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Header 1

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Procurement Folder: 1008063

Procurement Type: Central Contract - Fixed Amt

Vendor ID:

Legal Name: POTESA & ASSOCIATES INC

Alias/DBA:

Total Bid: \$0.00

Response Date:

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Last Name:

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Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Solicitation Response

Proc Folder: 1008063
Solicitation Description: A&E - Ridge Hatchery New Construction
Proc Type: Central Contract - Fixed Amt

Solicitation Closes	Solicitation Response	Version
2022-03-17 13:30	SR 0310 ESR03162200000005675	1

VENDOR
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POTESTA & ASSOCIATES INC

Solicitation Number: CEOI 0310 DNR2200000008
Total Bid: 0
Response Date: 2022-03-16
Response Time: 14:51:33
Comments:

FOR INFORMATION CONTACT THE BUYER
Joseph E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor
Signature X **FEIN#** **DATE**

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Civil engineering				0.00

Comm Code	Manufacturer	Specification	Model #
81101500			

Commodity Line Comments:

Extended Description:

Ridge Hatchery New Construction.

STATEMENT OF QUALIFICATIONS

PREPARED
FOR:



WEST VIRGINIA DIVISION OF NATURAL RESOURCES

Ridge Hatchery New Construction



CHARLESTON

7012 MacCorkle Avenue, SE
Charleston, WV 25304
(304) 342-1400

MORGANTOWN

125 Lakeview Drive
Morgantown, WV 26508
(304) 225-2245

WINCHESTER

15 South Braddock Street
Winchester, VA 22601
(540) 450-0180

Project Number: 0101-22-0075

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STATEMENT OF QUALIFICATIONS

EXECUTIVE SUMMARY



Potesta & Associates, Inc. (POTESTA) is pleased to submit this Statement of Qualifications for the opportunity to provide engineering services for The West Virginia Division of Natural Resources (WVDNR) to design and specify improvements and renovations to nearly all facilities at the Ridge State Fish Hatchery and other related work near Berkeley Springs, Morgan County, West Virginia. Over the past several years, West Virginia trout hatcheries have received much needed repairs and upgrades to produce more and larger fish. POTESTA has extensive hatchery experience, including the most recent upgrade of the former Palestine Fish Hatchery facility near Elizabeth, Wirt County, West Virginia. We offer an unique combination of engineers and environmental scientists with the ability and commitment to provide quality service, rapid response, project completion, and to exceed your expectations for the Ridge State Fish Hatchery Rehabilitation Project.

The Ridge Fish Hatchery has been in operation for over 90 years culturing brook, brown, rainbow, and golden trout to stock many streams and small impoundments in the Eastern Panhandle of West Virginia. Recently, construction at the hatchery has included new water lines due to the age and condition of the existing water supply and a new collection box extension for the spring house. Repair to the dam collection structures and pipes will provide a consistent flow of clear cold water, which is necessary for egg hatching and rearing of young fish. POTESTA understands the Ridge Fish Hatchery provides fish for recreational angling and is vital to West Virginia's economy.



POTESTA will utilize our previous partners from the Palestine Fish Hatchery Rehabilitation Project, including Mills Groups—architectural firm, Moment Engineers, Inc.—structural engineering firm, and Harper Engineering—electrical and mechanical engineering firm. POTESTA and our strategic team has the necessary experienced and qualified personnel to efficiently implement an optimal design and construction plan in a timely, innovative, and cost-effective manner. The team will be managed by POTESTA's staff aquatic biologist, **Dr. Daniel Miller, Ph.D., Senior Scientist**, who has over 44 years of operational and project management experience that includes commercial, research, and education pertinent to hatchery production. Uniquely, he has direct experience with artificially spawning paddlefish for WVDNR approximately 15 years ago while working for the West Virginia University's aquaculture extension program. Dr. Miller has designed, assessed, modified, managed, and trained personnel for a variety of production scenarios from flow through to 98 percent recirculating facilities. His knowledge of biosecurity options and the importance of regular training and educational updates make him a critical component of our team.

POTESTA believes collaboration between scientists and engineers is integral to address the wide array of project's needs. **Mr. Terence Moran, P.E., Senior Engineer**, will serve as co-manager bringing over 35 years of water supply and wastewater experience, with projects involving liner systems, water supply systems, wastewater systems, flow metering, and sampling. He has served as project engineer/project manager for approximately 70 projects (contracts) with the State of West Virginia.

POTESTA's team is an unique fit for the Ridge Hatchery Rehabilitation Project. We believe our team brings the experience and knowledge to serve the WVDNR on this project and bring it to completion. We look forward to continuing our relationship and are available to meet to answer any questions and discuss your needs in further detail.

STATEMENT OF QUALIFICATIONS

CORPORATE PROFILE



HISTORY

POTESTA was founded in 1997 as a full service engineering and environmental consulting firm headquartered in Charleston, West Virginia. We have now expanded to a diverse staff of 74 experienced engineers, scientists, and support personnel with branch offices in Morgantown, West Virginia, and Winchester, Virginia. Our clients include local, state and federal agencies; mining, manufacturing and chemical companies; utility companies; waste management companies; land developers; attorneys; financial institutions; insurance companies; K-12 schools/colleges/universities, construction companies; and architects.



PROFESSIONAL SERVICES

- 404 Permit Preparation & Negotiation
- Acid Mine Drainage Control
- Asbestos Inspection
- Benthic and Biological Studies
- CADD Services (AutoCAD 2019, Various Software Design Packages, Digitizing & Plotting)
- Chemical Engineering
- Civil Engineering
- Clean Air Act Compliance
- Construction Monitoring
- Corporate Environmental Management
- Design of Slurry Impoundments & Refuse Disposal Sites
- Dewatering Plans
- Environmental Impact Studies
- Environmental Site Assessments
- Environmental Audits
- Environmental Engineering
- Erosion & Sedimentation Control Plans
- Expert Witness & Litigation Support
- Feasibility Studies
- Foundation Design
- Geological Services
- Geotechnical Engineering
- Ground & Surface Water Sampling
- Groundwater Investigation & Remediation
- Groundwater Protection Plans
- Hazardous Waste Management
- Hydrologic & Hydraulic Evaluations
- In-Situ / Ex-Situ Bio Stimulation & Bioaugmentation
- Landfill Design / Land Use & Natural Resource Planning
- Landfill Closure Plans
- Land Use & Natural Resource Planning
- Mining Engineering
- Multimedia Sampling (Air, Fly Ash, Rock, Soil, Water)
- Pollution Prevention & Waste Minimization Planning
- Permitting
- Post Reclamation Land Uses
- Pre-Blast & Pre-Subsidence Surveys
- Preparation of Construction Documents (Calculations Brief, Construction Drawings, Contractor's Bid Sheet, Engineer's Cost Estimate, QA/QC Manual & Technical Specifications)
- Reclamation Design & Planning
- Reclamation Liability Assessments
- Regulatory Liaison Services
- Risk-Based Environmental Assessment
- SARA Title III, TIER II / Form R Inventory & Reporting
- Sewer Line Design
- Site Characterization & Remediation Planning
- Site Design & Planning
- Soil Science & Agronomy
- Spill Prevention Control & Countermeasure Plans
- Stabilization & Closure of Waste Impoundments
- Stormwater Management & Permitting
- Stream Benthic Macro-Invertebrate Surveys & Toxicity Evaluations
- Stream & Water Restoration
- Subsidence Studies
- Subsurface Explorations
- Surface & Groundwater Monitoring, Statistical Analysis & Reporting
- Surveying (Traditional & Global Positioning System)
- UST Closure & Site Remediation
- UST Installation Monitoring
- Waste Facility Permitting & Design
- Waste Disposal Design
- Water Line Design
- Wastewater Treatment Design
- Wetland Investigation / Delineation Mitigation Design & Monitoring

STATEMENT OF QUALIFICATIONS

CORPORATE PROFILE



LEADERSHIP

Our firm is managed by two principals driving POTESTA forward with their experience and emphasis on exceeding expectations. **Ronald R. Potesta, President**, has served as the Director and Deputy Director of the WVDNR which, during his tenure housed all of the environmental regulatory programs, wildlife management, and law enforcement.

Dana L. Burns, P.E., P.S., Vice President, has more than 43 years' experience with civil, geotechnical, mining, and environmental engineering projects. He has been the Principal-in-Charge on numerous projects completed for local and state governments, municipalities, public service districts, utility providers, residential and commercial developers, universities/colleges, and manufacturing facilities.

The public service and experience of our principals has provided POTESTA with personal relationships with many of the regulatory staff members and in-depth program knowledge of West Virginia and surrounding states regulatory programs. Our staff includes 13 registered professional engineers (P.E.s), 5 registered professional land surveyors (P.L.S.s), and one Ph.D. whose specialties include aquatic biology and water quality.



Ronald R. Potesta



Dana L. Burns, P.E., P.S.

TOTAL STAFF: 74

14	Civil Engineers	1	GIS Specialist
11	Construction Technicians	1	Environmental Scientist
4	Geotechnical Engineers	1	Horticulturalist
1	Geologist	1	Toxicologist
8	CADD Operators/Draftsmen	1	Economist
5	Surveyors	1	Aqua Culturalist
1	Mechanical Engineer	1	Information Technologist
2	Aquatic Ecologists	1	Chemical Engineer
5	Biologists	1	Environmental Engineer
11	Administrative Personnel	2	Energy Land Management
1	Fish & Wildlife Specialist		



CHARLESTON



MORGANTOWN



WINCHESTER



To learn more information visit www.potesta.com

STATEMENT OF QUALIFICATIONS

CORPORATE PROFILE



**“Designing on
the principles
of the past and
preserving
for the
future”**

LOCATIONS:

THE WEISS BUILDING

63 Wharf Street, Suite 300
Morgantown, WV 26501
304.296.1010

THE KALEY CENTER

53 14th Street, Suite 607
Wheeling, WV 26003
304.233.0048

SITE:

millsgrouponline.com

Mills Group represents a collection of architects, designers, and researchers dedicated to innovative design and quality work. In 2005 Michael Mills, AIA, answered a market demand for architects with a special skill set. By 2013 the firm expanded to Wheeling to include more talent over a broader geographic range.

The firm's success is a product of diligently understanding client needs, existing conditions, design goals and budget. Our process is built on the foundation of research, client collaboration, and creative solutions. The team looks to the region's architectural heritage for inspiration to celebrate the best of the past and promote economic vitality for the future.

Mills Group happily serves public and private clients. Public sector patrons who have sought our services include cultural agencies, development offices, municipalities, non-profits, and schools. Other architects and engineers, developers, homeowners, and business people are counted among our private clients.

The firm is committed to a quality end product derived from experience, diligence, and collaboration. Clients can always count on us to maintain our efforts from concept to ribbon cutting.

STATEMENT OF QUALIFICATIONS

TECHNICAL EXPERTISE



CIVIL ENGINEERING

POTESTA's engineering staff has a broad background related to the vast field of civil engineering, including utility/infrastructure design, roadway design, development of grading plans, and storm water management. Our diverse staff of engineers, geologists, and scientists is routinely involved in these types of projects and work to support the project teams assigned to these projects on a daily basis to achieve a completed project that meets the client's expectations.

The success of this project begins with the determination of future needs of production (species, sizes, and quantities), provide insight into disease issues, water and space limitations, and water quality challenges. POTESTA understands services will consist of design, bidding, and construction phase services for the repair/rehabilitation of the Ridge Hatchery.

PRELIMINARY EVALUATIONS AND ANALYSES

- Phase I Environmental Site Assessments
- Floodplain Determination
- Geotechnical Explorations (Soil, Bedrock, and Groundwater Characterization)
- Foundation Recommendations
- Monitoring Well Systems and Site Characterization Plans
- Boundary, Topographical, and Photogrammetric Surveys
- Utility Planning
- Earthwork Evaluations (Volume Analysis)
- Opinion of Probable Costs/Engineer's Construction Cost Estimates



DESIGN SERVICES

- Erosion and Sediment Control Plans
- Earth Retaining Structures Design
- Geometric Site Layout
- Grading and Drainage Plans (Excavation and Fill Optimization)
- Access Road Design
- Hydraulic Structure Design
- Water and Sewer Design
- Slope Stability Analysis
- Subsurface Drainage System Design
- Construction Drawings, Specifications, and Contract Document Preparation



STATEMENT OF QUALIFICATIONS

TECHNICAL EXPERTISE



WATER AND WASTEWATER ENGINEERING

Our professional staff is dedicated to providing quality engineering services for various types of wastewater management, collection, and treatment systems, as well as water treatment and distributions systems. Once a project has been determined feasible through the preliminary planning stages, POTESta's design professionals work to complete preliminary and final design plans. Frequent communication is made with the client and other design professionals to review the completed activities and obtain input for the design process.

DESIGN SERVICES

- Feasibility Studies
- Conceptual Design
- Final Design
- Bidding and Construction
- Construction Monitoring
- Wastewater Audits
- Wastewater Minimization Studies
- Engineer's Cost Estimates
- Small Flows Design
- Sewage Collection and Treatment
- Water Treatment and Distribution
- Industrial Wastewater Treatment
- Wastewater Treatment Plant Design
- Water/Sewer Line Extensions
- Remediation Systems
- Landfill Leachate Treatment
- Storage Tank Design
- Surveying/GPS and Mapping
- Permitting and Regulatory Liaison
- Combined Sewer Overflow

FLOW MEASUREMENT

POTESta routinely deploys flow measurement equipment in a wide range of applications from pipes in chemical facilities to streams associated with mining sites. Each site has its own set of considerations that must be evaluated to ensure that a defensible measurement can be made. In some cases, handheld velocity meters are used in stream systems at multiple points along a predetermined transect to calculate a flow value for a specific date and time. In other cases, sophisticated electronic meters are deployed in manholes for several months at a time to evaluate wastewater flows for a major facility upgrade. These meters communicate with telemetry to transmit the data back to the office where it is downloaded and processed. We routinely check the calibration of flow meters to determine if they are within the acceptable range.



SAMPLING

Taking representative samples (i.e., composite sampling) from wastewater systems is an area where POTESta has extensive experience. We are well versed in manual and automated sampling techniques. Flow proportional samples are often required in National Pollutant Discharge Elimination System permits and require the use of flow measurement along with the sample collections. These two can be done automatically or manually. POTESta can specify equipment and materials for specific conditions to provide reliable data with minimal facility effort.

STATEMENT OF QUALIFICATIONS

TECHNICAL EXPERTISE



SURVEYING

POTESTA proposes to utilize our own survey crews for work on this project. POTESTA will perform all of the surveying required for this project using in-house personnel. We have three survey crews and the capability to add a fourth crew, if necessary. Our surveyors have worked on numerous site development, roadway and bridge construction, utility construction, and landfill development projects. POTESTA's surveyors use state-of-the-art equipment such as total station instruments, Trimble R-8 Glonass, RTK GPS Systems, AutoCAD, Autodesk Land Desktop and Autodesk Civil 3D design software, computer hardware for data management, and a Hewlett Packard color ink jet plotter.



POTESTA is equipped with modern surveying instruments allowing efficient data processing and accurate gathering of field information. Total station instruments equipped with data collectors are utilized for complete field to office automation allowing for high levels of productivity in the field. The latest versions of software are then used to process survey data and create drawings or required end products.

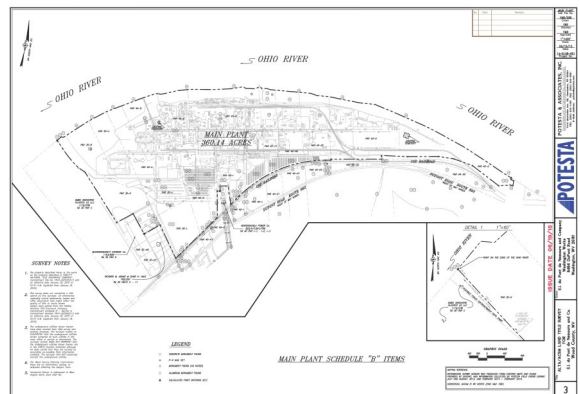
Small topographic mapping projects can be completed in-house using the aforementioned process. Larger projects are better suited for mapping using aerial photography. If necessary, POTESTA will provide the necessary surveying required for establishing ground control for aerial mapping in conjunction with our aerial mapping subcontractor. As a quality control measure, aerial mapping is field checked for accuracy by surveying cross sections or random points.

Surveys and mapping are completed to the standards as outlined by the National Map Standards as well as other applicable quality standards.

CADD

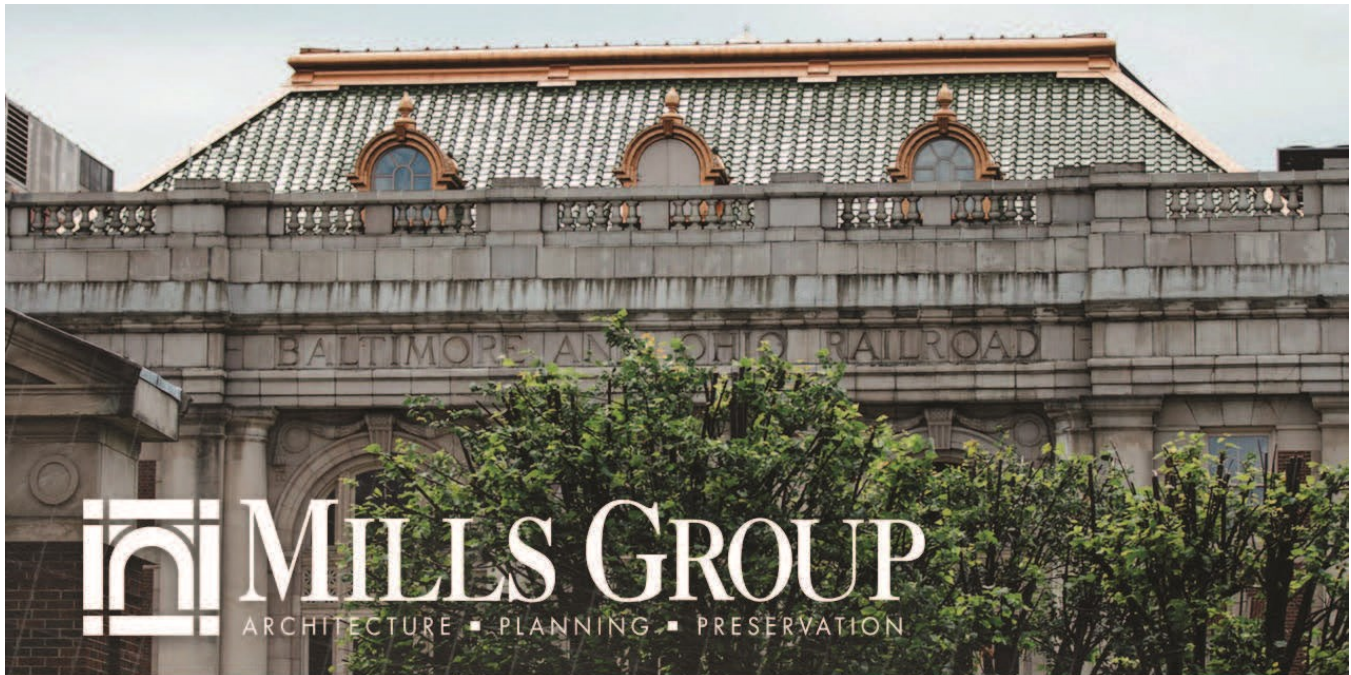
The CADD department utilizes the latest drafting/design software and computer hardware to maintain productivity at the high levels that clients demand and expect. We utilize Autodesk Civil 3D design software to prepare, revise, and manipulate drawings and engineering data efficiently. POTESTA's experienced and trained professionals allow clients' projects and assignments to be completed rapidly and at a reasonable cost.

- **Surveying data manipulation**—including development of topographic mapping; cross sections; profiles; isopach drawings; etc.
- **Site design**—including grading plans; drainage plans; utilities plans; right-of-way plans, etc.
- **Roadway design**
- **Water; sanitary; sewer; electric; natural gas; and telecommunications design**
- **Permit drawings; maps; and exhibits**
- **Earthwork and planimetric quantity development**
- **Two and three dimensional graphics**



STATEMENT OF QUALIFICATIONS

TECHNICAL EXPERTISE



Our firm currently has ten technical staff members located in the Morgantown office and an office manager/administrator. Our Wheeling office has five technical associates and an office manager. Although we have two offices, we work very closely together and frequently meet through the use of interactive web conferencing and in-person get-togethers. Each team member has a well-rounded architectural background while also possessing a specific area of excellence.

Architecture

COMMERCIAL
RESIDENTIAL
PUBLIC

Mills Group is a proven leader in many specialized areas of architecture and design. With experience in commercial, public, and cultural facilities, our firm has a breadth of exposure, which gives us confidence to approach any design challenge. Through engagement and collaboration we develop solutions based on shared visions and focused needs.

Planning

ENABLE
EXTEND
ENHANCE

Our firm provides careful planning and design for commercial, public, and residential clients both as a necessary asset to an overall architecture project and as a stand-alone service. The firm follows the 'measure twice, cut once' principle, and approaches planning as a forward thinking, cost saving, and practical application for all projects.

Preservation

REVITALIZE
REHABILITATE
CONSULT

We maintain a commitment to the cultural heritage of our region. We strive to raise awareness of the significant history and culture that is the foundation of who we are and ultimately, will become. Our team performs historical research as well as assessing and documenting existing conditions. We compile our findings into a comprehensive narrative, a feasibility study and/or historic structures report for the owner to implement planning for the next phase of use for the building.

STATEMENT OF QUALIFICATIONS

STAFFING PLAN

ORGANIZATIONAL CHART



PRINCIPAL-IN-CHARGE

Dana Burns, P.E., P.S.—43 Yrs.

PROJECT MANAGER FISH PRODUCTION/BIOSECURITY/ RECIRCULATION TECHNOLOGY/ HATCHERY DESIGN/EDUCATIONAL

Daniel Miller, Ph.D.—44 Yrs.

PROJECT MANAGER WATER/WASTEWATER

Terence Moran, P.E.—35 Yrs.

WATER/SEWER

Mark Sankoff, P.E., P.S.—39 Yrs.
Bob Bragg, P.E.—25 Yrs.
Robert Ammirato, P.E.—19 Yrs.
Everett Mulkeen, P.E.—10 Yrs.
Bill Cox—24 Yrs.
Derek Rader—2 Yrs.

CIVIL/SITE

Mark Kiser, P.E., L.R.S.—39 Yrs.
Jarrett Smith, P.E.—20 Yrs.
Joe Knechtel, P.E.—32 Yrs.
Tim Rice, E.I.T.—40 Yrs.
Alex Keenan, E.I.T.—3 Yrs.
Kyle Stollings, P.E., P.S.—43 Yrs.
Daniel Boyles—3 Yrs.

WATER QUALITY

Lisa Burgess—32 Yrs.
Christina Parsons—23 Yrs.
Douglas Bowe—34 Yrs.
Beth Burdette—20 Yrs.
Leah Creathers—16 Yrs.
Allyson Kincaid—2 Yrs.
Cole Davis—1 Yr.

SOILS/GEOTECHNICAL

Chris Grose, L.R.S.—31 Yrs.
Peter Potesta—10 Yrs.
David Sharp, P.E.—27 Yrs.
Jeremi Stawovy, E.I.T.—11 Yrs.

SURVEYING

Victor Dawson, P.S.—39 Yrs.
Rusty Hunter—40 Yrs.
Ryan Bennett, P.S.—8 Yrs.
Tyler Aboytes—7 Yrs.

CONSTRUCTION MONITORING

Robert Lamm—21 Yrs.
Paul Kinzer—24 Yrs.
Chuck Bird—29 Yrs.
Charles Shaffer—20 Yrs.
Russ Harper—14 Yrs.
Carl Hickman—43 Yrs.
Chuck Bird—29 Yrs.

SUCONSULTANTS

Mills Group—Architecture
Harper Engineering—Electrical/Mechanical
Moment Engineers—Structural

STATEMENT OF QUALIFICATIONS

STAFFING PLAN



KEY SENIOR PROJECT TEAM

Good communication is the key for successful project completion. POTESta listens to our clients and works to specify products that meet your needs. POTESta will work closely with all team members. It is for this reason that we have assigned an experienced project manager to manage the overall scope of the project and have assembled a professional team of experienced engineers and scientists that will work parallel with one another to make sure that the Ridge Hatchery Rehabilitation Project can be delivered within the anticipated timeframe. Resumes and certifications are included in **Appendix A**.

Mr. Dana L. Burns, P.E., Vice President, will serve as Principal-in-Charge for this project. Mr. Burns has served as the Principal-in-Charge for all of POTESta's contracts for engineering services with the State of West Virginia, including those with the West Virginia Department of Transportation, West Virginia Department of Environmental Protection, West Virginia Department of Health and Human Resources, and WVDNR. As such, he understands the resources it takes to complete a project for the State of West Virginia, as well as the requirements of not just the purchasing agency, but also those of the West Virginia Department of Administration. Mr. Burns' experience includes over 43 years of civil and environmental engineering and related projects including completing 100+ water supply/wastewater projects, 50+ liner system projects, and numerous sampling/flow metering projects.

Mr. Daniel Miller, Ph.D., Senior Scientist, is an aquatic biologist with experience in fish and shrimp hatchery management and design. He has successfully completed the design and training of personnel for a research hatchery for the University of Wisconsin; the design, testing, startup and training of personnel for a commercial yellow perch recirculating hatchery for the Chippewa Tribe in Red Lake, Minnesota; and a hydrological and biological survey for a property owned by Milwaukee County. He evaluated the water source and made recommendations for an alternative source of water for a fish hatchery he designed, which supplied fish for the Milwaukee County Park System. This project included the design of indoor tanks and outdoor ponds and had cost considerations. The facility was built with minor field changes and is actively producing fish for stocking today. Dr. Miller is familiar with and has managed biological filters and solid removal filters to improve production at fish hatcheries. He has consulted for trout farms in South Africa, a tilapia farm in Honduras, shrimp farms in Ecuador and the Chinese Central government.

Mr. Terence C. Moran, P.E., Senior Engineer, has over 35 years' of experience on civil engineering projects, with particular emphasis on water/wastewater projects. Mr. Moran has served as the project manager/project engineer for 100+ water/wastewater projects, including preliminary engineering, environmental assessments, funding applications, hydraulic analysis, booster and lift station design, storage tank design, line sizing, design of treatment systems, drawings, specifications, cost estimates, bid documents, "shop drawing" review, construction management and construction inspection.

Mr. Chris Grose, LRS, Senior Engineering Associate, has degrees in civil engineering and geological engineering and has over 31 years of experience. His areas of expertise include geological/geotechnical explorations, surface and subsurface hydrology and hydrogeology, and foundation design. Mr. Grose's experience includes the design and evaluation of geotechnical explorations related to earth retention structures, slope stability and engineered fill construction. Mr. Grose has participated in the geotechnical explorations/evaluations for many projects for POTESta.

Mr. Bob L. Bragg, P.E., Senior Engineer, has 37 years of engineering experience and over 24 years working as a consultant in the area of wastewater and water engineering in West Virginia. He has managed multiple municipal projects from their initial conception, through funding and design stages,

STATEMENT OF QUALIFICATIONS

STAFFING PLAN



KEY SENIOR PROJECT TEAM

all the way through construction and closeout. His experience also includes evaluation of alternatives to facility design to meet existing and future requirements, preparation of data for submission to state and federal government agencies in order to secure funding, appropriate permits, and approvals to proceed with project implementation, and design wastewater collection and potable water distribution systems layout.

Mr. Mark A. Sankoff, P.E., Chief Engineer, has over 38 years' of experience in civil engineering, with particular emphasis on water/stormwater/sewer projects. As the past Director of Engineering at West Virginia American Water (WVAW), he served as project manager for numerous water and wastewater projects, including the Kanawha County 2000 Water Project, installing over 100 miles of water main, six tanks and six boosters serving over 1,700 families. Mr. Sankoff was responsible for over 300 water storage tanks and 3,400 miles of water line at WVAW. Mr. Sankoff's experience with water projects include the design and construction of booster stations, water storage tanks, water line extensions. He has also been responsible for the design, plans, specifications, regulatory approval, bidding and bond sale, and construction management of wastewater treatment plants.

Mr. Mark Kiser, P.E., L.R.S., Chief Engineer, has over 39 years of experience on civil, geotechnical and environmental projects with experience including conceptual site development plans, engineering construction cost estimates, roadway design, site grading plans, pavement designs, stormwater management plan development, utility design (water, sewer, storm sewer), constructability reviews, preparation of contract documents, pre-bid meetings, bid evaluations, and construction management/administration. These projects included various residential and commercial site developments, roadway construction projects, and utility expansion projects for public and private clients.

Ms. Lisa Burgess, Senior Scientist, has 32 years of environmental consulting experience. While she is well versed in air, waste, and water issues, her preferred area of specialization is regulatory issues addressing water. She routinely completes NPDES permit applications for facilities that range from car washes with a few hundred gallons per day discharge to major chemical manufacturing facilities with millions of gallons per day discharge. Her understanding of environmental audits and permit compliance issues is likely unmatched in the state. Her background gives her the experience to manage a facility's compliance during major improvement projects.

Mr. Michael Mills, AIA, NCARB, Managing Partner at Mills Group, is the founding principal of the Mills Group. With over twenty years of proven experience in historic preservation, architectural design, and planning, Mr. Mills inspires each Mills Group team member to excellence and diligently collaborates with clients to ensure their full understanding and implementation of every project. Through Mr. Mill's leadership and vision, the Mills Group approaches architecture without arrogance but rather with a collaborative approach, building upon the talents of the staff and the vision of the clients.

Mr. Stacey Bowers, AIA, NCARB, Project Architect, earned a Bachelor of Science in Architecture from Fairmont State University and a Master of Architecture from the University of Illinois at Chicago. During that time, she studied abroad for a semester in Barcelona, where she traveled to the Netherlands, Italy, Ireland and other parts of Europe. During her undergraduate studies, she interned at Vandaila Heritage Foundation where she first met and worked with Michael Mills. Throughout her professional career, her background and interests have remained grounded in historic preservation and architecture that demonstrates a sensitivity to existing and historic resources. She takes great pride in her projects and the way they continue to provide the owner success and happiness long after the construction is complete.

STATEMENT OF QUALIFICATIONS

PROJECT AND GOALS



GOAL/OBJECTIVE 1

Once the contract is awarded, POTESta will visit Ridge Hatchery to gather additional information and have dialogue with on-site personnel. From this effort, we anticipate preparing our detailed scope of services. POTESta will work with WVDNR to develop a successful team approach to the project.

GOAL/OBJECTIVE 2

PRELIMINARY AND FINAL DESIGN

POTESta will take information gathered from Goal/Objective 1 and develop preliminary plans for the WVDNR to review and make comments.

POTESta will proceed with the final design and preparation of project specifications for the project once WVDNR has reviewed the preliminary design and we have received comments on the same, and the necessary funding has been obtained. The design can be flexible and POTESta will adjust the design accordingly as the situation and/or funding may dictate. Biosecurity and sustainability are two issues that affect all hatchery rehabilitation plans and POTESta will take into account in final design.

CONSTRUCTION DRAWINGS AND SPECIFICATIONS

Construction drawings and specifications will be prepared for WVDNR and regulatory review and approval prior to advertisement and bidding. POTESta will prepare a preliminary estimate of probable construction cost broken down by major work items. We routinely track bid tabulations available from entities such as the West Virginia Division of Highways and the Contractors Association of West Virginia so that we have ready “access” to up-to-date unit prices. Separate estimates will be made for each facility. The preliminary estimate will be submitted with a draft submittal of the drawings and specifications. A final estimate of probable construction cost will be prepared and submitted with the final drawings. The final estimate will be used for evaluation of project costs and subsequent contractor bids.

PERMITTING

Several permits and/or permit modifications may be required for the proposed project. These may include a NPDES General Stormwater Permit, United States Army Corps of Engineers Permit, West Virginia Public Land Corporation Permit. Modifications to applicable facility NPDES permits will be required.

BIDDING ASSISTANCE

POTESta will prepare a construction bid form and required bidding (i.e., contract) documents and will assist the Agency in the appropriate procedures regarding advertisement and procurement of bids. POTESta will also help present the project at public meetings (if desired) and assist with the pre-bid conference for contractors. Upon receipt of bids, POTESta will aid WVDNR in evaluation of the bids for cost, completeness, and qualifications.

STATEMENT OF QUALIFICATIONS

PROJECT AND GOALS



GOAL/OBJECTIVE 3

After bid evaluation and contractor selection by WVDNR, POTESta proposes to complete the following construction administration and observation tasks during construction. The scope of services described below is based in part on terms and requirements of the *Standard General Conditions of the Construction Contract*, prepared by the Engineers Joint Contract Documents Committee, which has been used for other projects and is assumed to be used as the basis of the contract between the Agency and the contractor.

- Attend pre-construction conference.
- Review underground facilities not shown on contract documents to determine potential changes to contract documents.
- Review substitutes and “or equal” items, and issue written acceptance/denials.
- Review and approve shop drawings and samples (if required), including review of revised shop drawings if necessary.
- Review contractor work plan, if required by specification special conditions.
- Attend progress meetings and as needed meetings.
- Issue written clarifications or interpretations of the requirements of the contract documents, including issuance of additional specifications and drawings.
- Provide a nearly full-time representative to observe construction for compliance with the contract documents, and observe testing by the contractor and record results on appropriate forms.
- Prepare weekly reports summarizing construction activities.
- Prepare change orders for the work, including issuance of additional specifications and drawings, if necessary.
- Review contractor invoices (i.e., Applications for Payment) and issue written recommendations for payment or denial.
- Issue Certificate of Substantial Completion to the Agency, as typically required by the contract documents.
- Provide record drawings showing “as-built” features.



STATEMENT OF QUALIFICATIONS

HATCHERY EXPERIENCE



PALESTINE STATE FISH HATCHERY

POTESTA was retained to provide engineering services for the upgrade of the former Palestine Fish Hatchery facility near Elizabeth, Wirt County, West Virginia in 2020. The Palestine Hatchery was nearly 60 years old and needed a new approximately 9,000 square-foot building to accommodate the culture and reproduction of various species of mussels. The traditional method of mussel reproduction utilizes a host fish for larval development. This building will have one separate controlled area for mussels and one area to hold the host fish. Included in the building will be areas for offices, laboratory space and storage.

POTESTA performed the following tasks to upgrade the hatchery:

- Site Visit with WVDNR Personnel
- Topographic Survey/As-built Survey
- Geotechnical Exploration and Recommendations
- New Groundwater Well Location, Drilling and Testing
- Civil / Site Engineering
 - ⇒ Stormwater Management
 - ⇒ Erosion and Sediment Control
 - ⇒ Site Grading Plan
 - ⇒ Utility Design/Location
 - ⇒ Pond Lining for Algae/Mussel Production
- Building Design/HVAC/Structural
- Specifications/Cost of Hatchery Materials
- Construction Documents
- Permitting
 - ⇒ DOH MM109
 - ⇒ NPDES Construction Stormwater
 - ⇒ County Health Department Septic System
- Bidding and Construction Administration
- Limited Construction Observation



STATEMENT OF QUALIFICATIONS

HATCHERY EXPERIENCE



BULLER HATCHERY AND AQUATIC WILDLIFE CONSERVATION CENTER

POTESTA was retained by Virginia Department of Game and Inland Fisheries to prepare a comprehensive preliminary engineering report for the Buller Hatchery and Aquatic Wildlife Conservation Center. This facility located near Marion, Virginia, provides trout (cool water), muskie and walleye (warmwater) for stocking the waters of Western Virginia. The scope of services also included a major upgrade for the Aquatic Wildlife Conservation Center which cultivates many species of endangered mussels for restocking in suitable river habitat.

The final report included design recommendations for both facilities to improve the production, efficiency, biosecurity and health of fish and mussels. New technologies were proposed into the upgrades which would allow for improved water quality and better growth of all species.

Mills Group developed the concept for the 6,000 square-foot building, including a mechanical/filter room, storage area, brine shrimp prep room, two offices, small kitchen, mud room, and female and male bathrooms. Production area for the hatchery included:

- 6'x6' Circular Tanks
- 6'x10' x 1.5' Fry Tanks
- 8'x20' x 3' Holding Tanks
- 24 Hatching Jar (Removable in a 3'x16' area)
- 12'x12' overhead door for mechanical room for large filters (2 sand filters, 3 pumps, heat exchange, and UV filter)

POTESTA was also retained to complete additional services for a second hatchery in the state, King and Queen Hatchery, that ran concurrent with the Buller Hatchery Project.



STATEMENT OF QUALIFICATIONS

HATCHERY EXPERIENCE



CLIENT	TYPE OF PROJECT	PROJECT GOALS AND OBJECTIVES
Buchart Horn Stevensville, Virginia	Renovations to King and Queen Hatchery	<ul style="list-style-type: none"> • Surveys of ponds • Conceptual Plan of renovations • Final Design • Construction Phase Services • Preparation of Erosion and Sediment Control Plan
Mountaineer Trout Farm Raleigh County, West Virginia	Reduce solids from a series of parallel raceways for commercial production of rainbow trout in order to meet NPDES limits	<ul style="list-style-type: none"> • Evaluated feed management and farm operations to allow for early solids removal to reduce TSS at the discharge. • Settling pond and composting area were included in the recommendations
High Tech Fisheries Uniontown, Pennsylvania	Continual disease problems causing low survival in 200 gallon tanks	<ul style="list-style-type: none"> • Modified biosecurity protocols • Installed large UV units and a quarantine tank to control disease
Trout Lodge and Anglers Resort Monroe County, West Virginia	Increase production and acquire more water flow in the raceways	<ul style="list-style-type: none"> • Custom set of low head oxygenators for the upper levels of the raceway system, which allowed an increase in stocking densities and improved production • Demand feeders over the raceways reduced the labor needed for feeding the trout
West Virginia University- Dogwood Lake Aquaculture Site Monongalia County, West Virginia	Development of aquaculture research and demonstration facility	<ul style="list-style-type: none"> • Responsible for production, research, and maintenance of the facility • Training undergraduate and graduate students for data collection and daily maintenance • The site has become a private trout production facility supplying high quality trout for live stockings
Center for Great Lake Studies Recirculating Hatchery Milwaukee, Wisconsin	Design, assembly and testing of a 10,000 gallon recirculating tank for research	<ul style="list-style-type: none"> • Biofilter design was a sand based fluidized bed reactor and was sized for intense feeding • Options for ozone and UV were included. • Personnel training for operation included biosecurity measures and feed management evaluation



STATEMENT OF QUALIFICATIONS

WATER EXPERIENCE



CLIENT	TYPE OF PROJECT	PROJECT GOALS AND OBJECTIVES
Preston County PSD #2 Howesville, WV	Howesville Area Water Line Extension	<ul style="list-style-type: none"> • WVIJDC and PER for funding agency purposes • Construction drawings, including replacement and extension of 74,000 feet of water line, including a 260,000– gallon water storage tank, a 280 GPM booster station, and three pressure reducing valves • Environmental impact statement for the federally funded project that resulted in a finding of no significant impact (FONSI) • Preliminary estimate of probable construction cost
Boone County PSD Boone County, WV	Stephens Auto/Betsy Lane Water Line Extension	<ul style="list-style-type: none"> • Surveyed a proposed railroad crossing and drawings • Permit applications • Water line extension that including approximately 4,800 linear feet of 6-inch and 2-inch water line, two fire hydrants, one river crossing, one railroad crossing and 19 potential customers
City of Philippi Philippi, WV	Relocation of Water Line	<ul style="list-style-type: none"> • Prepare construction documents • Permit applications • Construction monitoring for relocation of waterlines disrupted by the WVDOH Philippi Bridge Bypass Project
Boone County PSD Boone County, WV	Joe's Creek Water Line Extension	<ul style="list-style-type: none"> • Site reconnaissance to locate pathway of the water line, identify potential customers, etc. • Met with utility officials • Hydraulic calculations • Prepared report summarizing preliminary design
Boone County PSD Boone County, WV	Trace Branch at Robinson Water Line Extension	<ul style="list-style-type: none"> • Design of 3,100 feet of 6-inch and 2-inch water line with multiple stream crossings, roadway crossings, and a railroad crossing • Surveying for the railroad crossing • Preparation of construction drawings • Prepare permit applications
Town of Mill Creek Randolph County, WV	Water Improvement Project	<ul style="list-style-type: none"> • Prepared a plan to evaluate the distribution system to identify areas that experience water loss • Secured funding to replace the Town's entire distribution system • Water storage tank
Town of Ceredo Wayne County, WV	Water Distribution System Upgrades	<ul style="list-style-type: none"> • Design, permitting, bidding and construction phase services for an upgrade to the town's water distribution system • Included in the design was field testing to develop "C" values for modeling of existing water distribution system • Hydraulic modeling
West Virginia American Water Logan County, WV	Mifflin-Sharples Water Line Extension	<ul style="list-style-type: none"> • Calibrated hydraulic modeling • Designed interconnection for system acquisition • Approximately 11,000 LF of 8-inch
West Virginia American Water/Cabell County, West Virginia	Cabell County Water Line Extensions	<ul style="list-style-type: none"> • Design and prepare construction/bid documents for approximately 23 miles of 2 through 8-inch diameter water line • Field reconnaissance and coordination with public and private utility companies • Bid quantities and an engineer's cost estimate • Construction management

STATEMENT OF QUALIFICATIONS

WATER EXPERIENCE



CLIENT	TYPE OF PROJECT	PROJECT GOALS AND OBJECTIVES
West Virginia American Water/Boone County, West Virginia	Lick Creek Water Line Extension— Phase I	<ul style="list-style-type: none"> • Water line service to approximately 200 customers • Hydraulic evaluation of existing and proposed line • Prepared drawings and specifications • Preparation of permit applications • Construction phase services • 32,000 LF of 8-inch, 6-inch, and 2-inch water line
Boone County Public Service District/Boone County, West Virginia	Hatfield-McCoy/Waterways Water Line Extension	<ul style="list-style-type: none"> • Extending water line from Julian to approximately 10 new customers, crossing a four-lane highway, and a river. • Approximately 12,000 LF of 12-inch, 8-inch, and 6-inch water line were designed, as well as four river crossings • Hydraulic evaluation • Prepare funding applications • Prepare drawings, specifications, and a cost estimate • Preparing permit applications • Construction management/administration
Fairview Oaks, LLC/ Morgan County, West Virginia	Fairview Oaks Water Line Extension	<ul style="list-style-type: none"> • Prepare base mapping for water line extension • Site reconnaissance • Fire hydrant flow tests of the existing water system to obtain data for hydraulic evaluation • Hydraulic evaluation • Construction drawings and technical specifications • Permit applications
West Virginia Department of Environmental Protection Office of Abandoned Mine Lands Kanawha and Fayette Counties, WV	Burnwell Water Line Extension— Pathway and Source Study	<ul style="list-style-type: none"> • Study evaluating possible water line extension to the Collinsdale/Burnwell area from neighboring public water systems • WVDEP directed POTESTA to complete a study that compared alternate pathway from alternate sources • Design water line extension from the preliminary engineering report • Geotechnical exploration and assessment for tank and booster sites • Boundary surveys and plats • Hydraulic evaluation • Prepared drawings, technical specifications, contractor's bid forms, engineer's construction cost estimate, and calculations brief
Cowen Public Service District/Cowen, West Virginia	Erbacon Water Line and Water Distribution Upgrade	<ul style="list-style-type: none"> • 7,200 LF 8" PVC main replacement • Reconnection of 50 customers • Elimination of 50 gpm of leakage • 4 new fire hydrants
Boone County Public Service District/Boone County, West Virginia	Six Mile to Corridor G Water Line Extension	<ul style="list-style-type: none"> • 8,700 feet of 8-inch and 2-inch water line with multiple stream crossings, and branch connection roadways crossings • Construction drawings • Hydraulic evaluation • Permit applications
Boone County Public Service District/Boone County, West Virginia	Joes Creek Water Line Extension—Phase II	<ul style="list-style-type: none"> • One booster station • Approximately 4,800 feet of 6-inch and 2-inch water line with multiple stream crossings and roadway crossings for "spurs" • Water supply for approximately 18 potential customers • Construction drawings • Sizing 60-gallon per minute booster station • Hydraulic evaluation • Permit applications

STATEMENT OF QUALIFICATIONS

WATER EXPERIENCE



CLIENT	TYPE OF PROJECT	PROJECT GOALS AND OBJECTIVES
Boone County Public Service District/Boone County, West Virginia	Dartmont Park Water Line Extension	<ul style="list-style-type: none"> • 1,500 feet of 6-inch and 2-inch water line designed to serve a church, parsonage, and public park • Construction of a river crossing and installation of fire hydrant • Prepared construction drawings • Hydraulic evaluation • Quantifying materials and preparing a bid form • Construction observation
Putnam County Commission/West Virginia American Water/Putnam County, West Virginia	Fisher Ridge Water Line Extension— Phase II	<ul style="list-style-type: none"> • Revised existing construction drawings of 11,000 LF of 8-inch diameter water line along Fisher Ridge Road • Prepared environmental impact statement • Identified and collated bidding document • Prepared a preliminary estimate of probable construction cost • WVJDC application • Construction administration/observation
Berkeley Springs Development Morgan County, WV	Public Water Supply System	<ul style="list-style-type: none"> • Prepare the design of a public water supply system to provide service to approximately 1,300 customers, including commercial customers, at the proposed Villages at Coolfont
City of Glenville Glenville, WV	Water Distribution System Upgrade	<ul style="list-style-type: none"> • Study phase, design phase, bidding phase and construction phase services involving upgrades and construction monitoring to their existing potable treatment and water distribution system.
West Virginia American Water Company Putnam County, WV	Poca Water Waterline Extension	<ul style="list-style-type: none"> • Prepared a design and develop bidding/construction documents for approximately 68,000 linear feet of 6 to 8-inch diameter waterline following the Poca River
West Virginia American Water Boone County, WV	Permitting Water Line Extension	<ul style="list-style-type: none"> • Permit applications for the Lower White Oak Drive water line extension
City of Wellsburg Wellsburg, WV	Water System Improvement Project	<ul style="list-style-type: none"> • Preparation of a preliminary engineering report • Application to the West Virginia Infrastructure and Jobs Development Council for funding for a water system improvement project • Overall system needs assessment • Prepared an opinion of cost associated with the proposed upgrades and prioritized the list based on financial capabilities
West Virginia American Water/Putnam County, West Virginia	Buff's Branch/Trace Fork Water Line Extension	<ul style="list-style-type: none"> • 35,000 LF of 8-inch, 12-inch, and 16-inch diameter water line • Field reconnaissance and coordination with public/private utilities • Developed bid quantities and an engineer's cost estimate • Permit applications
Boone County Public Service District/Boone County, West Virginia	Mud River Road/Cox's Fork Road Water Line Extension—Phase I	<ul style="list-style-type: none"> • 30,000 LF water line extension, including 8-inch, 6-inch, and 2-inch pipe • Potable water service to approximately 130 commercial and residential customers • Prepare construction drawings • Hydraulic evaluation • Permit applications
Mingo— Logan Coal Co. Logan County, WV	Potable Water Supply for Mountain Laurel Complex	<ul style="list-style-type: none"> • Design concept for the potable water supply for a new deep mine complex • Completed hydraulic evaluation of the extension

STATEMENT OF QUALIFICATIONS

WASTEWATER EXPERIENCE



CLIENT	TYPE OF PROJECT	PROJECT GOALS AND OBJECTIVES
Salt Rock Sewer PSD Cabell County, WV	Evaluation of Overflows from Culloden Sewage Pump Station	<ul style="list-style-type: none"> Reviewed project documentation, including design documents Visited the project site to record observations, including electrical components Coordinated obtaining flow/pressure data readings, and then compared results to design conditions Prepared report summarizing the finding and providing recommendations
Salt Rock Sewer PSD Cabell County, WV	Preliminary Engineering for Extension of Sanitary Sewer Service	<ul style="list-style-type: none"> Preliminary engineering services pertaining to a potential extension of sanitary service to Henry White Road Evaluated project area and determined that approximately 4,500 feet of 8-inch gravity collection line, 2,000 feet of 2-inch force main, and 18 manholes to extend sanitary service Provided a Preliminary Estimate of Probable Construction Costs Assessed power costs for the pump station
Boone County PSD Boone County, WV	Rehabilitation of Sanitary Sewer Collection Line	<ul style="list-style-type: none"> Design, permitting, and bidding for 3,700 feet of gravity sewer line replacement, and rehabilitation of two pump stations in the West Madison area
Huntington Sanitary Board Huntington, WV	Long-Term Improvement Plan for Sanitary Board	<ul style="list-style-type: none"> Design, bidding and construction services for new regional septage receiving and a vacuum truck disposal, pump station, septage receiver ("the beast") and new access roadway Design and bidding for installation of Inline Check Valve into 5th Avenue 60-inch concrete CSO outfall pipe Design, bidding, and construction services for the installation of Stormwater Pump Stations on 8th Street and 10th Street underpasses and installation of pressure and gravity lines between 8th Street and 10th Street, and one manhole on 10th Street to connect into the existing 10th Street gravity storm sewer Design, bidding, and construction services for the installation of the Park Pointe Force Main Bypass Project, utilized directional drilling for installation of approximately 280 feet of 14-inch HDPE with two tie-ins. Design, bidding, and construction services for upgrading in some capacity to 17 floodwall pump stations Design, bidding and construction services cleaning work involving the capture, dewatering, transport and disposal of removed debris, and CCTV pipeline inspection of approximately 27,100 feet of 30 to 48 inch interceptor sewer line and 4th Street and 13th Street sewage pump station wet wells Design, bidding and construction services of a new HDPE effluent line, diffuser, air chamber, and overflow line, including replacement of a 50-year-old effluent line Evaluation of mixing zone for WWTP discharge into the Ohio River Design of chlorination building relocation to centralized location within WWTP Design services for two grinder pump stations, force main, and gravity sewer at Sunset Drive Design of replacement heating and ventilation system at WWTP
Boone County PSD Boone County, WV	Design of WWTP Upgrades	<ul style="list-style-type: none"> Design, permitting, bidding, and construction phase services for upgrade of the Danville Wastewater Treatment Plant

STATEMENT OF QUALIFICATIONS

WASTEWATER EXPERIENCE



CLIENT	TYPE OF PROJECT	PROJECT GOALS AND OBJECTIVES
Salt Rock Sewer PSD Cabell County, WV	Odor Control Study	<ul style="list-style-type: none"> Odor control study mandated by the West Virginia Public Service Commission Complaints arose after a proposed lift station site was modified to include a "headworks" facility
American Electric Power (AEP) Kanawha County, WV	Design and permitting of WWTP	<ul style="list-style-type: none"> Evaluation, design and permitting of new peat system WWTP facility for Claytor Lake, Virginia hydroelectric plant.
Boone County PSD Boone County, WV	Evaluation of Sewer Service Extension	<ul style="list-style-type: none"> Preliminary engineering report for Nellus area including evaluating existing situation, package WWTP, historical flow, and capacity for various components. Inventoried permits and certificates Prepared detailed preliminary estimate of contraction cost including 21,500 feet of gravity collection system, 4,200 feet of force main, 600-foot bore and jack crossing, and five pump stations
North American River Runners Fayette County, WV	Rehabilitation of WWTP	<ul style="list-style-type: none"> Design and permitting services for upgrade to package WWTP
Boy Scouts of America Pocahontas County, WV	Replacement of Sanitary Sewer Collection System/ WWTP	<ul style="list-style-type: none"> Design of replacement sanitary sewer collection system and design of new sewage stabilization lagoon at Dilley's Mill Boy Scout Camp
Tucker County Development Authority Tucker County, WV	New Sewer Line	<ul style="list-style-type: none"> Design, permitting, and construction administration/ observation of approximately 8,000 linear feet of water line and 8,000 linear feet of sewer line to extend service from the Town of Davis to the new Tucker County Industrial Park
Old Standard Development Jefferson County, WV	Design and Permitting of WWTP	<ul style="list-style-type: none"> Design and permitting of a 50,000-gallon per day Membrane Bioreactor (MBR) type WWTP (expandable to 250,000 gpd) for a large residential development Design included nearly 10,000 linear feet of force main and gravity sanitary sewer collection line and two pump stations
City of Buckhannon Upshur County, WV	Engineering Design of Sanitary Sewer Extensions	<ul style="list-style-type: none"> Line 1: Approximately 4,600 feet of gravity sanitary sewer line Line 2: Approximately 5,200 feet of gravity sanitary sewer line Line 3: A lift station, approximately 4,100 feet of gravity sanitary sewer line, and approximately 2,500 feet of force main
ZMM, Inc. McDowell County, WV	Collection System and Upgrade to the Collection System	<ul style="list-style-type: none"> Design, permitting, bidding, and certain construction phase services associated with a collection system associated with two new schools of the same site, and the associated upgrade of the Town of Bradshaw's existing vacuum collection system
Timberwolf Development Corporation Kanawha County, WV	Sanitary Sewer Systems	<ul style="list-style-type: none"> Design and construction observation of water supply and sanitary sewer systems for Yorketown Subdivision
Carmeuse Lime & Stone Frederick County, VA	WWTP	<ul style="list-style-type: none"> Permitting, design, and construction oversight services for a wastewater treatment plant and a water treatment plant
Town of Handley Kanawha County, WV	Design and Construction of Sewer System	<ul style="list-style-type: none"> Provide design and construction phase services for rehabilitation of their 1980's sewer system, including upgrade 3 pump stations

STATEMENT OF QUALIFICATIONS

WASTEWATER EXPERIENCE

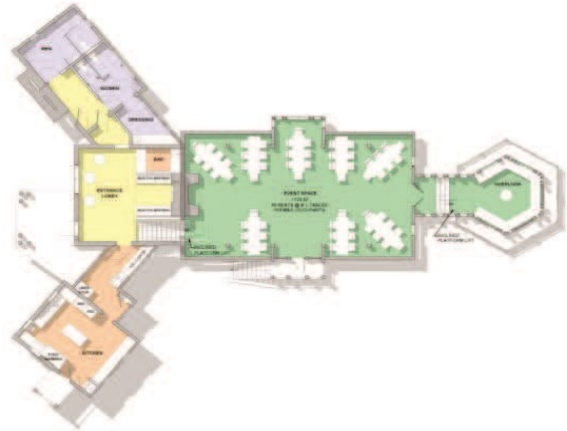


CLIENT	TYPE OF PROJECT	PROJECT GOALS AND OBJECTIVES
Virginia Department of Game and Inland Fisheries	Buller Fish Hatchery	<ul style="list-style-type: none"> Comprehensive preliminary engineering report Major upgrade for the Aquatic Wildlife Conservation Center Design recommendations for both facilities and new technology proposed Final report
Berkeley Springs Development Morgan County, WV	Design and Permitting of WWTP	<ul style="list-style-type: none"> Design and permitting of a 440,000-gallon per day membrane bioreactor type WWTP for a large residential development Design included over 18,000 feet of gravity sewer line with sizes ranging from 8-inch to 15-inch and 5,800 feet of 8-inch force main and 85 feet of 2-inch force main Design for a water treatment plant and water distribution system for the development.
Sissonville PSD Kanawha County, WV	Engineering Design of Sanitary Sewer Extension	<ul style="list-style-type: none"> Design an approximate 2300-foot sanitary sewer extension along Wolfpen Branch to provide service to 30 customers Surveyed the path and prepared topographic mapping Engineering design for the sewer line extension Developed drawings and technical specifications
ECOLAB Berkeley County, WV	Evaluation of pre-treatment WWTP	<ul style="list-style-type: none"> Evaluation and recommendations for the pretreatment of ECOLAB's effluent The evaluation focused on bringing the effluent into compliance with permit limitations
Town of Ceredo Wayne County, WV	Upgrade to Sanitary Sewer System	<ul style="list-style-type: none"> Design, permitting, and construction phase services for an upgrade to the sanitary sewer system, including pump station Design phase included identifying the need to upgrade piping sizes and pumping rates Project was CWSRF funded
Step toe & Johnson PLLC/ Berkeley County PSSD Berkeley County, WV	Disinfection System Improvements at WWTP	<ul style="list-style-type: none"> Provided an evaluation and subsequent affidavit regarding disinfection at Berkeley County Public Sewer Service District's Marlowe Town Center package wastewater treatment plant



STATEMENT OF QUALIFICATIONS

ARCHITECTURE EXPERIENCE



Hawks Nest Event Center

LOCATION : Ansted, WV
CLIENT/PROJECT MANAGER :
WV DNR - Parks and Recreation
SERVICES : Conceptual through
Construction Observation
CONSTRUCTION VALUE :
\$800,000



Mills group was hired by the WV DNR to provide consulting services for the CCC Museum and Picnic Pavilion at Hawk's Nest State Park starting with concept design through construction observation. The scope of work for the Museum building is to adaptively reuse the structure that currently serves as a residence and moth balled museum space into an event and wedding venue while preserving the historic qualities. The event space shall have a catering kitchen, pre-function space, restrooms/dressing room, and event space for just over 50 guests within the grand hall of the historic Museum.

The scope of the work requires complete upgrades of the heating and cooling systems, upgraded electrical systems, fire detection and alarm, ADA lifts, and site work to include parking and accessible route to the venue. The scope of work related to the Picnic Pavilion is limited to restoration of the roof, minor log restoration, and electrical upgrades.

STATEMENT OF QUALIFICATIONS

ARCHITECTURE EXPERIENCE



Hawks Nest / Twin Falls State Parks

LOCATION : Ansted, WV and
Twin Falls, WV

CLIENT/PROJECT MANAGER :
WV DNR - Parks and Recreation

Brad Leslie
304-558-2764

SERVICES : Section 106 Monitoring
CONSTRUCTION VALUE :
N/A



Both Twin Falls and Hawks Nest State Park Lodges were designed by a team of architects called The Architecture Collaborative (TAC) which was led by world renowned modern architect Walter Gropius. While the buildings are significant for their modern architecture, the HVAC system needed to be improved for energy efficiency. An American Recovery and Reinvestment Grant allowed the two state parks to install efficient equipment and upgrade the heating and air conditioning in the lodges. Because of the historic and architectural significance of the two lodges, Mills Group was asked to serve as a monitor to ensure that the project met the Secretary of the Interior's Standards as well as complied with the Federal law, Section 106 of the National Historic Preservation Act of 1966.

Mills Group served as the liaison between the project manager and the State Historic Preservation Office, documented the efforts of the team as they installed the units, and compiled data to comply with Federal and state regulations.

STATEMENT OF QUALIFICATIONS

ARCHITECTURE EXPERIENCE



1200 Bottleworks

LOCATION : Fairmont, WV

CLIENT: Merit Development

SERVICES : Construction Documents

CONSTRUCTION VALUE :

\$884,000

The project at 1200 Bottleworks includes interior renovations and tenant build-out of an existing 64' X 120' pre-engineered metal building and a new 40' x 60' warehouse building in the industrial park. The interior renovations will provide 4,700 sq. ft. of warehouse space and 2,980 sq. ft. of office areas, conference room, large training space as well as restrooms and locker rooms to service the warehouse areas. The design of the interior build-out was carefully coordinated with the existing structure to minimize modification to existing exterior envelope, windows, and doors.



STATEMENT OF QUALIFICATIONS

ARCHITECTURE EXPERIENCE



Morgantown Ice Arena

LOCATION : Morgantown, WV

CLIENT : BOPARC

SERVICES : Existing Building & Site
Documentation, Due-Diligence &
Analysis, Master Plan, Conceptual
Design, Stakeholder Engagement,
Accessibility

CONSTRUCTION VALUE :
N/A



The proposed improvements to the year-round Morgantown Ice Arena include mechanical, electrical, and plumbing systems, chiller system, existing landscaping as it relates to external building maintenance and expansion, ADA compliance and accessibility, and the consideration of sustainable features regarding water and energy efficiency.

The site design includes greenspace, landscaping, building entry, parking and location of an additional (studio) ice sheet. The existing building and site are within the R1-A Zoning District of the City of Morgantown. Site specific items include expanding the existing parking lot to the northwest and developing a new parking area across Mississippi Street adjacent to the existing softball fields. A new curbed entrance and pedestrian walkway will be necessary for the enhanced site entrance for vehicles and pedestrians. Additionally, service access surrounding the building and a Zamboni dump area are critical to the site layout. Items particular to MEP scope include, but aren't limited to a new chiller, dehumidification system and HVAC for both ice surfaces, HVAC, electric, and plumbing for locker rooms, private and public area, etc., electrical components, new lighting in existing arena, and tie-in to new sanitary lateral.

The design team has addressed concerns with moisture intrusion on the exterior envelope of the existing building as it relates to planned renovations, planning for integration of structural elements specific to balconies and other spectator seating areas, new openings consisting of skylights, windows and doors and stair tower exteriors, etc.

STATEMENT OF QUALIFICATIONS

MANAGEMENT PLAN



REQUIRED DOCUMENTS

Appendix B contains the executed Disclosure of Interested Parties to Contracts, DNR 2200000008 Solicitation Form, Certification and Signature Page, Purchasing Affidavit, and Addendum Acknowledgement Form.

PROCEDURE FOR COMMUNICATION WITH OWNER

Mr. Dana Burns, P.E., P.S., Vice President/Principal-in-Charge, will be responsible for contract management (administration) and shall coordinate and direct all aspects of the project. Day-to-day project activities for this project will be performed under the direction of our **Project Manager, Mr. Daniel Miller, Ph.D., Senior Scientist**. Mr. Daniel Miller, Ph.D. will be the point of contact to allow clear communication with the WVDNR. **Mr. Terence Moran, P.E., Senior Engineer**, will serve as a “**backup**” **Project Manager**.

A written proposal, including a detailed scope of services and an associated manhour and cost estimate, will then be prepared and submitted to WVDNR for review. The project manager will review the proposal with the WVDNR, including a task-by-task discussion of work items, and the related costs. Upon the WVDNR's approval of the proposal, the project manager will arrange for the start of project activities. The Principal-in-Charge will provide the Project Manager the required staff necessary to complete the project activities, will review the project budget and schedule during performance of the project, and will provide a final QA/QC review of the documents prior to submittal to the WVDNR. The Project Manager will develop a detailed step-by-step project work plan so that the project activities are completed in a correct manner, within budget, and on-time. POTESta will be available to conduct weekly status reports which may include weekly meetings, memos, or telephone calls with the WVDNR's project manager as required.

PROJECT BUDGET CONTROL

The Project Manager will be responsible for monitoring the project budget and keeping the Principal-in-Charge informed of its status. The Project Manager will develop a work plan based on hourly rates and tasks to complete the project. POTESta's staff enters time into POTESta's InFocus accounting system on a daily and/or weekly basis. POTESta's project manager can access InFocus at any time, thus allowing a real-time control of project costs.

PROJECT SCHEDULE CONTROL

Direct responsibility for schedule control lies with the Project Manager. Initially, the Project Manager will review schedule requirements to see how they can be achieved given the anticipated scope of work and develop a work plan. As the project progresses, the Project Manager will monitor progress and compare it with the established schedule on a weekly basis keeping the Principal-in-Charge aware of the schedule's status. In this manner, the Principal-in-Charge can make staff adjustments to allow the Project Manager to maintain the project schedule. If circumstances develop that could impact the project schedule, the Project Manager will contact the WVDNR's Project Manager to develop a mutually acceptable adjustment to the schedule and/or work plan.

STATEMENT OF QUALIFICATIONS

REFERENCES



Boone County Public Service District

Ms. Nancy Shreve, Manager

109 Town Square
Danville, West Virginia 25053
(304) 369-2622
nancyshreve@hotmail.com

Virginia Department of Game and Inland Fisheries

Mr. Uwe E. Weindel

1724 Buller Hatchery Road
Marion, Virginia 24354
(276) 783-4172

West Virginia American Water

Mr. Randy Blankenship, P. E.

1600 Pennsylvania Avenue
Charleston, West Virginia 25302
(304) 395-4987
randal.blankenship@amwater.com

Cowen Public Service District

Mr. Terry Wayne, Manager

7017 Webster Road
Cowen, West Virginia 26206
(304) 226-3541
cowenpsd@frontier.net

Appendix A

DANA L. BURNS, P.E., P.S.

Vice President



EDUCATION

M.S. Civil Engineering, 1979
West Virginia University

B.S. Civil Engineering, 1978
West Virginia University

EMPLOYMENT HISTORY

1997-Present	Potesta & Associates, Inc.
1994-1997	Terradon
1979-1994	GAI Consultants, Inc.
1978-1979	West Virginia University
1976-1977	West Virginia Department of Highways (summers)

PROFESSIONAL REGISTRATIONS

- Professional Engineer – West Virginia, Illinois
- Professional Surveyor – West Virginia

PROFESSIONAL CERTIFICATIONS

40-Hour Health and Safety Training

SERVICE ON BOARDS AND COMMISSIONS

- Environmental/Technical Committee member – West Virginia Coal Association
- Environmental Committee member – Kentucky Coal Association

- Past Board of Directors member and current Waste Team Chairman on the Environmental Safety and Health Committee – West Virginia Manufacturers Association
- Environmental and Safety Committee member – Independent Oil and Gas Association of West Virginia
- Environmental Committee member – West Virginia Oil and Natural Gas Association
- Past President – West Virginia Society of Professional Engineers, Professional Engineers in Private Practice
- Past President and past Board of Directors member – American Council of Engineering Companies West Virginia Chapter
- Past Chairman of Transportation Committee – American Council of Engineering Companies West Virginia Chapter
- Past Board of Directors member – Society of American Military Engineers Huntington Post
- Member Committee D-18 on Soil and Rock – American Society for Testing and Materials (ASTM)

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- National Society of Professional Engineers
- WV Society of Professional Surveyors

AREAS OF SPECIALIZATION

Management of design and permitting of civil, environmental, geotechnical, and mining engineering projects. Siting, design, and permitting of industrial and municipal waste disposal sites; reclamation of abandoned mine lands; and development of stormwater management plans and groundwater sampling programs. Environmental/reclamation liability assessments. Development of site plans for commercial and industrial facilities including hydrologic and hydraulic analyses. Expert witness testimony. Directs engineering division including day-to-day operation of headquarters and three branch offices concerning staffing, coordination, training, business development, and overall management of technical and support staff.

PROFESSIONAL EXPERIENCE

Civil/Site Design

Utility extension, site grading plans, stormwater management, roadway design, and permitting for site development:

- Residential subdivisions
- Commercial developments

University of Charleston – Principal-in-Charge for the following projects:

- Development of topographic mapping of campus
- Evaluation of storm sewer system
- Civil site services – UC Pharmacy School, New Hall, Middle Hall, and Brotherton Hall
- Design of new campus entrance roadway

Marshall University – Principal-in-Charge for the following projects:

- 400 bed housing project
- Biotechnology Center
- Fifth Avenue parking and 6th Avenue parking facility
- Jomie Jazz Center
- Childcare Center
- Mid-Ohio Valley Center
- Campus landscape master use plan
- Campus improvements project
- MU Graduate College South Charleston campus
- Student Center and Henderson Center
- Bookstore addition
- University Heights

Glenville State University – Principal-in-Charge for the following projects:

- Student Residence Hall
- Athletic Convocation Center and Forestry/Survey Class Center

West Virginia University – Principal-in-Charge for a sidewalk repair project located near Allen Hall on the Evansdale Campus in Morgantown, West Virginia.

The Villages at Coolfont – Principal-in-Charge to provide environmental and engineering consulting services for the redevelopment of the Coolfont Recreation property in

Morgan County, West Virginia to create a second home community with high-end amenities:

- Phase I Environmental Site Assessment
- American Land Title Association (ALTA) boundary and property survey of 997 acres
- Completed an assessment of the facility's sanitary sewer wastewater treatment plant to facilitate acquisition of the property.
- Participated in weeklong planning charrette with client, land planners, and other design consultants to assess characteristics of property, identify opportunities and constraints, obtain input from local residents and businesses, and develop design guidelines.
- Land use plan including 1,300 homes, a village center, spa, expansion of an existing lake, a proposed second lake, walking/hiking/biking trails, and the necessary infrastructure.
- Civil engineering design for potable water and wastewater treatment facilities.
- Selected source well locations, drilled 3 source test wells, and completed field testing and permitting.
- Designed 300 gallon per minute potable water treatment plant.
- Designed 2- 316,000-gallon water storage tanks and 75,000 LF of distribution system.
- Completed the design and permitting for a 448,000-gallon per day membrane bioreactor wastewater treatment plant, including the design of a 70,000 LF collection system.
- Assisted with permitting required for the development of the new lake and upgrades/expansion of the existing lake (included were Section 404 individual permit and Section 401 water quality certification).
- Prepared roadway and stormwater management plans, including typical pavement sections, road profiles, geometric layout plan, culvert and drop inlet sizing, drainage conveyance pipe and channel profiles, and miscellaneous stormwater management details.

City of Charleston – Inspection and preparation of rehabilitation design for Parking Garage No. 1.

Tucker County Industrial Park – Principal-in-Charge for the design which included water and sewer lines, stormwater management design, roadway design, pavement design, site grading plan, master plan, and geotechnical exploration/foundation recommendations.

Principal-in-Charge for site grading plans, stormwater management system, site surveying, roadway/parking lot design, wetland delineation/mitigation, and construction monitoring for the 400,000-square foot Coldwater Creek distribution center in Parkersburg, West Virginia.

Principal-in-Charge for the civil/site design for the new Sissonville Middle School in Kanawha County, West Virginia. Project included site grading plan with more than 230,000 cubic yards of earthwork to obtain 20 acres of level ground for a 74,000-square foot school, football field, soccer field, baseball field, access roadways, and parking areas. Project included utility designs for water service and sanitary and sewer. Stormwater collection systems and erosion and sediment control plan/permit completed.

Principal-in-Charge for civil/site design for new Riverview High School and Bradshaw Elementary School in McDowell County, West Virginia. Project included 2,500 linear feet of relocated WV Route 80, relocation of 1,200 feet of Oozley Branch, and site work (grading, stormwater drainage, geotechnical recommendations, sanitary sewer, water, and electrical services) to serve the two schools. Project design included site survey, geotechnical exploration, foundation recommendations, design of excavation slopes, layout of schools, parking areas and athletic fields, utility design, roadway relocations plans, and stream relocations plans. Responsible for the design and preparation of contract bid documents (specifications and drawings) for civil/site work. POTESta served as a subconsultant to ZMM on this project.

Principal-in-Charge for civil/site design and permitting associated with the construction of three synthetic fuel pellet plants in McDowell County, Nicholas County, and Kanawha County, West Virginia. Project included developing synthetic fuel manufacturing facilities on inactive surface mining sites. Services included subsurface exploration, foundation recommendations, grading plans, stormwater management plans, preparation of permit applications, and construction monitoring for site grading and foundation construction. The McDowell County site included a water source study to identify and select water sources for the manufacturing process. The three plants had a construction cost of \$25 million. Project was a design/build arrangement with POTESta working directly for the owner.

Carmeuse Lime & Stone – Principal-in-Charge of engineering and environmental services for the expansion of current quarry operations at Winchester quarry in Winchester, Virginia. The expansion includes the addition of two new vertical lime kilns and associated equipment, increasing their current aggregate crushing operation, and expanding their rail system to allow for increased shipping of product.

- Design included grading, stormwater management, and an access road crossing for a rail loop encircling the lime kilns and aggregate crushing areas with rail spurs for loading and unloading of product to connect to two mainline rail carriers.
- The total project track length consists of approximately 29,000 linear feet of rail.
- The design of the rail expansion includes trackside ditches, culverts, stormwater management systems, gas line relocations and crossings, rail crossings, and internal plant roadways, as well as grading for the expanded aggregate plant and lime kilns.
- Additional designs included civil/site services for a new office building and design of the sanitary water treatment system for this building.
- Acquired the necessary approvals to construct this project, such as approvals from local planning and zoning, inspections, health departments, and state governments such as Virginia Department of Transportation, Department of Environmental Quality (DEQ) and Department of Mining and Mineral Extraction (DMME).
- Conducted wetland delineations, developed reports, and completed applications to the Norfolk District (Northern Virginia field office) of the United States Army Corps of Engineers (USACE).

Development of specifications for a sand mound treatment system in the U.S. Air Training Center near Pittsburgh, Pennsylvania.

Water Lines, Water Storage Tanks, and Water Treatment Plants

New extensions and replacement of existing lines:

- Cassity Fork Water Supply Extension Project – Randolph County, WV (Project Manager)
- Godby Branch Water Supply Extension Project – Logan County, WV (Project Manager)
- Beaver Creek Water Supply Extension – Upshur County, WV (Project Manager)

- Buff Creek/Trace Fork – Putnam County, WV (Principal-in-Charge)
- Route 60 – Putnam County, WV (Principal-in-Charge)
- Boone County PSD numerous extensions – Boone County, WV (Principal-in-Charge)

West Virginia American Water Company – Principal-in-Charge for construction administration/monitoring for Poca River Water Line Extension Project, Cabell County Water Line Extension Project, Contract No. 7, Spite Road Water Line Extension Project, and Fisher Ridge Water Line Extension Project. Work included construction monitoring, preparation of weekly reports, review of contractor submittals, review of contractor invoices, and preparation of records drawings for 100,000+ linear feet of water line extensions.

City of Philippi – Principal-in-Charge for municipal water system upgrade project. Work included design of two replacement booster stations, two new water storage tanks, new pumps for an existing booster station, a 1,500-foot water line extension, and telemetry systems. Drawings, specifications, and a cost estimate were prepared.

West Virginia American Water Company – Principal-in-Charge for Residuals Handling Facility project at the 32 MGD Kanawha Valley Water Treatment Plant, including coordination design consultant. Design included sludge pumping station, 950,000-gallon reinforced concrete gravity thickener, two belt filter presses, chemical feed systems, plate settler, and associated control and piping. Work included preparing design concept, surveying, subsurface exploration, preparation of drawings, specifications, cost estimate and permit applications, conductance of pre-bid public relations meeting, evaluation of bids, construction observation, review of contractor submittals, review of change order requests, and review of contractor invoices.

West Virginia American Water Company – Principal-in-Charge for evaluation of Town of Pineville water treatment plant and water distribution system, including observation of system during site visit, records review, discussions with regulatory officials, and issuance of findings in a report.

Tucker County Development Authority – Principal-in-Charge for design of approximately 10,000 feet of water line and sewer line to serve an industrial park, including a lift station. Drawings, specifications, and a cost estimate

were prepared. Also performed construction administration services.

West Virginia Bureau for Public Health – Principal-in-Charge for services associated with Source Water Assessment Protection Plans (SWAPP) for 38 public water systems throughout West Virginia. Services provided included windshield surveys to identify and locate (via GPS) potential contaminant sources (PCS's), review of regulatory databases, entering data into Access database, and preparation of summary reports.

City of Philippi – Principal-in-Charge for relocation of water lines due to proposed roadway. Relocation included approximately 4,000 feet of 1-inch to 12-inch diameter pipe, fire hydrants, meters, and valves. Prepared construction drawings, specifications, and quantities.

West Virginia American Water Company – Principal-in-Charge for hydraulic analysis for water supply extensions (total of 23 miles) in Cabell County, West Virginia, including line sizing and design of booster station and PRVs.

Management of design, permitting, and construction monitoring of more than 40 miles of new waterline serving rural communities in southern West Virginia.

West Virginia Department of Abandoned Mine Lands – Detailed design and preparation of construction drawings, specifications, contractor's bid sheet, and engineer's cost estimate for six-mile water line extension including fire protection. Project included 90,000-gallon water tank, booster station, and pressure relief valves. Extension tied into Norton Harding Jimtown PSD System and served town of Cassity in Randolph County.

West Virginia Department of Abandoned Mine Lands – Detailed design and preparation of construction drawings, specifications, contractor's bid sheet, and engineer's cost estimate for a half-mile water line extension to serve Beaver Creek near Junior in Randolph County.

West Virginia Department of Abandoned Mine Lands– Management of four Phase II water studies and five Phase I water studies to determine if water supplies had been affected by coal mining. Work included resident interviews, mine map searches, area reconnaissance, obtaining water samples, reviewing water analysis data, preparing conceptual designs and associated costs and preparation of summary report.

Sewer Lines and WWTPs

Washington County Industrial Development Agency – Design of a holding tank and ventilation system vault near Houston, Pennsylvania.

West Virginia American Water Company – Principal-in-Charge for evaluation of wastewater collections systems and treatment plants for two municipalities (Oak Hill and White Sulphur Springs) in West Virginia. Included were site visits to observe system, discussions with system operators and regulatory officials, records review, compilation of DMR data and issuance of findings in reports.

Geotechnical

Subsurface exploration, evaluation, and design of remedial measure for landslides:

- Soldier beam and lagging retaining walls
- Gabion walls
- Grade/drain/compact in-place
- Geo-grid reinforcement with grade/drain/compact in-place

Plasma Processing Corporation – Management of subsurface exploration and preparation of soils report near Ravenswood, West Virginia.

West Virginia University – Principal-in-Charge for the following projects:

- WVU Intermodal Parking Garage on the Medical Center Campus – geotechnical and civil engineering
- WVU Engineering Building – geotechnical evaluation

Principal-in-Charge for Williamson Landslide Project involving an abandoned mine land site. Geotechnical exploration and design of 480-foot-long soldier beam and lagging retaining wall with tiebacks to support loose mine spoil backfill along the edge of a previously mined area with steep terrain. Project was required to protect an existing 125-bed nursing home facility.

DANIEL J. MILLER, PH.D.

Senior Scientist



EDUCATION

- Ph.D. Resource Management, 2008
West Virginia University
- M.A. Aquaculture, 1987
Auburn University
- B.S. Zoology/Fisheries, 1981
University of Wisconsin

EMPLOYMENT HISTORY

- 2011-Present Potesta & Associates, Inc.
1999-2011 West Virginia University
1994-Present Miller Consulting Associates, Inc.
1987-1993 Shrimp Farm Manager, Ecuador
1986 Researcher, US Virgin Islands
1982 Israeli Oceanographic & Limnological
Research Company
1978-1981 Great Lakes Research Facility

LANGUAGES (FLUENT)

English, Spanish

PROFESSIONAL AFFILIATIONS

- Northeast Regional Aquaculture Center: Chair of the Technical Advisory Committee
- Rotary International

ABSTRACTS, PRESENTATIONS, AND MANUSCRIPTS

- Miller, D. and D'Souza, G. (2009) Plastic Tanks Compare Well to Concrete Tanks in Trout Trial. *Global Aquaculture Advocate*, Vol. 12, Issue 1: 53-54
- Miller, D., and D'Souza, G. (2008) Economic Analysis of an Alternative Raceway System. Northeast Regional Aquaculture Center Website: [http://nrac.umd.edu/Project Reports.cfm](http://nrac.umd.edu/Project%20Reports.cfm) Page 17
- Miller, D. (2008) Using Aquaculture as a Post-Mining Land Use in West Virginia. *Journal of International Mine Water Association*. 27(2): 122-126
- Borisova, T., G. D'Souza, D. Miller, & W. Labys. (2007) Remaining Competitive at the Regional level: Developing a Local Aquaculture Industry. *J. Aquaculture Econ & Mgmt* 11: 73-98.
- 2012: Sino-American Technology and Engineering Conference, Anhui Province, China
- 2010: Workshop Presenter on Recirculating Aquaculture Systems, Stellenbosch, South Africa
- 2009: Invited Speaker: China University of Mining and Technology – Aquaculture as Post-mining Land Uses, Beijing Campus
- 2008: American Fisheries Society; World Aquaculture Society; U.S. Trout Farmers Association
- 2007: VA/WV Water Research Symposium; WV Aquaculture Forum- Best Presentation
- 2006: World Aquaculture Society- Best Poster

PATENTS AND GRANTS

- Patent awarded to WVU for Dissertation Research (D. Miller-Inventor) 2010
- Provisional Patent (Inventor) Granted to WVU Followed by Non-Provisional Patent Application in 2008
- Grants: U.S.D.A.: \$74,000 - Mine Site Aquaculture Development
- U.S. Department of Commerce: Water Treatment Demonstration Project at Mine Discharge Site
- McDowell County Economic Development Authority: Mine Site Demonstration Project
- Eastern Associated – Tygart River Mine: Recreational Use of the Guyses Run Site
- Eastern Associated – Robin Hood #9: Flow Study and Fish Demonstration Project

- WV Division of Tourism: Fee Fishing Brochure Development and Distribution (2003, 2004, 2006)

AREAS OF SPECIALIZATION

Recirculating Aquaculture System (RAS) design, training, and management; aquatic biosecurity procedures; pond management and design; extension education, aquaculture business planning and project management.

PROFESSIONAL EXPERIENCE

Providing environmental services for projects, including water quality analysis, system design and management, stream bioassessment surveys, and groundwater inventory. Training of personnel for recirculation aquaculture systems, disease diagnosis, and biosecurity.

Resource Management

Development of alternative post-mining land uses utilizing aquaculture.

Conducted a ground water inventory for a 6,000-acre underground mine in southern PA.

Eastern Associated Coal Corp – Envisioned and supervised the transformation and development of acid mine treatment plant into Marion County's Guyses Run Fishing Park.

Design and development of a Boone County trout production facility, saving the mining company over \$450,000 in reclamation costs.

Peoples Republic of China: Sino-American Technology and Engineering Conference (SATEC) – Invited expert to advise the Central Government on post-mining land uses in Anhui Province. Speaker in Anhui Province presenting research on mine reclamation.

Biological Studies and Sampling

Resource assessment and development of business plans for two fish cooperatives in Madagascar (2020). Reports generated for Cultivating New Frontiers in Agriculture (CNFA)

Set-up and oversight of recirculating fish/hydroponic system for class demonstrations at West Virginia University.

US Agency for International Development – Consultant in South Africa for evaluating recirculating aquaculture potential in the Cape Region. Presented a workshop to multinational group at Stellenbosch University Research Station.

Atlantic Sapphire – Researched 12 sites in three states for site selection for a recirculating Atlantic salmon production farm.

Red Lake Tribal Hatchery – Planning, design, set-up, and training of personnel for a yellow perch recirculating grow-out facility at the Red Lake Tribal Hatchery in Red Lake, Minnesota. Responsibilities included assembly, training of personnel and stocking the system with yellow perch.

Deli Shrimp Company, Guayaquil, Ecuador – Managed a group of companies which employed 200 people that exported shrimp and redfish to the U.S. and Europe. Directed operations for 1,500 acres of marine shrimp pond production and 500 cubic meters of larval production. Approved expenses and directed research studies on shrimp and redfish at laboratory and farm levels. Research was continuous yet secondary to production goals. Disease diagnosis was implemented and used as an integral part of management as the quality of the water in the Guayas estuary deteriorated. Programmed stocking, transfer, harvest, and exportation of shrimp. Exceeded 2 million pounds of production in final year.

ICASUR S.A., *Aquacultura Fonseca S.A.*, and CODISUR S.A. Annual Visits – Providing technical assistance to three marine shrimp farms and a tilapia farm in Honduras.

High Tech Fisheries:

- Directed the management, production and marketing of a 95 percent recirculating freshwater ornamental fish hatchery.
- Successful spawning research on the Neon Tetra (*Paracheirodo innesi*).
- Determined the reason for poor spawning results, allowing for domestic production to commence.

Conducting demonstration projects and research to improve sustainability for fish farmers and disseminating the information to producers.

Research

Instructor of undergraduate and graduate level courses at West Virginia University.

Development of distance education course work.

Supervised research and trained West Virginia University students at the Dogwood Lake Aquaculture Research facility. Sold products at Farmers Market.

Great Lakes Water Institute (University of WI) – Design, set-up and training of personnel for a 10,000-gallon recirculating research unit for the University of Wisconsin-Milwaukee.

TERENCE C. MORAN, P.E.

Senior Engineer



EDUCATION

- M.S. Civil Engineering, 1989
West Virginia University
- B.S. Civil Engineering, 1987
West Virginia University

EMPLOYMENT HISTORY

- 1999-Present Potesta & Associates, Inc.
1989-1999 GAI Consultants
1987-1989 West Virginia University
1985-1987 West Virginia Division of Highways
(summers)

PROFESSIONAL REGISTRATION

Professional Engineer – West Virginia, Virginia

PROFESSIONAL CERTIFICATION

- Troxler Moisture-Density Gauge
- American Red Cross Standard First Aid and CPR
- OSHA 40-Hour Hazardous Waste Worker Training

AREAS OF SPECIALIZATION

Water and wastewater engineering and permitting; preparation of studies, design calculations, drawings, technical specifications, and cost estimates; bidding phase services; and construction phase services, including construction administration.

PROFESSIONAL EXPERIENCE

Water Lines, Water Storage Tanks, and Water Treatment Plants

Project Manager/Project Engineer for more than 70 water supply projects involving design and, permitting of water treatment facilities, water line extensions, water storage tanks, booster stations, chlorine boosters, pressure reducing valve stations, service connections and providing fire flow demands. Tasks include client/contract management; mapping development; hydraulic design; geotechnical investigations; preparation of drawings, specifications, and cost estimates; and preparation of Bureau of Public Health, Public Lands Corporation, United States Army Corps of Engineers, West Virginia Division of Highways, and NPDES permit applications.

- Projects funded by federal, state and private funding including small cities block grant, United States Department of Agriculture, Rural Economic Development Agency, Drinking Water Treatment Revolving Fund (DWTRF), West Virginia Infrastructure and Job Development Council, Congressional Supplemental Appropriations (SAP), Abandoned Mine lands, United States Army Corps of Engineers, Governor's office funding, county commissions and private funding.

West Virginia Bureau for Public Health (Region III and Region VI Planning and Redevelopment Councils) – Project Manager for 5 contracts for source water protection:

- Source water reports for 133 public water systems
- Preparation and presentation of state-wide source water awareness symposiums
- Source water assessment and protection plan reports for 68 public water systems
- Engineering study for contingency planning for public water systems

Town of Ceredo – Project Manager for 20,000 feet of water line replacement, water tanks, telemetry, and booster stations.

Boone County Public Service District – Project Manager for 15+ water supply extension projects in Boone County District from 2004 to present. Included were Preliminary

Engineering Reports (PER), and design bidding and construction phase tasks.

Project Manager for Mill Creek Regional Water Supply Extension Project. Design included 34 miles of waterline, booster stations, tanks, and a water treatment plant. Included design of storm water ditches and culverts, and crossings of a railroad. Approval was obtained from CSX Transportation, WVDOH, PLC, USCOE, and West Virginia Bureau for Public Health. Deliverables included drawings, specifications, and cost estimates.

- West Virginia Division of Environmental Protection
- Logan County Public Service District

West Virginia American Water – Project Manager for construction administration/monitoring for the Poca River Road Waterline Extension Project; Cabell County Waterline Extension Project, Contract No. 7; Spite Road Waterline Extension Project; and Fisher Ridge Waterline Extension Project. Work included construction monitoring, preparation of weekly reports, review of contractor submittals, review of contractor invoices, and preparation of record drawings for 100,000+ linear feet of waterline extensions.

City of Philippi – Project Manager for municipal water system upgrade project. Work included design of two replacement booster stations, two new water storage tanks, new pumps for an existing booster station, a 1,500-foot waterline extension, and telemetry systems. Drawings, specifications, and a cost estimate were prepared.

West Virginia American Water – Design of main line pressure reducing valve and vault for the Glenwood Avenue Extension of the Cabell County Waterline Extension Project, Contract No. 6. Work included hydraulic sizing and preparation of drawing.

West Virginia American Water – Design, permitting, bidding and contract documents, and construction phase services for residuals handling facility at largest water treatment plant in West Virginia, including 1,000,000-gallon gravity thickener, sludge pumping stations, two belt filter presses, and a plate settler.

West Virginia Department of Environmental Protection – Project Manager/Project Engineer for design of multiple waterline extension in West Virginia. Included was design of six water storage tanks, five booster stations,

pressure reducing valves, master meters, and telemetry systems. Work included surveying, subsurface explorations, hydraulic design, preparation of drawings, specifications, cost estimates, and permit applications, and assistance with bidding. Representative projects included:

- 10-Mile-South Putnam Water Supply Extension Project in Lincoln and Putnam Counties;
- 5-Mile-Cline Hollow, Younger Drive, Left Hand Fork of Lens Creek, and Emmons-Grippe Water Supply Extension project in Kanawha County;
- 2.5-Mile Godby Branch Water Supply Extension Project in Logan County;
- 20-Mile Cow Creek-Sarah Ann Water Supply Extension project in Logan County;
- 8-Mile Cassity Fork Water Supply Extension project in Randolph County; and
- 10-Mile Olive/Marshville/Catfish Hollow Water Supply Extension project in Harrison County

Tucker County Development Authority – Project Engineer for design of approximately 10,000 feet of water line and sewer line to serve an industrial park, including a lift station. Drawings, specifications, and a cost estimate were prepared. Also performed construction administration services.

West Virginia Division of Environmental Protection - Project Engineer for preparation of conceptual design and cost estimate for the Mill Creek – Isom Community (Logan County Public Service District) Water Supply Extension Project.

West Virginia American Water – Evaluation of water treatment plant and water distribution system, including observation of system during site visit, records review, discussions with regulatory officials, and issuance of findings in a report for the Town of Pineville.

West Virginia Division of Environmental Protection – Project Manager for technical review of the Gauley River Area Waterline Extension proposed by the Gauley River Public Service District and the Heizer/Manilla Creek Waterline Extension proposed by West Virginia American Water. Included hydraulic analysis, evaluation of line size, review of drawings and specifications, and reporting on the evaluation in letter format.

City of Philippi – Relocation of waterlines due to proposed roadway. Relocation included approximately

4,000 feet of 1-inch to 12-inch diameter pipe, fire hydrants, meters, and valves. Prepared construction drawings, specifications, and quantities.

Short Line Public Service District/Harrison County Planning Commission – Project Manager for feasibility/rates analysis study for the proposed Reynoldsville, Wallace, and Clarksburg Water Supply Extension Project. Included evaluation of six options at multiple loan/grant funding scenarios.

West Virginia American Water – Hydraulic analysis for water supply extensions (total of 23 miles) in Cabell County, West Virginia, including line sizing and design of booster station and PRVs.

West Virginia Division of Environmental Protection – Project Manager/Project Engineer for numerous conceptual waterline designs for 20 unserved areas (between 1991 and 2007) in coal mining areas in West Virginia. Included hydraulic evaluation, booster station, and water storage tanks sizing, waterline sizing, and estimation of construction cost. Work completed in Barbour, Boone, Brooke, Fayette, Harrison, Lincoln, Logan, McDowell, Putnam, and Randolph Counties.

West Virginia Division of Environmental Protection – Project Manager for design of booster station upgrade for the Clinton Water Association's Ringgold pump station, including preparation of drawings, specifications, and cost estimate.

West Virginia Department of Energy – Groundwater contamination study for drinking water wells near Cassity, Randolph County, West Virginia, including water supply inventory of over 50 residents, collecting and analyzing well and surface water samples, and researching records to determine the percentage of homes whose water supply had been degraded by acid mine drainage.

Public Utility General – Project Manager for construction administration including preconstruction meetings, shop drawing review, coordination with construction technician team(s), contractor pay application review, public record drawings, and public interface for 15+ water and wastewater utility and/or infrastructure projects including utility line extension and upgrades, construction and modifications of treatment facilities. Clients include municipalities, public service districts, industry, county development authorities and private utilities.

Construction included water and sewer lines, booster stations, tanks, lift stations, vacuum sewer stations, treatment basins, dewatering equipment, clarifiers, chemical feed systems, buildings associated with treatment systems, outfall modifications, and diffusers.

Mingo Logan Coal Company – Project Manager for design, building, and permitting services for potable water system at the new Mountain Laurel Mine in Logan County, West Virginia. Project includes booster station, water storage tank, and 10,000 feet of HDPE pipe.

Sewer Lines and WWTPs

Project Manager for more than 30 wastewater projects, including municipal sanitary sewer treatment systems, industrial pretreatment systems, modification of sewer treatment plants, outfall modifications including diffuser installation, and upgrades to municipal collection systems. Also included were completions of studies mandated by the West Virginia Public Service Commission.

- Projects funded by State Revolving Fund (SRF), West Virginia Infrastructure and Jobs Development Council, United States Economic Development Agency and Private Funding sources.

Boone County Public Service District – Preliminary engineering, funding application, and final design for WWTW upgrade. Funding proposed through the Clean Water State Revolving Fund (SRF).

- Mechanical bar screen replacement
- Grit removal system replacement
- Mechanical aerator replacement
- Addition of third clarifier
- RAS pump addition
- UV unit replacement
- Belt filter press replacement
- Wash water system upgrade
- Other upgrades

Town of Ceredo – Perform design, bidding, and construction phase services for upgrade of existing sanitary sewer collection system, including upgrades to gravity and force main lines, and a lift station. Funding was thru the Clean Water State Revolving Fund (SRF).

Town of Ceredo – Evaluation of remaining capacity of grinder pump system.

Salt Rock Sewer Public Service District Master Service Agreement:

- Specification for WWTP wash line
- Preparation of NPDES modification for sludge disposal from a publicly owned treatment works
- Preparation of odor control study mandated by the West Virginia Public Service Commission (WVPSC)
- Preparation of cost estimates for requests for service
- Evaluation of lift station overflows

Town of Moorefield – Study on costs of \$30,000,000 sanitary sewer system (plant and collection system).

South Putnam Public Service District – Project Engineer for review of sewage disposal options for large county-wide sanitary sewer provider. Work included interviews with various publicly owned treatment works (POTWs), interviews with regulatory agencies, review of regulatory agency files, development of costs, and preparation of a report summarizing findings, including recommendations for future treatment of sewage in West Virginia.

West Virginia American Water – Assessment of City of Oak Hill and City of White Sulphur Springs publicly owned treatment works (POTW) to recommend improvements in operation and maintenance.

Town of Bradshaw – Design of collection system for two new schools, and design, permitting, bidding, and certain construction phase services for equalization basin/lift station, and upgrades to vacuum station and buffer tanks.

Tucker County Development Authority – Design, permitting, bidding, and construction phase services for gravity collection system, force main, and lift station for industrial park.

Boone County Public Service District – Preliminary engineering report for collection system and sequencing bench reactor (SBR) wastewater treatment plant for the Town of Nellus.

MDG Homes – Preparation of hydraulic calculations and record drawings for variable grade effluent sewer system at large development in eastern panhandle.

Client Confidential – Coordination of treatability study for industrial treatment plant.

Design of numerous sanitary sewer extensions associated with private developers, including design of gravity and force main lines and lift stations, including approvals by local public utilities such as Jefferson Utilities, and approvals by West Virginia Department of Environmental Protection.

Pocahontas County Public Service District/Wastewater Management – Study on replacement of Hawthorn Loop Sanitary Sewer System.

Steptoe & Johnson/York Bronze Company – Design of batch chemical pretreatment system for bronze facility in northern West Virginia. Included were sizing of units and building to house treatment system, and preparation of drawings, specifications, and cost estimate.

Columbia Gas Transmission Corporation:

- Design of sump/pump and storage tank to allow treatment and storing of waste water; and negotiation with hauler and POTW to allow disposal of waste water at Files Creek Compressor Station.
- Design of an oil/water separator, sump/pump, and storage tank to allow treatment and storing of waste water; and negotiation with hauler and POTW to allow disposal of waste water at Cleveland Compressor Station.
- Design of a waste water treatment plant for compliance with a compressor station's NPDES permit. Included was preparation of facilities preliminary and final engineering plans, selection of treatment (chemical precipitation, activated carbon and filtration), and detailed drawings and specifications.
- Evaluation of effectiveness of existing ozonator/activated carbon wastewater treatment system at a natural gas compressor station. Evaluation included 30-day composite sampling plan of wastewater, compilation of results, comparison with treatment system capacity, and issuance of findings in a report. Also included was issuance of a report summarizing technical feasibility and costs for alternate treatment options.
- Project Manager for conceptual design of oil/water separator at the Crawford Compressor Station in Ohio.

Tetra Technology – Preparation of operation and maintenance manual for a waste water treatment plant at the Yak Tunnel Superfund site in Leadville, Colorado.

Project Engineer for design and permitting of sanitary waste water treatment system for coal mines in Logan and Raleigh Counties, West Virginia. Included was preparation of drawings and specifications.

- Eastern Associated Coal Corp.
- Rum Creek Coal Sales

West Virginia Department of Environmental Protection, LCAP – Design of 1.2 miles of pressure and gravity sewer line at the Jackson County Landfill to convey landfill leachate to an existing sanitary collection system. Included were provisions for servicing residences along the pathway, hydraulic sizing, and preparation of drawings, specifications and a cost estimate.

West Virginia University – Research assistant for developing an interactive optimal sewer design program SODES.

Evaluation of options for future treatment of wastewater at a chemical industrial facility along the Ohio River in West Virginia. Included were evaluation of options, estimation of capital and O&M costs, and preparation of a report to a law firm in West Virginia.

CHRISTOPHER A. GROSE, L.R.S.

Senior Engineering Associate



EDUCATION

- M.S. Geological Engineering, 1990
University of Missouri-Rolla
- B.S. Civil Engineering, 1988
West Virginia Institute of Technology

EMPLOYMENT HISTORY

- 1997-Present Potesta & Associates, Inc.
1994-1997 Terradon Corporation
1990-1994 GAI Consultants, Inc.
1989-1990 University of Missouri-Rolla
1989 Triad Engineering Consultants
(summer)
1988 West Virginia Institute of Technology
1983-1988 Clint Bryan & Associates Architects
(summers)

PROFESSIONAL REGISTRATIONS

Licensed Remediation Specialist – West Virginia

PROFESSIONAL CERTIFICATIONS

- Hazardous Waste Site Operations and Superfund Worker Protection Training
- American Red Cross Standard First Aid and CPR
- Troxler Moisture-Density Gauge

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- Association of Engineering Geologists
- Society of America Military Engineers

AREAS OF SPECIALIZATION

Geological/Geotechnical engineering related to subsurface exploration studies, soil and rock slope design, landslide causation studies, foundation system design, surface/subsurface hydrogeology, ground subsidence, contaminant transport and groundwater flow modeling. Planning, design, and permitting of natural gas production well pads and access roads. Geological study of hazardous waste remediation sites, CERCLA/SARA, RI, and FS report compilation, geological and geotechnical aspects of siting and design of municipal and industrial waste landfills.

PROFESSIONAL EXPERIENCE

Civil/Site Design

Civil/Site design included slope stability of both cut and fill slopes in soil and rock for various well production pads in northeastern West Virginia associated with natural gas production in the Marcellus well field. Work consisted of the management of a design engineering team including ground survey crews to development site topographic base mapping, coordination with client regarding land ownership, access roadway alignments, site drainage control, and number/location of production wells. Additional work also included gathering and midstream transmission pipeline locations. The scope of services for these projects also included the preparation of permit documents and attachments for submittal to the WV Department of Environmental Protection-Office of Oil and Gas.

- Stone Energy Corporation
 - Higgins East pad and road
 - Higgins West pad and road
 - Conley Well pad, road, and access bridge
 - Mills-Wetzel No. 3 pad and road
 - Hunter/Pethel well pad
 - Talkington-nice pad and road
 - Bowyers well pad and road
- Viking Oil & Gas
 - United Disciples of Christ well pad

Geotechnical

Completion of numerous subsurface exploration studies for active soil slope landslide failures associated with the development of natural gas production well pads and access roads. Work included the layout, surveying, and logging of subsurface borings to determine the depth and extent of the slope failures. Following collection of soil/rock samples, materials were tested for characteristic and strength properties. Following testing efforts, the failed slopes were modeled using computer-based slope stability design models to determine a stable configuration including the addition of rock buttresses, toe keys, underdrains, mid-slope keys, etc. Final stabilization plans were then prepared for the client allowing bidding and selection of a repair and stabilization contractor to perform the work.

- Stone Energy Corporation
 - Mills-Wetzel No. 2 well pad landslide repair
 - Potoczny well pad landslide repair
 - Mills-Wetzel access road landslide repair
 - Pribble Tank landslide repair
 - Haines Branch pipeline landslide repair
- Columbia Pipeline Group (TransCanada Pipeline)
 - SM8 pipeline landslide repair
 - SM80 Loop pipeline landslide repair
- Chesapeake Energy Corporation – R. Baker well pad landslide causation study
- TransEnergy Corporation – Dewhurst well pad landslide repair
- Reserve Oil & Gas – Reed No. 1 well pad access road landslide repair

West Virginia Division of Highways – Geotechnical engineer on geotechnical/landslide master services agreement for on-call services for a three-year period.

Forensic study, expert testimony, and legal support related to the failure of numerous soil/rock slopes throughout West Virginia. This work included extensive review of relevant project case documents, site reconnaissance visits, interviews with project personnel, and deposition testimony.

Lynn Elementary School – Technical insight and recommendations to attorneys representing an adjacent property owner related to the contributing factors related to the formation and continued failure of an excavated soil slope. The toe of the slope was excavated during the site development of the proposed elementary school site in Lynn, West Virginia.

Crichton & Crichton – Landslide formed along a wooded hillside below a residential driveway on Pleasant Lane in Wood County, West Virginia. The slope failure was noted during a substantial leak in an existing water main. The work included a review of case documents, interviews with various residents (plaintiffs in the case) and the development of supporting causation theory for the formation of the landslide. The work also includes the development of repair alternatives and associated construction estimates to be considered during the dispute hearing between the plaintiff and defendants.

Chesapeake Appalachia/Law Office of Jeffrey Mahal (R. Baker Natural Gas Production) – Provided technical study and file review of case documents related to the grading contractor's construction work efforts to prepare a well pad for the installation of a series of horizontal gas production wells in Marshall County, West Virginia. The work included the removal of soil and rock from an existing hilltop. The resulting material was placed or wasted in series of three side hill fills along the edges of the resulting well pad. All three of these fills experienced progressive and ongoing failures following the construction effort. Reviewed design documents, construction records, and details related to several repair attempts to result in the development of a professional opinion related to the various factors contributing to the multiple slope failures.

Nationwide Trial Division/Khan & Wheeler (Ross v. WVAW Landslide Case) – Provided professional opinion related to the formation of a slope failure along the Elk River immediately behind several commercial and residential homes near the Town of Elkview, West Virginia. The initial landslide occurred immediately following a main waterline break along the front of the structures. The regressive and prolonged failure continued over several weeks and ultimately damaged a gravity sanitary line as well as several of the structures. Work included an extensive review of several years of case records provided for the case including a review of existing utility maintenance records, historic climatologic data, river stage information and depositional testimony from many of the affected parties. A summary of professional opinion report was prepared describing a number of factors including lack of maintenance storm culverts in the area as well as an increase of saturation along the slope from the failed water main as the cause of the slide. It was determined that several of the structures were supported on previously placed fill material which was placed along the river bank in the early 1900's in

conjunction with the initial roadway construction. This coupled with the lack of maintenance and presence of deteriorated drainage culverts likely contributed to the slope failure. The initial installation of this fill material was determined through an extensive study of the historic topographic mapping of the area.

Responsible for development of geotechnical and geological recommendations as well as development of stabilization designs for many failed soil/rock slopes in West Virginia. This work included initial site reconnaissance visits, development of a subsurface exploration study and materials testing program, evaluation of stabilization alternatives, and construction plan preparation.

Travelers Insurance/City of Charleston – Project included a subsurface exploration study, engineering design, and global stability evaluation of a failed soil slope in a residential neighborhood on Bona Vista Drive for the City of Charleston, West Virginia. The slide was caused by a water main break along an existing residential neighborhood paved roadway. The recommended slope stabilization method was to install a soldier beam and lagging retaining wall along an existing paved roadway (supporting the buried utilities) with the remainder of the failed slope below being removed and replaced with compacted soil backfill.

Stone Energy Pribble Tank – Work included the exploration and study of a failed soil/weathered rock slope which was loaded through the placement of fill near the top of the slope to provide adequate area for the construction of 2- 2,400,000-gallon water storage tanks in New Martinsville, West Virginia. Shortly following the installation of the tanks, a large section of the hillside failed leaving one of the tank foundation partially unsupported. Following the subsurface exploration and drilling work, a stabilization plan was developed which included the removal of the failed soil mass (>50,000 CY) followed by the replacement of compacted soil material behind a large toe key and buttress. The repair also included surface diversion drainage ditches and numerous bond benches along the underlying rock line which were fitted with under drains to collect subsurface seepage.

NiSource/Columbia Gas Pipeline Group SM-80 Loop Gas Transmission Line – Development of a subsurface exploration and drilling plan to determine the extent and depth of a soil and weathered rock slope failure which threatened the performance and stability of a 30-inch high

pressure natural gas transmission line in Kanawha County, West Virginia. The slide location was remote and situated along a steep hillside. The stabilization plan recommended the use of soil nail technology due to the remote location and rather inaccessible nature of the location. This repair and stabilization technique allowed for the in-situ repair of the failed slope without extensive excavation and backfill which was deemed difficult and would have required more land disturbance resulting in additional slope stability concerns.

EQT Rockport #7244 Natural Gas Storage Well Pad – Project involved the assessment and repair recommendations for a section of failed fill slope immediately below existing and active natural gas storage well near the community of Rockport in Jackson County, West Virginia. The failed slope was caused by improper surface drainage control along the pad and access road. The stabilization plan included the excavation and removal of the failed slope following “shut-in” of the storage well. The upper failure scarp was situated immediately adjacent the well head which was protected during the stabilization work. Following installation of a rock toe buttress and key way, the failed soil material was amended using lime to reduce the moisture content which was required to achieve the recommended in place density during placement and compaction. Following the regrading effort, the slope was trimmed and seeded followed by the grading a several diversion and collection ditched to control runoff from the upper portion of the hillside below the well pad.

City of Charleston – Geotechnical assessment and development of regrading construction plans for the repair of a failed soil slope below Grandview Drive for the City of Charleston, West Virginia. The slope failure occurred between two adjacent residential structures and encompassed a sanitary sewer main as well as a storm drainage pipe receiving storm drainage from Grandview Drive. The stabilization plan involved the removal of the failed mass beginning at the toe of the slope and then working progressively upslope to result in a stabilized and regraded slope surface. The work required the removal of all failed material to the underlying rock surface and included the installation of a shot rock toe buttress which was installed along a natural topographic bench near the toe. Following completion of the work the affected utilities were installed either below the fill material or outside the regraded slide area.

Greer Industries Cheat River Quarry Haulroad – Project included the development of stabilization and repair recommendations for a failed soil slope which impacted a critical haulroad utilized by the quarry operator to move raw shot rock material from the quarry to the crusher at the aggregate plant in Rowlesburg, West Virginia. The landslide occurred because of the failure of a cross drainage culvert in the haulroad. The failed soil mass was removed to the underlying bedrock and following installation of a stone toe buttress and toe key, the material was blended with aggregate material from the plant and placed in compacted lifts. The underlying rock surface was excavated to result in a series of “bond benches” allowing for the installation of underdrains below the compacted fill to collect groundwater and seepage from the underlying rock. This prevented saturation of the fill material.

Responsible for the design, management, and inspection of a geotechnical investigation of a proposed five-mile rail extension located in Nicholas County, West Virginia. Investigation included study and design of planned rock cuts, and track foundation materials.

General Services Administration – Site evaluation, including continuous HNU scanning of collected soil samples and installation of piezometers for two proposed sites near Charleston, West Virginia.

West Virginia Department of Environmental Protection – Foundation design for a proposed 1,000,000-gallon potable water storage tank and valve pit near Cassidy, West Virginia.

Rhone Poulenc Ag Company – Subsurface sample collection, resistivity measurements, explosivity measurements, and decontamination procedures for an organic contamination study at Institute, West Virginia.

Preparation of foundation investigations for several large structures including a parking garage and student housing complex at Marshall University in Huntington, West Virginia. Tasks included development of subsurface exploration program, soils/rock sampling, testing program, and preparation of a final geotechnical report.



EDUCATION

- B.S. Civil Engineering, 1992
West Virginia Institute of Technology
- B.S. Electrical Engineering Technology, 1983
West Virginia Institute of Technology
- A.S. Electrical Engineering Technology, 1980
West Virginia Institute of Technology

EMPLOYMENT HISTORY

- 2021-Present Potesta & Associates, Inc.
2018-2021 Chapman Technical Group, Inc.
2016-2018 L.A. Gates Company Engineers and Consultants
- 2009-2016 Thrasher Engineering, Inc.
1998-2009 Columbia Gas Transmission Corporation
- 1993-1998 Dunn Engineers, Inc.
1992-1993 Kelley, Gidley, Blair & Wolfe Consulting Engineers, Inc.
1984-1989 Newport News Shipbuilding

PROFESSIONAL REGISTRATIONS

Professional Engineer – West Virginia, Virginia, Kentucky

PROFESSIONAL AFFILIATIONS

American Water Works Association

AREAS OF SPECIALIZATION

Extensive experience in engineering design, project management, facilities planning, cost estimation, and operations efficiency evaluations for municipal water, wastewater, site development, and other types of engineering projects financed with both public and private funding.

Experienced in engineering, design, permitting and construction management in the natural gas transmission industry.

PROFESSIONAL EXPERIENCE

Sewer Lines and WWTPs

Design engineering and project management for wastewater engineering projects:

- Design of wastewater systems including gravity sewer and low-pressure collection systems, pump stations, force main transmission systems, decentralized and alternative on-site disposal systems, SCADA systems, and I/I reduction
- Evaluate alternatives for facility design (construction, replacement, and expansion) to meet existing and future requirements for residential, commercial, and industrial customers
- Manage all phases of awarded construction projects including bidding, schedule and budget preparation, cost control, coordination of contractors, vendors and consultants, and reports to clients and funding agencies
- Conduct on-site inventories and evaluations of existing facilities and prepared feasibility analyses of new facility alternatives
- Prepare facility plans and supporting data for submission to state and federal government agencies in order to secure appropriate permits and approvals to proceed with project implementation
- Manage labor (contract and in-house) and financial resources for projects to be completed on schedule, within budget, and according to client specifications
- Conduct analysis of municipal sewage vs. storm water runoff using computerized modeling

techniques for the purpose of evaluating Combined Sewer Overflows for various cities and municipalities

Specific projects include:

- Southern Jackson County PSD – Wastewater System Improvement Project (Fairplain, West Virginia)
- Town of Elizabeth - Wastewater Plant Upgrade (Elizabeth, West Virginia)
- City of Weston – Sewer Interceptor Replacement (Weston, West Virginia)
- Town of Sophia – Coal City Sewer Service Extension and Wastewater Plant Upgrade (Sophia, West Virginia)
- City of Elkins – City-Wide Infiltration and Inflow Study (Elkins, West Virginia)

Water Lines, Water Storage Tanks, and Water Treatment Plants

Design engineering and project management for water engineering projects:

- Design potable water distribution systems including river crossings, horizontal directional drills, raw water intakes, transmission lines, booster stations, treatment plants, and water storage tank design and painting
- Evaluate alternatives for facility design (construction, replacement, and expansion) to meet existing and future requirements for residential, commercial, and industrial customers
- Manage all phases of awarded construction projects including bidding, schedule and budget preparation, cost control, coordination of contractors, vendors and consultants, and reports to clients and funding agencies

- Conduct on-site inventories and evaluations of existing facilities and prepared feasibility analyses of new facility alternatives
- Prepare facility plans and supporting data for submission to state and federal government agencies to secure appropriate permits and approvals to proceed with project implementation
- Manage labor (contract and in-house) and financial resources for projects to be completed on schedule, within budget, and according to client specifications

Specific projects include:

- Pollard Mills – Water Distribution System Replacement (Ashland, Kentucky)
- City of Elkins – Water Systems Improvements Project (Elkins, West Virginia)

MARK A. SANKOFF, P.E., P.S.

Chief Engineer



EDUCATION

B.S. Civil Engineering, 1982
West Virginia University

EMPLOYMENT HISTORY

2011-Present Potesta & Associates, Inc.
1991-2011 West Virginia American Water
1988-1991 Dunn Engineers, Inc.
1982-1988 Kelley, Gidley, Blair & Wolfe, Inc.

PROFESSIONAL REGISTRATIONS

- Professional Engineer – West Virginia
- Professional Surveyor – West Virginia

PROFESSIONAL AFFILIATIONS

- American Water Works Association
- National Society of Professional Engineers

AREAS OF SPECIALIZATION

Water including design of water mains, water storage tanks, booster stations, pressure reducing stations, advanced metering infrastructure – (AMI) and Automated Meter Reading – (AMR) systems. Extensive knowledge in water distribution systems operation and maintenance.

PROFESSIONAL EXPERIENCE

Water Lines, Water Storage Tanks, and Water Treatment Plants

Confidential Coal Company – Onsite water management, reuse and disposal project; services included construction of 8,500 gallon per minute combination high pressure pump/pressure reducing station, controlling a 14 mile 26” HDPE pipe, an 8,500 gallon per minute pressure sustaining valve station, energy dissipation structure, river outfall and SCADA system.

Responsible for engineering at West Virginia American Water (WVAW):

- Supervising an engineering staff of eight, working in conjunction with other departments at WVAW.
- Developing and prioritizing multiple capital projects while developing and managing the multi-million capital budget for West Virginia. Budgeting includes developing and creating large investment projects, multiple public private partnerships and several acquisitions.
- Involved in multiple operational issues/projects including non-revenue water reduction, comprehensive planning studies including interconnection studies to combine operations to increase efficiencies.
- Worked on the automation of Bluestone Water plant which is intended to be the first one shift automated and unattended surface water treatment plant in West Virginia.
- Design of multiple pressure reducing stations and booster stations.
- Overseeing a \$1.5+ million per year tank painting program.
- Managed tank painting program, which included evaluating, prioritizing, draining and refilling tanks, tank inspections, preparation of contract documents, bidding, bid evaluations, contract awards, scheduling, taking tanks out of service while maintaining uninterrupted service to customers.
- Responsible for over 300 tanks in the largest water system in West Virginia.

Responsible for the Fayette AMI project, a \$4.3 million-dollar meter replacement/automation project to automate almost 12,000 water meters in Fayette County, West Virginia. This project was part of an EPA Green Project and the project was successfully publically bid using a

performance specification using stimulus money. Methods were developed to economically work through terrain issues as it related to radio signals to develop a successful project. The project successfully incorporated acoustic listening devices to monitor the distribution system at night to reduce non-revenue water in the Fayette water system.

City of Glenville – Project Manager for the study, design, bidding, and construction phase services for project involving upgrades and construction monitoring to their existing potable treatment and water distribution system.

Town of Mills Creek – Project Manager for the design, permitting, preparation of construction plans, specs, and bidding documents, and construction administration/observation services for the construction of two backwash ponds behind the existing water treatment plant.

Responsible for the project management to complete the WVAW building complex at 1600 Pennsylvania Avenue, Charleston, West Virginia. Provided oversight of the building complex for all operation and maintenance items, as well as liaison with the leasees.

Project Manager of the Kanawha Valley to Montgomery Interconnection Project design which included over 20 miles of 20-inch to 12-inch water mains, two relay booster stations, one storage tank, Kanawha River Crossing, railroad crossings, two pressure reducing stations and radio telemetry.

Project Manager for the EPA IDSE disinfection project to develop the computer water models for the Charleston and Huntington water systems which calibrated the two largest water distribution systems in West Virginia.

Project Manager for the Kanawha County IDB Water Project 2000 which served 33 areas and brought water to over 1,740 families. The total project cost of over \$22 million included over 100 miles of water mains, five boosters and six water storage tanks of various sizes. Oversaw the design work of six consultants, including acquiring the rights-of-way, the bidding of 12 water main contracts, and the construction of those contracts with five consultants handling five contractors, while managing the bidding and construction of the above boosters and water storage tanks.

Prepared specifications and plans for numerous water main extensions, water storage tanks, boosters and hydro

pneumatic booster stations and pressure regulating stations including site work, other utilities, and property acquisition, including bidding, project and construction management.

Parcoal Project, Webster County, consisting of 8-inch water main extension and a 160,000-gallon water storage tank using an ARC Grant.

Southridge Development Project consisting of 16-inch water main extension to serve the Southridge Development on Corridor G.

Responsible for the 55-person department that maintained the Kanawha Valley water distribution system, which repaired an average of 1,500 main breaks per year up to 30-inch PCCP:

- Responsible for providing new water services – the department made an average of 850 taps per year
- Oversaw the leak survey effort to reduce unaccounted for water – developed a system to check night flow in systems using existing telemetry to determine leakage and direct efforts to maximize finding and fixing those leaks
- Coordinated the small diameter main replacement program which averaged over one million dollars per year
- Comprehensive supervisory experience between union and non-union personnel – responsible for five supervisors
- Assisted in union negotiations – developing a process to equalize overtime within the distribution department. Worked with the Manager to develop 24-hour coverage shifts to provide better customer service and reduce O&M costs, including a 12-hour shift schedule using four foremen to provide round the clock coverage
- Served as the liaison with Kanawha County Commission and KCRDA on new water projects to serve un-served areas

Oversaw the completion of the construction of the Consolidated Office Complex for WVAW's corporate headquarters in Charleston in 1997 to 1999.

Kanawha County Water Main Extension Project consisting of waterlines, booster, a 200,000-gallon water storage tank, and four pressure-regulating stations for the Campbells Creek area of Kanawha Valley.

Quarry Creek Subdivision consisting of vertical turbine booster station and a 330,000-gallon water storage tank, with an elevated storage tank bid option and water lines.

Kellys Creek Project consisting of 16-inch water main extension, booster station, and water storage tank along Route 60 using WVDEP, AML funding.

Little Sandy, Aarons Fork and Edens Fork Projects. Construction of water mains, a booster station and a 160,000-gallon storage tank utilizing two Small Cities Block Grants with KCDRA.

Summers-Mercer Water Project included design of an 8-inch water main to Hinton and a 24-inch water main from the new Bluestone plant to Princeton, including the pressure reducing stations along with the 300,000-gallon water storage tank near Pipestem.

Designed and constructed multiple small water main extensions, working with developers, customers and small contractors to serve new subdivisions and unserved areas.

Sewer Lines and WWTPs

Project Manager for the replacement of the Wastewater Treatment Plant at Point Pleasant, West Virginia. This included being responsible for design, plans, specifications, regulatory approval, bidding and bond sale, and construction management.

Inspection of wastewater collection systems, writing Operation and Maintenance Manuals, Facility Plans, and Grant Applications for various clients.

Project Manager for the Big Sandy Sewer Public Service District Vacuum System Project, which included the design and construction of three vacuum sewer stations, two sewage pump stations, a 9-mile force main, and the vacuum sewer collection system. Responsibilities of the above involved the preparations of engineering contracts, planning reports, plans and specifications, bid documents, operation and maintenance manuals, and change orders for state and federally funded wastewater and water projects. The process involved cost-effective analysis, public relations, technical writing, and public speaking.

Project Engineer for the Logan Wastewater Interceptor Project, the Town of Barboursville Lagoon Improvements, and the Philippi Wastewater Project including a new Oxidation Ditch Plant, renovation of an existing pump station, sewer main replacement design, and construction. Experience included designing wastewater treatment plants, sludge handling facilities including belt filter presses, wastewater collectors and pumping systems, site developments, access roads, and combined sewer overflow (CSO) facilities.

D. MARK KISER, P.E., L.R.S.

Chief Engineer, Licensed Remediation Specialist



EDUCATION

B.S. Civil Engineering, 1984
West Virginia University

EMPLOYMENT HISTORY

1997-Present Potesta & Associates, Inc.
1995-1997 Terradon Corporation
1984-1995 GAI Consultants

PROFESSIONAL REGISTRATION

- Professional Engineer – West Virginia
- Licensed Remediation Specialist – West Virginia

PROFESSIONAL CERTIFICATION

- Hazardous Waste Site Operations and Superfund
- Worker Protection Training, 40-Hour Training
- Supervisory Training and Annual Refreshers
- Troxler Nuclear Densometer Certification

SERVICE ON BOARDS AND COMMISSIONS

Commissioner – Sissonville Public Service District

AREAS OF SPECIALIZATION

Environmental assessments, environmental sampling and remedial programs, conceptual and final designs for chemical, utility, and municipal solid waste disposal sites, including liner systems, leachate management systems,

stormwater management systems, operational plans and capping/closure systems, abandoned mine land reclamation projects, sludge stabilization and basin/pond closure projects, environmental permitting, hydrologic and hydraulic analyses, quality assurance/quality control monitoring.

PROFESSIONAL EXPERIENCE

Civil/ Site Design

Ridgeline, Inc./Cabela's – Retained by developer and Cabela's to provide civil engineering design services for a new Cabela's store in Charleston, West Virginia.

- ALTA survey
- Subsurface exploration
- Grading plan including balanced cut and fill for the building pad, parking fields, and access roads.
- Stormwater collection system design including curb inlets, catch basins, and culverts.
- Pavement design.
- Utility extension designs including sanitary sewer, potable water, fire service, natural gas, underground electric, underground telephone, and underground cable television.
- Permitting services
- Support for local approvals including approval from Charleston Municipal Planning Commission as a Development of Significant Impact and building permit to allow construction to begin.
- MM-109 permit to allow for connection of the store's new roadway with the existing public roadway.

Fieldcrest Subdivision – Project manager/engineer for development of a nine-lot subdivision in Charleston, West Virginia. Design and permitting/regulatory approvals for infrastructure, including new street, sanitary sewer main, water main, stormwater, electric, telephone, cable, and natural gas. Preparation of drawings/specifications for necessary governmental agency approvals and for solicitation of bids. Inspection and certification of completed sanitary sewer system.

Connell Pointe Subdivision – Project manager/engineer for development of an eleven-lot subdivision in Charleston, West Virginia. Design and permitting/regulatory approvals for infrastructure, including new street, sanitary sewer main, water main, natural gas service, stormwater, electric, telephone, and

cable. Preparation of drawings/specifications for governmental agency approvals and for solicitation of bids. Inspection and certification for completed sanitary sewer systems.

Conner Drive Townhouses – Project manager/engineer for development of 13 townhouse lots just outside of Charleston, West Virginia. Planning, surveying, design, and regulatory approvals for infrastructure, including new street, stormwater management system, sanitary sewer main, water main, electric, natural gas, telephone, and cable.

Gettysburg Subdivision – Project manager/engineer for an 18-lot subdivision located in Kanawha County, West Virginia. Design, surveying, and regulatory approvals for infrastructure, including new street, sanitary sewer main, water main, stormwater management system, electric, natural gas, telephone, and cable. Preparation of drawings/specifications for solicitation of bids. Inspection and certification of the sanitary sewer collection system and pump station.

Yorktowne Subdivision – Project engineer for development and construction phase services for a 50-lot subdivision in Charleston, West Virginia. Design of streets, lots, stormwater management systems, sanitary sewer mains and pump stations, water mains, underground electric, natural gas, telephone, and cable.

City of Charleston – Feasibility study for the replacement of the CSX Ramp in Charleston, West Virginia.

Villages at Coolfont – Project manager for project in Morgan County, West Virginia, which included planning, engineering, and permitting associated with developing a second home community on 1,000 acres near Berkeley Springs, West Virginia. Project included:

- Potable water supply source (wells), treatment plant, storage and distribution system
- 0.44 MGD MBR wastewater treatment plant and sanitary sewer collection system
- Community roadways and storm sewer systems
- Detailed plans for the water and wastewater treatment plants and the distribution allocation system serving the first 124 homes
- Permits were obtained for the water and wastewater plants

Project engineer for development of Suncrest Subdivision in Charleston, West Virginia. Project included engineering and permitting for a new residential subdivision including roadway, underground electric, telephone, cable, water, sanitary sewer and storm water. Sanitary sewer system was designed, constructed, and monitored under the terms of an alternate mainline extension agreement with the Charleston Sanitary Board.

Business and Industrial Development Corporation – Preparation of Utility Extension and Roadway Paving Plans for Southridge Centre - Phase 2 area. Project included preparation of bidding/construction drawings to provide natural gas, water, sanitary sewer, telephone, and cable television serving four commercial lots and a 50-lot proposed subdivision. All utilities were underground. The length of the project was approximately ½ mile. The project also included roadway paving and stormwater drainage.

Development of a conceptual development plan for a mixed use industrial park. The evaluation included developing preliminary alignments for two access roadways including earthwork requirements, drainage, subbase, and paving with preliminary cost estimates. Total length of road was over 5 miles. The evaluation also included preliminary layout of water and sewer service for a proposed 400-acre development.

Plasma Processing Corporation – Preparation of permit to construct and site development plan for a secondary aluminum processing facility startup in Jackson County, West Virginia.

Utility relocation plans required for site development, waterline, and sewer construction projects. Projects included determination of utility locations by records review, utility contacts, and surveying. Designs were prepared including locations, details, and pavement replacement. Design also included obtaining approvals from West Virginia Division of Highways and the owners of the utilities.

Stormwater

Expert witness for plaintiff damaged as a result of flooding caused by lack of maintenance at a culvert system in Westoreland, Wayne County, West Virginia.

Stormwater drainage plans for site development projects including pre- and post- development discharges, design of sediment control devices, preparation of stormwater general permit application, and consulting for numerous construction projects in West Virginia.

Evaluation of stormwater drainage system (culverts and channels) to alleviate flooding problems for a church in Kanawha County, West Virginia. Project included computer modeling to identify culvert capacities and to identify repair options.

Expert retained to support a property owner damaged as a result of flooding caused by downstream obstructions. Reviewed regulatory agency files, conducted site inspections, evaluated possible remedial measures, and provided support in anticipation of litigation.

Expert witness for plaintiff damaged as a result of flooding from upstream construction. Visited site to observe problem areas, reviewed construction practices/procedures, reviewed regulatory permits, and provided testimony as to the cause of flooding.

Developed stormwater management plans, including calculation of peak runoff rates, storm volumes, and design of stormwater management devices including culverts, ditches, sumps, ponds, principal pipe spillways, and emergency spillways for the following projects:

- Site development projects including commercial, retail, and industrial sites ranging from ¼ acre to more than 100 acres.
- Abandoned mine lands reclamation projects, including landslides, refuse piles, slurry ponds, and subsidence control projects.
- Commercial and industrial waste landfill projects.
- Roadway design projects.
- Other projects involving the disturbance of the ground surface.

Water Lines, Water Storage Tanks, and Water Treatment Plants

WVDEP-AML – Detailed design and preparation of construction drawings, specifications, contractor's bid sheet, and engineer's cost estimate for six-mile water line extension including fire protection. Included in project were 90,000-gallon water tank, booster station, and pressure relief valves. Extension tied into Norton Harding Jimtown PSD System and served town of Cassity in Randolph County.

Design for waterline extension projects including preparation of construction drawings, specifications, and engineer's cost estimates for the West Virginia Division of Environmental Protection, Office of Abandoned Mine Lands and Reclamation.

- Cassity Fork Waterline
- Beaver Creek Waterline Extension
- Godby Branch Waterline Extension

Design, preparation of construction drawings, preparation of permit applications, and other related activities for the construction of waterline projects. Line sizes ranged from 16 inches to 2 inches. Materials of construction included polyvinyl chloride and ductile iron pipe. Drawings included planimetric maps, topographic maps, and aerial photograph formats to depict proposed construction. Permit applications included Bureau of Public Health, Public lands Corporation Stream Activity Permits, Division of Highways Occupancy Permits, and General Storm Water NPDES Construction.

- Cabell County 2000 Project, 23 miles of new waterline construction, West Virginia American Water Company (WVAWC)
- Poca River Road Waterline Extension, 13 miles of new waterline construction, WVAWC
- Route 60 Contract 3 Waterline Extension, 3 miles of new waterline construction, WVAWC
- Buff Creek/Trace Fork Waterline Extension, 6 miles of new waterline construction, WVAWC
- Route 60 Contract 4 Waterline Extension, 2 miles of new waterline construction, WVAWC
- Yorktowne Subdivision, 3,000 linear feet of waterline serving a 50-lot subdivision.

Sewer Lines and WWTPs

Project manager/project engineer for the Fleming Landfill Sanitary Sewer Extension project in Kanawha County, West Virginia. Project included design, permitting, construction monitoring, and certification of 9,900 linear feet of gravity and force main sanitary sewer, a new duplex pump station, and rehabilitation/upgrade of an existing pump station. The construction contract was over \$1 million. The completed sewer extension was turned over from the West Virginia Department of Environmental Protection to the Sissonville Public Service District for ownership and operations.

Project engineer for sanitary sewer system including 8-inch gravity sewer, pump station, and force main sewer serving the Gettysburg Subdivision in Charleston, West Virginia. Project included an alternate mainline extension agreement with Charleston Sanitary Board, construction monitoring, surveying, road design and subdivision plans.

Project manager/engineer for an industrial wastewater sewer extension. Project included design engineering, permitting, and construction monitoring associated with a 5 million gallon, double-lined storage impoundment, duplex pump station with 70 horsepower pumps, and 5,200 linear feet of force main sewer in Monongalia County, West Virginia.

Design, permitting and construction monitoring associated with a 138,000-gallon double containment storage tank, duplex pump station, and force main piping associated with closure of the Jackson County Sanitary Landfill near Ripley, West Virginia.



EDUCATION

- M.S. Aquatic Ecology, 1990
Marshall University
- B.S. Biological Sciences, 1987
West Virginia State College

EMPLOYMENT HISTORY

- 1997-Present Potesta & Associates, Inc.
1990-1997 Terradon Corporation
1990 Union Carbide Corporation
1988-1989 Marshall University

PROFESSIONAL CERTIFICATIONS

- OSHA Hazardous Waste Site Operations Supervisor Training
- OSHA 40-Hour Hazardous Waste Site Operations Workers Training

AREAS OF SPECIALIZATION

Water permitting and compliance, SARA III (EPCRA) reporting and regulatory compliance, air permitting, and environmental management system manual preparation.

PROFESSIONAL EXPERIENCE

Water Permitting and Compliance

Industrial NPDES Permitting for a variety of West Virginia facilities:

- Cytec Industries, Inc
- MPM Silicones, LLC
- Koppers Industries, Inc.
- Elementis Specialties, Inc.
- Pilgrim's Pride Corporation
- PNGI Charles Town Gaming, LLC
- Armstrong World Industries
- Akzo Nobel Chemical, Inc.
- York Bronze Company
- Creo Manufacturing America, LLC

NPDES Permitting for municipal facilities and publicly-owned treatment works:

- Salt Rock Public Service District
- Boone County Public Service District
- City of Martinsburg, West Virginia
- City of Follansbee, West Virginia

NPDES Permitting for quarry mining facilities in West Virginia:

- Southern West Virginia Asphalt, Inc.
 - Kelly Mountain Quarry – Elkins, West Virginia
 - Bowden Quarry – Elkins, West Virginia
 - Sugarlands Quarry – St. George, West Virginia
- Continental Brick Company

NPDES General Storm Water Permitting, Storm Water Pollution Prevention Plans (SWPPP) and/or Groundwater Protection Plans (GPPs) for various facilities:

- Southern West Virginia Asphalt, Inc.
 - Alta, West Virginia
 - Beaver, West Virginia
 - Elkins, West Virginia
 - Huntington, West Virginia
 - Moorefield, West Virginia
 - Princeton, West Virginia
 - Summersville, West Virginia
 - Whitman, West Virginia
- West Virginia Paving, Inc.
 - Dunbar, West Virginia
 - Poca, West Virginia
 - Ripley, West Virginia

- Camden Materials,
- Kelly Paving, Inc.
 - Ravenrock, West Virginia
 - Benwood, West Virginia
 - Weirton, West Virginia
- Al Rec, LLC
- DALB, Inc.
- Hino Motors Manufacturing
- Steve Simpson & Associates, Inc.
- Integrity Delaware, LLC
- Lowe Products Company, Inc.
- Multicoat Products, Inc.
- PC West Virginia Synthetic Fuels, LLC
 - Chelyan, West Virginia
 - Summersville, West Virginia
 - Eckman, West Virginia
- J.F. Allen Company
- Enron Global Markets, LLC
- Potomac Construction Industries, Inc.
- Poor Charlie & Company
- Riverside Technologies, Inc.
- Greer Industries, Inc.
- Parks Corporation
- Constellation Power Development
- Shelly & Sands, Inc.

Metals Translator Studies and development of site-specific metals translators for various facilities in West Virginia:

- Boone County Public Service District
- Bluewell Public Service District
- Pilgrim's Pride Corporation
- Hobet Mining
- Continental Brick Company
- Coyote Coal Company
- White Flame Energy
- Creo Manufacturing America, LLC
- City of Follansbee, West Virginia
- Greer Industries, Inc.
- CONSOL Energy

Background Water Quality, Baseline Water Quality, and/or Mixing Zone Studies for various West Virginia facilities:

- Cytec Industries, Inc.
- Koppers Industries, Inc.
- Pilgrim's Pride Corporation
- Clearon Corporation
- Boone County Public Service District
- Bluewell Public Service District

Discharge Monitoring Reporting:

- Cytec Industries, Inc.
- Al Rec, LLC
- Southern West Virginia Asphalt, Inc.

Benthic Macroinvertebrate Studies:

- Hester Industries, Inc. - South Branch of the South Fork of the Potomac River
- Union Carbide Corporation – Ward Hollow of Davis Creek

Stream/Wetland Delineation, Permitting, and Mitigation for various projects in West Virginia:

- Resource Consultants and Developers, Inc.
- Morgantown Energy Technology Center
- Capels Resources
- Proposed 560-acre site of Apple Grove Pulp and Paper
- Howe's Leather

SARA III (EPCRA) Reporting and Compliance

Form R Toxic Chemical Release Inventory (TRI) evaluation and/or reporting for various facilities throughout West Virginia:

- DALB, Inc.
- UGM Addcar, Inc.
- LP Minerals, LLC
- Arch Coal, Inc.
- International Coal Group
- Greer Industries, Inc.
- Hester Industries, Inc.
- Sheidow Bronze Company
- AC&S, Inc.
- Creo Manufacturing America, LLC

Tier II Hazardous Chemical Inventory reporting for various facilities throughout West Virginia:

- Hester Industries, Inc.
- Walker Machinery Company
- AC&S, Inc.
- Creo Manufacturing America, LLC
- Greer Industries, Inc.
- Pfaff & Smith, Inc.

Section 304 Initial Notifications and Material Safety Data Sheet (MSDS) reporting for facilities in West Virginia:

- Patriot Mining Company, Inc.
- Greer Industries, Inc.

USEPA SARA III compliance audits for facilities in West Virginia:

- Hester Industries, Inc.
- Sheidow Bronze Company
- Patriot Mining Company, Inc.

Air Permitting and Compliance

Regulation 13 Permitting for various West Virginia facilities:

- Hester Industries, Inc
- Parks Corporation
- Greenbrier Limestone Corporation
- Century Limestone, Inc
- Meadows Stone & Paving, Inc
- Pfaff & Smith, Inc.
- Arrow Concrete Company
- Southern West Virginia Asphalt, Inc
 - Elkins, West Virginia
 - Whitman, West Virginia
 - Beaver, West Virginia
- West Virginia Paving, Inc.
 - Poca, West Virginia
 - Dunbar, West Virginia

Regulation 21 emissions calculations and registrations for a variety of industries in West Virginia, including manufacturing and chemical facilities, a bulk fuel terminal, numerous gasoline stations, and dry cleaners.

Title V Certified Emissions Statements (CESIs) and emissions inventories (EIs) for a variety of facilities throughout West Virginia, including manufacturing facilities, small chemical companies and numerous quarries and asphalt plants.

Emission Inventory Statements (EISs) for over 30 facilities, including a bulk gasoline terminal, manufacturing facilities, and numerous asphalt plants and quarries.

Environmental Management

Prepared Environmental Management System Manuals for facilities in West Virginia and Ohio:

- Gestamp West Virginia, LLC
- Greer Industries, Inc.
- PC West Virginia Synthetic Fuels, LLC
- Creo Manufacturing America, LLC
- SDR Plastics, Inc.
- West Virginia Forestry Association
- Koppers Industries

Environmental Assessments/Impact Statements

Environmental Assessment or Categorical Exclusion documents for facilities in West Virginia and Maryland:

- Crown Communications (numerous cellular towers)
- Greystone Development
- Columbia Gas Transmission Corporation
- West Virginia Division of Highways

FERC Reports

Columbia Gas Transmission Corporation – Environmental Resource Reports for FERC applications for several pipeline projects. The projects included individual pipeline replacement projects and a large market expansion project.

ESAs (Phase I and II)

Phase I Environmental Site Assessments:

- Hester Industries, Inc.
- Parks Corporation
- Juliana Glass
- Resource Developers and Consultants, Inc.
- Barrack's Auto
- Go-Mart, Inc.

Phase II Environmental Site Assessments:

- Hester Industries, Inc.
- Juliana Glass
- Barrack's Auto

Appendix B

West Virginia Ethics Commission
Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: Potesta & Associates, Inc.

Address: 7012 MacCorkle Avenue, SE, Charleston, WV 25304

Name of Authorized Agent: Dana L. Burns Address: 7012 MacCorkle Avenue, SE, Charleston, WV 25304

Contract Number: CEOI 0310 DNR2200000008 Contract Description: A&E- Ridge Hatchery New Construction

Governmental agency awarding contract: West Virginia Division of Natural Resources

☐ Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (*attach additional pages if necessary*):

1. Subcontractors or other entities performing work or service under the Contract

☐ Check here if none, otherwise list entity/individual names below.

2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)

☐ Check here if none, otherwise list entity/individual names below.

Ronald R. Potesta
Dana L. Burns

3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)

☐ Check here if none, otherwise list entity/individual names below.


Signature:  Date Signed: March 16, 2022

Notary Verification

State of West Virginia, County of Kanawha:

I, Dana L. Burns, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 16th day of March, 2022

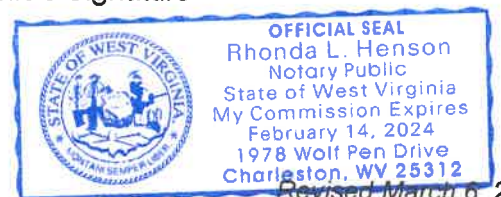

Notary Public's Signature

To be completed by State Agency:

Date Received by state agency: _____

Date submitted to Ethics Commission: _____

Governmental agency submitting Disclosure: _____



Revised March 6, 2019



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Expression of Interest
Architect/Engr

Proc Folder: 1008063			Reason for Modification:
Doc Description: A&E - Ridge Hatchery New Construction			
Proc Type: Central Contract - Fixed Amt			
Date Issued	Solicitation Closes	Solicitation No	Version
2022-02-24	2022-03-17 13:30	CEOI 0310 DNR2200000008	1

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code:

Vendor Name : Potesta & Associates, Inc.

Address : 7012

Street : MacCorkle Avenue, SE

City : Charleston

State : West Virginia

Country : United States

Zip : 25304

Principal Contact : Dana L. Burns, P.E., P.S., Vice President

Vendor Contact Phone: 304-342-1400

Extension:

FOR INFORMATION CONTACT THE BUYER

Joseph E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor
Signature X

FEIN# 31-1509066

DATE March 16, 2022

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION

The Acquisitions and Contract Administration Section of the Purchasing Division is soliciting Expression(s) of Interest for The Division of Natural Resources from qualified firms to provide architectural/engineering services as defined herein. The mission or purpose of the project for which bids are being solicited is to provide necessary engineering, and other related professional services design and specify improvements and renovations to nearly all facilities at the Ridge State Fish Hatchery and other related work. The hatchery is located near Berkeley Springs in Morgan County, West Virginia.

INVOICE TO	SHIP TO
DIVISION OF NATURAL RESOURCES PARKS & RECREATION-PEM SECTION 324 4TH AVE SOUTH CHARLESTON WV 25305 US	DIVISION OF NATURAL RESOURCES RIDGE HATCHERY 12051 VALLEY RD BERKELEY SPRINGS WV 25411 US

Line	Comm Ln Desc	Qty	Unit Issue
1	Civil engineering		

Comm Code	Manufacturer	Specification	Model #
81101500			

Extended Description:
Ridge Hatchery New Construction.

SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
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	Document Phase	Document Description	Page 3
DNR2200000008	Final	A&E - Ridge Hatchery New Construction	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Name, Title)

(Printed Name and Title)

(Address)

(Phone Number) / (Fax Number)

(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law.

(Company)



(Authorized Signature) (Representative Name, Title)

(Printed Name and Title of Authorized Representative)

(Date)

(Phone Number) (Fax Number)

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Potesta & Associates, Inc.

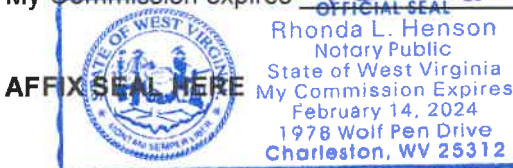
Authorized Signature: *[Signature]* Date: March 16, 2022

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 16 day of March, 2022

My Commission expires February 14, 2024



NOTARY PUBLIC

[Signature]

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.:

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

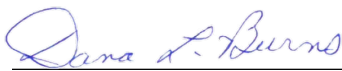
Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|---|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Company



Authorized Signature

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.