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Header @ 1

List View

General Information Contact Default Values Discount Document Information Clarification Request

Procurement Folder: 1752879

Procurement Type: Central Purchase Order

Vendor ID: 000000173443

Legal Name: POTESA & ASSOCIATES INC

Alias/DBA:

Total Bid: \$0.00

Response Date: 08/21/2025

Response Time: 13:14

Responded By User ID: KJTINGLER

First Name: Kristi

Last Name: Tingler

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Phone: 3045531269

SO Doc Code: CEOI

SO Dept: 0310

SO Doc ID: DNR2600000002

Published Date: 8/4/25

Close Date: 8/21/25

Close Time: 13:30

Status: Closed

Solicitation Description: A&E - Tomlinson Run Dam Improvements

Total of Header Attachments: 1

Total of All Attachments: 1



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: 1752879
Solicitation Description: A&E - Tomlinson Run Dam Improvements
Proc Type: Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2025-08-21 13:30	SR 0310 ESR08212500000001240	1

VENDOR
000000173443
POTESTA & ASSOCIATES INC

Solicitation Number: CEOI 0310 DNR2600000002
Total Bid: 0
Response Date: 2025-08-21
Response Time: 13:14:41
Comments:

FOR INFORMATION CONTACT THE BUYER
Joseph (Josh) 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	Professional engineering services				0.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments:

Extended Description:

Design and contract administration services of dam improvements at Tomlinson Run State Park.



August 21, 2025

West Virginia Division of Natural Resources
112 California Avenue, Building 4
Charleston, West Virginia 25305

RE: Solicitation No. DNR2600000002
A/E – Tomblinson Run Dam Improvements
Hancock County, West Virginia
Project No. 0102-25-0240

To Whom It May Concern:

Potesta & Associates, Inc. (POTESTA) is pleased to submit this Letter of Interest and Statement of Qualifications to the West Virginia Division of Natural Resources (WVDNR) to provide engineering services and other professional services for the design of repair and improvements to the dam at Tomblinson Run State Park in Hancock County, West Virginia. It is essential to design repairs and enhancements to the Tomblinson Run State Park Dam to bring the structure into compliance with dam safety regulations, protect public safety and downstream property, and secure a Certificate of Approval from the regulatory authority for its continued operation. POTESTA offers a full range of dam engineering services designed to protect communities, extend infrastructure life, and meet strict safety standards. Our expertise spans every stage of a dam's lifecycle, from assessment to rehabilitation, ensuring reliable performance and regulatory compliance.

The dam at Tomblinson Run State Park was constructed between 1940 and 1942 to create Tomblinson Run Lake, which helped manage runoff and mitigate flooding, support various recreational activities on the lake, and contribute to the park's scenic landscape and habitat for local wildlife. Over the past couple of years, the WVDNR has initiated projects to repair and improve the dam, including stream restoration and habitat improvements to reduce erosion, increase habitat complexity, and enhance the quality of water. Additionally, accessible trails, fishing platforms, and pedestrian bridges were constructed to improve public access.

This project and the recent improvement efforts aim to ensure the dam's structural integrity, enhance safety, and comply with updated dam safety regulations. The scope of this project includes, but is not limited to:

- **Preliminary Assessment and Data Collection**
- **Regulatory Coordination**
- **Engineering Analysis & Design**
- **Environmental and Permitting Services**
- **Construction Administration and Oversight**

August 21, 2025

Page 2

POTESTA is dedicated to partnering with the WVDNR to deliver the successful design, permitting, and construction of dam repairs and improvements that enhance stability, support surrounding ecosystems, and expand recreational opportunities for visitors to Tomlinson Run State Park. The information provided in this response addresses the areas outlined in your solicitation. Should you have any questions or need additional information, please do not hesitate to contact us. POTESTA values strong relationships with our clients and stakeholders and looks forward to continuing our successful partnership with the WVDNR. Our technical expertise, the specialized knowledge of our team, proximity to the project, and our proven track record make us the ideal choice for this work. These strengths translate into tangible benefits, including strong communication, responsiveness, reliability, high-quality results, and cost efficiency, contributing to the successful completion of the project for the WVDNR.

Sincerely,

POTESTA & ASSOCIATES, INC.

A handwritten signature in blue ink that reads "Dana L. Burns". The signature is fluid and cursive, with the first name "Dana" being more prominent than the last name "Burns".

Dana L. Burns, PE, PS
President

DLB/kjt



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: 1752879			Reason for Modification:
Doc Description: A&E - Tomlinson Run Dam Improvements			
Proc Type: Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No	Version
2025-08-04	2025-08-21 13:30	CEOI 0310 DNR2600000002	1

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code: 000000173443

Vendor Name : Potesta & Associates, Inc.

Address : 125

Street : Lakeview Drive

City : Morgantown


State : West Virginia **Country :** USA **Zip :** 26508

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

Vendor Contact Phone: (304) 342-1400 **Extension:**

FOR INFORMATION CONTACT THE BUYER

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

Vendor Signature X  **FEIN#** 31-1509066 **DATE** 08/21/2025

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

ADDITIONAL INFORMATION
The Purchasing Division is soliciting Expression(s) of Interest for The West Virginia Division of Natural Resources, from qualified firms to provide architectural/engineering services to provide necessary engineering, architectural, and other professional services to design repairs and improvements to the dam, design a dredging plan, and design other related improvements at Tomlinson Run State Park, in Hancock County, WV. Services will also include permitting, contract administration through construction, and other work necessary to bring the dam into compliance with Dam Safety regulations and obtain a Certificate of Approval per the attached specifications and terms and conditions.

INVOICE TO	SHIP TO
DIVISION OF NATURAL RESOURCES 112 CALIFORNIA AVENUE BLDG 4 CHARLESTON WV 25305 US	DIVISION OF NATURAL RESOURCES TOMLINSON RUN STATE PARK 84 OSAGE RD NEW MANCHESTER WV 26056 US

Line	Comm Ln Desc	Qty	Unit Issue
1	Professional engineering services		

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description:
Design and contract administration services of dam improvements at Tomlinson Run State Park.

SCHEDULE OF EVENTS		
<u>Line</u>	<u>Event</u>	<u>Event Date</u>

	Document Phase	Document Description	Page 3
DNR2600000002	Final	A&E - Tomlinson Run Dam Improvements	

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.

(Printed Name and Title) _____

(Address) _____

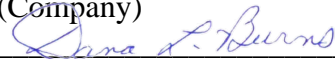
(Phone Number) / (Fax Number) _____

(email address) _____

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract 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/Contract 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 this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; 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; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

(Company)



(Signature of Authorized Representative)

(Printed Name and Title of Authorized Representative) (Date)

(Phone Number) (Fax Number)

(Email Address)

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.

Statement of QUALIFICATIONS

WEST VIRGINIA

DNR

WV DIVISION OF NATURAL RESOURCES

112 California Avenue, Building 4

Charleston, West Virginia 25305

SOLICITATION NO. DNR2600000002 TOMLINSON RUN DAM IMPROVEMENTS

PREPARED BY:



CHARLESTON

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

MORGANTOWN

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

WINCHESTER

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



Project Contact:

David B. Sharp, PE ► (304) 225-2245
125 Lakeview Drive ► Morgantown, WV 26508

Submission Date:

August 21, 2025
Project Number ► 0102-25-0240

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QUALIFICATIONS



COMPANY PROFILE

Incorporated in 1997 in Charleston, West Virginia by Mr. Ronald R. Potesta, POTESTA is a full-service engineering and environmental consulting firm that has been delivering exceptional services across the Mid-Atlantic region since its inception. Our team is composed of skilled engineers, scientists, and support staff, with branch offices in Winchester, Virginia, and Morgantown, West Virginia. We serve a diverse range of clients, including local, state, and federal agencies, as well as industries such as mining, manufacturing, utilities, waste management, land development, legal, finance, insurance, education, construction, and architecture.

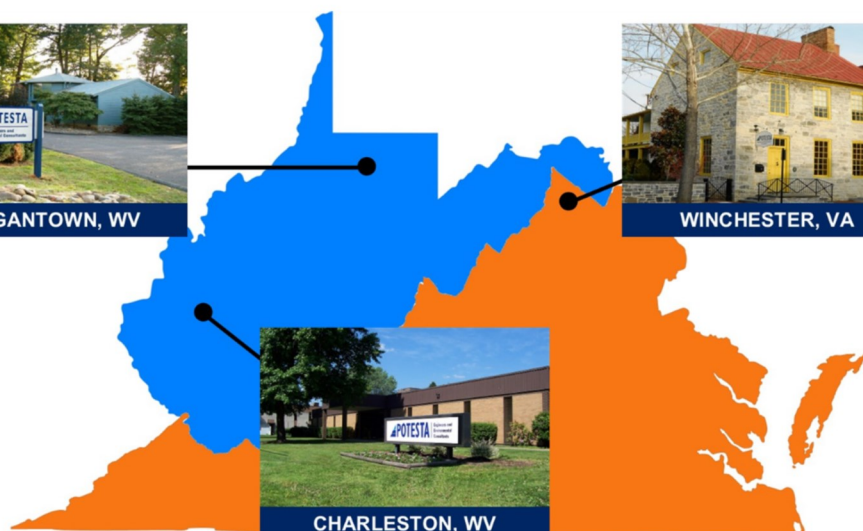
MAIN POINT OF CONTACT

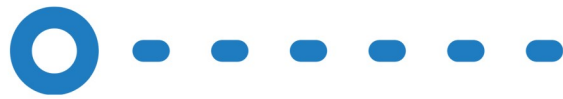
Ronald R. Potesta
CEO

rrpotesta@potesta.com
(304) 342-1400

With over 28 years of proven success, we've delivered countless projects marked by quality, reliability, and lasting client relationships.

OFFICE LOCATIONS





90+ EMPLOYEES

27 Engineers



39 Technical Support



14 Environmental



11 Administrative



SERVICES

ENGINEERING SERVICES

- Civil Engineering
- Geotechnical Engineering
- Water Resources Engineering
- Environmental Engineering
- Site Design
- Stormwater Management
- Water & Wastewater Design
- Transportation Engineering
- Mining Engineering
- Construction Monitoring
- Surveying & CADD

ENVIRONMENTAL SERVICES

- Wetlands & Ecological Studies
- Remediation & Contaminated Site Cleanup
- Air Quality & Emissions Monitoring
- Waste Management & Recycling
- Environmental Site Assessments
- Water & Wastewater Management
- Hazardous Materials Management

REGULATORY SERVICES

- Permitting
- Environmental Impact Assessments (NEPA)
- Regulatory Liaison
- Health & Safety Plans
- Risk Management & Due Diligence

SPECIALIZED SERVICES

- Geographic Information Systems
- Renewable Energy Consulting
- Oil & Gas Consulting
- Coal Supply & Procurement
- Land Management Services
- Litigation Support



TECHNICAL EXPERTISE



WATER RESOURCES ENGINEERING

POTESTA offers engineering and environmental consulting with a focus on water resources. Our team works on stormwater management, flood control, and hydrology and hydraulic design, providing practical solutions that protect communities and ensure reliable water systems. We also specialize in dam projects, including assessments, compliance support, and the design of repairs and improvements that enhance safety and extend service life. With investigative, engineering, environmental, and regulatory services all under one roof, POTESTA manages every aspect of a project efficiently. By combining technical expertise with hands-on experience, we help clients strengthen their infrastructure and meet both current and future challenges.



DAM SERVICES

- **Dam Safety & Compliance** — comprehensive inspections, safety evaluations, and regulatory support.
- **Design & Rehabilitation** — innovative solutions for dam repairs, upgrades, and spillway/outlet improvements.
- **Hydrology & Hydraulics** — advanced modeling to optimize dam performance and manage flood risks.
- **Sediment & Dredging Solutions** — studies and plans to restore reservoir capacity and protect water quality.
- **Emergency Preparedness** — development of Emergency Action Plans (EAPs) and hazard classification studies.
- **Environmental Stewardship** — fish passage design, habitat protection, and sustainable reservoir management.
- **Construction Support** — full-service contract administration and construction oversight to ensure quality delivery.

From safety compliance to full rehabilitation, POTESTA delivers turnkey solutions for every dam challenge.

GEOTECHNICAL ENGINEERING

POTESTA offers experienced engineers adept in using the latest technologies for subsurface explorations, monitoring wells and piezometer installations, foundation design recommendations, slope stability analysis, retaining wall design, and remedial solutions. Our team has extensive experience in assessing soil conditions, conducting site-specific testing, and providing foundation recommendations to ensure the stability, safety, and long-term performance of a wide variety of structures and site developments.

DAM SERVICES

- **Foundation & Subsurface Analysis** — in-depth investigations to understand soil and rock behavior and guide design.
- **Stability & Seepage Solutions** — advanced modeling and design for slope stability, seepage control, and embankment performance.
- **Remediation & Reinforcement** — proven methods such as grouting, drainage, and slope stabilization to extend dam life.
- **Seismic & Risk Assessments** — evaluations to ensure dams remain safe under extreme loading and natural hazards.
- **Construction Support** — on-site geotechnical expertise to oversee materials, foundations, and embankment performance.



West Virginia Division of Natural Resources — Tomblinson Run Dam Improvements

REGULATORY COMPLIANCE

Beyond providing design services, POTESTA is uniquely equipped to deliver environmental consulting, an essential component for projects of this nature. Most projects carried out by POTESTA require regulatory assistance to ensure compliance with relevant regulations. Our group of engineers and environmental scientists collaborates to tackle intricate environmental issues, integrating them into the planning and construction of projects. It's essential to engage in early and ongoing communication with local municipalities, state agencies, environmental agencies, and other stakeholders to identify the specific permits required for the project. POTESTA possesses a comprehensive understanding of local regulations and experience coordinating with relevant authorities for a smooth permitting process.



NEPA-RELATED SERVICES

- Aesthetics
- Cumulative Impact Studies
- Floodplain Impacts
- Noise and Air Quality Analysis
- Endangered Species Consultation
- Historical and Archaeological Resources Consultation
- Biological Assessments/Surveys
- Phase I Environmental Assessment
- Risk Assessment
- Sampling/Remediation
- Stream and Wetland Delineation and Restoration
- Water Quality Studies

MITIGATION

- Stream Restoration Plans
- Construction Monitoring
- Post-Construction Monitoring and Reporting
- Wetland Mitigation — payment to bank/fund, creation of wetland, or protection and/or enhancement of other wetland areas.
- Re-Vegetation
- Stormwater Management — permeable surfaces and retention basins.
- Erosion Control
- Invasive Species Management
- Cultural Resource Preservation
- Noise Reduction

SURVEYING/MAPPING

POTESTA proposes to utilize our own survey crews for work on this project. Our surveyors have worked on numerous site development, geotechnical, roadway and bridge construction, utility construction, and landfill development projects. Surveys and mapping are completed to the standards as outlined by the National Map Standards as well as other applicable quality standards. Small topographic mapping projects can be completed in-house, however, larger projects are better suited for mapping using aerial photography.



POTESTA utilizes Total Station instruments, Trimble R-8 Glonass, RTK GPS Systems, AutoCAD, Autodesk Land Desktop, and Autodesk Civil 3D Design Software to deliver precise surveying, mapping, and engineering solutions, ensuring accurate data collection and efficient project design for the required deliverables.

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.

CADD SERVICES

- **Integration with Survey Data** — field measurements, GPS data, LiDAR, etc. used to develop topographic maps and 3D models of the site.
- **Site Design** — grading plans, drainage plans, utilities plans, and right-of-way plans.
- **Roadway Design** — roadway alignment, cross section and profile design, pavement design, drainage and stormwater management, intersection design, and markings and signage.
- **Utility Design** — utility mapping, water distribution, sewer, and stormwater systems design, gas network design, electrical design, and telecommunication/fiber optic network design.
- **Permit Drawings, Maps, & Exhibits** — construction details, site plans, utility and building layouts, topographic, property boundary, zoning, environmental, location maps, renderings and 3D models, aerial and satellite imagery overlays, conceptual plans, stormwater and drainage exhibits, and conditions exhibits.
- **Earthwork & Planimetric Quantity Development** — earthwork design and quantity calculation, earthwork reports and documentation, planimetric quantity development, and earthwork and planimetric quantity analysis.

CONSTRUCTION PHASE SERVICES

Support services during the engineering construction phase include essential activities that ensure the smooth execution of projects. POTESTA offers construction monitoring and administration services to help clients meet regulatory and contractual requirements. We ensure that contractor activities align with design specifications and act as an extension of clients' staff, providing comprehensive support throughout the construction process. These support services are crucial to ensuring the successful completion of projects on time, within budget, and to the required quality standards.



CONSTRUCTION OBSERVATION

- **Construction Oversight** — full-time construction monitoring to ensure compliance with design specifications, safety regulations, and quality standards.
- **Quality Assurance/Quality Control** — conducting tests and inspections on construction materials, inspections and identification of deficiencies in construction work, document control, regulatory compliance, and subcontractor oversight.
- **Documentation & Record-Keeping** — maintain comprehensive records of construction activities, inspections, tests, and approvals for future reference and compliance purposes.
- **Environmental Compliance** — ensure construction activities adhere to environmental regulations and minimize impact on surrounding ecosystems.

CONSTRUCTION ADMINISTRATION

- **Project Management** — coordinate all aspects of construction phase including scheduling, budgeting, and resource allocation. Attend pre-construction conference, progress meetings, and as-needed meetings. Prepare weekly reports summarizing construction activities.
- **Progress Monitoring & Reporting** — tracking construction progress to identify any potential delays, and provide regular updates to client.
- **Contract Administration** — manage contracts, change orders, and claims resolutions throughout the construction process. Issue written clarifications or interpretations of the requirements of the contract documents, including issuance of additional specifications and drawings and Certificate of Substantial Completion, as typically required by the contract documents.
- **Contractor Management** — review contractor work plan, progress schedule, shop drawing/sample submittal schedule, and schedule of values. Evaluate and recommend payment for contractor invoices (Applications for Payment). Review and approve/deny substitutes and “or equal” items.

STAFF QUALIFICATIONS



STAFFING PLAN

WEST VIRGINIA

DNR

DANA L. BURNS, PE, PS
Principal-in-Charge—46 Yrs.

DAVID B. SHARP, PE
Project Manager—29 Yrs.

ASSESSMENT / HYDROLOGIC & HYDRAULIC ANALYSIS / DESIGN / SPILLWAY/ E&S CONTROL

Everett Mulkeen, PE, PS – 12 Yrs.
Jarrett Smith, PE – 23 Yrs.
Tim Rice, EIT – 42 Yrs.
Joe Dinkel – 14 Yrs.
Chad Griffith, PE – 20 Yrs.
Alex Keenan, EIT – 6 Yrs.
Claire McDonald, EIT – 3 Yrs.

SURVEYING

Victor Dawson, PS – 41 Yrs.
Ryan Bennett, PS – 10 Yrs.
Rusty Hunter – 42 Yrs.
Tyler Aboytes – 9 Yrs.
Ryan Pettry – 2 Yrs.
Stephan Sayles – 2 Yrs.
Shymeik Leftwich – 1 Yr.

STRUCTURAL ANALYSIS / SLOPE STABILIZATION / SEEPAGE CONTROL / MONITORING

David Sharp, PE – 29 Yrs.
Chris Grose, LRS – 33 Yrs.

MAPPING/CADD

Scott Bolyard – 33 Yrs.
Anthony Friend – 27 Yrs.
Michael Sankoff – 34 Yrs.

ENVIRONMENTAL PERMITTING / STREAM/ WETLAND / NEPA COMPLIANCE

Jessica Yeager – 29 Yrs.
Timothy Ferguson – 17 Yrs.
Dan Miller, PhD – 46 Yrs.

CONSTRUCTION MONITORING

Francis Hyre – 42 Yrs.

KEY PERSONNEL

Appendix A contains resumes and certifications of key personnel.



Principal-in-Charge — Dana L. Burns, PE, PS, President

With over 46 years of experience, Mr. Burns has led a broad range of civil, geotechnical, and environmental engineering projects, including site assessments, preliminary feasibility evaluations, stormwater management, site plans for commercial, residential, and industrial facilities, design of utility infrastructure, and regulatory permitting. Mr. Burns has served as Principal-in-Charge for numerous projects with West Virginia State Agencies, providing leadership on dam rehabilitation and repair, abandoned mine land reclamation, roadway construction, water and wastewater system upgrades, and other critical infrastructure initiatives. He directs the engineering division's day-to-day operations, overseeing staffing, project coordination, training, business development, and the overall management of technical and support personnel to ensure high-quality, compliant, and cost-effective project delivery.



Project Manager — David B. Sharp, PE, Branch Manager

With over 29 years of experience in civil engineering across the region, Mr. Sharp is experienced in geotechnical engineering and construction management. His extensive portfolio includes utility design, water line extensions, landslide investigation and repair, stormwater evaluation, site design, abandoned mine lands reclamation, permitting, roadway design, and dam projects. He has successfully guided projects from initial planning and assessments through preliminary and final design, as well as the preparation of bidding and construction documents. As Branch Manager of the Morgantown office, Mr. Sharp brings unparalleled expertise and leadership to every project. He has served as the Project Manager for dam landslide repair projects for the West Virginia Conservation Agency.



Everett E. Mulkeen, PE, PS, Senior Engineer

With more than 12 years of experience in civil engineering, Mr. Mulkeen specializes in water, stormwater, and wastewater infrastructure, civil and site design, and geotechnical engineering, bringing a wealth of expertise to every project. His project portfolio spans utility design, water resources management, WVDEP-AML economic developments, commercial and residential site developments, ADA-compliant access designs, and construction field monitoring. Mr. Mulkeen has successfully executed projects demanding intricate technical design solutions and navigating multifaceted permit applications.



Jarrett M. Smith, PE, Senior Engineer

Mr. Smith brings over 23 years of experience in stormwater management, geotechnical engineering, hydrology and hydraulics, and civil/site design. He has extensive expertise in the design and analysis of stormwater management systems and facilities, with a strong emphasis on hydraulic evaluations and hydrogeologic investigations, both essential to developing effective, resilient drainage solutions. Additionally, Mr. Smith has extensive experience providing engineering, remediation and inspection services for dams and impoundments, ensuring structural integrity, regulatory compliance, and the safe management of water resources. Mr. Smith's comprehensive understanding of surface and subsurface conditions enhances his ability to deliver technically sound and environmentally compliant designs.



Timothy M. Rice, EIT, Senior Engineer

Mr. Rice has over 42 years of expertise in civil, environmental, surveying, and geotechnical engineering, providing comprehensive services to public, state, and private clients. His focus lies in project management and the coordination of engineering and environmental services. These encompass a wide range of tasks such as permitting and compliance, hydraulic and hydrological analysis, slope stability analysis, geotechnical design, Phase I Environmental Site Assessments (ESA's), stormwater management, municipal water and sewer design, civil site design, water resources analysis/design, and construction monitoring/observation.



Christopher A. Grose, LRS, Senior Engineering Associate

Mr. Grose has over 33 years of geotechnical experience with areas of expertise including geological/geotechnical explorations, surface/subsurface hydrology, hydrogeology, and landslide causation analysis/stability modeling/failed slope restoration. Mr. Grose's experience includes the design and evaluation of geotechnical explorations related to roadways, bridges, culverts, and earth retention structures, slope stability and engineered fill construction, and foundation recommendations. Extensive experience evaluating retaining walls, including assessing structural integrity, identifying signs of failure or movement, and recommending appropriate repair or replacement solutions. His experience also includes geotechnical and foundation design for Karst void stabilization under proposed structures.

Our large and experienced team enables us to respond promptly and adapt to project needs, while allowing for complex, cross-functional projects to benefit from the direct involvement of our in-house specialists. POTESTA has designated an experienced Project Manager to lead and coordinate all aspects of this project. Supporting the Project Manager is a multidisciplinary team of qualified engineers, surveyors, CADD designers, scientists, and technicians who will collaborate closely to assist the client at every stage of the project.

METHODS OF APPROACH



PROJECT & GOALS

POTESTA delivers comprehensive dam engineering services that combine water resources, geotechnical, and environmental expertise under one roof. From safety compliance and performance evaluations to complete rehabilitation and dredging solutions, we provide the WVDNR with practical, resilient designs that protect communities, safeguard natural resources, and extend the life of the dam at the Tomblinson Run State Park in Hancock County, West Virginia.

POTESTA follows critical success factors on every project, starting with clear, mutually agreed-upon goals and a concise, actionable project plan. We apply proactive risk and scope management throughout the project lifecycle to keep work within defined boundaries while accommodating necessary adjustments. POTESTA believes clear and efficient communication is key to project success, emphasizing early and frequent dialogue, mutual development of the work scope, site visits during startup meetings, and weekly project updates.

GOAL/OBJECTIVE 1—REVIEW EXISTING INFORMATION

POTESTA will examine the existing plans, assess the current condition of the dam, and review its operation while keeping the owner informed throughout the process. This collaborative approach allows us to develop an improvement plan that minimizes disruption to ongoing operations. Our work will include dredging planning, surveying, permitting, and implementing measures to bring the dam into full regulatory compliance, with an emphasis on safety, efficiency, and long-term performance.

GOAL/OBJECTIVE 2—DESIGN SERVICES

We will provide the necessary engineering and technical services to design the dam improvements, including detailed assessments, structural analysis, hydraulic and hydrologic evaluations, and development of construction documents. Our approach achieves improvements that are safe, compliant with all applicable regulations, and tailored to the operational needs of the facility, while considering long-term performance and sustainability.

POTESTA has a proven track record of meeting tight deadlines and key milestones, with the Project Manager overseeing the schedule so that all tasks are executed efficiently and coordinated effectively. The Project Manager also monitors the budget, keeps the Principal-in-Charge informed, and develops a detailed work plan outlining tasks and associated costs to complete the project within budget. POTESTA delivers efficient engineering designs that maximize client budgets, allowing more funds to go toward construction rather than design.

GOAL/OBJECTIVE 3—CONSTRUCTION CONTRACT ADMINISTRATIVE SERVICES

POTESTA will provide construction contract administration services for the dam improvement project, verifying that construction activities are performed in accordance with the approved design, specifications, and regulatory requirements. Our team will oversee contractor performance, review submittals, monitor schedules and budgets, conduct site inspections, and maintain thorough documentation throughout the construction phase. By acting as a liaison between the owner and contractor, we will help confirm the project is completed safely, efficiently, and in compliance with all applicable standards.

REFERENCES





REFERENCES

TOWN OF GRANVILLE

Patricia Lewis, Mayor
125 Main Street
Granville, West Virginia 26534
(304) 599-5080



Master Agreement

CITY OF BUCKHANNON

James Hollen, III, PE, City Engineer
70 East Main Street
Buckhannon, West Virginia 26201
(304) 472-1651



Master Agreement

CITY OF SOUTH CHARLESTON

Rick Atkinson, City Manager
PO Box 8597
South Charleston, West Virginia 25303
(304) 744-5300



**Park Place Development - Structural
Fill of Fly Ash Disposal Basin**

CONTACT US

FOR MORE INFORMATION CONTACT:

Dana L. Burns, President
(304) 342-1400

PRIOR EXPERIENCE



ANALYSIS AND UPGRADE OF SCOTT LAKE

*Scott Lake Corporation
Beverly, West Virginia*

Potesta & Associates, Inc. (POTESTA) was retained by Scott Lake Corporation to perform analyses on Scott Lake's dam embankment and spillway to design and construct improvements to meet the Certificate of Approval requirements administered by the West Virginia Department of Environmental Protection – Dam Safety (WVDEP). The Scott Lake Dam is an earth fill embankment that impounds Stalnaker Run, a tributary of the Tygart Valley River. Scott Lake was constructed in 1973 before many of the present federal or state regulatory requirements were enacted in Beverly, West Virginia.



POTESTA prepared design drawings (plans) and specifications for the design, alteration, and repair of the Scott Lake dam embankment and spillways in accordance with WVDEP, including the following scope of services:

- Dam break analysis
- Dam embankment evaluation including geotechnical exploration and sample collection/testing, internal seepage conditions, foundation stability, and upstream/downstream slope stability
- Topographic survey and mapping of the dam embankment and upstream and downstream areas
- Design of the emergency spillway and exit channel storm including a hydrologic study, flood routings and hydraulic analysis, and hazard classification
- Evaluation of existing principal spillway (concrete box rise pipe, concrete box culvert, and corrugated metal pipe)

In subsequent years, POTESTA has performed a Stability and Internal Seepage Evaluation Report, Dam Inspection Report, and Monitoring and Emergency Action Plan.

PROJECT MANAGER:

Christopher A. Grose

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cagrose@potesta.com



POTESTA & ASSOCIATES, INC.

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DEBRIS CONTROL PROJECT

Little Kanawha Conservation District/West Virginia Conservation Agency Ritchie County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the Little Kanawha Conservation District (LKCD) and West Virginia Conservation Agency (WVCA) to provide design recommendations for the proposed debris control structure near the North Fork of Hughes River watershed multiple purpose dam at North Bend Lake in Ritchie County, West Virginia. Since the construction of the dam in 2002, areas of timber and other wood debris were allowed to remain and had begun to deteriorate and break away from the lake floor. The debris flows downstream and accumulates around the riser structure of the principal spillway outlet at the southeastern end of the dam. It was periodically removed to maintain the safety and function of the outlet structure. However, the debris removal was performed using boats, which was very costly.



POTESTA designed a debris control structure to capture the debris and collect it along the northwestern end of the dam near the auxiliary spillway, which was more accessible for large machines to remove the debris. POTESTA reviewed documents by the WVCA and Natural Resources Conservation Service and conducted a site visit to observe the debris issue as part of the evaluation. POTESTA recommended the installation and use of a 24-inch flange bolted multifunction boom with a 4-foot rubber skirt. The multifunction boom would have articulating sections at the anchor ends and where the topography changes quickly to provide adequate protection at varying water levels. The two ends of the boom would be anchored using a beam and slider near the corner of the dam and auxiliary spillway and with a concrete anchor block and rock anchors at the other end of the boom on the east bank of the lake.

POTESTA provided a Design Report to LKCD and WVCA with an overview of the proposed design, including flow calculations, estimated forces, geotechnical exploration, and a summary of conditions observed.

PROJECT MANAGER:

Timothy M. Rice, EIT

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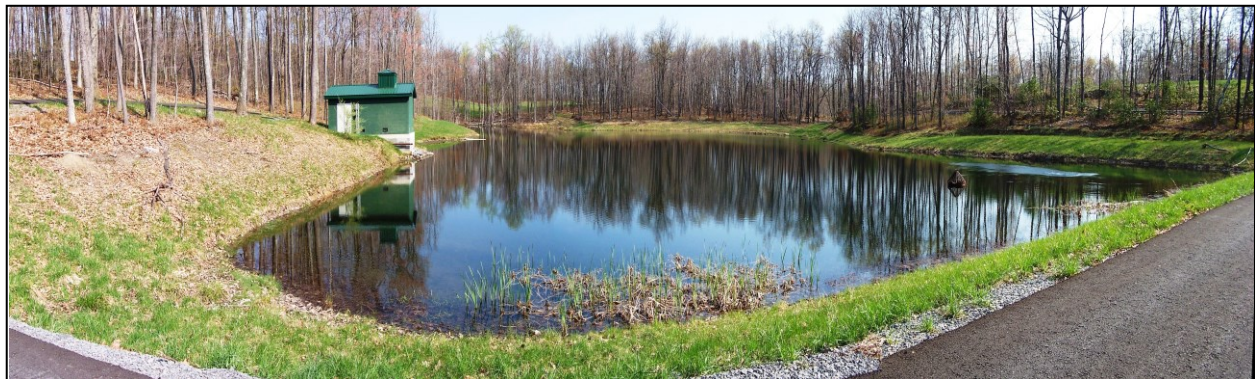
POND #3 IRRIGATION IMPOUNDMENT

Pikewood National Golf Course Reedsville, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the Pikewood National Golf Course to review the conditions of their irrigation impoundment as it pertained to the West Virginia Dam Safety Regulations. The impoundment was originally intended by its Owner to not meet the minimum requirements of a dam; however, after construction had been completed, it was determined that the height of the embankment plus the volume of storage did in fact qualify as a regulated dam according to the West Virginia Department of Environmental Protection (WVDEP). Pikewood asked POTESTA to provide the documentation and information necessary to meet the minimum standards and to obtain the necessary Dam Safety Permit from the agency.

POTESTA performed the following services to obtain approval from the WVDEP:

- POTESTA completed a subsurface exploration of the embankment. Soil samples were collected, and piezometers installed to allow measurement of the phreatic surface within the earthen dam. Laboratory testing was performed to determine the strength characteristics of the soil.
- A stability analysis was completed to determine that the minimum factors of safety were obtained for global stability.
- It was necessary to modify the emergency spillway to accommodate the necessary design storm; therefore, POTESTA performed hydraulic calculations to design a box culvert and associated spillway channel. The box culvert was necessary to allow for a road to cross the top of the embankment. Permanent synthetic lining was necessary in the channel due to the large velocities and shear strengths resulting from steep grades.
- POTESTA performed a dam break analysis of the structure to determine if downstream properties would be adversely impacted if a catastrophic failure were to occur.
- POTESTA developed a maintenance plan and inspection schedule for the impoundment.



PROJECT MANAGER:

David B. Sharp, PE

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PINEY CREEK DAM

*Raleigh County Recreation Authority
Raleigh County, West Virginia*



Potesta & Associates, Inc. (POTESTA) was retained by the Raleigh County Recreation Authority to design and oversee construction for a new dam on Piney Creek adjacent to Lake Fitzpatrick Park in Raleigh County, West Virginia. A previously existing dam on the creek had been washed out by flooding. The purpose of the dam on the creek was to impound water to an elevation which would allow flow from the creek to pass through an inlet pipe which fed nearby Lake Fitzpatrick. Lake Fitzpatrick has a very small water shed and, therefore, has difficulty maintaining normal pool elevation. When the

original dam on Piney Creek washed out, the pool level subsequently dropped in Lake Fitzpatrick. The following is a list of services provided:

- Development of a preliminary evaluation report which provided several alternatives for methods of providing inflow to Lake Fitzpatrick.
- Design of a rock fill dam with a crest length of approximately 40 feet and an average height of 10 feet. The design included generating construction drawings and specifications.
- Preparation of permits including a Corps of Engineers 404 Nationwide Permit and a Public Lands Corporation Stream Activity Permit.
- Preparation of bidding documents, including bid quantity list, conducted pre-bid meeting, and assisted the Raleigh County Development Authority with award of the successful bid.
- Contract administration and construction monitoring services.
- Quarterly inspections and reports required by the West Virginia Department of Environmental Protection (also for both facilities).

PROJECT MANAGER:

Dana L. Burns, PE, PS

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dlburns@potesta.com



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UPPER GRAVE CREEK #1 DAM LANDSLIDE REPAIR

*West Virginia Conservation Agency,
Northern Panhandle Conservation District
Marshall County, West Virginia*

Potesta & Associates, Inc. (POTESTA) was hired by the West Virginia Conservation Agency (WVCA) and the Northern Panhandle Conservation District (NPCD) to evaluate a landslide that developed on the slope of the auxiliary spillway at the Upper Grave Creek Impoundment in Marshall County, West Virginia. The slide occurred near the toe of the hill and dislodged a volume of soil that caused undue pressure on the uphill side of a water treatment clarifier operated by the Town of Cameron for public water supply.



POTESTA completed a subsurface evaluation, which included drilling four borings, equipping two of the borings with piezometers to measure groundwater levels, and completing a laboratory testing program. Field surveys were completed, and a topographic map was developed that served as a baseline map for the design of repair options. A slope stability analysis was performed, and recommendations were made for final repair options.



PROJECT MANAGER:

David B. Sharp, PE

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WHEELING CREEK #7 DAM LANDSLIDE REPAIR

*West Virginia Conservation Agency,
Northern Panhandle Conservation District
Triadelphia, Ohio County, West Virginia*

Potesta & Associates, Inc. (POTESTA) was retained by the West Virginia Conservation Agency (WVCA) and the Northern Panhandle Conservation District (NPCD) to evaluate a landslide that has developed within the Wheeling Creek Dam #7 impoundment near the facility's public access parking area in Triadelphia, West Virginia. The Wheeling Creek Dam Site 7 is a single-purpose flood control dam that was designed and built from 1968 to 1975 as part of the Wheeling Creek Watershed Protection project.



The contributing watershed area above the impoundment is approximately 18,480 acres, and the resulting impounded surface area of the dam is 29.2 acres. The earthen fill embankment, which forms the dam structure, is approximately 96 feet in total height measured from the downstream toe to the crest. The landslide had impacted a handicap-accessible area and a public fishing area and was encroaching on the normal pool elevation of the impoundment. POTESTA completed a subsurface evaluation, which included drilling six borings and completing a laboratory testing program. Field surveys were completed, and a topographic map was developed that served as a baseline map for the design of repair options. A slope stability analysis was performed, and recommendations were made for final repair options.



PROJECT MANAGER:

David B. Sharp, PE

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SUNSET BEACH MARINA OF LAKE LYNN SOIL SAMPLING AND MITIGATION

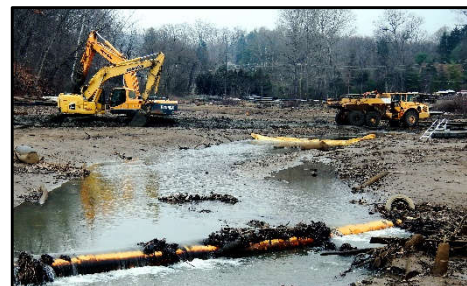
*Cube Hydro (now Eagle Creek Renewable Energy)
Monongalia County, West Virginia*



Potesta & Associates, Inc. (POTESTA) was contacted by Cube Hydro (now Eagle Creek Renewable Energy) to collect sediment samples from the Sunset Beach Marina of Lake Lynn (Cheat Lake) in Morgantown, WV. This service was needed in anticipation of dredging a designated area planned to improve the depth of water in the marina channel, prior to the boating season. The samples were taken to a certified lab for analysis of multiple parameters associated with mining and boating activities. This included a fueling station over the water.



POTESTA determined the appropriate parameters to be analyzed by the lab. The results from the laboratory were provided along with a table which highlighted the contaminants that exceeded the West Virginia Department of Environmental Protection de minimis benchmark for chemicals of potential concern for direct contact with soil, based on residential use. Prior to deposition of the dredged material, Eagle Creek asked POTESTA for additional information on de minimis human exposure screening to properly address any possible liability issues.



POTESTA's remediation expert provided details on site specific resident risk for soil contaminants using an existing model from soil data from the region. In addition, POTESTA provided simple mitigation steps that would reduce the risk of exposure to the low level of contaminants found in the sediments. This was helpful information from a legal standpoint and met our client's needs.



PROJECT MANAGER:

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DYE TESTING AT WARM SPRINGS DAM #7

*Eastern Panhandle Conservation District
Berkeley County, West Virginia*



The Eastern Panhandle Conservation District (District) contracted Potesta & Associates, Inc. (POTESTA) to assist in determining the potential source of a downstream seep that had been noticed below an earthen dam in the eastern panhandle of West Virginia. POTESTA recommended and implemented the use of dyes to determine the origin of the water emanating from the seep. The dye testing occurred at Warm Springs Dam #7 which receives drainage from a 120-acre watershed near Berkeley Springs, West Virginia. The pond was originally built by the National Resource

Conservation Service (NRCS) in 1958 to reduce the impact of heavy rains and flooding in the area. The seep included water that was discharging beneath the principal spillway barrel pipe on the downstream portion of the earthen embankment.

Two separate dyes were selected to determine if and where the leak may be originating from. One dye was administered using a surface water craft to distribute the dye throughout the pond. Another dye was placed in the principal spillway structure, a concrete riser. Packets of activated carbon were placed within the seep to detect if the injected dyes were detected in the seep. The activated carbon packets and water samples were collected at various intervals including days 1, 2, 4, and 7 after the application of dyes.



Public notice was completed by placing an ad in the local paper explaining the possibility that the unnamed tributary downstream from the impoundment may turn a red or green color as a result of this project. Communication with the District was maintained to assure the project goals would be met in a timely manner.

A summary report explaining the findings of the dye trace study was provided to the District along with POTESTA's recommendations on possible ways to reduce and monitor the amount of seepage occurring at the dam.

PROJECT MANAGER:

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RESERVOIR FEASIBILITY REPORT

Kingwood Water Works Preston County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by Kingwood Water Works (KWW) to provide a feasibility study and contingency plan to evaluate the technical, economic, and environmental implications of constructing a new dam and reservoir on Ashpole Run to provide an alternate raw water source for the KWW Water Treatment Plant (WTP) in Preston County, West Virginia. The new dam and reservoir were proposed downstream of an inactive reservoir that is in disrepair and beyond rehabilitation. The KWW WTP is currently supplied by raw water via three intakes on the Cheat River and is the system's sole source of supply. The study was funded by a grant from the Source Water Protection Program of the West Virginia Department of Health and Human Resources.

The Ashpole Reservoir has a catchment area of over 400 acres and sits on a 586-acre tract owned and managed by KWW. It is fed by pristine mountain springs and unnamed streams that form Ashpole Run. The Ashpole Reservoir was retired in the 1980s following the construction of the current WTP and Cheat Lake intakes. The dam and reservoir have fallen into disrepair since then and the reservoir outlet is left to drain so that water is not impounded behind the unused dam.



The proposed reservoir would have a total volume of approximately 6.8 million gallons, with unused reserve volume of 650,000 gallons, and a net usable volume of 6.15 million gallons. At the current usage rate of 700,000 gallons per day, the reservoir could provide approximately 8.75 days of storage. It could also provide a supplemental flow for blending purposes. The available supplemental flow from the reservoir would vary seasonally and, in most cases, would be less than half of the total system demand to prevent depletion of the reservoir.

- Established a manual stream flow monitoring station on Ashpole Run and KWW collected real time flow depths.
- Performed separate verification measurements and flow calculation for accuracy of corresponding flows.
- Reviewed water quality data on Cheat Lake and sampled Ashpole Run to assist with the application for the Source Water Protection grant.
- Designed two conceptual-level options for construction of a new Ashpole Dam, reservoir, and associated raw water line.
- Projected flows and reservoir storage at 7Q10 and D50 flow conditions.
- Estimated the total project cost with a breakdown.

PROJECT MANAGER:

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DAM INSPECTIONS FOR COOLFONT (LAKE SIRI) DAM

Coolfont Resort

Berkeley Springs, Morgan County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by Coolfont Resort to perform a dam inspection for the Coolfont (Lake Siri) Dam near Berkeley Springs, Morgan County, West Virginia. Lake Siri is a large recreational lake at the Coolfont Resort. The Lake Siri Dam is an earth fill embankment that has a dam height of approximately 23 feet and has a maximum capacity of 301 acre-feet, impounding Sir John Run, a tributary of the Potomac River.

POTESTA's services included:

- Submitted Freedom of Information Act (FOIA) request to the West Virginia Department of Environmental Protection Dam Safety Section (Dam Safety), and performed file reviews to obtain copies of past inspection reports, drawings, and other pertinent information available to obtain a better understanding of the dam.
- Met with client's representatives familiar with the dam to obtain additional information about the operation, maintenance, and history of the dam.
- Visited the site to conduct visual observation of the Dam's crest, upstream/downstream embankment slopes, abutment areas, and principal and emergency spillway structures to identify deficiencies and potential hazards.

POTESTA then prepared and submitted the dam inspection reports according to the Dam Safety Regulations. The report included visual observations made during the site visit, photographs, our opinions and conclusions relative to the condition of the dam, recommendations for correcting deficiencies and suggestions for future maintenance of the dam, and an engineer's certification statement.



PROJECT MANAGER:

Dana L. Burns, PE, PS

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dlburns@potesta.com



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FITZPATRICK LAKE WATER SOURCE

*Raleigh County Recreation Authority
Raleigh County, West Virginia*



The water source for maintaining a small impoundment at a Raleigh County Recreation Authority park facility was destroyed in July 2001 when flooding ravaged southern West Virginia. The water source was a dam on Piney Creek that diverted water into Fitzpatrick Lake. These two dam structures were remnants of a large lumber mill complex that operated at the site of the park in the early 20th century.

Potesta & Associates, Inc. (POTESTA) evaluated several options for reestablishing the water source, as well as contacting the federal and state environmental regulatory agencies regarding replacement of the dam on Piney Creek. With a favorable response from the U.S. Army Corps of Engineers and West Virginia Division of Natural Resources, POTESTA recommended the dam replacement, providing a preliminary design and cost opinion.

Subsequently, the Recreation Authority approved the study's recommendation and authorized POTESTA to develop construction documents and oversee construction.



PROJECT MANAGER:

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dlburns@potesta.com



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DAM INSPECTIONS FOR SLEEPY HOLLOW SUBDIVISION DAM

*Sleepy Hollow Lot Owner Association, Inc.
Berkeley County, West Virginia*

Potesta & Associates, Inc. (POTESTA) was retained by Sleepy Hollow Lot Owner Association, Inc. to perform several dam inspection intervals for the Sleepy Hollow Dam located in the Sleepy Hollow Subdivision in Berkeley County, West Virginia. Sleepy Hollow Subdivision is a 73-unit family housing development. The Sleepy Hollow Subdivision Dam is an earth fill embankment that impounds Cherry Creek, a tributary of the Potomac River.



The dam is 42 feet tall, has a surface area at normal pool elevation of approximately 7.3 acres, and impounds a maximum water volume of 93.2 acre-feet.

POTESTA's services included:

- Submitted Freedom of Information Act (FOIA) request to the West Virginia Department of Environmental Protection Dam Safety Section (Dam Safety), and performed file reviews to obtain copies of past inspection reports, drawings and other pertinent information available in order to obtain a better understanding of the dam.
- Met with Sleepy Hollow Lot Owner Association, Inc. representatives familiar with the dam, to obtain additional information pertaining to the operation, maintenance, and history of the dam.
- Visited the site to conduct visual observation of the Dam's crest, upstream/downstream embankment slopes, abutment areas, and principal and emergency spillway structures to identify deficiencies and potential hazards.

POTESTA then prepared and submitted dam inspection reports in accordance with the Dam Safety Regulations that included visual observations made during the site visit, photographs, our opinions and conclusions relative to the condition of the dam, and an engineer's verification statement certification.

PROJECT MANAGER:

Dana L. Burns, PE, PS

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dlburns@potesta.com



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HOLZ IMPOUNDMENT UPPER WARD IMPOUNDMENT LOWER WARD IMPOUNDMENT

*The Dow Chemical Company
South Charleston, West Virginia*

Potesta & Associates, Inc. (POTESTA) has been retained by The Dow Chemical Company (DOW) since 2005 to provide a variety of services on three DOW surface impoundments located in South Charleston, West Virginia. Lower Ward is reclaimed with a portion of the site currently used as a paved parking lot for the Kanawha Valley Community & Technical College. The Upper Ward Impoundment is a freshwater impoundment and the Holz Impoundment is utilized for fly ash disposal.

The following is a list of services provided by POTESTA:

- Annual/biannual inspections and professional engineer certification required by the West Virginia Department of Environmental Protection (WVDEP), Dam Safety Section.
- Preparation of permit modifications that are required as a result of changes required for the facility.
- Regular updates to the Monitoring and Emergency Warning Plan.
- Letter reports to the WVDEP, Dam Safety Section.
- Preparation of engineering plans for various projects, such as trash rack replacement, security systems, pipeline replacement and pipeline re-routing.
- Piezometer readings.
- Surveying services.
- Construction monitoring.



POTESTA has also provided DOW with other engineering, remediation, and environmental services. These include water and well sampling, soil/rubble risk assessment, geotechnical services, containment certifications, and pipeline permitting and design.

PROJECT MANAGER:

Jarrett M. Smith, PE

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APPENDIX A



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 the 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

Oversees the design and permitting of complex civil, environmental, geotechnical, and mining engineering projects. Expertise includes siting, design, and permitting of industrial and municipal waste disposal facilities; reclamation of abandoned mine lands; and development of comprehensive stormwater management plans and groundwater sampling programs. Conducts environmental and reclamation liability assessments and prepares site plans for commercial and industrial facilities, incorporating advanced hydrologic and hydraulic analyses. Provides expert witness testimony. Directs the engineering division, managing day-to-day operations of the headquarters and two branch offices, with responsibility for staffing, interoffice coordination, training, business development, and leadership of technical and support teams to ensure exceptional project delivery.

PROFESSIONAL EXPERIENCE

Civil/Site Design

Scott Lake Corporation – Principal-in-Charge for the analysis of Scott Lake's dam embankment and spillway to design and construct improvements to meet the West Virginia Department of Environmental Protection – Dam Safety Certificate of Approval in Beverly, West Virginia.

Raleigh County Recreation Authority – Principal-in-Charge for the design and construction monitoring for a new dam on Piney Creek adjacent to Lake Fitzpatrick Park in Raleigh County, West Virginia. The previous dam was washed out by flooding.

Raleigh County Recreation Authority – Principal-in-Charge for the evaluation of the dam on Piney Creek, which diverts water into Fitzpatrick Lake in Raleigh County, West Virginia. Developed several options to reestablish the water source and designed and oversaw the construction of a dam replacement.

West Virginia Conservation Agency/Eastern Panhandle Conservation District – Principal-in-Charge for dye testing to determine the potential source of a downstream seep that is below an earthen dam in Berkeley County, West Virginia.

Coolfont Resort – Principal-in-Charge for the dam inspection of the Coolfont (Lake Siri) Dam near Berkeley Springs, West Virginia.

Utility extension, site grading plans, stormwater management, roadway design, and permitting site development for residential subdivisions and commercial developments.

Dow Chemical Company – Principal-in-Charge performing engineering, remediation, and environmental services for three surface impoundments in South Charleston, West Virginia.

Geotechnical

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

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

West Virginia Department of Environmental Protection – Principal-in-Charge of Williamson Landslide Project involving an abandoned mine land site. Geotechnical exploration and design of a 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. The project was required to protect an existing 125-bed nursing home facility.

Hydrology and Hydraulics

City of Charleston – Hydrologic and hydraulic analyses of South Ruffner Watershed. The project analyzed various storm events and presented conceptual recommendations to reduce the effects of these storms.

U.S. Army Corps of Engineers, Jacksonville District – Determination of watershed areas along the Suwannee River Basin.



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come, Greeting

Know Ye That The State Board of Registration for Professional Engineers, of the State of West Virginia, reposing special confidence in the Intelligence, Integrity and Discretion of

Dana L. Burns

DOES, IN PURSUANCE OF AUTHORITY VESTED IN IT

by law, hereby certify that he, having submitted satisfactory evidence of his ability and experience, is a

REGISTERED PROFESSIONAL ENGINEER

Registration Number 9859

To Hold and use such title in the practice of his profession, subject to the conditions prescribed by law.



Given under the hand and the Seal of the Board at the Capitol in the City of Charleston, this 14th day of Sept. in the year of our Lord One Thousand Nine Hundred and Eighty-Five and of the State the One Hundred Twenty-Second

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

Secretary

Frank Gaddy

By

Robert S. Scott President

Wm. A. Fickens

Kenneth H. Means

DAVID B. SHARP, P.E.

Branch Manager/Senior Engineer



EDUCATION

M.S. Civil Engineering, 1995
West Virginia University

B.S. Civil Engineering, 1993
West Virginia University

EMPLOYMENT HISTORY

2003-Present Potesta & Associates, Inc.
2000-2003 CTL Engineering, Inc.
1997-2000 Potesta & Associates, Inc.
1994-1997 Terradon Corporation

PROFESSIONAL REGISTRATIONS

Professional Engineer – West Virginia, Pennsylvania,
Maryland, Ohio, and Kentucky

AREAS OF SPECIALIZATION

Experienced with many aspects of civil engineering with a special interest in geotechnical/environmental projects. Responsibilities have included civil/site design, geotechnical design, roadway engineering, and municipal water and wastewater design.

ABSTRACTS, PRESENTATIONS, AND MANUSCRIPTS

2018: Presenter for HalfMoon Education Inc. – Slope Stabilization and Landslide Prevention, Charleston, West Virginia.

PROFESSIONAL EXPERIENCE

Geotechnical

Responsible for the coordination of subsurface investigation, laboratory testing program, slope stability analysis, and preparation of design documents associated with the repair of landslides at various sites throughout West Virginia. Representative designs have included soldier beam and lagging retaining walls, gabion basket retaining walls, segmental block retaining walls, rock toe keys and buttresses, slope stabilization, and drainage improvements.

- Wentz Freshwater Impoundment Embankment Stability Repair – Barbour County, WV
- Upper Grave Creek Dam Landslide Repair – Cameron, WV
- Wheeling Creek #7 Dam Landslide Repair – Triadelphia, WV
- Pond #3 Irrigation Impoundment – Reedsville, WV

Civil/Site Design

Project Manager/Engineer on projects involving most aspects of site development, including student housing, retail/commercial spaces, institutional buildings, residential subdivisions, and municipal projects. Involvement has included civil/site design of utilities and transportation, geotechnical aspects, hydrology and hydraulics, permitting, erosion and sediment control/permitting, etc.

- Davis & Elkins College
- City of Buckhannon
- Appalachian Hotel
- Citizens Bank
- Miners & Merchants Bank
- Dental Spa
- Multiple Private Developers
- Town of Granville
- Trinity Christian School
- West Virginia University



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come, Greeting.

Know Ye That The State Board of Registration for Professional Engineers, of the State of West Virginia, reposing special confidence in the Intelligence, Integrity, and Discretion, of

David B. Sharp

DOES, IN PURSUANCE OF AUTHORITY VESTED IN IT

by law, hereby, certify that he having submitted satisfactory evidence of his ability and experience, is a

REGISTERED PROFESSIONAL ENGINEER

Registration Number 14187

To Hold and use such title in the practice of his profession, subject to the conditions prescribed by law.



Given under the hand and the Seal of the Board at the Capitol in the City of Charleston this 28th day of July in the year of our Lord One Thousand Nine Hundred and Ninety-nine and of the State the One Hundred Thirty-sixth.

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

Ed. Beckley

Frank H. Naddy

Leafe S. Johnson

Wm. Paulman

EVERETT E. MULKEEN, P.E.

Senior Engineer

EDUCATION

- M.S. Civil/Environmental Engineering, 2012
Carnegie Mellon University
- B.S. Civil Engineering, 2010
West Virginia University

EMPLOYMENT HISTORY

- 2013-Present Potesta & Associates, Inc.
2010-2011 WVU/U.S. DOE NETL

PROFESSIONAL REGISTRATIONS

Professional Engineer – West Virginia, Maryland, and Pennsylvania

PROFESSIONAL CERTIFICATIONS

Troxler Moisture – Density Gauge

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers

HONORS

- Summa Cum Laude (M.S.)
- Magna Cum Laude (B.S.)

AREAS OF SPECIALIZATION

Stormwater management design and permitting; water/wastewater treatment systems; drinking water system improvements; source water protection plans; geotechnical evaluations; and permitting.

PROFESSIONAL EXPERIENCE

Civil/Site Design

Friends of Cheat – Development of the Preston Trailhead located outside of Kingwood in Preston County, West Virginia, on a 17.5-acre parcel of a former coal preparation plant. The recreational facility included the design/construction of an entrance road, parking lot, utilities, stormwater infrastructure, river access, landscaped green space, and other public-use amenities

including lighting, picnic areas, signage, and waste receptacles.

Friends of Deckers Creek – Develop a management plan to inventory, evaluate, and reduce pollutant loads in lower Deckers Creek from stormwater runoff impacts, including evaluating twenty (20) Combined Sewer Overflows (CSOs) and other fecal coliform sources.

Jefferson County Visitors Bureau Center – Stormwater collection/detention system on <1-acre site renovation.

Source Water Protection Plans

WVDHHR BPH - Preparation of source water protection plans (SWPPs) for nineteen (19) Surface Water Influenced Groundwater (SWIG) drinking water utilities in the Ohio River Valley of West Virginia. Project included development of GIS-based mapping of the Source Water Protection Area (SWPA) and Potential Sources of Significant Contamination (PSSC); forming a source water protection team comprised of local stakeholders; prioritizing PSSCs and developing management strategies; leading source water protection meetings; preparation of final SWPP; presenting the SWPP at a public forum. In addition, Contingency Plans and Single Source Feasibility Studies were completed for each water system.

Region VI Planning & Development Council – Preparation of source water protection plans (SWPPs) for eight drinking water utilities in Northern WV. Project included development of GIS-based mapping of the Source Water Protection Area (SWPA) and Potential Sources of Significant Contamination (PSSC); forming a source water protection team comprised of local stakeholders; prioritizing PSSCs and developing management strategies; leading source water protection meetings; preparation of final SWPP; and presenting the SWPP at a public forum.

Geotechnical

CA Ventures, WVU Housing – Completion of eight test borings, associated laboratory testing, and geotechnical recommendations for a combined shallow and deep foundation system for a proposed 13-story student housing project in downtown Morgantown, West Virginia.

EQT, Ohio River for Horizontal Directional Drilling (HDD) – Completion of 35 test borings, associated laboratory testing, and geotechnical recommendations at

three sites in Ohio and West Virginia relating to a proposed pipeline and transmission pad projects.

American Campus Communities, Sunnyside Commons – Completion of 23 test borings, associated laboratory testing, geotechnical recommendations, civil site design, surveying, and construction phase geotechnical consulting/testing for a 5.4 Acres high-density student housing project in downtown Morgantown, West Virginia.

MSES Architects/Marion County Board of Education, Marion County Technical Center – Completion of 11 test borings (indoor), associated laboratory testing, geotechnical recommendations, and construction monitoring/testing for a pyrite remediation project at the Technical Center due to heave damage to load bearing walls, footers, and slab floors.

Glenmark Holding, LLC, Greenbag Road Development – Completion of four borings, laboratory testing, geotechnical recommendations, civil site design, surveying, stakeout, and construction consulting on a commercial development in Morgantown, West Virginia.

EQT, Gemini Compressor Station and Interconnect – Completion of 11 borings, laboratory testing, wetland delineation, mine mapping/research, and preliminary geotechnical recommendations for a proposed compressor station and interconnect in Harrison County, West Virginia.

MEPCO, Marshall Portal – Completion of nine borings and installation of one inclinometer, associated laboratory testing, geotechnical recommendations, and slope stability monitoring/analysis at a deep mine shaft site to assist with stabilization of mine portal pad and access road near Mount Morris, Pennsylvania.

EQT, Harrison County HDD – Completion of four borings, associated laboratory testing, and geotechnical recommendations for a proposed horizontal directional drill project underneath the West Fork River in Harrison County, West Virginia.

Town of Granville – Completion of five borings, laboratory testing, geotechnical recommendations, civil site design, contract document preparation, and construction monitoring/testing for the Bowser Street Landslide Repair in Granville, West Virginia.

MEPCO, 4West AWT Plant Geotechnical – Completion of five borings, laboratory testing, geotechnical recommendations, and foundation analysis for a proposed reverse osmosis treatment plant at the 4West Deep Mine near Mount Morris, Pennsylvania.

MEPCO, Renner Portal Geotechnical – Completion of eight borings, laboratory testing, and geotechnical recommendations for a proposed mine portal and access road near Mount Morris, Pennsylvania.

Stone Energy, Weekly Pad – Completion of several subsurface borings, laboratory testing, geotechnical recommendations, and installation of an inclinometer to monitor slope stability/movement at a natural gas well pad in Wetzel County, West Virginia.

Greer Industries, Cheat River Quarry – Completion of several subsurface borings, laboratory testing, geotechnical recommendations, civil site design, and construction monitoring/testing for the landslide repair and drainage improvements at a limestone mine/quarry in Preston County, West Virginia.

Huntington Sanitary Board, North Edgemont Road Landslide – Completed subsurface exploration, installation of six inclinometers to monitor the slope stability and overall movement of the slope, laboratory test/inclinometer data evaluation, as well as worked with the Huntington Sanitary Board and community to evaluate possible stabilization options.

JARRETT M. SMITH, P.E.

Senior Engineer



EDUCATION

- B.S. Civil Engineering, 2002
West Virginia University Institute of Technology
- A.S. General Science, 2000
West Virginia University

EMPLOYMENT HISTORY

- 2003-Present Potesta & Associates, Inc.
- 2001-2002 WV Dept of Transportation District 3-
Design/Field Inspector

PROFESSIONAL REGISTRATIONS

Professional Engineer – West Virginia

SERVICE ON BOARDS AND COMMISSIONS

WV Society of Professional Engineers Board Member

AREAS OF SPECIALIZATION

Management and oversight of civil engineering projects with services related to surveying, geotechnical exploration, planning, design, permitting, and construction monitoring. Project categories include oil and gas pipeline permitting, oil and gas well pads, residential, commercial, and industrial development, stormwater management facilities, and solid waste landfills.

Project responsibilities include civil site design, hydrologic and hydraulic design, grading plans, water line plans, sewer line plans, roadway layout, utility design, development of technical specifications, preliminary cost estimates, schedule, and budget tracking.

PROFESSIONAL EXPERIENCE

Water Resources

Dow Chemical Company – Project Manager for performing engineering, remediation, and environmental services for three surface impoundments in South Charleston, West Virginia.

Floodplain Management – Tasks included the development of hydraulic modeling of watersheds for existing and proposed conditions using HEC-RAS and HEC-HMS to determine flood levels and the impact on the properties of residents, oversight of surveying, and mapping development. The project's scope included fill within the Special Flood Hazard Areas (SFHA), residential and commercial development within SFHA, obtaining the original computer model of floodplain data from the United States Army Corps of Engineers (USACE), and coordination with the local floodplain manager, FEMA, and USACE—preparation of permit application packages for FEMA's LOMA, CLOMR-F, and LOMR application submittals.

- Multiple Private Developers – Apartments, townhouses, subdivisions
- Industrial Facility Expansion
- Institutional Building – Revised Floodway Project
- Industrial Client – Low Water Crossing

Stormwater Management Design – Tasks include hydrological analysis, hydraulic evaluations of open and closed channel flow systems, storm sewer design, velocity dissipation analysis and design, stormwater retention/detention design, water quality analysis and design, and sediment control structure design. Programs utilized during projects included Haestad Method Programs and SedCad Software.

- Multiple Private Developers – site development for industrial, business, and residential projects
- Municipality Site Development Projects
- Industrial Process/Sediment/Oil Controls Ponds



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the Intelligence, Integrity and Discretion of

Jarrett M. Smith

DOES IN PURSUANCE OF AUTHORITY VESTED IN IT
by law hereby certify that he having submitted
satisfactory evidence of his ability and experience is a

REGISTERED PROFESSIONAL ENGINEER

Registration Number 17537

(To Hold) and use such title in the practice of his profession,
subject to the conditions prescribed by law.



Given under the hand of the
Seal of the Board at the Capitol in the
City of Charleston,
This 20th day of December
in the year of our Lord 2007
and of the State
the One Hundred Forty-Fourth

Members of the Board

Edward D. Timmons, Jr. Richard E. Dignas

Blayne S. Seliga William E. Viersen

TIMOTHY M. RICE, EIT

Senior Engineer

EDUCATION

B.S. Civil Engineering, 1982
West Virginia University

EMPLOYMENT HISTORY

2014-Present Potesta & Associates, Inc.
2006-2014 Hatch Mott MacDonald
1987-2006 CTL Engineering
1978-1987 George E. Pigott & Associates

PROFESSIONAL REGISTRATIONS

Engineer in Training – West Virginia

TRAINING/RELEVANT COURSE WORK

Natural Stream Channel Design Levels I-IV

AREAS OF SPECIALIZATION

Diversified experience with civil, environmental, surveying, and geotechnical engineering projects for public, state, and private clients with an emphasis on project management and coordination of engineering services and environmental services, including permitting and compliance, hydraulic and hydrological analysis, slope stability analysis, geotechnical design, Phase I Environmental Site Assessments, stormwater management, municipal water and sewer design, civil site design, water resources analysis/design, natural gas production well pads and roads, and construction monitoring/observation.

PROFESSIONAL EXPERIENCE

Civil/Site Design

Lake Floyd Homeowners – Senior Engineer on dredging project for remediation of lake sedimentation at Lake Floyd in Harrison County, West Virginia. Project includes wetland and stream delineations, Section 404 Permitting, sediment disposal area design, and coordination of the most cost-effective method for construction.

Mills Group – Project Manager for civil site design project at Davis and Elkins College in Elkins, West

Virginia, for the site development and permitting associated with a proposed amphitheater on campus.

Glenmark Corporation – Project Manager for the Greenbag Road project that included surveying, mapping, geotechnical investigations and recommendations, Phase I Environmental Site Assessment, permitting, civil site design, and stormwater management.

Town of Granville – Project Manager for the Bowser Street Landslide Repair project that included surveying, mapping, geotechnical investigations/recommendations, preparation of bid documents, contractor selection, and construction oversight.

Town of Granville – Project Manager for various engineering projects, including surveying, street repaving, stormwater system evaluation, camera surveys, traffic studies, and mapping projects.

Harrison County Planning Commission – Project Manager responsible for the coordination and design of Phases 1 – 3 of the Rail Trail Project in Harrison County, West Virginia. The project included engineering design, modeling, permitting, and construction observation services.

Little Kanawha Conservation District/WV Conservation Agency – Project Manager for design recommendations for a proposed debris control structure near the North Fork of Hughes River Watershed multi-purpose dam at North Bend Lake in Ritchie County, West Virginia.

West Virginia Department of Environmental Protection, Blackwater River Beaver Creek Treatment Project – Project Manager responsible for the rehabilitation of an existing concrete dam, the installation of rotating drums, and a limestone slurry treatment facility on the Blackwater River in Tucker County, West Virginia. This was a cooperative project with WVDEP and WVDNR and has been recognized by “Trout Unlimited” and “Outdoor Life”. This project has successfully transformed a formerly dead section of the Blackwater River into a high-quality trout fishery and was recognized by the US Department of the Interior, Office of Surface Mining, as the 1999 Appalachian Region Award Winner.

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 American Military Engineers

AREAS OF SPECIALIZATION

Geological and geotechnical engineering expertise in subsurface exploration, soil and rock slope stability analysis, landslide investigation, and foundation system design. Experienced in surface and subsurface hydrogeology, including evaluations of ground subsidence, contaminant transport, and groundwater flow modeling. Proficient in the layout and design of site development projects, incorporating grading, drainage, and foundation considerations to ensure stability and long-term performance.

PROFESSIONAL EXPERIENCE

Civil/Site Design

Scott Lake Corporation – Project Manager for the analysis of Scott Lake’s dam embankment and spillway to design and construct improvements to meet the West Virginia Department of Environmental Protection – Dam Safety Certificate of Approval in Beverly, West Virginia.

ZMM Architects & Engineers – Project Manager for the site design and permitting of a new 300,000 square-foot consolidated laboratory facility on a 10.5-acre site within the West Virginia Regional Technology Park in South Charleston, West Virginia.

FP Marshall, LLC – Project Manager for the site design, geotechnical engineering, construction observation, and field-testing services for the construction of the new 78,000 SF Brad D. Smith Center for Business and Innovation at Marshall University. The new three-story steel frame and masonry structure was constructed along 4th Avenue west of the main campus in Huntington, West Virginia.

Double C Enterprises – Project Manager for the site design, permitting, geotechnical design, and construction survey stakeout services for a ≈65-acre business park in Kenna, West Virginia.

South Charleston Development Authority – Design Engineer/Geotechnical Engineer for the engineering and site design for the development of Park Place, a 500,000-square-foot retail, entertainment, and food/beverage development on a 38-acre former fly ash disposal and former manufacturing plant in South Charleston, West Virginia.

- Topographic mapping and aerial photography
- Geotechnical engineering for the characterization of fly ash material and natural soils and evaluation of consolidation of the fly ash for structural fill.
- Plan development to remove 900,000 cubic yards of soil and rock from a borrow site to use as fill for the development.
- Permitting, including landfill/National Pollutant Discharge Elimination System permit, construction stormwater permits, and West Virginia Dam Safety permit.
- Design and construction of new emergency spillway, sanitary sewer, storm sewer, water, gas, communications, electric, and lighting.
- Drainage and roadway design
- Construction phase services include assistance with contractor bidding of the project, evaluation of bids, and construction monitoring.

Tucker County Industrial Park – Design Engineer/Geotechnical Engineer for the design of a new 162-acre industrial park along WV Route 93 near Davis, West Virginia. Scope of services included the design of water and sewer lines, stormwater management, roadways, and pavement, the development of a site grading plan, master plan, and geotechnical exploration/foundation recommendations.

Stonerise Healthcare – Project Manager for geotechnical evaluation and site development services for a ≈38,000-square-foot addition to the existing Eastbrook Facility in Charleston, West Virginia.

Geotechnical Engineering

Marshall University – 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 the development of a subsurface exploration program, soil/rock sampling, testing program, and preparation of a final geotechnical report.

Travelers Insurance/City of Charleston – The 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 a paved roadway in an existing residential neighborhood. 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.

Kanawha County Schools – Geotechnical engineering, construction observation, and field-testing services for the site development, utility installation, and bidding construction efforts related to the new Clendenin Elementary School in Clendenin, West Virginia. The project included the construction of a new 0.7-mile access roadway to the elementary school site, site preparation of a new building pad, and the construction of a new 65,000 SF structure.

Marshall University – Geotechnical engineering, construction observation, and field-testing services for the site grading and construction phases of the new Jack Cook Field baseball stadium at Marshall University. The selected site, north of 3rd Avenue in Huntington, West Virginia, was a former industrial complex that was remediated through the West Virginia Voluntary Remediation and Redevelopment Act (VRRRA) program. Observation and documentation of the earthwork aspects of this project included the removal and placement of potentially impacted soil materials to prescribed areas of the site that were consistent with the VRRRA Plan.