersey Certified Municipal Engineer

EDUCATION:
Drexel University, Bachelor of Science, Civil Engineering, 1999

Environmental Resolutions, Inc.
815 East Gate Drive, Suite 103
Mount Laurel, NJ 08054
Phone: 856.235.7170
Fax: 856.273.9239
Website: erinj.com

SUMMARY:
Mr. Hanson has been an engineer with ERI since May 2000. He provides municipal engineering services, land use engineering services, landfill quality control/quality assurance engineering, stormwater management and septic design, and prepares studies for various facets within the civil engineering field. He is also responsible for assisting clients with permitting on state, county and local level.

EXPERIENCE:

- Provides design, bidding and construction management and contract administration services for Municipal and County projects, including those for NJDOT Local Aid. Duties include preliminary and final design, communications and oversight of contractor's progress during construction, communication between the municipality or county and the residents and business owners affected by the construction, coordination with utilities, the tracking of project costs, preparation of pay estimates, change orders, evaluation of price adjustments, and successful completion of project closeout procedures with the State utilizing the SAGE System.
- Provides site plan reviews and attends meetings for municipal land use boards.
- Provides expert opinions and testimony for legal and administrative actions.
- Performed quality assurance tasks for new landfill construction at Burlington County Landfill. Performed quality control tasks for construction of clay liner, geomembrane liner and leachate collection systems at Ocean County Landfill.
- Assists in the preparation of plans and specifications for environmental and general civil engineering projects including underground storage tank removal, monitoring well construction, contaminated soil excavation and removal, industrial plant expansion and pipeline inspection, sanitary sewer construction, storm sewer construction, road construction, water distribution network construction, potable water well treatment apparatus, stormwater basin remediation.
- Works with various municipal public works directors to meet requirements of their municipal stormwater permits (MS4).
- Prepared a disinfection profiling study for a potable water treatment plant with a surface water source and the design of a remedial storm drainage system.
- Assisted in the preparation of headworks analyses for various clients' sanitary sewer treatment plants.
- Assists municipal clients in application process for state and county grants and loans, such as NJDOT Municipal Aid Grants, NJ Environmental Infrastructure Trust Loans, Camden, and Burlington County Community Development Block Grants.
- Assists clients in a wide variety of State, County, and municipal permitting processes, such NJDEP Bureau of Safe Drinking Water, NJDEP Air Permitting, NJDEP Treatment Works Approvals, etc.
- Performs and witnesses soil profile pits for stormwater control measures, foundation investigations, stormwater management designs, and septic system designs.

RELEVANT EXPERIENCE:

Local, County and State-Funded Roadway Engineering Projects

Bridges and Dams

Bikeways, Trails and Pathways

Utilities

Planning & Zoning Board Reviews

Past and Present Public Entities Represented

ENVIRONMENTAL RESOLUTIONS, INC.

Environmental Resolutions, Inc. (ERI) was established in 1990 as a multi-disciplined civil, environmental engineering, planning and survey firm. Our professionals have extensive experience in all the aspects of engineering and planning.

ERI's professionals have been appointed engineers and planners to numerous municipalities, water and sewer authorities and planning, zoning and land development boards and environmental commissions. Our firm has well over twenty-nine (29) years of experience in all facets of engineering, planning and surveying.

The following is a list of current and past public sector clients:

Dates of Service	Client	Position
2012 – 2015, 2017, 2019	Borough of Palmyra	Engineer, Municipal
2009-2011	Borough of Medford Lakes	Engineer, Borough
1997 – 2004; 2008-2009	Borough of Berlin	Engineer, Municipal
2000 - Present	City of Beverly	Engineer, Municipal
1997 - Present	Township of Chesterfield	Engineer, Municipal
2013 - Present	Township of Delanco	Engineer, Municipal
1999 - Present	Township of Eastampton	Engineer, Municipal
2008 - Present	Township of Edgewater Park	Engineer, Municipal
2010 - 2012	Township of Lumberton	Engineer, Municipal
1992 – 2012, 2016-Present	Township of Medford	Engineer, Municipal
2007 - 2008	Township of Moorestown	Engineer, Municipal
2008 - Present	Township of New Hanover	Engineer, Municipal
2016- Present	North Hanover Township	Engineer, Municipal
2018 - Present	Township of Springfield	Engineer, Municipal
2014-2015	Borough of Stratford	Engineer, Municipal
2002 - 2011	Township of Voorhees	Engineer, Municipal
2000; 2008-2010, 2014	Township of Waterford	Engineer, Municipal
2007 - 2008	Township of Winslow	Engineer, Municipal
2018 - Present	City of Camden	Engineer, Municipal & Consulting
2017	City of Atlantic City	Engineer, Municipal (Pool)
2008 - Present	Borough of Lindenwold	Engineer, Municipal (shared)
2012 - Present	Borough of Laurel Springs	Engineer, Municipal and Consulting
2009 - 2010	Township of Winslow	Engineer, Municipal Utilities
2017 -Present	Township of Old Bridge	Engineer, On-Call
2010-2011, 2014 - Present	County of Somerset	Professional Engineering Services (Pool)
2019	Township of Moorestown	Engineer, Utilities and Stormwater
2009 - 2011	Township of Moorestown	Engineer, Conflict
2014 - 2016	Township of Washington MUA	Engineer, Conflict
2008 - Present	Township of Mount Laurel MUA	Engineer, Conflict/Auxiliary
2015	Fairfield Township	Engineer, Conflict Township
2007 – 2008, 2015 - Present	Township of Evesham	Engineer, Conflict/Backup
2015 - Present	Township of Moorestown	Engineer, Alternate
2019	Middlesex Borough	Engineer, Alternate Borough
2005 - 2006, 2017-2018	Township of Riverside	Engineer, Conflict, Special Projects
2012 - Present	Township of Florence	Engineer, Conflict/Special Projects

Past and Present Public Entities Represented

ENVIRONMENTAL RESOLUTIONS, INC.

Dates of Service	Client	Position
2012 - Present	City of Burlington	Engineer, Special Projects
2008 - Present	Township of Cherry Hill	Engineer, Special Projects
2015	Township of Cinnaminson	Engineer, Special Projects
2015 - Present	Township of Lumberton	Engineer, Special Projects
2011 - Present	Borough of Medford Lakes	Engineer, Special Projects
2017 - 2018	Middle Township	Engineer, Special Projects
2000 - 2012	Township of Montgomery	Engineer, Special Projects
2011 - 2012, 2016-2018	Borough of Palmyra	Engineer, Special Projects
2017-Present	Riverside Sewerage Authority	Engineer, Special Projects
2010-2012, 2014, 2016	South Brunswick Township	Engineer, Special Projects
2014	Township of Waterford	Engineer, Special Projects
2012 - Present	Township of Winslow	Engineer, Special Projects
2016 - Present	Borough of Berlin	Engineer, Special Projects (Pool)
2018 - Present	Borough of Glassboro	Engineer, Special Projects (Pool)
2019	Township of Hamilton	Engineer, Special Projects for the Department of Community Planning & Compliance
2017 - Present	Township of Hamilton	Engineer, Special Projects for the Department of Public Works
2019	Township of Hainesport	Engineer, Special Projects, Alternate
2015 - Present	Edgewater Park BOE	Engineer of Record
1999 - 2008	Hamilton Township MUA	Engineer, Auxiliary
2018 - Present	Township of Cinnaminson	Engineer, Conflict/Special Consulting
2000 - 2015	Township of Moorestown BOE	Engineer, Consulting
1995	Borough of River Edge	Engineer, Consulting
2014 - Present	Borough of Riverton	Engineer, Consulting
2016	Township of Willingboro	Engineer, Consulting
2013 – 2015	Borough of Riverton	Engineer, Streets & Roads
2012 - Present	Township of Medford	Engineer, Utility Projects
2001-2003	Township of Waterford	Engineer, Waterford MUA
2018 - Present	County of Ocean	Design Services, Small Roads & Bridges
1996 - 2017	Camden County Parks Department	Engineer, Consulting
2010 - Present	County of Camden (All Agencies)	Engineers (Pool)
2013 - 2014	Borough of Audubon	Engineer, Joint Land Use Board
2001 - Present	City of Beverly	Engineer, Joint Land Use Board
2013-Present	North Hanover Township	Engineer, Joint Land Use Board
1995 - 2012	City of Burlington	Engineer, Land Use Board
2012 - Present	Borough of Laurel Springs	Engineer, Land Use Board
2008 - Present	Township of New Hanover	Engineer, Land Use Board
1999 - Present	Township of Eastampton	Engineer, Land Use Planning Board
1997 - Present	Township of Chesterfield	Engineer, Planning Board
2004 - Present	Township of Edgewater Park	Engineer, Planning Board
1998 - Present	Borough of Medford Lakes	Engineer, Planning/Zoning Board

Past and Present Public Entities Represented

ENVIRONMENTAL RESOLUTIONS, INC.

Dates of Service	Client	Position
2018	Township of Washington (Burlco)	Engineer, Planning Board
2018 - Present	Casino Reinvestment Development Authority	Engineering Services, Land Use and Planning
2000 - Present	Borough of Lindenwold	Engineer, Joint Land Use Board
2018 - Present	Borough of Merchantville	Engineer, Joint Land Use Board
2018 - Present	Borough of Magnolia	Engineer, Joint Planning/Zoning Board
2010 – Present	Township of Waterford	Engineer, Land Use Board
1988 - Present	Township of Medford	Engineer, Planning Board
1988 - Present	Township of Medford	Engineer, Zoning Board of Adjustment
2001 - Present	Township of Old Bridge	Engineer, Consulting, Planning Board
2001 - 2008	Borough of Berlin	Engineer, Planning Board
1997 - Present	Township of Cherry Hill	Engineer, Planning Board
2008 - 2011, 2019	Township of Evesham	Engineer, Planning Board
2005 - 2010, 2019	Township of Montgomery	Engineer, Planning Board
2005 – 2012, 2015 - Present	Township of Moorestown	Engineer, Planning Board
2010 - 2015	Borough of Palmyra	Engineer, Planning Board
2017- Present	Township of Riverside	Engineer, Planning Board
2013 – Present	Borough of Riverton	Engineer, Planning Board
2012 - Present	Township of Voorhees	Engineer, Planning Board
2016 - Present	Borough of Woodlynne	Engineer, Planning Board
2009 - Present	Township of Old Bridge	Engineer, Consulting, Zoning Board
1999 - 2008; 2012-Present	Township of Cherry Hill	Engineer, Zoning Board
1997	Township of Edgewater Park	Engineer, Zoning Board
2009 - 2011, 2019	Township of Evesham	Engineer, Zoning Board
2005 - 2011	Township of Montgomery	Engineer, Zoning Board
2005 - 2010	Township of Moorestown	Engineer, Zoning Board
2014 – Present	Township of Southampton	Engineer, Zoning Board
2002 - 2007	Township of Voorhees	Engineer, Zoning Board
2017, 2019	Township of Willingboro	Engineer, Zoning Board
2019	Township of Woolwich	Engineer, Conflict, Joint Land Use Board
2018 - Present	City of Burlington	Engineer, Conflict, Land Use Board
2018 - Present	Delran Township	Engineer, Conflict, Planning Board
2011 - Present	Township of Evesham	Engineer, Conflict, Planning Board
2011-2017	Township of Mount Laurel	Engineer, Conflict, Planning Board
2015 - 2017	Township of Pemberton	Engineer, Conflict, Planning Board
2018 - Present	Delran Township	Engineer, Conflict, Zoning Board
2011 - Present	Township of Evesham	Engineer, Conflict, Zoning Board
2012-2017	Township of Mount Laurel	Engineer, Conflict, Zoning Board

Past and Present Public Entities Represented

ENVIRONMENTAL RESOLUTIONS, INC.

Dates of Service	Client	Position
2009 - 2010	Township of Winslow	Engineer, Conflict, Zoning Board
2018 - Present	County of Camden (All Agencies)	Engineering Review Services (Pool)
2015 - Present	Township of Hamilton Water Pollution Control Authority	Construction Services and Onsite Inspection Services
2005 - Present	Borough of Palmyra	Engineer, Sewer
2002 - Present	City of Beverly	Engineer, Sewerage Authority
2006 - Present	Township of Delanco	Engineer, Sewerage Authority
2013 – Present	Edgewater Park Sewerage Authority	Engineer, Sewerage Authority
2012 - Present	City of Burlington	Engineer, Water
1997 - 2010	Borough of Berlin	Engineer, Water and Sewer
1999 - 2007	City of Burlington	Engineer, Water and Sewer
2010- 2018	Township of Chesterfield	Operator, Sewer
2014 - 2018	Borough of Milltown	Operator, Sewer
2017 - Present	County of Atlantic	Engineer, Dam & Infrastructure Projects (Pool)
2015 - 2018	Borough of Lindenwold	Engineer, Environmental
2010-2011, 2013-Present	Township of Maple Shade	Engineer, Environmental
2002 - Present	Borough of Merchantville	Engineer, Environmental
2019	Middlesex Borough	Engineer, Environmental
2012 – 2014	Borough of Riverton	Engineer, Environmental
2016 - Present	Mount Holly MUA	Engineer, Environmental Consulting
2013 - Present	Township of Mount Holly	Engineer, Environmental/Dam Safety
2018	County of Ocean	Environmental Engineering, On-Call
2013	Borough of Audubon	Environmental Consultant
2018 - Present	Camden County Technical Schools	Environmental Consultant
1997 - 1998	Township of Evesham	Environmental Consultant
2010-2011	Township of Evesham MUA	Environmental Consultant
2017	Borough of Medford Lakes	Environmental Consultant
2003 - 2013	Township of Southampton	Environmental Consultant
2007 - 2015	Township of Upper Freehold	Environmental Consultant
2017	City of Atlantic City	Environmental Consultant (Pool)
2010 - Present	County of Atlantic	Environmental Consultant (Pool)
2018 - Present	City of Vineland	Environmental Consultant (Pool)
2011 - 2015, 2017-2019	County of Cumberland	Environmental Consultant, County
2018-2019	Cumberland County Improvement Authority	Environmental Consulting Services (Pool)
2003 - Present	Camden Co. Improvement Authority	Environmental Consultant / LSRP
2007 - 2012	Township of Cinnaminson	Environmental Consultant / LSRP
2012 - Present	Township of Eastampton	Environmental Consultant / LSRP
2001 - Present	Township of Mount Holly	Environmental Consultant / LSRP
2018 - Present	Borough of Clayton	LSRP
2017 - Present	City of Clifton	LSRP

Past and Present Public Entities Represented

ENVIRONMENTAL RESOLUTIONS, INC.

Dates of Service	Client	Position
2013 - Present	Township of Edgewater Park	LSRP
2017 - Present	Borough of Glassboro	LSRP
2019	Township of Medford	LSRP
2017 - Present	Red Bank Board of Education	LSRP
2017 - 2018	Woodlynne BOE	LSRP
2018 - Present	County of Camden (All Agencies)	LSRP for Linear Construction (Pool)
2018 - Present	Borough of Clayton	LSRP, Planning Board
2017	City of Atlantic City	Brownfields Consultant
2014 - Present	Township of Evesham MUA	Professional Geologist
2018	Casino Reinvestment Development Authority	Environmental and Industrial Hygiene Consulting, As-Needed
1997 - Present	Township of Chesterfield	Environmental Consultant, Planning Board
2010 - Present	Township of Evesham	Environmental Consultant, Zoning Board
2008–2011, 2017	Township of Mount Laurel	Engineer, Open Space
2018 - Present	Township of Mount Holly	Engineer, Redevelopment
2010 - 2012	Borough of Palmyra	Engineer, Redevelopment
2012 - 2017	Township of Riverside	Engineer, Redevelopment
2007 - 2008	City of Bridgeton	Master Plan Consultant
2007 - 2009	Borough of Lindenwold	Master Plan Update and Affordable Housing Planner
2011 - 2017	City of Gloucester City	Planner, City
2009 - 2016, 2018 - Present	City of Bridgeton	Planner, City
2019	City of Beverly	Planner, Economic Development
2012 - Present	Township of Florence	Planner, Municipal
2013 - Present	Borough of Laurel Springs	Planner, Municipal
2015	Township of Chesterfield	Planner, Township
2008 - 2009	Township of Delanco	Planner, Township
2000 - 2012, 2019	Township of Eastampton	Planner, Township
2010 - 2012, 2018 - Present	Township of Lumberton	Planner, Township
2004 - 2011	Township of Mount Holly	Planner, Township
2013-2014, 2017-Present	North Hanover Township	Planner, Township
2003 - 2007	Township of Pemberton	Planner, Township
2009 - 2017, 2019	Township of Riverside	Planner, Township
2015, 2018 - Present	Township of Westampton	Planner, Township
2015 - Present	Township of Mansfield	Planner, Township
2000 - Present	City of Beverly	Planning Consultant
1990 - Present	City of Burlington	Planning Consultant
2001 - Present	Borough of Lindenwold	Planning Consultant
2013- Present	Township of Cinnaminson	Planning Consultant, Township
2015 - 2017	Township of Medford	Affordable Housing Consultant
2009 - 2018	Township of Waterford	Affordable Housing Consultant

Past and Present Public Entities Represented

ENVIRONMENTAL RESOLUTIONS, INC.

Dates of Service	Client	Position
2014	Township of Cherry Hill	Affordable Housing Planner
2016 - Present	Township of Lumberton	Affordable Housing Planner
2009 - 2012	Township of Tabernacle	Planner for Master Plan Reexamination, Land Development Board
2013-2014	North Hanover Township	Planner, Joint Land Use Board
2018 - Present	Township of Lumberton	Planner, Land Development Board
2013 - Present	Borough of Laurel Springs	Planner, Land Use Board
2018	Township of Westampton	Planner, Land Use Board
2004 - Present	Township of Mount Holly	Planner, Land Use Planning Board
2019	Township of Southampton	Planner, Planning Board
2019	Township of Southampton	Planner, Zoning Board
2011 - 2017	City of Gloucester City	Planner, Planning & Zoning Board
2013 - Present	Township of Florence	Planner, Planning Board
2012 - Present	Township of Florence	Planner, Zoning Board of Adjustment
2017 - Present	Township of Medford	Conflict Planner, Planning Board
2018 - Present	Delran Township	Planner, Conflict, Planning Board
2018 - Present	Delran Township	Planner, Conflict, Zoning Board
2000 - 2012, 2016 - Present	Township of Eastampton	Planner, Land Use Planning Board
2007 - 2008	Borough of Berlin	Planner, Planning Board
2009 - Present	City of Bridgeton	Planner, Planning Board
2013 - Present	Township of Cinnaminson	Planner, Planning Board
2008 - Present	Township of Edgewater Park	Planner, Planning Board
2005 - 2010	Township of Moorestown	Planner, Planning Board
2018 - Present	Township of Old Bridge	Planner, Planning Board
2009 - 2016	Township of Riverside	Planner, Planning Board
2009 - Present	City of Bridgeton	Planner, Zoning Board
2013 - 2018	Township of Cinnaminson	Planner, Zoning Board
2005 - 2010	Township of Moorestown	Planner, Zoning Board
2017	Township of Riverside	Planner, Redevelopment
2018 - Present	Township of Old Bridge	Planner, Zoning Board
2019	Township of Hamilton	Alternate Planner Consultant, Planning Board
2012 - 2015	Township of Chesterfield	Planning Consultant, Planning Board
2015 - Present	Township of Mansfield	Planning Consultant, Planning Board
2015 - Present	Township of Mansfield	Planning Consultant, Zoning Board
2009 - Present	NJDOT	Non-Real Estate Specialist
2016 - Present	County of Burlington	Planner (Pool)
2019	Township of Moorestown	Alternate Township Landscape Architect/Park Design Consultant
2013 – Present	Township of Cherry Hill	Traffic Consultant, Municipal
1997 - Present	Township of Chesterfield	Traffic Engineer, Planning Board
2014 – Present	Township of Evesham	Traffic Engineer, Planning Board
2015 - 2018	Township of Old Bridge	Traffic Engineer, Planning Board

Past and Present Public Entities Represented

ENVIRONMENTAL RESOLUTIONS, INC.

Dates of Service	Client	Position
2014 – Present	Township of Evesham	Traffic Engineer, Zoning Board
2017 - 2018	Township of Old Bridge	Traffic Engineer, Zoning Board
2018	County of Ocean	Traffic Engineering Services, On-Call
2012 - Present	County of Burlington (shared services with Bridge Commission, Library, Tech Institute, and Rowan BCC)	Engineers, Surveyors, and Related Services (Pool)
2018 - Present	County of Camden (All Agencies)	Construction Management & Inspection Services (Pool)
2018 - Present	County of Ocean	Construction Project Management for Various Road and Bridge Projects
2017-Present	Township of Hamilton	Inspection, Land Development
2019	Township of Hamilton	Land Surveying Services
2018 - Present	County of Warren	Land Surveying Services
2011 - Present	County of Atlantic	Land Surveying Services (Pool)
2017	City of Atlantic City	Professional Land Surveyor (Pool)
2018 - Present	County of Ocean	Professional Land Surveyor (Pool)
2014 - Present	Cooper's Ferry Partnership	Construction Management & Inspection Services (Pool)
2014 - Present	Cooper' Ferry Partnership	Engineering Design Services (Pool)

Environmental Resolutions, Inc.

Licenses and Certifications

Environmental Resolutions, Inc. (ERI) employs a staff of fifty(50) professionals and support staff members. The following is a list of professionals that serve as resources for our clients:

Stacey Arcari, PE, PP, PTOE, CME
Engineer/Planner

Licenses and Certifications:	NJ Professional Engineer - 43447 PA Professional Engineer - PE061783 NJ Professional Planner - 06180 Professional Traffic Operations Engineer - 2196 NJ Certified Municipal Engineer - 07-04
Areas of Expertise:	Traffic and Transportation Planning and Zoning Board Reviews Municipal Engineering
Years of Service with Firm:	14 years
Years of Experience:	23 years

Rakesh R. Darji, PE, CME, PP, CFM
Engineer/Planner – Vice President

Licenses and Certifications:	NJ Professional Engineer - 42891 NJ Professional Planner - 5906 NJ Certified Municipal Engineer - 05-09 Certified Floodplain Manager - US-11-05621
Areas of Expertise:	Site Design and Planning Planning and Zoning Board Reviews Stormwater Management Municipal Engineering Permitting Hydrology School Board of Education Engineering
Years of Service with Firm:	11 years
Years of Experience:	23 years

Barbara J. Fegley, AICP, PP
Principal, Senior Vice President

Licenses and Certifications:	Professional Planner - 3259 American Institute of Certified Planners (AICP)
Areas of Expertise:	Planning Redevelopment and Urban Design Concepts Master Planning and COAH Compliance Environmental Permitting Wetlands Services Grants
Years of Service with Firm:	29 years
Years of Experience:	41 years

Edward E. Fox III, AICP, PP
Senior Planner

Licenses and Certifications:	Professional Planner – #5104 American Institute of Certified Planners
Areas of Expertise:	Land Use Planning and Zoning Comprehensive/Master Planning Smart Growth/Sustainability Planning Redevelopment Planning Urban Design and Historic Preservation Planning Grants Management
Years of Service with Firm:	1 year
Years of Experience:	34 years

Harry R. Fox, NICET III, CPSI
Asbestos Design, Planning & Management, Mold Inspection
Project Manager/Inspection Supervisor
Partner

Licenses and Certifications:	NICET Level III, Transportation Engineering Technology Highway Construction Certification #137558 Certified Mold Inspector and Assessor Certified Playground Safety Inspector EPA Certified Asbestos Management Planner EPA Certified Asbestos Building Inspector EPA Certified Asbestos Project Designer
Areas of Expertise:	Asbestos Abatement Demolition Stormwater Roadway Improvement Structural Investigations
Years of Service with Firm:	6 years
Years of Experience:	36 years

Alex Haffner, EIT
Engineering Support

Licenses and Certifications:	NJ Engineer-In-Training - #03709 EPA Certified Asbestos Building Inspector
Areas of Expertise	Water Treatment Contract Administration Permitting Cost Estimating OSHA 29 CFR 1910.146 Confined Space OSHA 29 CFR 1910.147 Lockout/Tagout OSHA 29 CFR 1910.35.58 & 157 Fire Safety, Evacuation and Extinguishers Storm and Sewer Line Inspections ADA Compliance
Years of Service with Firm:	<1 year
Years of Experience:	<1 year

G. Jeffrey Hanson, PE, CME
Project Engineer - Partner

Licenses and Certifications:	Professional Engineer - GE47877 NJ Certified Municipal Engineer
Areas of Expertise:	Municipal Engineering Planning and Zoning Board Reviews Landfill / Geotechnical Engineering Permitting Roadway Design Construction Management and Inspection Stormwater Management
Years of Service with Firm:	18 years
Years of Experience:	21 years

Kathryn Haywood, PE, CFM
Project Engineer

License and Certifications:	NJ Professional Engineer – 24GE05137200 Certified Floodplain Manager – US-16-09043
Areas of Expertise:	Site Design and Planning Stormwater Management Hydrology and Hydraulics Dam Design & Inspection (Class II, III, & IV)
Years of Service with Firm:	<1 year
Years of Experience:	22 years

Karen M. Hermack, PE
Utility Staff Engineer

Licenses and Certifications:	CA Professional Engineer - #65805 NJ Professional Engineer - #24GE05515800
Areas of Expertise:	Planning and Design of Water and Wastewater Facilities Water and Sewer System Modeling NJDEP Permitting and Compliance ArcGIS
Years of Service with the Firm:	1 year
Years of Experience:	5 years

Joseph R. Hirsh, PE, CME, CPWM
Project Engineer - Partner

Licenses and Certifications:	NJ Professional Engineer - GE46422 PA Professional Engineer - PE075727 Certified Public Works Manager - M1161 NJ Certified Municipal Engineer - 07-30
Areas of Expertise:	Municipal Engineering Infrastructure Improvements Water and Wastewater Facilities Planning and Zoning Board Reviews Site Design and Planning
Years of Service with Firm:	21 years
Years of Experience:	24 years

Ethan Hyder, CST
Survey Party Chief/Technician

Licenses and Certifications:	NSPS Certified Survey Technician, Level II Field 0204-1959
Areas of Expertise:	Land Surveying Topographic and Boundary Surveys GPS Proficiency *(Trimble GPS S-6 and R-10)* Robotic Instrument Proficiency *(Trimble Robotic S-3)* Survey Draftsman/Technician *(both AutoCAD and Microstation)* Wetland Delineation
Years of Service with Firm:	10 years
Years of Experience:	15 years

Ian Hyder
Inspector

Licenses and Certifications:	Certified Inspector of Cured-in-Place Pipe Installations, Inspector # CIPP-0419-0100638, NASSCO, 2019 Certified Inspector of Manhole Rehabilitation, Inspector # MR-0419-0100894, NASSCO, 2019
Areas of Expertise:	Construction Management and Observation
Years of Service with Firm:	1 year
Years of Experience:	1 year

Timothy G. Kaluhiokalani, LLA, PP, CPSI
Landscape Architect/Planner

Licenses and Certifications:	Licensed Landscape Architect - 28800 Professional Planner – 06079 Certified Playground Safety Inspector – 225120516
Areas of Expertise:	Landscape Planning and Design Streetscape Planning and Design Parks and Trails Planning and Design Athletic Field Planning and Design Commercial and Retail Site Plan Design Inspection and Project Management Planning and Zoning Board Reviews Planning Consultant for Various Municipal Boards Forestry Management
Years of Service with Firm:	15 years
Years of Experience:	39 years

Mathew E. Kensler, NICET III
Inspector

Licenses and Certifications:	NICET # 129808 Highway Construction Level III NJSAT #00-0972, HMA Construction Technologist
Areas of Expertise:	Construction Observation
Years of Service with Firm:	<1 year
Years of Experience:	20 years

William H. Kirchner, PE, CME, N-2
Principal, Vice President

Licenses and Certifications:	NJ Professional Engineer - 39578 NJ Certified Municipal Engineer - 732 NJDEP N-2 - 21189
Areas of Expertise:	Planning, Design, Construction Administration, Management, and Operations Support for Water and Wastewater Facilities Municipal Engineering Permitting Infrastructure Improvements
Years of Service with Firm:	28 years
Years of Experience:	32years

Matthew V. Litvinas, PE, CME
Project Engineer/Construction Observation

Licenses and Certifications:	NJ Professional Engineer – 50061 NJ Certified Municipal Engineer – 13-018
Areas of Expertise:	Planning and Zoning Board Reviews Infrastructure Improvements Construction Management and Inspection Construction Estimating Bridge Inspection Surveys
Years of Service with Firm:	14 years
Years of Experience:	14 years

Anthony R. Lopez, PE, CFM
Project Engineer

Licenses and Certifications:	NJ Professional Engineer, - 54028 Certified Flood Plain Manager, - 18-10594
Areas of Expertise:	Stormwater Management Individual Subsurface Wastewater Systems Hydrology and Hydraulics Dam Design & Inspections Grants & Permitting Planning and Zoning Board Reviews Municipal Engineering Construction Management & Inspection
Years of Service with Firm:	4 years
Years of Experience:	6 years

Ryan G. McCarthy, EIT

Licenses and Certifications:	NJ Engineer-In-Training, EIT-03235
Areas of Expertise:	Construction Observation Document Compliance of Federally-funded Projects Roadway Analysis and Design Storm and Sewer Line Inspections Soil Testing Cost Estimating Drafting Contract Administration Grant Acquisition Construction Management and Inspection
Years of Service with Firm:	3 years
Years of Experience:	3 years

Christopher J. Noll, PE, CME, PP
***Principal-in-Charge,* President and CEO**

Licenses and Certifications:	NJ Professional Engineer - 32206 Professional Planner - 3704 NJ Certified Municipal Engineer - 128 UST Certification - 11221
Areas of Expertise:	Municipal Engineering Potable Water Systems Infrastructure Improvements Solid Waste Management Planning and Zoning Board Reviews
Years of Service with Firm:	29 years
Years of Experience:	38 years

C. Jeremy Noll, PE, CME, CPWM
Project Engineer - Partner

Licenses and Certifications:	NJ Professional Engineer – 5037100 NJ Certified Municipal Engineer Certified Public Works Manager – M-2090 NJ Certified Municipal Inspector
Areas of Expertise:	Roadway Design Construction Management and Inspection Infrastructure Improvements Construction Estimating Planning and Zoning Board Reviews Dam Inspections and Design Stormwater Management School Board of Education Engineering
Years of Service with Firm:	12 years
Years of Experience:	15 years

Andrew J. Orsino, NICET III

Licenses and Certifications:	NICET III #137567 Transportation Engineering Technology& Highway Construction Inspection Portable Nuclear Gauge Safety Training. NUREG-1556, Volume 1 and 49 CFR subpart H and IATA 1.5.2. Troxler Badge ID # 03331120 OSHA 30-Hour Construction Safety and Health, 3 14-601127564 OSHA 29 CFR 1910.146 Permit-Required Confined Space Entry and Rescue. PSTS #: 6761-1 OSHA 29 CFR 1910.120 - 40-Hour Hazardous Site Worker. PSTS # 7502-1 Certified CQA Geosynthetic Materials and Compacted Clay Liner Inspector, Geosynthetic Institute, 2017
Areas of Expertise:	Landfill Quality Control & Cell Construction Management Construction Inspection
Years of Service with Firm:	12 years
Years of Experience:	12 years

Andrew M. Pisarcik, W-3, T-1

Licenses and Certifications:	NJDEP – T-1 Water Treatment License NJDEP – W-3 Water Distribution License
Areas of Expertise:	Construction Management and Observation Water and Sewer
Years of Service with Firm:	<1 year
Years of Experience:	36 years

Eric Pluckhorn, EIT

Licenses and Certifications	NJ Engineer-In-Training - #03481
Areas of Expertise:	Wastewater Storm and Sewer Pipe Inspections NJDEP Compliance Reporting Cost Estimating Drafting Contract Administration
Years of Service with Firm:	2 years
Years of Experience:	2 years

John T. Potts, NICET III, T-2, W-3
Inspector

Licenses and Certifications:	NICET #137602 Transportation Engineering Technology and Highway Construction Inspection Level III Society of Asphalt Technologists Certified Municipal Inspector NJDEP – T-2 Water Treatment License #15948 NJDEP – W-2 Water Distribution License #15993 Certified Inspector of Cured-in-Place Pipe Installations, Inspector # CIPP-0317-0202026, NASSCO, 2017
Areas of Expertise:	Construction Management and Observation Water and Sewer
Years of Service with Firm:	14 years
Years of Experience:	25 years

José D. Ruiz-del-Valle, PLS
Survey Department Manager

Licenses and Certifications:	NJ Professional Land Surveyor – GS43364 PR Professional Land Surveyor – 20881 PA Professional Land Surveyor – SU075599
Areas of Expertise:	Property Surveying Topography Site and Subdivision Design Site Investigation GPS Studies Laser Scanning Surveys Testimony
Years of Service with Firm:	1 year
Years of Experience:	21 years

Charles Sabatini, PE, CME, CPWM, PP
Engineer

Licenses and Certifications:	NJ Professional Engineer – 45199 NJ Professional Planner – 6018 NJ Certified Municipal Engineer – 05-32 Certified Public Works Manager – 1767 NJ Public Adjuster – 1104809 NJ Home Inspector - 143500
Areas of Expertise:	Municipal Engineering Planning and Zoning Board Reviews Site Plan Design Pump Station Design Grants & Permitting Building Upgrades & Additions Recreational Field Design School Board of Education Engineering Waterfront Development and Permitting
Years of Service with Firm:	1 year
Years of Experience:	26 years

John L. Scott, Jr. PLS, NICET III, C-3
Surveyor / Inspector

Licenses and Certifications:	NJ Licensed Surveyor – 37957 NICET #136866 Highway Construction Level III NJ Certified Municipal Inspector C-3 Supervisor/Competent Person for Deleading of Industrial Structures
Areas of Expertise:	Surveying Inspection and Oversight, Infrastructure Projects
Years of Service with Firm:	25 years
Years of Experience:	34 years

Marc H. Selover, LSRP, PG
Licensed Site Remediation Professional
Environmental Manager - Partner

Licenses and Certifications:	Professional Geologist - PG02180 UST Certification - 3324 NJDEP LSRP - 576436
Areas of Expertise:	GeoEnvironmental Services, Site Remediation Professional Environmental Site Assessments Environmental Impact Studies
Years of Service with Firm:	26 years
Years of Experience:	41 years

Rohan Tadas, CHMM, LSRP
Licensed Site Remediation Professional

Licenses & Certifications	Certified Hazardous Materials Manager #2992 New Jersey Subsurface Certification #002912 PA DEP Act 2 Land Recycling Certification NJ Licensed Site Remediation Professional #575486
Areas of Expertise:	Preliminary Assessments Site Investigations Site Remediation Project Management
Years of Service with Firm:	2 years
Years of Experience	32 years

Benjamin R. Weller, PE, CME, S3, C3, CPWM
Engineer / Project Manager - Partner

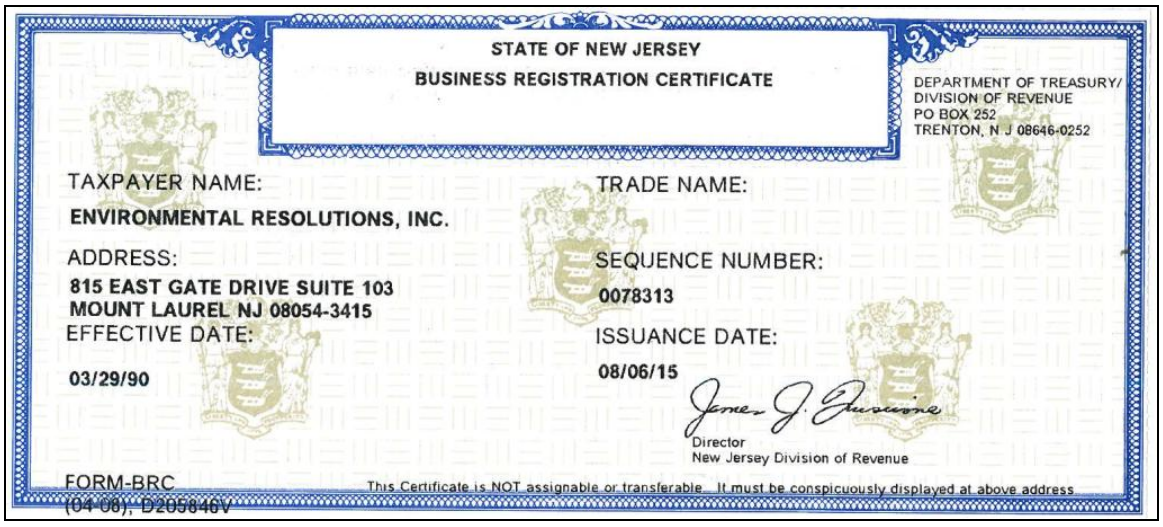
Licenses and Certifications:	NJ Professional Engineer – 49657 Certified Municipal Engineer – 13-032 NJDEP C-3 - 540952 NJDEP S-3 - 540954 Certified Public Works Manager M-1362 OSHA 29 CFR 1910.146 Confined Space OSHA 29 CFR 1910.147 Lockout/Tagout
Areas of Expertise:	Water and Wastewater Systems Wastewater Operations Municipal Engineering Permitting Infrastructure Improvements
Years of Service with Firm:	12 years
Years of Experience:	12 years

Neil Werket, LLA, RLA
Landscape Architect

Licenses and Certifications:	Licensed Landscape Architect – New Jersey No. 1301 Registered Landscape Architect - Pennsylvania No. 3112 Registered Landscape Architect - Delaware No. 0495
Areas of Expertise:	Site Analysis Visioning and Conceptual Development Site Plans Permitting Landscape Planning and Design Athletic Field Planning and Design Parks and Trails Planning and Design Streetscape Planning and Design Construction Documents Construction Administration/Observation
Years of Service with Firm:	2 years
Years of Experience:	15 years

Certificates

ENVIRONMENTAL RESOLUTIONS, INC.



STATE OF NEW JERSEY
BUSINESS REGISTRATION CERTIFICATE

DEPARTMENT OF TREASURY/
DIVISION OF REVENUE
PO BOX 252
TRENTON, N J 08646-0252

TAXPAYER NAME:
ENVIRONMENTAL RESOLUTIONS, INC.

TRADE NAME:

ADDRESS:
815 EAST GATE DRIVE SUITE 103
MOUNT LAUREL NJ 08054-3415

SEQUENCE NUMBER:
0078313

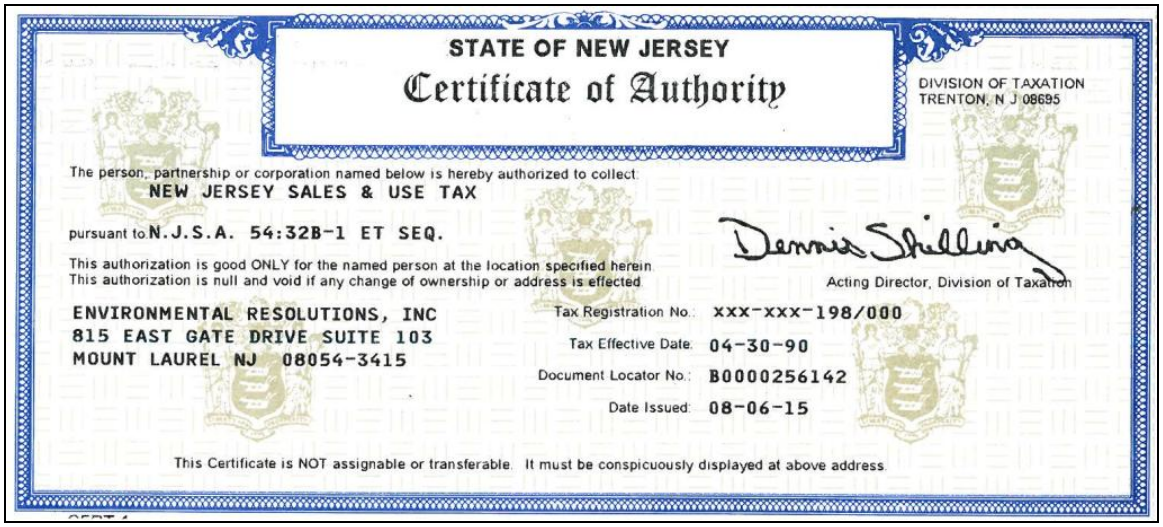
EFFECTIVE DATE:
03/29/90

ISSUANCE DATE:
08/06/15

James J. Fruscione
Director
New Jersey Division of Revenue

FORM-BRC
(04-08); D205846V

This Certificate is NOT assignable or transferable. It must be conspicuously displayed at above address.



STATE OF NEW JERSEY
Certificate of Authority

DIVISION OF TAXATION
TRENTON, N J 08695

The person, partnership or corporation named below is hereby authorized to collect:
NEW JERSEY SALES & USE TAX

pursuant to N.J.S.A. 54:32B-1 ET SEQ.

This authorization is good ONLY for the named person at the location specified herein.
This authorization is null and void if any change of ownership or address is effected.

Dennis Shilling
Acting Director, Division of Taxation

ENVIRONMENTAL RESOLUTIONS, INC
815 EAST GATE DRIVE SUITE 103
MOUNT LAUREL NJ 08054-3415

Tax Registration No.: xxx-xxx-198/000
Tax Effective Date: 04-30-90
Document Locator No.: B0000256142
Date Issued: 08-06-15

This Certificate is NOT assignable or transferable. It must be conspicuously displayed at above address.

Certification 19397

CERTIFICATE OF EMPLOYEE INFORMATION REPORT
RENEWAL

This is to certify that the contractor listed below has submitted an Employee Information Report pursuant to N.J.A.C. 17:27-1.1 et. seq. and the State Treasurer has approved said report. This approval will remain in effect for the period of 15-JUL-2009 to 15-JUL-2016

ENVIRONMENTAL RESOLUTIONS, INC.
815 E. GATE DRIVE, SUITE 103
MT. LAUREL NJ 08054

Robert A. Romano
Robert A. Romano,
Acting State Treasurer

State of New Jersey

Division of Consumer Affairs

State Board of Professional Engineers and Land Surveyors

THIS CERTIFIES THAT

ENVIRONMENTAL RESOLUTIONS, INC.
815 East Gate Drive
Suite 103
Mount Laurel, NJ 08054

Has met the requirements of the State Board of Professional Engineers and Land Surveyors and is hereby issued a

CERTIFICATE OF AUTHORIZATION

to offer the following services

Engineering & Land Surveying 07/17/2002

Person in Responsible Charge CHRISTOPHR J NOLL

For the names of other Responsible Charge Licensees, go to: http://www.njconsumeraffairs.com/pels/certrpt.pdf

Date: September 18, 2015
Certificate No. 24GA27974500
Expiration Date: 08/31/2016

Executive Director

Professional References

ENVIRONMENTAL RESOLUTIONS, INC.

NAME & TITLE	ADDRESS	PHONE
Ms. Katherine Burger, RMC Township Manager Medford Township	17 North Main Street Medford, NJ 08055	609-654-2608
Mr. Thomas Fynan Chairman Delanco Sewerage Authority	770 Coopertown Road Delanco, NJ 08075	856-461-6876
Mr. John Gural Administrator Borough of Palmyra	20 W. Broad Street Palmyra, NJ 08065	856-829-6100 856-829-1691
Mr. Robert Lowden Chairman Beverly Sewerage Authority	446 Broad Street Beverly, NJ 08010	609-387-0042
Ms. Tina Stack Environmental Scientist Township of Hamilton Pollution Control	300 Hobson Avenue Hamilton, NJ 08610	609-581-4140
Mr. Douglas Weller Executive Director Beverly/Delanco Sewerage Authorities	770 Coopertown Road Delanco, NJ 08075	609-387-0042
Mr. Ryan Willitts Asst. Director of Neighborhood Services for Utilities Medford Township	17 North Main Street Medford, NJ 08055	609-654-7886
Mr. Richard Wolbert City Administrator and Public Safety Director City of Beverly	446 Broad Street Beverly, NJ 08010	609-387-1881 609-747-4090

Certificate of Insurance

ENVIRONMENTAL RESOLUTIONS, INC.

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 11/7/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Marquis Professional Risk 485A Route 1 South, Suite 240 Iselin NJ 08830	**CONTACT NAME:** **PHONE (A/C, No, Ext):** 732-243-1300 **FAX (A/C, No):** 973-227-4026 **E-MAIL ADDRESS:** certificaterequest@marquispro.com
INSURED ENVIRES-02 Environmental Resolutions Inc. Barbara J. Fegley 815 East Gate Drive, Suite 103 Mt. Laurel NJ 08054	**INSURER(S) AFFORDING COVERAGE** — **NAIC #** **INSURER A :** RLI Insurance Company — 13056 **INSURER B :** Scottsdale Ins. Co. — 41297 **INSURER C :** **INSURER D :** **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** 972860453 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR X Ltd Contractual X Liability GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [X] LOC OTHER:	Y	Y	PSB0001918	1/1/2019	1/1/2020	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG Employee Benefit	$ 1,000,000 $ 1,000,000 $ 10,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $ 1,000,000
A	AUTOMOBILE LIABILITY X ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS [ ] HIRED AUTOS ONLY [ ] NON-OWNED AUTOS ONLY	Y	Y	PSA0001383	1/1/2019	1/1/2020	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
A	X UMBRELLA LIAB [X] OCCUR EXCESS LIAB [ ] CLAIMS-MADE DED [X] RETENTION $ 10,000	Y	Y	PSE0001515	1/1/2019	1/1/2020	EACH OCCURRENCE AGGREGATE	$ 5,000,000 $ 5,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBEREXCLUDED? [ ] N/A (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	Y	PSW0001716	1/1/2019	1/1/2020	X PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ $ 1,000,000 $ 1,000,000 $ 1,000,000
B	Professional Liability			VRS0004194	11/7/2019	11/7/2020	Per Claim Aggregate	2,000,000 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Evidence of Insurance

CERTIFICATE HOLDER	**CANCELLATION**
Evidence of Insurance	**SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.** **AUTHORIZED REPRESENTATIVE**

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Statements

Environmental Resolutions, Inc. is not ineligible to receive award of a contract due to the firm's inclusion on any federal, Pennsylvania or New Jersey State lists of debarred contractors or otherwise ineligible to be awarded a contract using federal or state funds.

In addition, Environmental Resolutions, Inc. is not aware of any current or pending regulatory investigations or violations against our firm or any employee of our firm.

ENVIRONMENTAL RESOLUTIONS, INC.

Engineers • Planners • Scientists • Surveyors

Section 3: Facilities

Facilities

Environmental Resolutions, Inc.'s key personnel that would be assigned to this engagement work out of ERI's Mount Laurel headquarters at the following address:

Environmental Resolutions, Inc.
815 East Gate Drive, Suite 103
Mount Laurel, NJ 08054
Phone: (856) 235-7170
Fax: (856) 273-9239

Our firm is conveniently located in Mount Laurel, minutes from I-295, Route 73, Route 38 and the New Jersey Turnpike.

ENVIRONMENTAL RESOLUTIONS, INC.
Engineers • Planners • Scientists • Surveyors

Section 4: Conflicts of Interest

Conflicts of Interest

Environmental Resolutions Inc. does not have any existing conflicts of interest or potential conflicts of interest with this engagement or the Borough of Berlin. If any potential conflict should arise our firm would immediately notify the Borough.

ENVIRONMENTAL RESOLUTIONS, INC.

Engineers • Planners • Scientists • Surveyors

Section 5: Fee Proposal

2020 Schedule of Hourly Rates

ENVIRONMENTAL RESOLUTIONS, INC.

Engineering and Planning

Principal	$ 145.00 - $ 160.00
Licensed Engineer/Project Manager	$ 115.00 - $ 150.00
Licensed Planner	$ 130.00 - $ 145.00
Planning Assistant	$ 70.00 - $ 90.00
Licensed Site Remediation Professional	$ 170.00
Hydrogeologist	$ 80.00 - $100.00
Environmental Scientist	$ 65.00 - $ 80.00
Engineering Assistant	$ 65.00 - $ 95.00
Licensed/Registered Landscape Architect	$ 105.00 - $125.00

Inspecting

Senior Inspector (NICET II, III)	$ 75.00 - $105.00
Junior Inspector	$ 65.00 - $ 75.00

Drafting

CAD Drafter	$ 90.00 - $ 110.00

Surveying

Licensed Surveyor	$125.00 - $140.00
1 Man Robotic Survey Crew	$135.00
2 Man Survey Crew	$180.00

No charge for routine photo copying or clerical services.

Overhead costs are included in the above hourly rates.