



# HanoverEngineering

3355 Route 611 • Suite 1 • Bartonsville, PA 18321-7822  
Phone: 570.688.9550 • Fax: 570.688.9768 • HanoverEng.com

February 5, 2018

Mr. John J. Jablowski, Jr., MPA  
Township Manager  
Tobyhanna Township  
105 Government Center Way  
Pocono Pines, PA 18350

RE: Sewage Enforcement Officer Services  
Tobyhanna Township, Monroe County  
Hanover Project P18-0136

RECEIVED  
FEB - 6 2018

Dear Mr. Jablowski:

BY: .....

It has come to our attention that, due to a recent vacancy, Tobyhanna Township may be seeking to fulfill the position of Sewage Enforcement Officer (SEO) for calendar year 2018. Hanover Engineering Associates respectfully requests the Township's consideration in this matter and have included six (6) copies of the enclosed Company Qualifications for distribution, as well as copies of our 2018 Professional Fee Schedule. We request a copy of this information be presented to each Board member. The remaining copy has been provided for the Township's records.

As a firm, Hanover Engineering has been administering the Act 537 program for municipalities since the 1970s. Our firm currently employs seven (7) certified SEOs who combined offer over 115 years of experience. With the understanding that no two municipalities are the same, we have tailored the administration of the program to suit each client's individual needs in many ways throughout this time. Alternatives include everything from comprehensive management of the administration and enforcement of Act 537 to limited involvement of the duties and responsibilities required by a certified SEO, as well as everything in between. Our knowledgeable, professional, and friendly staff have great experience working closely with municipalities to offer a wide array of program services, and have assisted many different municipal clients in many ways to ensure smooth, successful administration of the Act 537 Program.

We understand the Township operates on a limited budget, and believe we can offer an effective service to the Township and their constituents at a value that suits this budget. Our existing 10-year appointment in neighboring Coolbaugh Township provides a unique opportunity for cost-savings due not only to our presence in the area geographically, but also due to our existing knowledge of the area, contractors, and landowners with whom we would be working.

We would be available to further discuss the Township's goals and desires, as well as Hanover Engineering's unique qualifications which could be utilized to ensure the 537 program is administered, and associated SEO services are fulfilled, as cost-effectively and efficiently as possible in Tobyhanna Township.

Mr. John J. Jablowski, Jr., MPA  
Township Manager

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February 5, 2018

Once the Township has had a chance to review the enclosed information, we will be pleased to meet with you and/or representatives of the Township to answer any questions you may have regarding the details of our proposal or the qualifications of our firm. Please contact me at 610.217.5944, or by e-mail at [sbrown@hanovereng.com](mailto:sbrown@hanovereng.com).

We look forward to the opportunity to assist Tobyhanna Township with sewage enforcement services or other needs of the Township.

Respectfully,

HANOVER ENGINEERING

Handwritten signature of Scott J. Brown in blue ink, followed by the initials 'djm'.

Scott J. Brown, SEO  
Vice President

sjb:jas/djn

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Enclosure(s)





# HanoverEngineering

## Company Qualifications

### **Tobyhanna Township Monroe County, Pennsylvania**

**Sewage Enforcement Officer Services  
February 5, 2018**

#### LOCATIONS

**Bethlehem Office (Corporate Headquarters)**  
252 Brodhead Road, Suite 100 · Bethlehem, PA 18017-8944  
610.691.5644 · Fax 610.691.6968

**Lancaster-Lebanon Office**  
20 C Snyder Lane · Ephrata, PA 17522-9101  
717.721.7444 · Fax 717.721.7447

**Portersville Office**  
1271 Perry Highway, PO Box 218 · Portersville, PA 16051-0218  
724.598.6414 · Fax 724.368.4184

**Allentown Office**  
5920 Hamilton Blvd., Suite 108 · Allentown, PA 18106-8942  
610.395.9222 · Fax 610.395.9262

**Elizabethtown Office**  
48 North Market Street · Elizabethtown, PA 17022-2025  
717.367.0144 · Fax 717.361.1012

**Poconos Office**  
3355 Route 611, Suite 1 · Bartonsville, PA 18321-7822  
570.688.9550 · Fax 570.688.9768

**Wellsboro Office**  
3006 Princeton Street · Wellsboro, PA 16901-7632  
570.724.5326 · Fax 570.724.5386



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• Scott J. Brown, SEO	
• Gregory C. Gray, SEO	
• Christopher A. Taylor, PG, SEO	
• Pamela J. Kemecsy, SEO	

## COMPANY PROFILE

Hanover Engineering Associates, Inc. is a Pennsylvania Corporation formed in January 1970. Over the past 45 years, the company has grown steadily to its current staff of over 70 employees. As the company has grown, Hanover Engineering has continued to expand its service area, and has opened offices in regions as needed to support its growing clientele. Hanover Engineering currently has seven office locations in Pennsylvania. The firm's corporate headquarters is located on Brodhead Road in Hanover Township, north of Bethlehem, PA.

Over the years, Hanover Engineering has provided consulting civil engineering, structural engineering, environmental, surveying, and sewage enforcement services in Pennsylvania, Maryland, New Jersey and other surrounding states through its offices located in the Lehigh Valley, Lancaster-Lebanon and Pocono areas. Over the last few years, Hanover Engineering expanded its service area to include northern and western Pennsylvania, as well as the eastern Ohio region.

While Hanover Engineering has continued to grow and expand its services over the years, its corporate mission has remained the same – service to our clients and the community. Our goal is to provide quality designs that result in improvements to our community and our natural surroundings through engineering solutions that are sustainable, cost-effective, and environmentally responsible.

Hanover Engineering's success is a result of its commitment to quality, exceptional service, and lifelong relationships with our clients. More than 90 percent of our business volume comes from existing and returning clients – a testament to customer satisfaction. Members of the professional staff are not just Hanover Engineering employees; each one is the "client engineer." In that role, our staff members meet regularly with clients and visit the project sites to support the client, from the design inception to the point of construction completion.

As a local, employee-owned engineering firm, Hanover Engineering is proud to contribute to the quality of life in the areas and communities we serve.

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All company shareholders are full-time employees of Hanover Engineering. The company's owners/officers are as follows:

Charles H. Unangst, PE, PLS, President and CEO	
Jill Lipovsky Smith, PE, Vice President and COO	Brien R. Kocher, PE, Vice President and CFO
Robert J. Lynn, PE, Vice President of Municipal Engineering	Scott J. Brown, SEO, Vice President of Energy Services
J. Bradley Youst, PE, Vice President	Jeffrey A. Lazar, PE
Phillip C. Malitsch, PE	Salvatore J. Caiazza, PE

## DEFINITION OF SERVICES OFFERED

Hanover Engineering offers to perform tasks and duties required by Pennsylvania Act 537 and as directed by the Township. These tasks may include the following:

- Conducting or Witnessing Soil Probes
- Conducting or Witnessing Percolation Tests
- Design Review
- Permit Issuance
- Construction Inspections
- Complaint and Malfunction Investigation
- Sewage Facilities Planning Module Review for Subdivision or Land Development projects
- General Office Work as required (telephone calls, e-mails, meetings with applicants, etc.)
- Completion of Annual Reimbursement Application, if applicable

Hanover Engineering is flexible to the needs of Tobyhanna Township; therefore tasks may be added or removed, per the Township's request.

For continuity, we recommend one individual be the Township's primary contact for services. However, to ensure coverage, the following Sewage Enforcement Officers would be available to perform SEO duties in Tobyhanna Township:

- Jacob A. Schray, SEO
- Scott J. Brown, SEO, Vice President
- Gregory C. Gray, SEO
- Christopher A. Taylor, PG, SEO
- Pamela J. Kemecsy, SEO

Our staff also includes a Professional Soil Scientist (not listed above) who could be available to serve the Township if needed.

## EXPERIENCE AND QUALIFICATIONS OF KEY PERSONNEL

**Jacob A. Schray, SEO** would serve as the primary contact for Sewage Enforcement services we would provide to Tobyhanna Township.

- **Jacob A. Schray, SEO:** With over 15 years as a Sewage Enforcement Officer, Mr. Schray has been responsible for enforcing the Pennsylvania Sewage Facilities Act in several area municipalities. In this capacity, he has provided diligent, cost-effective services, as well as meaningful interaction with municipalities, PA DEP, and the public. Specific experience includes soil testing, site evaluation, sewage system designs, inspections, review of Act 537 Sewage Facilities Official Plans, and subdivision and land development reviews and inspection. Mr. Schray is also a certified Host Municipal Inspector and Building Code Official.

Mr. Schray has maintained his certifications by regularly attending field-specific continuing education classes, and has built on his knowledge of the field by attending various seminars and forums.

A detailed resume for Mr. Schray is provided in Appendix A.

Additional individuals who may play a role in providing Sewage Enforcement services to the Township include the following:

- **Scott J. Brown, Vice President and SEO:** Mr. Brown has over 30 years experience in project management involving the Sewage Enforcement Officer staff, including providing soil testing, sewage system designs, and inspections. He also provides project management for and preparation of Act 537 Sewage Facilities Official Plans, Township Engineer assistance, subdivision reviews and inspection, and capital project design and construction inspection. In addition, Mr. Brown has over 25 years experience as a Host Municipal Inspector, providing landfill inspections and permit plan reviews. Mr. Brown would be available to Tobyhanna Township as needed.
- **Gregory C. Gray, SEO:** Mr. Gray became a Certified Sewage Enforcement Officer in 2016. His background in geography and Geographic Information Systems has helped him to quickly gain valuable knowledge and experience in the world of onlot septic systems. When he is not performing SEO-related tasks, Mr. Gray's services are a valued asset to Hanover Engineering's surveying and inspection departments. Mr. Gray would be available to assist Mr. Schray as needed by conducting or observing soil testing, performing inspections, and issuing permits.
- **Christopher A. Taylor, PG, SEO:** Mr. Taylor is a licensed Professional Geologist, a Certified Sewage Enforcement Officer, and a Host Municipal Inspector in Pennsylvania. He has over 24 years experience in the field of Geology, infiltration testing, and supervising installation of wells and pumping tests, and would provide support for the SEO staff, if needed.



- **Pamela J. Kemecsy, SEO:** Ms. Kemecsy obtained her SEO Certification in 2007. She spent several years actively performing SEO duties and gaining vital knowledge and experience in the field. Ms. Kemecsy's current responsibilities as Project Scientist have allowed her to expand her expertise into a broader range of environmental science. Ms. Kemecsy maintains her SEO Certification by regularly attending relevant SEO continuing education seminars. Ms. Kemecsy would be available to Tobyhanna Township in the event of a scheduling conflict.

Please see Appendix A for detailed Employee Resumes of the Key Personnel listed above.





## REFERENCES

Hanover Engineering currently provides Certified Sewage Enforcement Officer services for the following municipal clients:

### LEHIGH COUNTY

Emmaus Borough	Mr. Shane Pepe, Manager	610.965.9292
Fountain Hill Borough	Mr. Anthony Branco, Borough Administrator	610.867.0301
Salisbury Township (Alt. SEO)	Ms. Cathy Bonaskiewich, Manager	610.797.4000
South Whitehall Township (Alt. SEO)	Ms. Renee Bickel, Manager	610.398.0401
Upper Saucon Township	Mr. Thomas F. Bell, Manager	610.282.1171

### NORTHAMPTON COUNTY

East Allen Township	Ms. Deborah A. Seiple, Manager	610.262.7961
Hanover Township	Mr. John J. Finnigan, Jr., Manager	610.866.1140
Lower Saucon Township	Mr. Jack Cahalan, Manager	610.865.3291
Plainfield Township (Alt. SEO)	Mr. Thomas Petrucci, Manager/Secretary	610.759.6944

### BERKS COUNTY

Longswamp Township (Alt. SEO)	Mr. Michael Sacks, Chair, Board of Supervisors	610.682.7388
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### LANCASTER COUNTY

Adamstown Borough	Ms. Sam Toffy, Administrative Secretary/Assistant Treasurer	717.484.2280
Denver Borough	Mr. Michael Hession, Manager	717.336.2831
Pequea Township (Alt. SEO)	Ms. Lori Ann Leltch, Secretary/Treasurer	717.464.2322

### MONROE COUNTY

Coolbaugh Township	Ms. Maureen Mills, Business Manager/Controller	570.894.8490
Eldred Township	Ms. Ann Velopolcek, Secretary	610.381.4252

### LAWRENCE COUNTY

Shenango Township (Alt. SEO)	Mr. Albert D. Burick, III, Supervisor/Secretary-Treasurer	724.658.4460
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## ADDITIONAL INFORMATION

### **Fees for Services**

Hanover Engineering provides a billing structure based on hourly rates in accordance with our firm's Professional Fee Schedule. Time is billed for minimum 15 minute (¼ hour) increments for Municipal reviews and projects. Generally, our firm does not charge overtime for attendance at Township meetings. This includes monthly Supervisors, Planning Commission, and Zoning Hearing Board meetings, as applicable.

Additional charges, including billable mileage (from our closest office), overtime charges, cost for plan copies, and field equipment usage, are included and described at the bottom of our Professional Fee Schedule.

A copy of our 2018 Professional Fee Schedule is provided within this Qualifications Package.

Our annual rate increases over the last five (5) years and anticipated in future years generally varies between 0% to 3% depending on the specific job category.

### **Conflicts of Interest**

Hanover Engineering has a policy, consistent with the American Society of Civil Engineers' *Code of Ethics*, that it will not provide Engineering or Surveying services to any private enterprises or individuals within a community that retains Hanover Engineering as their appointed Municipal Engineer.

Hanover Engineering has provided or currently provides engineering, planning, and environmental consulting services for several clients located in or having property interests in Tobyhanna Township. None of our projects or anticipated work for these clients involves sewage planning or onlot septic system permitting or installation. The following is a list of return clients for whom we anticipate new or ongoing project work within Tobyhanna Township and a brief description of services provided:

- Wildlands Conservancy - Hanover Engineering has provided professional land surveying, trail planning, and environmental consulting services for land preservation projects within the Township for over twenty (20) years. We are currently designing a parking area for a trailhead that will access hiking trails within the Thom Darling Preserve.
- The Nature Conservancy - Hanover Engineering has provided professional land surveying, trail planning, and environmental consulting services for land preservation projects within the Township for over twenty (20) years. We have no current projects with The Nature Conservancy.
- Pocono Lake Preserve - Hanover Engineering has been providing lake management services to the Preserve on an annual basis for nearly twelve (12) years. During this time, we have also provided various





## ADDITIONAL INFORMATION

planning and engineering services to the Preserve, including bridge inspection, community planning, stormwater management, environmental consulting, and structural inspections. Current work with the Preserve includes the ongoing annual lake water quality studies.

- Tunkhannock Creek Association – Hanover Engineering has been working with the Association on trout habitat improvement projects and water quality studies for approximately ten (10) years. We are currently completing a study of the Upper Tunkhannock Creek to determine potential impacts that may affect trout habitat and migration.
- Locust Lake Village Property Owner's Association – Hanover Engineering has been the appointed engineer by Locust Lake Village to provide services for dam inspection and maintenance, as well as general lake management consulting. We are currently working on a stormwater management plan within the vicinity of the community's lakes to help protect the lakes from water quality impacts.

Should Tobyhanna Township retain Hanover Engineering for Sewage Enforcement Officer services, we will coordinate all ongoing and new private engineering and consulting projects with the Township on a case-by-case basis to fully ensure that conflicts of interest related to our position with the Township do not arise.





# Hanover Engineering

## Professional Engineering and Consulting Services

### **Municipal Engineering and Planning**

- Streets, Bridges and Culverts
- Public Water and Sanitary Sewer Systems
- Wastewater Treatment Facilities
- Parks and Recreational Area Design
- Open Space and Recreation Plans
- MS4 Compliance and Reporting
- Watershed Management Ordinances
- Act 537 Sewage Facilities Plans
- Act 209 Traffic Impact Fee Ordinances
- Comprehensive Planning
- SALDO and Zoning Ordinances
- Capital Improvements Programming

### **Structural Engineering**

- Steel and Concrete Structures
- Structural Analysis
- Crane Runway Evaluation, Inspection and Analysis
- Bridge Inspection
- Rehabilitation Design
- Foundation Design
- Structural Inspection and Design for Industrial and Commercial Buildings

### **Mechanical Engineering**

- Pipeline and Facility Engineering
- Feasibility Studies
- Budgetary Estimating
- Front End Engineering Design
- Process Flow Diagrams
- Piping and Instrumentation Diagrams
- Mechanical, Civil, and Electrical Detailed Drawings
- Hydraulic Analysis
- Project Management Services

### **Subdivision and Land Development**

- Residential Subdivisions
- Commercial and Industrial Development
- Low Impact Development
- Development Impact Studies
- Feasibility Studies and Site Evaluation
- Regulatory Compliance Evaluations

### **Utility Line Design and Permitting**

- Utility Line Permitting and Permit Compliance
- ESCGP-2 and NPDES Permitting
- DEP and ACOE Permitting
- Article VII Application Process
- Route Development and Final Alignment Layout
- Project Coordination/Project Management
- Horizontal Direction Drill Design
- Legal Plat Preparation
- Compressor Facilities Permitting
- Gas Well Pad Permitting
- Environmental and E&S Feature Inspections

### **Transportation Planning and Permitting**

- Municipal Impact Fee Studies
- Traffic Impact Analyses
- Highway Occupancy Permitting
- Traffic Signal Design and Permitting
- Pedestrian Mobility Enhancements Transportation
- Capital Improvements Planning

### **Environmental Services**

- Wetland Delineation and Permitting
- Wetland Restoration and Mitigation
- Stream Assessment, Monitoring and Restoration
- Trout Habitation Improvements and Restoration
- Lake Studies and Management
- Dam Engineering, Planning & Permitting
- Watershed Studies
- Threatened and Endangered Species Surveys
- Rivers Conservation and Greenways Planning
- Cold Water Conservation Plans
- Pond Evaluations
- Dredging Design and Permitting
- Stormwater Basin Retrofits
- Environmental Site Assessments (Phase I & II)
- Perc Testing and Soil Probe Analysis
- Onlot Sewer System Designs
- Water Supply and Pumping Design
- Geologic Studies (incl. Core Boring Evaluation)
- Hydrogeologic Studies
- Soil Classification
- Sinkhole Investigation
- Carbonate Geology Studies

### **Stormwater Management**

- Best Management Practices (BMPs) Design
- Post Construction Stormwater Management
- Stormwater Management Facility Design
- NPDES Phase II Stormwater Compliance
- Soil Investigations and Infiltration Testing
- Floodplain and Floodway Studies
- Culvert Rehabilitation/Replacement Design
- Erosion and Sediment Pollution Control Plans
- Stormwater Facility Inspection
- Act 167 Planning
- Low Impact Development

### **Surveying**

- ALTA/ACSM Land Title Surveys
- Boundary and Topographic Surveys
- Construction Stakeout
- As-Built Surveys
- Aerial Photography Ground Control
- Heavy Construction Erection Surveys
- Bathymetric Surveys (waterway bottom)
- Flood Elevation Studies
- FEMA/NFIP Flood Insurance Certifications
- Alignment Surveys for Industrial Facilities

### **Computer Aided Drafting (CAD), Geographic Information Systems (GIS) and Global Positioning System (GPS)**

- Roadway Layout and Profiling
- Database Creation and Management
- Comprehensive Plan Mapping
- Municipal Mapping and Database Development
- Sinkhole Location and Database Development
- Water, Sewer, and Utility System Mapping
- Watershed Mapping and Database Development
- GPS Surveys
- Desktop, Mobile, and Web Geospatial Application Development

**HANOVER ENGINEERING ASSOCIATES, INC**  
**2018 MUNICIPAL PROFESSIONAL FEE SCHEDULE**

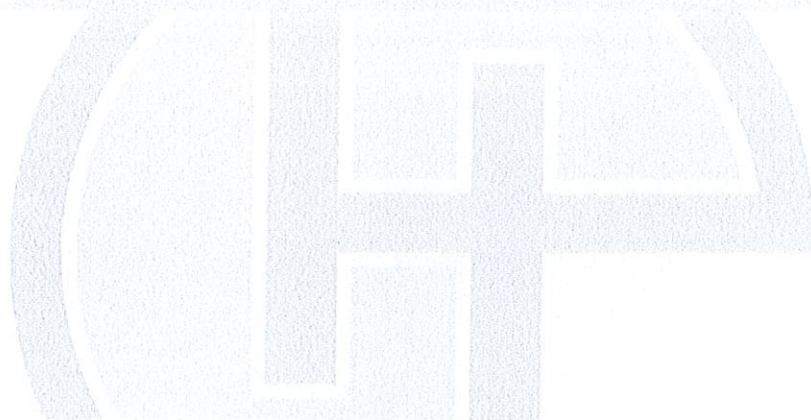
<u>DESCRIPTION</u>	<u>HOURLY RATE</u>
<u>ENGINEER</u>	
Senior Engineer	\$ 110.00
Registered	104.50
Graduate (Nonregistered)	90.00
<u>CERTIFIED PLANNER</u>	104.50
<u>REGISTERED GEOLOGIST / SENIOR SCIENTIST</u>	104.50
<u>REGISTERED LANDSCAPE ARCHITECT</u>	104.50
<u>TRAFFIC SPECIALIST</u>	104.50
<u>REGISTERED SURVEYOR</u>	98.00
<u>ENVIRONMENTAL</u>	
Environmental Specialist	92.00
Environmental Technician	80.50
<u>GIS (GEOGRAPHIC INFORMATION SYSTEMS) WORK</u>	
GIS Specialist	84.50
GIS Technician	63.00
<u>DESIGN / DRAFTING / TECHNICAL WORK</u>	
Senior Designer/Senior Technician	88.90
Design/Calculations/Technician	77.50
Draftsperson 1 (CAD Drafting)	66.70
Draftsperson 2/Technician 2	64.20
<u>GROUND PENETRATING RADAR / GLOBAL POSITIONING SERVICE FIELD PERSON</u>	100.00
<u>ZONING OFFICER / CODES ENFORCEMENT</u>	84.00
<u>SURVEY CREW</u>	
Two-Person Crew (2 @ \$70.00 each)	140.00
Three-Person Crew (3 @ \$59.00 each)	177.00
One-Person Crew w/Robotic Equipment	115.00
3D Scanning w/One-Person Crew	175.00
<u>CONSTRUCTION OBSERVER / SEWAGE OFFICER</u>	
Highway, Heavy, Commercial, or Residential Construction	72.50
Highway, Heavy, Commercial, or Residential Construction (Senior)	78.50
Certified Sewage Enforcement Officer	69.90
Onlot Sewer Percolation Test (Pass or Fail)	Lump Sum 435.00
Observe Percolation Test	Lump Sum 350.00
<u>SECRETARIAL / WORD PROCESSOR</u>	38.00

1. Travel to and from the job site is chargeable time, with project mileage at \$0.52 per mile.
2. Overtime is charged at 1.5 times base rate.
3. Ordinary overhead expenses are included in the above rates.
4. Extraordinary expenses required specifically for a particular project will be billed at direct cost plus 5%. Examples of these expenses include soil borings costs or testing laboratory charges. All such additional expenses are to be specifically approved by the client prior to their use.
5. A special rate of \$155.00 per hour is established for formal hearings and court appearances as an expert witness for a Professional Engineer, Geologist, Surveyor, or other professional.
6. Cost for plan copies is \$0.55 per square foot (black & white); \$2.00 per square foot (color).
7. Cost for Mylars is \$1.65 per square foot (black & white); \$6.00 per square foot (color).
8. Cost for photocopies is \$0.25 per page (black & white); \$0.55 per page (color).
9. Field equipment usage will be charged as follows: Sewage Flow Meter - \$12.00/day, Traffic Counter - \$55.00/day, GPS Locator - \$22.50/day, RTKGPS - \$215.00/day, SUB-RTKGPS - \$50.00/day.
10. Push Camera - \$10.00/hour for Televising; \$15.00/hour for Televising and Locating Services.



# HanoverEngineering

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## APPENDIX A

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## **EDUCATION**

Villanova University, 1998-2000  
Northampton Community College, 2001-2002  
East Stroudsburg University, 2008

## **ADDITIONAL TRAINING**

Wastewater Collection Systems – Parts I & II, 2015  
Advanced Host Municipal Inspector Training – Department of Environmental Protection (DEP), 2011, 2015  
Advanced Soils Training – Department of Environmental Protection, 2006  
Multiple Continuing Education Courses for Soils Evaluation, Sewage Facilities Planning, and Building Codes

## **PROFESSIONAL REGISTRATIONS**

Sewage Enforcement Officer: Pennsylvania DEP Bureau of Clean Water  
Building Code Official: Pennsylvania Department of Labor and Industry  
Host Municipal Inspector: Pennsylvania DEP Bureau of Waste Management  
Operator-In-Training – WWE4 Wastewater Collection Systems: Pennsylvania DEP Bureau of Safe Drinking Water

## **PROFESSIONAL ASSOCIATIONS**

Pennsylvania Association of Sewage Enforcement Officers  
Engineers Without Borders USA – Lehigh Valley Professionals Chapter – Active Member  
Chapter Vice President 2014-2015; Chapter President 2015-2016

## **EXPERIENCE**

### **Sewage Enforcement Officer – Hanover Engineering**

As a Sewage Enforcement Officer, Mr. Schray has over 15 years' experience enforcing the Pennsylvania Sewage Facilities Act in municipalities throughout Berks, Carbon, Lehigh, Monroe, and Northampton Counties. Mr. Schray also has experience as a Zoning Officer and Building Code Official. Mr. Schray assists with the review of Subdivision and Land Development projects, has provided construction inspection services, and is experienced on survey crews and structural steel inspection crews.

Mr. Schray has maintained his certifications by regularly attending field specific continuing education classes and has built upon his field knowledge by attending various seminars and forums.

### *Examples of Specific Experience*

- **Sewage Enforcement Officer.** Responsible for enforcing the Pennsylvania Sewage Facilities Act for numerous municipalities throughout Berks, Carbon, Lehigh, Monroe, and Northampton Counties. In this capacity, he provides diligent, cost-effective services, including soil testing, site evaluation, and inspections. Designs onlot sewage treatment and disposal systems for private clientele.
- **Building Code Official.** Responsible for issuing Building Permits and Certificates of Occupancy on behalf of Lehigh Township, Northampton County, and East Penn Township, Carbon County. This position requires a fundamental understanding of the Uniform Construction Code (UCC) and associated Building Codes. Coordinates with Third Party Agencies to ensure technical accuracy in the management, administration and enforcement of the UCC.
- **Host Municipal Inspector.** In 2007, Mr. Schray was certified by the Pennsylvania Department of Environmental Protection (PA DEP) as a Host Municipal Inspector and was appointed in Lower Saucon Township, Northampton County to inspect the IESI Bethlehem Landfill. In 2017, he was appointed in Plainfield Township, Northampton County as an alternate inspector to inspect the Grand Central Landfill. He is experienced in performing landfill inspections and providing comprehensive reports.

- **Zoning Officer.** Served as Zoning Officer for Lehigh Township, Northampton County. In this capacity, he has assisted the Township in revising the policies and procedures regarding the management, administration, and enforcement of the Township's Zoning Ordinance. Attended Planning Commission and Zoning Hearing Board meetings and has provided feedback to the Township, as requested, regarding management and administration of the Zoning Department.
- **Public Wastewater Collection Facilities.** Experienced with the operation of public wastewater collection facilities, including gravity and low-pressure systems, and metering stations. In 2015, Mr. Schray qualified with PA DEP as an Operator-In-Training for Class WWE4 Single Entity Owner Collection Systems. He performs flow analyses and has provided recommendations for capacity increases and assistance in determining appropriate user rates.
- **Engineers Without Borders USA.** Mr. Schray has been a volunteer of the Lehigh Valley Professionals Chapter of Engineers Without Borders USA (EWB-USA) since 2010. In this role, he has assisted the Chapter with the testing and design of sanitation and stormwater management facilities at the Centennial Secondary School in Sierra Leone, Western Africa. In 2013, he traveled to the school to construct stormwater management facilities and assist with the installation of sanitary facilities. Served the Chapter as Vice-President in 2014/2015 and President in 2015/2016, and remains an active member.

*Examples of Appointments*

- **East Penn Township, Carbon County.** Appointed Building Code Official in 2018.
- **Penn Forest Township, Carbon County.** Appointed Sewage Enforcement Officer from 2000 through 2011.
- **Emmaus Borough, Lehigh County.** Appointed Sewage Enforcement Officer from 2013 to present.
- **Fountain Hill Borough, Lehigh County.** Appointed Sewage Enforcement Officer from 2016 to present.
- **Upper Saucon Township, Lehigh County.** Appointed Sewage Enforcement Officer from 2015 to present. Provides reviews pertaining to Act 537 Sewage Facilities Planning for Subdivision and Land Development projects.
- **Coolbaugh Township, Monroe County.** Appointed Sewage Enforcement Officer from 2007 to present. Provides reviews pertaining to Act 537 Sewage Facilities Planning for Subdivision and Land Development projects.
- **Eldred Township, Monroe County.** Appointed Sewage Enforcement Officer from 2006 to present. Provides reviews pertaining to Act 537 Sewage Facilities Planning for Subdivision and Land Development projects.
- **Polk Township, Monroe County.** Appointed Sewage Enforcement Officer from 2000 through 2013.
- **Tunkhannock Township, Monroe County.** Appointed Sewage Enforcement Officer in 2008 and 2009.
- **East Allen Township, Northampton County.** Appointed Sewage Enforcement Officer from 2000 to present. Provides reviews pertaining to Act 537 Sewage Facilities Planning for Subdivision and Land Development projects.
- **Hanover Township, Northampton County.** Appointed Sewage Enforcement Officer from 2000 to present. Provides reviews pertaining to Act 537 Sewage Facilities Planning for Subdivision and Land Development projects.
- **Lehigh Township, Northampton County.** Appointed Sewage Enforcement Officer from 2000 through 2013. Appointed Zoning Officer and Building Code Official in 2017.
- **Lower Saucon Township, Northampton County.** Appointed Sewage Enforcement Officer from 2000 to present and appointed Host Municipal Inspector from 2007 to present. Provides reviews pertaining to Act 537 Sewage Facilities Planning for Subdivision and Land Development projects.
- **Plainfield Township, Northampton County.** Appointed Alternate Host Municipal Inspector from 2017 to present. Appointed Alternate Sewage Enforcement Officer in 2018.

- **Longswamp Township, Berks County.** Appointed Sewage Enforcement Officer from 2006 through 2013. Appointed Alternate Sewage Enforcement Officer from 2014 to present.
- **Salisbury Township, Lehigh County.** Appointed Alternate Sewage Enforcement Officer from 2014 to present.
- **South Whitehall Township, Lehigh County.** Appointed Alternate Sewage Enforcement Officer from 2014 to present.

**EDUCATION**

B.S. Civil Engineering/Construction Technology – Temple University, 1984

**ADDITIONAL TRAINING**

Advanced HMI Training, 2010

**PROFESSIONAL REGISTRATIONS**

Sewage Enforcement Officer: Pennsylvania

**PROFESSIONAL ASSOCIATIONS**

Pennsylvania Association of Sewage Enforcement Officer

**EXPERIENCE**

**Project Manager – Hanover Engineering**

As Vice President of Hanover Engineering, Mr. Brown is currently directing the Energy Services group and has experience in permitting and designing Natural Gas pipelines to supply natural gas for Power Plant conversions and Natural Gas Midstream clients. Other experience includes providing professional oversight to numerous municipal clients and their related construction projects, inspection and oversight of solid waste facilities, and commercial and residential land development, including all infrastructures to ensure compliance with all local and state regulations.

Over his 32-year career at Hanover Engineering, Mr. Brown has gained experience in engineering procedures and standard practices, project management, working with state and local officials, elected officials, and the public. He also provides project management involving the Sewage Enforcement Officer staff, including providing soil testing, sewage system designs, and inspections. He also provided project management for the preparation of Act 537 Sewage Facilities Act Official Sewer Plans, Township Engineer assistance, subdivision reviews and inspections, and capital project design and construction inspection. In addition, Mr. Brown has over 21 years of experience as a Host Municipal Inspector, providing landfill inspections and permit plan reviews.

*Examples of Specific Experience*

- **Natural Gas Industry.** Provided engineering and client management for the design and permitting of pipelines and facilities for natural gas power plant conversion projects, natural gas gathering lines, compressor pads, and well pads.
- **Lower Saucon Township, Northampton County.** Assists Township Engineer in performing reviews of major and minor permit modifications for a Municipal Solid Waste Landfill, including review of plans for expansion of the disposal area for existing permitted facilities. Performs landfill inspections as permitted by Act 101, including inspections for stormwater control measures, abatement system operations and records, leachate collection systems, daily disposal operations, and daily cover. Provides review of quarterly and annual reports; provides technical support to Township Landfill Committee; responds to complaints as directed by Township Manager.

*Examples of Appointments*

- **Adamstown Borough, Lancaster County.** Serves as Sewage Enforcement Officer.
- **Denver Borough, Lancaster County.** Serves as Sewage Enforcement Officer.
- **Fountain Hill Borough, Lehigh County.** Serves as Sewage Enforcement Officer from 2016 to present.
- **Upper Saucon Township, Lehigh County.** Serves as Sewage Enforcement Officer from 2015 to present.
- **Coolbaugh Township, Monroe County.** Serves as Sewage Enforcement Officer from 2006 to present.

- **Eldred Township, Monroe County.** Serves as Sewage Enforcement Officer from 2004 to present. Hanover Engineering was appointed Township Engineer in 2006.
- **East Allen Township, Northampton County.** Serves as Sewage Enforcement Officer from 2000 to present.
- **Hanover Township, Northampton County.** Serves as Sewage Enforcement Officer from 2000 to present.
- **Lower Saucon Township, Northampton County.** Serves as Sewage Enforcement Officer from 1985 to present. Served as Host Municipal Inspector from 1991 to 2011.
- **Pequea Township, Lancaster County.** Serves as Alternate Sewage Enforcement Officer in 2018.
- **Shenango Township, Lawrence County.** Serves as Alternate Sewage Enforcement Officer in 2018.
- **Plainfield Township, Northampton County.** Serves as Alternate Sewage Enforcement Officer in 2018.
- **Kidder Township, Carbon County.** Served as Municipal Representative from 2000 to 2012. Provided engineering review services for proposed Subdivision and Land Development projects.
- **Penn Forest Township, Carbon County.** Served as Municipal Representative from 1991 to 2011. Provided engineering review services for proposed Subdivision and Land Development projects. Performed Township inspection of private improvement projects and oversaw design and construction of municipal storm sewer and roadway construction projects. Performed Sewage Enforcement Officer duties and assisted Zoning and Building Code Departments.
- **Polk Township, Monroe County.** Served as Sewage Enforcement Officer from 1999 to 2013.

**EDUCATION**

B.S. Geography, Geographic Information Systems Emphasis – Slippery Rock University, 2014  
Minor in Environmental Studies

**ADDITIONAL TRAINING**

NECEPT Bituminous Field Technician, 2015  
NECEPT Concrete Field Testing Technician, 2015  
ECMS II Construction (Wave 5), 2015  
Multiple Continuing Education Courses

**PROFESSIONAL REGISTRATIONS**

ACI Concrete Field Testing Technician – Grade I  
Sewage Enforcement Officer: Pennsylvania

**PROFESSIONAL ASSOCIATIONS**

Pennsylvania Association of Sewage Enforcement Officers  
Pennsylvania State Association of Township Supervisors

**EXPERIENCE**

**Sewage Enforcement Officer - Project Inspector – Hanover Engineering**

As a Sewage Enforcement Officer, Mr. Gray has been responsible for enforcing the Pennsylvania Sewage Facilities Act in municipalities throughout Lehigh, Northampton, Berks, Carbon, and Monroe Counties. In this capacity, he has provided diligent, cost-effective services, including soil testing, site evaluation, sewage system designs, and inspections.

In addition, Mr. Gray has experience in construction observation, environmental inspection, and testing of public and private improvements for site development. He is experienced in completing reports, weekly inspections, and resolving issues during construction for permit compliance. He is experienced in Arc GIS, as well as working on survey crews utilizing GPS for field collection of data.

*Examples of Specific Experience*

- **Cherokee Street Repaving Project, Fountain Hill Borough, Lehigh County.** Provided construction observation for the repaving of Cherokee Street. Performed temperature checks, verified paving depth for consistency, collected and documented weight slips, and tracked project tonnage.
- **FedEx Ground Hub Land Development, Allen Township, Northampton County.** Oversaw the installation of the storm sewer system. Monitored trench excavation, placement of bedding material, slope checks, proper trench backfill procedures, and quality control of incoming material.
- **Natural Gas Pipeline Project.** Served as an Environmental Inspector during construction of pipeline. Completed daily and weekly inspections to ensure permit compliance. Worked with contractor and client to resolve any issues in an efficient manner.
- **Natural Gas Pipeline Project.** Completed survey stake out of right-of-way in wooded areas in addition to access points in preparation for clearing crew. Prior to construction, oversaw geotechnical sampling in areas of proposed horizontal directional drill bores.
- **Natural Gas Pipeline Project.** Served as an Environmental Inspector on 3.5-mile natural gas conversion project. Completed weekly and daily environmental inspections to ensure local, state, and federal permit compliance and associated reports. Completed environmental inspections during construction through the restoration of the project. Resolved any issues by working closely with the contractor and the project owner.



- **Natural Gas Pipeline Project.** Served as Environmental Inspector on 9.5-mile natural gas pipeline project. Completed required weekly inspections and associated reports. Completed daily inspections to ensure permit compliance while overseeing clearing and right-of-way grading activities. Oversaw stream and wetland crossings during construction of project. Attended weekly inspector meetings with project owner to provide progress updates during construction.

*Examples of Appointments*

- **Emmaus Borough, Lehigh County.** Appointed Sewage Enforcement Officer from 2016 to present.
- **Fountain Hill Borough, Lehigh County.** Appointed Sewage Enforcement Officer from 2016 to present.
- **Upper Saucon Township, Lehigh County.** Appointed Sewage Enforcement Officer from 2016 to present.
- **East Allen Township, Northampton County.** Appointed Sewage Enforcement Officer from 2016 to present.
- **Hanover Township, Northampton County.** Appointed Sewage Enforcement Officer from 2016 to present.
- **Lower Saucon Township, Northampton County.** Appointed Sewage Enforcement Officer from 2017 to present.
- **Coolbaugh Township, Monroe County.** Appointed Sewage Enforcement Officer from 2016 to present.
- **Eldred Township, Monroe County.** Appointed Sewage Enforcement Officer from 2016 to present.
- **Longswamp Township, Berks County.** Appointed Alternate Sewage Enforcement Officer from 2016 to present.
- **Salisbury Township, Lehigh County.** Appointed Alternate Sewage Enforcement Officer from 2016 to present.
- **South Whitehall Township, Lehigh County.** Appointed Alternate Sewage Enforcement Officer from 2016 to present.

**EDUCATION**

B.A. Geology – Rutgers University, 1986

**ADDITIONAL TRAINING**

OSHA Certification for Hazardous Materials Workers

Sewage Enforcement Officer Certification

Host Municipality Inspector Certification

**PROFESSIONAL REGISTRATIONS**

Professional Geologist: Pennsylvania

Sewage Enforcement Officer: Pennsylvania

Host Municipality Inspector: Pennsylvania Department of Environmental Protection

**PROFESSIONAL ASSOCIATIONS**

Pennsylvania Association of Sewage Enforcement Officers

Pennsylvania Council of Professional Geologists

Pennsylvania Ground Water Association

**EXPERIENCE**

**Geologist – Hanover Engineering**

Mr. Taylor provides geological services for Hanover Engineering. In this capacity, he supervises the installation of test wells, collects and catalogs formation samples, writes descriptive well logs, identifies water-bearing zones, and directs blown yield testing. He supervises construction of production wells, directs well development work, evaluates well yields, and creates final well diagrams. He directs construction of monitoring wells, inspects and documents materials and quantities installed, and creates final well diagrams. He directs execution of pumping tests, including 8-hour step tests and 24- and 48-hour constant rate tests, conducts manual monitoring of water levels in production well and observation wells, plots drawdown data, calculates well performance, and directs appropriate adjustments to pumping rates.

Mr. Taylor conducts slug testing of monitoring wells, and sets up and programs pressure transducers to record water levels. He directs geotechnical-boring investigations of sites, collects and catalogs soils and bedrock samples, evaluates samples, and writes descriptive logs of borings. Mr. Taylor conducts Phase I Environmental Site Assessments (ESA), in accordance with the All Appropriate Inquiries (AAI) Rule. He reviews carbonate geology studies pursuant to local municipal regulations, conducts soil probes and percolation tests to evaluate site suitability for sewage disposal, and designs onlot sewage disposal systems for residential and commercial units.

*Examples of Specific Experience*

- **Ferlauto Tract, Bedminster Township, Bucks County.** Oversaw construction of monitoring wells and performed slug tests to determine loading rates from community sewage system.
- **Covington Industrial Park, Covington Township, Lackawanna County.** Supervised installation of production wells and pumping tests to supply domestic and fire suppression water for proposed industrial development.
- **Lynn Township, Lehigh County and Albany Township, Berks County.** Directed pumping tests to determine aquifer characteristics and optimum yield for regional hydrogeologic study.
- **PPL, Allentown, Lehigh County.** Supervised test well and production well installation, pumping tests, and geotechnical borings for power generator construction projects in several municipalities.
- **Agere Systems, Inc., City of Allentown, Lehigh County.** Observed drilling of borings for construction of caissons to support proposed chiller unit.
- **Airport Center, Hanover Township, Lehigh County.** Supervised geotechnical borings, field-evaluated soil and bedrock samples, completed a Phase I ESA, and prepared associated reports.

- **KidsPeace Broadway Campus, Salisbury Township, Lehigh County.** Conducted a Phase I ESA to satisfy conditions of grant approval. Completed stormwater testing for design of infiltration facilities.
- **Zawarski Project, Upper Macungie Township, Lehigh County.** Conducted a Phase I ESA and a Phase II ESA including soil sampling, overseeing installation of monitoring wells, and groundwater sampling.
- **Proposed Residential Development, Butler Township, Luzerne County.** Conducted a Phase I ESA and assessed water supply and site contamination issues caused by two adjacent underground storage tank release sites. Evaluated the location and availability of existing public water systems and researched area properties to assess the viability of constructing off-site water supply wells.
- **Berean Bible Church, Stroud Township, Monroe County.** Assessed existing and proposed sewage flows, conducted soil testing, and designed sewage system utilizing flow equalization to accommodate church expansion.
- **Louise Moore Park, Bethlehem Township, Northampton County.** Supervised installation and testing of public water supply well to serve this County Park.
- **First Regional Compost Authority, East Allen Township, Northampton County.** Project included siting and installation of a production well to supply water for existing composting facility.
- **Orban Tract, Lower Saucon Township, Northampton County.** Evaluated municipal recreation park site including performing a Phase I ESA, supervising subsurface investigation using air-track drilling, and preparing a Carbonate Geology Report.
- **Tott's Gap Area, Upper Mount Bethel Township, Northampton County.** Completed Phase I ESAs on numerous parcels to be acquired for incorporation into the Northampton County Park System. Conducted ongoing inspections of two earthen dams in accordance with the Pennsylvania Dam Safety and Encroachments Act.
- **William Shi Project, Dingman Township, Pike County.** Project included installation of a production well to supply domestic and fire suppression water for proposed multifamily residential development.
- **Borough of Adamstown, Lancaster County.** Project included set up and supervision of step-drawdown and constant rate pumping tests, installation, programming, and download of data loggers, completion of research and reporting for Susquehanna River Basin Commission application for groundwater withdrawal pursuant to re-permitting existing public water supply wells.
- **Mount Joy Township Authority, Lancaster County.** Observed installation of ground source heat pump wells for compliance with Municipal Ordinances. Conducted development of new public water supply wells. Work included researching area geology and existing high-production wells, siting and installation of test wells, design and construction of production wells, and monitoring of area wells to determine potential interference affects.
- **Stormwater Testing, Various Projects.** Evaluated requirements and conducted soil and permeability testing for stormwater infiltration on numerous residential and commercial projects.
- **Professional Geologic Services, Various Municipalities.** Reviewed environmental impact statements, hydrogeologic reports, carbonate geology reports, and stormwater testing reports prepared for proposed developments. Determined compliance with Municipal Ordinances and issued comment letters to municipal officials.
- **Sewage Enforcement Services, Various Municipalities.** Conducted and witnessed percolation tests, inspected sewage systems under construction, reviewed sewage system designs and issued permits, designed conventional and alternate systems, and conducted needs assessment surveys.
- **Host Municipality Inspector Services, Lower Saucon Township, Northampton County.** Conducted inspections of facility, met with landfill personnel to determine and discuss status of operations, and prepared reports of findings for Township. Conducted monthly meetings of Landfill Committee and quarterly meetings of Technical Consultant Committee to discuss current landfill issues. Reviewed and maintained files for landfill-related documents and correspondence, including inspection reports generated by the Department of Environmental Protection and reports generated by the landfill owner. Provided testimony at Township meetings regarding landfill status.

## **EDUCATION**

Bloomsburg University of Pennsylvania, 1991 - 1995

## **ADDITIONAL TRAINING**

PASPGP-5 Training – Marcellus Shale Coalition, 2016

Pennsylvania Department of Environmental Protection ESCGP-2 Training, 2013

Hydric Soils – The Field Indicators and More Professional Development Program, 2013 – Wilkes University

Pennsylvania Department of Environmental Protection Marcellus Shale Industry Training, 2012

Pennsylvania Department of Environmental Protection MS4 Training, 2012

U.S. Army Corps of Engineers Regional Supplement Training, 2009, 2011 – Pennsylvania Association of Professional Soil Scientists

MS4 Permitting Status and Strategies, 2011 – Lancaster County Clean Water Consortium

Introduction to Wetland Delineation – Rutgers University

Multiple Continuing Education Courses and Webinars

## **PROFESSIONAL REGISTRATIONS**

Sewage Enforcement Officer: Pennsylvania

## **PROFESSIONAL ASSOCIATIONS**

Pennsylvania Association of Sewage Enforcement Officers

Society of Wetland Scientists

## **EXPERIENCE**

### **Project Scientist/Sewage Enforcement Officer – Hanover Engineering**

As Project Scientist for Hanover Engineering, Ms. Kemecsy has over 10 years of professional experience in sewage enforcement, wetland delineation, environmental permitting, GPS data collection, stormwater infiltration testing, Municipal Separate Sewer System (MS4) reporting, wetland mitigation, surveying, and trail planning, design, and construction. She routinely works with various federal, state, and local regulatory agencies, including the U.S. Army Corps of Engineers, Pennsylvania Department of Environmental Protection, U.S. Fish & Wildlife Service, Pennsylvania Department of Conservation and Natural Resources, Pennsylvania Fish & Boat Commission, Pennsylvania Game Commission, and the Pennsylvania Historical and Museum Commission.

### *Examples of Specific Experience*

- **Environmental Permitting.** Prepared Joint Permit Applications, General Permit Applications, and Erosion and Sediment Control General Permit Applications for numerous projects impacting wetlands and waters in Pennsylvania. Specific permit application tasks include, but are not limited to, preparing Wetland and Waters Evaluation Reports and mapping, Wetland Determination Data Forms, Environmental Analysis Reports, Mitigation Reports, Act 14 Notifications, and assisting with adherence and compliance with Section 106 relating to the National Historic Preservation Act of 1966 and the Endangered Species Act of 1973.
- **Wetland Delineation.** Experienced with identifying wetland vegetation, hydrologic indicators, and hydric soil conditions consistent with the regulations set forth in both the U.S. Army Corps of Engineers 1987 Delineation Manual and subsequent Regional Supplements. Conducted Wetland Determinations and Wetland Delineations for numerous project sites in Bradford, Lehigh, Monroe, and Northampton Counties in Pennsylvania, as well as project sites in Maryland.
- **Wetland Mitigation / Streambank Restoration.** Facilitated successful mitigation projects by coordinating a myriad of specific initial site assessments followed by actual construction and post-construction monitoring. Ms. Kemecsy's careful attention to the initial aspects have ultimately ensured success and alleviated clients from prolonged monitoring requirements. Ms. Kemecsy's understanding

of hydrology, soils, and wetland functions and values has allowed her to accurately identify feasible sites as well as aid in the development of conceptual mitigation designs. She has also developed post-construction monitoring plans and as-built plans capable of satisfying permit conditions.

- **Trail Design.** Experienced in the planning, design, and construction of trails and trail systems with a specific focus on physical, ecological, and economic sustainability. Based on these sustainability principles, she has consistently provided a unique insight to trail design that encourages proper use, results in the protection of natural resources, and requires minimal maintenance and cost over the life cycle of the trail project.
- **Sewage Enforcement Officer.** Responsible for enforcing the Pennsylvania Sewage Facilities Act for numerous municipalities throughout Monroe and Carbon Counties. In this capacity, she has provided diligent, cost-effective services, as well as meaningful interaction with municipalities, the Pennsylvania Department of Environmental Protection, and the public.

*Examples of Appointments*

- **Coolbaugh Township, Monroe County.** Appointed Sewage Enforcement Officer from 2009 through 2011 and reappointed again in 2018.
- **East Allen Township, Northampton County.** Appointed Sewage Enforcement Officer from 2016 to present.
- **Lower Saucon Township, Northampton County.** Appointed Sewage Enforcement Officer from 2017 to present.
- **Penn Forest Township, Carbon County.** Appointed Sewage Enforcement Officer from 2009 to 2011.
- **Eldred Township, Monroe County.** Appointed Sewage Enforcement Officer from 2009 to 2011.
- **Polk Township, Monroe County.** Appointed Sewage Enforcement Officer from 2009 to 2013.
- **Tunkhannock Township, Monroe County.** Appointed Sewage Enforcement Officer from 2009 to 2010.