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EXPRESSION OF INTEREST FOR PROFESSIONAL ENGINEERING DESIGN SERVICES AND CONSTRUCTION MONITORING SERVICES FOR THE KINGWOOD ROUTE 7 HIGHWALL DESIGN PROJECT RFQ NO. DEP14793

Prepared for:

West Virginia Department of Environmental Protection

Department of Environmental Protection
Office of Abandoned Mine Lands and Reclamation
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Project No. 0101-09-0423

RECEIVED

September 22, 2009

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APOTESTA



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EXPRESSION OF INTEREST FOR PROFESSIONAL ENGINEERING DESIGN SERVICES AND CONSTRUCTION MONITORING SERVICES FOR THE KINGWOOD ROUTE 7 HIGHWALL DESIGN PROJECT RFQ NO. DEP14793

1.0 QUALIFICATIONS

1.1 Corporate History and Experience

Potesta & Associates, Inc. (POTESTA) proposes to provide professional engineering design services and construction monitoring services to the West Virginia Department of Environmental Protection, Office of Abandoned Mine Lands & Reclamation (WVDEP, AML). These services will consist of attendance at pre-bid and pre-construction conferences, construction monitoring, providing an updated revised Engineer's Cost Estimate, review of plan and specification and other miscellaneous services as may be required for the Kingwood Route 7 Highwall Design Project located in Preston County, West Virginia. The project will consist of:

Site 1

• Utilizing the existing on-site spoil to eliminate the highwall and regrade to approximate original contour.

Site 2

- Regrading refuse piles to stable grades and slopes. Covering with soil material and revegetating.
- Installing bat gate mine seals in the open portals and wet line seals in the collapsed portals.
- Constructing drainage control channels as necessary to collect and convey mine drainage safety off-site.

POTESTA is an engineering and environmental consulting firm providing professional services to deliver innovative, cost-effective solutions to complex problems. Our firm is multi-disciplinary and has a diversified practice covering engineering (civil, chemical, environmental, geotechnical, mechanical, and mining), permitting, site characterization and remediation, and general environmental consulting. Civil/site and geotechnical engineering are areas of extensive expertise at POTESTA. We have worked on numerous large projects (university dorms to power plant foundations) throughout the region. Our 15 registered professional engineers have over 250 years of

experience among them and are supported by a large group of engineers, designers, surveyors and a landscape architect. Regulatory liaison and environmental compliance are areas of exceptional strength for POTESTA as the President of the company is a former director of the West Virginia Department of Natural Resources, and a Vice President is a former director of the West Virginia Division of Environmental Protection.

Our clients include state, local, and federal government agencies, mining companies, manufacturers, utility companies, waste management companies, chemical companies, architects, attorneys, financial institutions, insurance companies, land developers, and construction companies.

We carry a full line of insurance coverage including general liability, errors and omissions, and workers' compensation; Insurance and Workers Compensation Certificates are included in **Appendix A**. We also have quality control procedures to assist in providing our clients with quality projects.

POTESTA offers the following professional services.

- ► 404 Permit Preparation and Negotiation
- Acid Mine Drainage Control
- ► Asbestos Inspection
- Benthic and Biological Studies
- CADD Services (AutoCAD 2007, Various Software Design Packages, Digitizing and Plotting)
- ► Chemical Engineering
- ► Civil Engineering
- ► Clean Air Act Compliance
- Construction Monitoring
- ► Corporate Environmental Management
- Design of Slurry Impoundments and Refuse Disposal Sites
- ► Dewatering Plans
- ► Environmental Engineering
- Environmental Impact Studies
- Environmental Site Assessments
- Environmental Audits
- ► Environmental Engineering
- Erosion and Sedimentation Control Plans
- Expert Witness and Litigation Support
- ► Feasibility Studies
- ► Foundation Design
- Geological Services
- ► Geotechnical Engineering
- Ground and Surface Water Sampling
- Groundwater Investigation and Remediation
- Groundwater Protection Plans
- Hazardous Waste Management
- Hydrologic and Hydraulic Evaluations

- ► In-Situ and Ex-Situ
 Biostimulation/Bioaugmentation
- Landfill Design and Land Use and Natural Resource Planning
- ► Landfill Closure Plans
- Land Use and Natural Resource Planning
- Mining Engineering
- Multimedia Sampling (Air, Fly Ash, Rock, Soil, Water)
- Pollution Prevention and Waste Minimization Planning
- Permitting (Air, FERC, Fly Ash Haulback, Mining, NPDES, Quarry and Solid and Hazardous Waste)
- Post Reclamation Land Uses
- Pre-Blast and Pre-Subsidence Surveys
- Preparation of Construction Documents (Calculations Brief, Construction Drawings, Contractor's Bid Sheet, Engineer's Cost Estimate, QA/QC Manual and Technical Specifications)
- Reclamation Design and Planning
- Reclamation Liability Assessments
- Regulatory Liaison Services
- Risk-Based Environmental Assessment
- ➤ SARA Title III, TIER II and Form R Inventory and Reporting
- Sewer Line Design
- Site Characterization and Remediation Planning
- · Site Design/Planning
- Soil Science/Agronomy
- Spill Prevention Control and Countermeasure Plans

- ► Stabilization and Closure of Waste Impoundments
- Stormwater Management and Permitting
- Stream Benthic Macro-Invertebrate Surveys and Toxicity Evaluations
- Stream and Water Restoration
- ► Subsidence Studies
- ► Subsurface Investigations
- Surface and Groundwater Monitoring, Statistical Analysis and Reporting
- Surveying (Traditional and Global Positioning System)

- UST Closure and Site Remediation
- UST Installation Monitoring
- Waste Facility Permitting and Design
- Waste Disposal Design
- Water Line Design
- ► Water/Wastewater Treatment Design
- Wetland Investigation and Delineation, Mitigation Design and Monitoring

POTESTA has the following staff in our Charleston, West Virginia office:

- 16 Engineers, Including 11 Professional Engineers
- 19 Scientists (Biologists, Ecologists, Environmental Scientists, Etc.)
- 3 Geologists/Hydrogeologists/Geological Scientist
- 1 Hydrologist
- 10 Surveyors
- 6 CADD Operators/Designers
- 7 Technicians/Construction Monitors
- 2 Chemists
- 23 Support and Other Staff

POTESTA, since starting in 1997, has grown to over 100 employees in three offices. Included are 15 registered professional engineers (R.P.E.'s), three registered professional licensed land surveyors (P.L.S.'s), one registered professional geologist, and two PhD's whose specialties include aquatic biology and water quality. POTESTA has assembled a team that has historically served WVDEP, AML on numerous AML projects. In fact our staff has worked on over 75 AML projects for WVDEP (and more in other states) on four different WVDEP, AML contracts dating back into the mid 1980's. We have an ongoing workload with WVDEP, AML.

POTESTA will perform the work for this project from our Charleston, West Virginia office. Our proximity to WVDEP's Charleston office will facilitate immediate response to your needs and allow meetings to be attended within minutes notice; in addition, we can draw upon support from our Morgantown office which also has experience with AML projects. POTESTA emphasizes that we will make a priority commitment to this project.

POTESTA has completed projects involving Civil, Structural, Geological, Hydrological and Reclamation Engineering; Land Use and Natural Resource Planning; Soil Science/Agronomy; Hydrology/Geology; Stream and Water Restoration; and Post Reclamation Land Uses. We also have open ended statewide contracts with the West Virginia Division of Highways (WVDOH) for survey services and asbestos inspection services. In addition, we have the preeminent staff in West Virginia for addressing issues regarding water quality and regulatory issues since (a) two of our principals are former heads of the state environmental regulatory agency and one was also chief of the water quality regulatory agency, and, (b) we have several PhD's and others with degrees whose specialty is water

quality. As a result, POTESTA will provide the required expertise to complete this AML project in a timely, economical, and efficient manner.

POTESTA has assembled a successful team of employees that have historically worked on WVDEP, AML projects. In fact, our staff has 100+ years experience working on WVDEP, AML projects and AML projects in other states. Our staff's direct knowledge of the AML program guidelines and personnel, our familiarity with the applicable state regulations, and our commitment to success will benefit WVDEP, AML.

POTESTA has 10+ employees with experience on WVDEP, AML projects. POTESTA employees have worked on and have experience in the following WVDEP, AML projects:

- ♦ Assessment of Contamination (e.g., PCB's, asbestos)
- ♦ Demolition of Structures
- Diversion of Stormwater
- ♦ Identifying and Controlling Acid Mine Drainage
- ♦ Landslides
- Mine Fires
- ♦ Passive Acid Mine Drainage Treatment
- ♦ Reclamation of Refuse Piles
- ♦ Sealing Mine Portals
- ♦ Stream Relocations
- ♦ Subsidence Assessment and Remediation
- ♦ USCOE Permitting
- ♦ Water Line Design
- ♦ Water Supply Feasibility Studies and Design
- ♦ Inventory of Residential Water Supplies
- ♦ Wetland Assessments

POTESTA has completed several AML projects and projects similar to a WVDEP, AML type project. These include water line design and construction administration and observation, design and permitting of refuse piles and slurry impoundments, evaluating mine drainage from pre-SMCRA sites, reclamation designs for WVDEP, LCAP, landslides, stream monitoring, development of grading plans, mine reclamation liability assessments, watershed assessments including evaluation of impact from AMD including AMD from pre-SMCRA sites, detention pond designs, wetland studies, mine site design and permitting and design of numerous storm water structures.

Appendix B contains the executed Request for Quotation form and Purchasing Affidavit form.

The following describes POTESTA's qualifications for the surveying, aerial mapping, subsurface exploration, and laboratory services necessary for this project:

POTESTA proposes to utilize our own survey crews on this project. POTESTA will perform all of the surveying required for this contract using in-house personnel. POTESTA has three licensed professional surveyors with over 40 years of combined surveying experience. Our surveyors are experienced in all aspects of surveying such as topographic mapping, boundary and property surveys, and construction surveys for layout of work, record drawings, and quantity measurements.

POTESTA's surveyors use state-of-the-art "Field to Finish" equipment such as total station instruments, data collectors, AutoCAD 2008, Autodesk Land Desktop 2007 and Autodesk Civil 3D 2008 design software, computer hardware for data management, and a Hewlett Packard Designjet 5500 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.

POTESTA utilizes state of the art computers and hardware, networked through Windows NT, for interfacing of drafting and surveying departments. Thus, drawing and surveying data files can be shared efficiently.

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

Additional information on POTESTA's corporate history and experience is included in the AML Consultant Confidential Qualification Questionnaire included in **Appendix C**.

1.2 Experience, Qualifications, and Performance Data of Primary Staff

Primary staff POTESTA commits to this contract and their roles are as follows:

Mr. Dana L. Burns, PE, Vice President at POTESTA, will serve as principal-in-charge for this project. Mr. Burns has served as project manager or principal-in-charge on three open end contracts for WVDEP, AML from 1986 through 1997 totaling over 65 projects. In addition, Mr. Burns has served as the principal-in-charge for four other WVDEP, AML projects since 2003. Mr. Burns' experience includes 30 years of civil and environmental engineering and related projects including water line extensions, sealing portals, regrading refuse, site assessments, mine fires, preliminary feasibility evaluations, detailed design, and preparation of construction drawings, specifications, and bid documents. Mr. Burns will ensure that the AML workload is properly supported.

Messrs. Mark Kiser, P.E., and Terence Moran, P.E., will serve as a project manager/design team leader. Mr. Kiser has served as a project manager/project engineer for over 35 AML projects in West Virginia. Mr. Kiser has 25 years experience in civil and environmental engineering projects including evaluation, design, preparation of plans and specifications, and construction administration. He has worked on over 65 AML projects as well as extensive experience with the coal industry. Mr. Kiser performs constructability reviews on our projects during and after design.

Mr. Kiser is currently POTESTA's project manager for POTESTA's WVDEP, LCAP contract. Mr. Moran has served as project manager/project engineer or assisted with over 60 AML projects in West Virginia and Virginia. Mr. Moran has 20 years experience in civil and environmental engineering projects, including evaluation, design, preparation of plans and specifications, and construction administration. Mr. Moran has co-authored multiple papers, including one on the abatement of AMD at the Omega Mine site and another on evaluating AMD of AML sites during preaquisition site assessments. Messrs. Kiser and Moran have worked on AML projects that addressed such technical issues as AMD, sealing portals, regrading refuse, diverting stormwater, landslides, subsidence and water supply. Messrs. Kiser and Moran are both familiar with requirements of AML projects and will ensure that WVDEP is satisfied with POTESTA's work by ensuring that proper QA/QC and timeliness are adhered to.

NOTE: Since POTESTA has 15 professional engineers (P.E.), a combined significant track record with AML projects, POTESTA believes it can handle a substantial AML workload. Hence, POTESTA can adequately staff the Kingwood Route 7 Highwall Design Project. POTESTA can assign an additional four design teams to other AML projects if asked to do so.

POTESTA has four other P.E.s with AML and related design experience in Messrs. Vince Ammirato, Bill Drinkard, Patrick Ward, and Ryan McGlothen, who will also serve as design team leaders. Their individual experiences and capabilities are discussed in further detail later in this section and in **Appendix D**.

In addition to the design team leaders, POTESTA has an additional project manager/project engineer in Mr. Chris Grose who has worked on numerous WVDEP, AML projects. Mr. Grose will serve as POTESTA's geotechnical scientist for work on this contract. Mr. Grose currently oversees aspects of geotechnical work at POTESTA and worked on WVDEP, AML projects from 1990 to 1997. Mr. Grose will evaluate slope stability issues with respect to regraded coal refuse, landslide abatement, or other steep slope applications.

Abbreviated personal history statements of primary staff and more detailed descriptions of staff experience are presented in the AML Consultant Confidential Qualification Questionnaire in **Appendix C**, and the AML and Related Project Experience Matrix in **Appendix D**.

1.3 Experience, Qualifications, and Performance Data of Other Staff

POTESTA has a staff of over 100 technical and support personnel. Combined with our team of highly experienced subcontractors, POTESTA is exceptionally well suited to: (1) complete surveying and mapping; (2) perform geotechnical services including subsurface exploration and laboratory analysis; (3) design drainage diversion structures such as mine seals, reinforced concrete caps over vertical openings, channels and culverts, perform regrading plans for the refuse areas, and design dewatering plans, if necessary; (4) develop engineering drawings, contract specifications, permit applications and other contract documents; and (5) attend a pre-bid meeting and

preconstruction conference as may be required for the Kingwood Route 7 Highwall Design Project. POTESTA can conduct all design engineering work required for this project with present personnel.

POTESTA's project managers will be supported by a team of engineers, scientists, surveyors, hydrologists, geologist/hydrogeologists, biologists, CADD operators, and other support personnel from POTESTA's staff. Included are geotechnical scientists and geotechnical engineers such as Mr. Chris Grose and Mr. Patrick Ward, P.E., who have both worked on numerous AML projects in the early to mid 1990's; project engineers such as Daniel Lipscomb, P.E., Ryan McGlothen, P.E., Robert Ammirato, E.I.T., Jarrett smith, P.E., and Kenneth Kinder, P.E.; Mr. Vince Ammirato, P.E., a civil engineer with an emphasis in structural engineering who has extensive experience in design of reinforced concrete and steel structures; Mr. Bill Drinkard, P.E., a mining engineer whom has worked on numerous projects involving earthwork, site drainage, AMD, mine land reclamation, calculations, plans and specifications and construction administration; Mr. Denny Kohler, an environmental scientist who was in charge of surface mine reclamation for a major coal company for 18 years and has prepared numerous reclamation plans including reclamation of a coal waste impoundment in Kanawha County; Mr. Victor Dawson, P.L.S., who has worked on developing mapping or performing construction layout on projects dating back into the late 1980's; and POTESTA's team of CADD Operators whom have also worked on AML projects.

Abbreviated personal history statements of key personnel are presented in the AML Consultant Confidential Qualification Questionnaire presented in **Appendix C**. Additional information is included in Section 1.4 "Management Plan and Location of Facilities."

Our corporate and staff's experience involves civil (including water supply systems), structural, geological, hydrological, environmental, mining, geotechnical, and reclamation engineering; land use and natural resource planning; soil science/agronomy; hydrology/geology; surface/underground coal mining; environmental and ecological principles in land reclamation, stream and water restoration, and post reclamation land uses; and contract administration. Our capabilities, qualifications and expertise in design of AML projects are further exemplified in **Appendix E - Service Briefs** and **Appendix F- Project Abstracts**.

POTESTA provides multi-disciplinary services and can perform all of the professional services required under this contract.

1.4 Management Plan and Location of Facilities

Management Plan

POTESTA's proposed project organization chart including key staff and subcontractors is shown by Figure 1 in **Appendix G**. Work will be performed at POTESTA's Charleston, West Virginia office or on-site as may be required. Our Charleston location is convenient with respect to WVDEP's Charleston office; the effort will be supported by our Morgantown office if needed.

POTESTA's professional, technical, and support staff have extensive experience on water supply and WVDEP, AML projects. We are well qualified to serve WVDEP on this project. We stand ready to commit the personnel and resources required to complete this project in a timely, technically sound, and cost-efficient manner. POTESTA's large staff size will allow us to work on this project on an accelerated schedule if necessary.

As shown by Figure 1 in Appendix G, POTESTA's principal-in-charge will be responsible for contract management (administration) and shall coordinate and direct all aspects of the project. The principal-in-charge will review the proposed project, assign a project manager, assemble a project team and appoint key staff to develop a proposed scope of work. The principal-in-charge and project manager will visit the site with WVDEP, AML to review site conditions and the proposed services to be completed and guide the preparation of a detailed proposal and cost estimate. A written proposal including a detailed scope of work and an associated manhour and cost estimate will then be prepared and submitted to WVDEP, AML for review. The project manager will review the proposal with the WVDEP, AML including a task-by-task discussion of work items and the related costs. Upon WVDEP, AML'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 WVDEP, AML. Mr. Dana Burns, P.E. will serve as the principal-in-charge on this project. Day-to-day project activities for this project will be performed under the direction of our project manager, Mr. Mark Kiser, P.E. Mr. Terence Moran, P.E. will serve as a "backup" project manager for quality assurance/quality control. The project manager will develop a detailed step-by-step project work plan so that the project activities are completed in a correct manner, on-budget, and on-time. They will also review work products at intermediate points and prior to project completion. They will conduct project status reports which may include weekly meetings, memos, or telephone calls with the WVDEP, AML project manager as required. The project manager will supervise the day to day work in progress, will coordinate with POTESTA's subcontractors to provide necessary services, and review work products at intermediate points and prior to submittal to the WVDEP, AML.

POTESTA will utilize the appropriate classification of staff to conduct activities required for the project. Our large, experienced staff allows us to respond quickly, provides flexibility, and will provide for the opportunity of high level input from in-house experts on complex multi-disciplinary projects. Our normal method of staffing projects is to assign a small project team with total responsibility for completion of the work to the client's satisfaction and budget. Where necessary, the team can draw on the expertise available within POTESTA's large staff. POTESTA offers a large staff with the efficiency and rates normally associated with a small firm.

WVDEP, AML has indicated that 45 days are required for submittal of deliverables for the Kingwood Route 7 Highwall Design Project. We stand ready to meet your time frame. We can provide up to four design teams to complete the required engineering services with an additional two design teams as "backup" to be utilized if needed. The assignment tasks are noted on the design team descriptions on Figure 1 in **Appendix G**. If needed, we can accelerate your schedule.

Project Budget Control

The project manager will be responsible for monitoring the project budget and keeping the principal-in-charge informed of its status. POTESTA's staff enters time into POTESTA's Timetrax computer system on a daily and/or weekly basis. POTESTA's project managers can access Timetrax at any time, thus allowing "real-time" control of project costs. In addition, field representatives routinely keep track of subcontractor costs on a daily basis. Thus we can, in effect, keep track of the total project costs on a weekly basis. Our subcontractors commonly invoice at monthly intervals and there is seldom a discrepancy between our field representative's pay items and our subcontractor's invoice.

Schedule Control

Direct responsibility for schedule control lies with the project manager. Initially, the project manager will review schedule requirements (understood to be 45 days for submittal of preliminary design documents) to see how they can be achieved given the anticipated scope of work. 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 make it impossible to maintain the project schedule, the project manager will contact the WVDEP project manager to develop a mutually acceptable adjustment to the schedule and/or work plan.

Location of Facilities

POTESTA will complete the work under this contract in our Charleston, West Virginia office. Our subcontractors are located in the Charleston area or other strategic regions and are quite familiar with the coalfields of West Virginia where the Kingwood Route 7 Highwall Design Project is located. Our close proximity to WVDEP's Charleston office will allow the project to be completed in a timely, economical manner as well as provide WVDEP, AML with easy access to us.

Quality Assurance/Quality Control

Submittals to the WVDEP will be reviewed and commented on by the project manager and the principal-in-charge prior to submittal to the WVDEP. Both the project managers and the principal-in-charge have worked on numerous WVDEP, AML projects, and thus understand the level of detail and expectations for WVDEP, AML projects. POTESTA utilizes standardized Quality Assurance/Quality Control (QA/QC) practices such as consistency checks, color coding of checked copies/calculations, and review of method of measurements versus quantity tallies to insure QA/QC expectations are met.

2.0 CLOSING

We look forward to continuing to serve WVDEP, AML on the Kingwood Route 7 Highwall Design Project and bring it to completion. Our commitment is to provide quality service, rapid response and project completion, and to exceed your expectations for services performed under this project. We believe the track record of our professionals demonstrates our ability and commitment.

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IMPORTANT

If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

DISCLAIMER

The Certificate of Insurance on the reverse side of this form does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.



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Charleston, WV 25304

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

Request for Quotation

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CHARLESTON, WV
25304 304-926-0499

DATE PRINTED TERMS OF SALE SHIP VIA FREIGHT TERMS 09/03/2009 BID OPENING DATE: 09/22/2009 BID OPENING TIME 01:30PM LINE QUANTITY LIOP ITEM NUMBER UNIT PRICE AMOUNT 1001 JB 906-29 KINGWOOD RT. 7 HIGHWALL DESIGN EXPRESSION OF INTEREST THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ENGINEERING DESIGN SERVICES AND CONSTRUCTION MONITORING SERVICES AT THE KINGWOOD ROUTE 7 HIGHWALL PROJECT IN PRESTON COUNTY, WEST VIRGINIA, PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS. IN THE EVENT THE VENDOR/CONTRACTOR FILES BANKRUPTCY: FOR BANKRUPTICY PROTECTION, THE STATE MAY DEEM THIS CONTRACT NULL AND VOID AND TERMINATED SUCH CONTRACT WITHOUT FURTHER ORDER. SEE REVERSE SIDE FOR TERMS AND CONDITIONS DATE September 22, 2009 (304) 342-1400 Vice President 311509066 -ADDRESS CHANGES TO BE NOTED ABOVE

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

West Virginia Code §5A-3-10a provides that: 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 the debt owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the **West Virginia Code**. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the **West Virginia Code** and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the **West Virginia Code** may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.

Under penalty of law for false swearing (**West Virginia Code** §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

Vendor's Name:	Potesta & Associates, I	nc.	
Authorized Signature:	Lana L. Bus	Auro Date:	September 22, 2009

Purchasing Affidavit (Revised 01/01/09)

WES	WEST VIRGINIA	IA DEPARTMENT NT CONFIDENTIAL	T ENVIRONMENTAL	PROTECTION QUESTIONNAIRE	RE Attachment "B"
PROJECT NAME Kingwood Route 7 Highwall	ACC .	DATE (DAY, MONTH, 22, S	I, YEAR) September, 2009	FEIN	311509066
1. FIRM NAME	2.	- 1	HOME OFFICE BUSINESS ADDRESS	3. FORMER F	FIRM NAME
Potesta & Associates, Inc.		7012 MacCor.	7012 MacCorkle Avenue, SE Charleston. West Virginia 25304	NA	
The state of the s		ľ			
4. HOME OFFICE TELEPHONE 5. (304) 342-1400	. ESTABLISHED 1997	IED (YEAR)	6. TYPE OWNERSHIP Individual Corpo Partnership Joint-	Corporation (1) Joint-Venture E	<pre>6a. WV REGISTERED DBE (Disadvantaged Business Enterprise)</pre>
CE:	ADDRESS/ TEL	HONE/ PER	IN CHARGE/ NO.	SIGN	L BACH OFFICE
7012 MacCorkle Avenue, SE, Cl	Charleston,	WV 25304 / (30	(304) 342-1400 / Dana L.	Burns / 87	
IO H W	ERS OR MEMBERS OF F. dent ident and Treasurer President and Secre	OF FIRM surer Secretary	8a. NAME, TITLE, & TEI N/A	TELEPHONE NUMBER	- OTHER PRINCIPALS
9. PERSONNEL BY DISCIPLINE					
TIVE		ស្ត		1	1 STRUCTURAL ENGINEER
ARCHITECTS		ECONOMISTS ELECTRICAL ENGINEERS ENVIRONMENTAL ENGINEER ESTIMATORS GEOLOGISTS HISTORIANS HYDROLOGISTS	1 MECHANICAL ENGINEERS 2 MINING ENGINEERS PHOTOGRAMMETRISTS PLANNERS: URBAN/REGIONAL 1 SANITARY ENGINEERS 3 SOILS ENGINEERS 2 SPECIFICATION WRITERS	NAI.	O SURVEYORS 1 TRANSPORTATION ENGINEERS 1 INFORMATION TECHNOLOGIST 1 SAFETY/INDUSTRIAL HYGIENE 2 CHEMIST OTHER
	TOXICOPOZIST	TST	7 ENVIRONMENTAL SCIENTIST	CIENTIST	
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: *RPEs other than Civil and Mining must provide supporting documentation supervise and perform this type of work.	RED PROFESSIO 1 Mining must s type of work	SIONAL ENGINER ISt provide sup Tork.	NEERS IN PRIMARY OFFICE: supporting documentation	10; 11 that qualifies	102 TOTAL PERSONNEL es them to
i					
10. HAS THIS JOINT-VENTURE WORKED TOGETHER	SD TOGETHER	BEFORE?	YES ONO	N/A	

11. OUT? % KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO Ques_ onnaire".	USED.	Attach "AML Consultant Confidential Qual: ation
NAME AND ADDRESS: Digital Grankic Manning	SPECIALTY:	WORKED WITH BEFORE
172 Imboden Drive, Suite 13 Winchester, Virginia 22603	Aerial Photography and Mapping	X Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
Brushy Fork Road	Environmental and Coal Related Laboratory	X Yes
Bridgeport, West Virginia 26350		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
140 Mong Road	Soil and Rock Boring	X Yes
Seeledy thin, remisylvania 15500		O.V.
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
510 C Street	Soils and Concrete Testing	X Yes
South Charleston, West Virginia 25303		Ž
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
The state of the s		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Ves
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No

for it relates to AML projects in West Virginia. POTESTA's staff has worked on over 65 AML projects that involved sizing channels, culverts, and waterlines. POTESTA has developed well over 100 storm Description and Number of Projects: POTESTA's staff is experienced in all aspects of soil analysis, project managers, Messrs. Mark Kiser, P.E. and Terence Moran, P.E. have each worked on over 65 AML Description and Number of Projects: POTESTA's staff routinely develop contour mapping for use with Description and Number of Projects: POTESTA's staff is experienced in hydrology and hydraulics as We subcontract aerial mapping development, but complete the ground control necessary for developing mapping. On smaller projects, we perform the topographic survey work and subsequently develop the contour mapping. POTESTA has completed 200+ mapping development projects in the last excavated materials to generate acidity, and analysis of coal refuse to determine the potential of the previous AML projects won reclamation awards including: Bear Run Refuse, Kimball Refuse POTESTA's principal engineers have Piles; Owings Mine Complex; Pine Creek (Omar) Refuse; Turner-Douglas Complex; Grass Run Refuse. projects dating back to 1986, including landslide investigation and abatement, mine subsidence stabilization projects, acid mine drainage treatment, refuse piles, mine drainage, mine portal POTESTA's staff has worked on 30+ AML Description and Number of Projects: POTESTA's principal-in-charge, Dana L. Burns, P.E. and two principal engineers have extensive experience with preparing design plans for refuse piles. revegetation requirements, acid-base accounting of rock samples to evaluate the potential water management plans for mines, industrial facilities and new site development projects POTESTA is POTESTA has 15 staff with experience on AML projects. developed and implemented plans for nutrient and lime requirements testing to determine Remediation/Mine Reclamation Engineering? projects involving soil science, including slope stability and revegetation. These projects were completed by Dana Burns, Mark Kiser, and Terry Moran. Does your firm produce its own Aerial Photography and Develop Contour Mapping? experienced in soil analysis as it relates to this project. including geotechnical and environmental soil analysis. Is your firm experienced in hydrology and hydraulics? your firm experienced in Abandoned Mine Lan Is your firm experienced in Soil Analysis? seal, and water supply projects. throughout West Virginia. reprocessing. design. YES YES YES YES Ω H 02 8 <u>т</u> Α ပ

(Include any experience your firm has in mining.) signs Is your firm experienced in domestic waterline evaluation of aquifer degradation as a result

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designs for municipalities, WVDEP AML, and private utilities. POTESTA's staff includes one project Regional Water Supply project. We are also exceptionally well qualified to evaluate aquifer degradation, including aquifer degradation by AML sites. Our staff has worked on 80+ evaluations of aquifer degradation. POTESTA has performed over 35 water line design projects totaling several 20+ mile Cow Creek-Sarah Ann Extension and 30+ mile/2,800 GPM Water Treatment Plant Mill Creek POTESTA's staff has worked on waterline designs and water treatment plant Description and Number of Projects: POTESTA's staff is exceptionally experienced at domestic manager, Terence C. Moran, PE, who has managed design of numerous AML waterlines, including hundred miles of installed water line. waterline design. YES

F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?

drainage evaluation and abatement design. POTESTA's staff has worked on 30+ projects involving AMD Additionally, we worked extensively with Elk Run Coal Company to WVDOH, among others with acid-base accounting evaluations and the subsequent development of plans In both cases, many of the projects Description and Number of Projects: POTESTA has completed numerous projects addressing acid mine We have worked extensively with Anker Energy, Dominion Generation, and the devise a plan to limit AMD generation and to treat the remaining AMD. evaluation and 10+ projects involving AMD abatement design. to prevent/abate AMD generation. involved AML sites. YES

13. PER 'AL HISTORY STATEMENT OF PRI datut keep to essentials)	PRINCIPALS AND ASSOCIATE 'ESPON	ESPONSIBLE FOR AML PROJECT DESIGN (Furnish	(Furnish compl
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Burns, Dana L. Vice President	YEARS OF AML DESIGN EXPERIENCE: 21	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 19
Brief Explanation of Responsibilities		T C T THE PROPERTY OF THE PROP	
Mr. Burns will serve as principal-in-charge Mr. Burns has served as the project manager 1986 through 1997, totaling over 60 projects project will be identified. He will coordir	for this or princi s. He wil	significant exp three open end sonnel required the State of Wes	erience with AML type projects. contracts for WVDEP, AML from to efficiently complete this
EDUCATION (Degree, Year, Specialization) MS, 1979, Civil Engineering with Environmental BS, 1978, Civil Engineering	Engineering	Emphasis	
IN PROFES	SNOI	REGISTRATION (Type, Year, St	State)
West Virginia Coal Association American Society of Civil Engineers West Virginia Association of Consulting American Consulting Engineering Council	n ineers Consulting Engineers ng Council - Trans Committee	PE, 1985, WV PS, 1995, WV	45-500 k Amerika kiri saba danga
13. PERSONAL HISTORY STATEMENT OF PRI data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPONSIBLE	KSIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Kiser. D. Mark	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN
	18	25	EXPERIENCE: 19
Brief Explanation of Responsibilities	83	Westerman ministration of the contract of the	
As Chief Engineer, with significant experience drainage channelization, he will serve as a proQA/QC for the various draft submissions and fit	0 🗆	on c	lesign and mine portal closures and also provide constructability reviews and
EDUCATION (Degree, Year, Specialization)	ion)		· · · · · · · · · · · · · · · · · · ·
BS, 1984, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	IONS	REGISTRATION (Type, Year, State) PE, 1990, WV PE, 1998, IN PE, 1998, SC Licensed Remediation Specialist,	State) Specialist, 1998, WV

13. PER 'AL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATE 'ESPOI dateut keep to essentials)	ESPONSIBLE FOR AML PROJECT DESIGN (Furnish	ish compl
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
Terence C.	ESIGN	YEARS OF DOMESTIC WATERLINE DESIGN
Senior Engineer I	AU EAPEKI	TENCE: ZO
Brief Explanation of Responsibilities		
Mr. Moran will serve as project manager coordinating interaction between the WVDEP, d subconsultants. Mr. Moran has served as a project engineer/project manager for over between 1989 and 1999. More recently, he has served as principal engineer and project including water studies and reclamation plans. He will set the schedule and ensure i will also serve as one of the principal designers of the reclamation design solution.	ordinating interaction between the WVDEP, design team members, and project engineer/project manager for over 60 AML projects in West Virginia has served as principal engineer and project manager for WVDEP-AML projects ans. He will set the schedule and ensure it is met on a weekly basis. He signers of the reclamation design solution.	vers, and in West Virginia WDEP-AML projects reekly basis. He
EDUCATION (Degree, Year, Specialization)		
MS, 1989, Civil Engineering BS, 1987, Civil Engineering		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)	
American Society of Civil Engineers	PE, 1996, WV PE, 1998, VA	
PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES lata but keep to essentials)	RESPONSIBLE FOR AML PROJECT DESIGN (Furnish	ish complete
	r	
Taylor, Patrick A. Senior Engineer II	YEARS OF AML RELATED DESIGN YEARS EXPERIENCE: 19 EXPERI	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 14
Brief Explanation of Responsibilities		
Mr. Taylor will serve as a project engineer, including completing field work, design, and preparation technical specifications, bid forms, and cost estimates. Mr. Taylor has project engineer experience consisting of emergency slide remediation, refuse fill and slurry pond reclamation, abandoned portal slurry pond reclamation. Mr. Taylor also served as a branch manager for a private consulting firm resurface mining permitting, design and reclamation.	ng completing field work, design, and preparation ttes. Mr. Taylor has project engineer experience .11 and slurry pond reclamation, abandoned portal a branch manager for a private consulting firm re	preparation of drawings, experience in AML projects med portal closures, and ting firm responsible for
EDUCATION (Degree, Year, Specialization)		
MS, 2006, Engineering Management BS, 1988, Civil Engineering		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)	
American Society of Civil Engineering	PE, 1994, WV	

13. PERLLAL HISTORY STATEMENT OF PRIdata but keep to essentials)	PRINCIPALS AND ASSOCIATE. KESPON	SESPONSIBLE FOR AML PROJECT DESIGN	(Furnish comple s
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Gandee, Jason G. Project Engineer	YEARS OF AML DESIGN EXPERIENCE: 1+	YEARS OF AML RELATED DESIGN EXPERIENCE: 2	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	S		THE PROPERTY OF THE PROPERTY O
As project engineer, Jason will field verievaluate soil borrow areas, perform hydrol specifications. Mr. Gandee has worked on	fy project mapping, ogic and hydraulic d five AML projects ov	acquire utility information, dev design calculations, develop cont wer the last year.	, develop grading plans, contract drawings and
EDUCATION (Degree, Year, Specialization)	ion)		
BS, 2007, Civil Engineering Tec	Technology		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	TONS	REGISTRATION (Type, Year, St	State)
13. PERSONAL HISTORY STATEMENT OF PRI data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPON	RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish complete
TLE		YEARS OF EXPERIENCE	
Bria, R. Scott	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN
CAD Designer	4	7	EXPERIENCE:
Brief Explanation of Responsibilities	W.		
As a CAD Designer, Scott will assist in grading plans, compute volumes, generate engineering staff.	reducing survey cross sections	rring base mapping, customize details a	compile all drawings, develop nd offer support to
EDUCATION (Degree, Year, Specialization)	ion)		
1997, Certificate of Drafting			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	IONS	REGISTRATION (Type, Year, St	State)

13. PERLUNAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATE. AESPOI data but keep to essentials)	AESPONSIBLE FOR AML PROJECT DESIGN (Furnish comple	ا (Furnish comple خ
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
į	YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC
Fore, Snawn J.	antbrib.	WAIENLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities		POTENTIAL PROPERTY AND ADMINISTRATION OF THE PARTY OF THE
Surveying, reduce survey data and prepare base mapping, compiling sections, profiles and computing volumes. Create details and ass	compiling drawing packages, develop gr s and assist in design.	grading plans, cross
Hours), Ben Franklin,	Charleston, WV	
(civil 3D), Imaginite Technologies, Cleveland, (Dreamweaver - Website Design), Garnet State College 2 Years. Emphasis on CADD/Draftir	րանագ	
FESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year,	State)
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONDIALA but keep to essentials)	RESPONSIBLE FOR AML PROJECT DESIGN	T (Furnish complete
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
Lipscomb, Daniel H. Engineer II	YEARS OF AML RELATED DESIGN EXPERIENCE: 3	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 3
Brief Explanation of Responsibilities		
Mr. Lipscomb has extensive experience in design and permitting of water supply to gain easements. Mr. Lipscomb also has significant experience in subsurface		systems and interaction with the public explorations and soil evaluations.
EDUCATION (Degree, Year, Specialization)	A-PEROMANIAN AND AND AND AND AND AND AND AND AND A	eres constanting and the state of the state
BS, 2002, Civil Engineering Technology		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, St	State)
	PE, 2008, WV	

13. PERLUMAL HISTORY STATEMENT OF PRINCIPALS AND data but keep to essentials)	ASSOCIATE	KESPONSIBLE FOR AML PROJECT DESIGN (Furnish	(Furnish comple s
TLE (Last, Fir		YEARS OF EXPERIENCE	
Potesta, Ronald R. President	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	(B) (C)	T. Fritzing	
As President, Mr. Potesta directs th WVDEP.	Potesta directs the full resources of the firm	the firm to meet the complete requirements of	ents of this project for
EDUCATION (Degree, Year, Specialization)	tion)		
MS, 1975, Economics with a Concentration BS, 1971, Business Administration	ncentration in Mineral Economics, Econometrics, ation	cs, Econometrics, and Micro Economics	conomics
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Commissioner, Ohio River Valley Water Sanitation Commission; Board of Directors, WV Chapter of the Nat Conservancy; National Institute for Chemical Studies; Environmental Institute; WV Manufacturers Association	TIONS ey Water Sanitation s, WV Chapter of the Nature te for Chemical Studies; WV anufacturers Association	REGISTRATION (Type, Year, St.	State)
13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPO	RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
McCoy, Laidley Eli Vice President	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	88		
Dr. McCoy will serve as a back-up princi natural science division of the company. completion of this reclamation design.	as a back-up principal-in-charge. In addition, Dr. McCoy manaction of the company. He will coordinate required environmental sclamation design.	ges the e support	entire environmental and services for the
EDUCATION (Degree, Year, Specialization) PhD, 1981, Aquatic Ecology MS, 1974, Biological Science BS, 1972, Zoology	tion)		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	TIONS	REGISTRATION (Type, Year, St	State)

13. PERCLAR HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATE: .ESPOI	LESPONSIBLE FOR AML PROJECT DESIGN	T (Furnish comple J
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Grose, Christopher A. Senior Engineering Associate	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 20	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12
Brief Explanation of Responsibilities	W.	The second secon	
Mr. Grose will coordinate the drilling and geo sites for soil cover, and investigation and de recommendations for mine seals.	technical analysis sign of solutions f	r slope stability design, subsurface hydrogeology w	identification of borrow rithin the deep mines and
EDUCATION (Degree, Year, Specialization)	cion)	T T T TOWN TO THE TOWN TOWN TO THE TOWN TO	
MS, 1990, Geological Engineering BS, 1988, Civil Engineering	ing		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Society of Civil Engineering	LIONS	REGISTRATION (Type, Year, St	State)
Association of Engineering Geology Society of American Military Engineers	ology angineers	Licensed Remediation S	Specialist, 1998, WV
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS data but keep to essentials)	AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT DESIGN	I (Furnish complete
NAME & TITLE (Last, First, Middle Int.)	The state of the s	YEARS OF EXPERIENCE	
Ammirato, Vincent J. Senior Engineer I	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 12	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 8
Brief Explanation of Responsibilities	W W		
Mr. Ammirato will provide structural engir Columbia Gas in plant design and pipeline this project may have.	l engineering that may be required for this peline distribution will be well suited for	project. the possik	His extensive background with le structural requirements
EDUCATION (Degree, Year, Specialization)	:ion)		
BS, 1970, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	LIONS	REGISTRATION (Type, Year, St PE, 1980, WV PE, 1992, PA PE, 1992, OH PE, 1993, VA	State)
The second control of		William Communication of the c	

13. PERLANAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATE, AESP data but keep to essentials)	KESPONSIBLE FOR AML PROJECT DESIGN (Furnish comple	(Furnish comple :
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
Ward, Patrick E. Senior Engineer I	YEARS OF AML RELATED DESIGN EXPERIENCE: 12	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 4
Brief Explanation of Responsibilities	of Perspersion Control of the Contro	
Mr. Ward will serve as a project engineer and has extensive expeproject engineer on refuse piles, mine drainage, and subsidence	ensive experience on WVDEP, AML projects, havin subsidence projects in the early to mid-1990's.	having served as a 990's.
EDUCATION (Degree, Year, Specialization)		
MS, 1992, Civil Engineering (Geotechnical) BS, 1990, Civil Engineering		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, Sta	State)
	PE, 1997, WV	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESP data but keep to essentials)	RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
McGlothen, Ryan K. Senior Engineer	YEARS OF AML RELATED DESIGN EXPERIENCE: 13	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 9
Brief Explanation of Responsibilities	-	
Mr. McGlothen will serve as a project engineer on this project. Mr. and preparation of the drawings and technical specifications. He ha earthwork design, and monitoring of drilling, as well as hydrologic	Mr. McGlothen will assist with He has extensive experience with ogic and hydraulic design.	n design calculations n slope stability,
EDUCATION (Degree, Year, Specialization)		
BS, 1996, Civil Engineering		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, Sta	State)
American Society of Civil Engineers	PE, 2002, WV	

13. PERby AL HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATE ESPO	RESPONSIBLE FOR AML PROJECT DESIGN (Furnish	(Furnish comple .
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Kohler, Dennis J. Staff Scientist I	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 35	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	30		THE PARTY OF THE P
Mr. Kohler will serve as a project scientist for i extensive experience with the coal mining, having responsible for reclamation of surface operations	issues worked for ov	regarding reclamation, including revegetation. Mr. I for the coal industry for numerous years and being er 15 years.	etation. Mr. Kohler has ars and being directly
EDUCATION (Degree, Year, Specialization)	cion)		
BS, 1977, Environmental Science	ce and Resource Management		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	LIONS	REGISTRATION (Type, Year, St	State)
13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPO	RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Sedosky, Timothy B. Staff Scientist I	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 14	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	W 41		
Mr. Sedosky will review the site for potential reclamation activities. H wetland disturbance and mitigation.	for possible wetlands and delineate, He will prepare required permit appon.	e, as required, applications to	wetland areas to be impacted by the WVDNR, WVDEP, and USCOE for
EDUCATION (Degree, Year, Specialization)	cion)	The state of the s	
BS, 1995, Wildlife and Fisheries	ies Resource		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	LIONS	REGISTRATION (Type, Year, St.	State)
	tioning to the property of the second		

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES		KESPONSIBLE FOR AML PROJECT DESIGN (Furnish comple	(Furnish comple :
data but keep to essentials)			J. J
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE: YEARS OF AML RELATED DESIGN	YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC
Litwinowicz, Dennis L.		EXPERIENCE:	WATERLINE DESIGN
Staff Scientist I		30	EXPERIENCE:
Brief Explanation of Responsibilities	88	MONTH IN THE REAL PROPERTY AND THE REAL PROP	

Mr. Litwinowicz will serve as a project geologist, including observation of subsurface exploration activities and assistance on evaluation of other geologic activities.

EDUCATION (Degree, Year, Specialization)

BS, 1980, Geology and Mineralogy

- Common			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)	ate)	
American Association of Petroleum Geologists	Certified Petroleum Geologist, 1984	ologist, 1984	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)	NSIBLE FOR AML PROJECT DESIGN	(Furnish complete	
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
YEARS OF AML DESIGN EXPERIENCE:	OF AML DESIGN EXPERIENCE: YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC	
Dawson, Victor M.	EXPERIENCE:	WATERLINE DESIGN	
Survey Supervisor	27	EXPERIENCE: 12	01
Brief Explanation of Responsibilities		MANTHEM CONTRACTOR OF THE PROPERTY OF THE PROP	

Mr. Dawson will coordinate required surveying for aerial mapping control if needed, establish construction benchmarks, topographic surveys, boundary surveys and/or property and deed research, survey of boring locations and profiling significant existing drainage courses not clearly defined in the aerial mapping. Mr. Dawson will reduce survey data and create topographic mapping for AML projects.

EDUCATION (Degree, Year, Specialization)

AS, 1983, Surveying

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
American Congress Surveying and Mapping	
West Virginia Association of Land Surveyors	PS, 1988, NC
North Carolina Society of Surveyors	PS, 1989, SC
South Carolina Society of Surveyors	

13. PERLAMAL HISTORY STATEMENT OF PRINCIP data but keep to essentials)	PRINCIPALS AND ASSOCIATE, AESPONSIBLE	IBLE FOR AML PROJECT DESIGN	(Furnish comple s
First, Middle Int.)		YEARS OF EXPERIENCE	
Osborne, Ralph E. CADD Designer	OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 33	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities			
Mr. Osborne will provide the CADD support reduce survey data at booster station and design.	in preparation of water storage tank	construction drawings for the project. sites to provide sufficient mapping t	ect. He will also ng to complete the
EDUCATION (Degree, Year, Specialization)			
AS, 1983, Mining Technology			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	RI	REGISTRATION (Type, Year, St	State)
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS data but keep to essentials)	PALS AND ASSOCIATES RESPONSIBLE	IBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
lael B.	YEARS OF AML DESIGN EXPERIENCE: YE	YEARS OF AML RELATED DESIGN EXPERIENCE:	MESTIC ESIGN
CADD Designer/Supervisor	σı	22	EXPERIENCE: 11
Brief Explanation of Responsibilities			
Mr. Sankoff will provide the CADD support survey data to provide sufficient mapping	in preparation of to complete the de	construction drawings for the project. sign.	ect. He will reduce
EDUCATION (Degree, Year, Specialization)			
BS, 1987, Industrial Management AS, 1986, Drafting and Design Engineerin AS, 1986, Mechanical Engineering Technol	ineering Technology Technology		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, St	State)
			·

13. PERSUMAL HISTORY STATEMENT OF PRINC data but keep to essentials)	PRINCIPALS AND ASSOCIATE. KESPON	KESPONSIBLE FOR AML PROJECT DESIGN (Furnish	(Furnish comple &
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
1	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 6
Brief Explanation of Responsibilities			
Mr. Ammirato will serve as a project engineer for talculations, layout, drawing preparation, design, work. He has extensive experience in water supply Mr. Ammirato was the project engineer on our Borde:	the project technical and waste	ies will inc forms, cost permitting,	<pre>:lude hydraulic estimates, and field and regulations.</pre>
EDUCATION (Degree, Year, Specialization)	()		
BS, 1999, Mechanical Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	\$	REGISTRATION (Type, Year, St.	State)
		EIT, 1999, VA	
13. PERSONAL HISTORY STATEMENT OF PRINC data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR	ISIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Xinder, Kenneth K. Engineer	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 5
Brief Explanation of Responsibilities			
Mr. Kinder has extensive experience in hydrol coal ash disposal facilities and preparation	ogic and hydraulic of cost estimates.	design as well as subsurface e	as subsurface explorations, design of
EDUCATION (Degree, Year, Specialization)			
BS, 2003, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	3	REGISTRATION (Type, Year, St	State)
		PE, 2008, WV	
		The state of the s	

13. PERSULAL HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATESESPON	AESPONSIBLE FOR AML PROJECT DESIGN (Furnish comple	(Furnish comple
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC
Smith, Jarrett M. Engineer II	41	EXPERIENCE: 6	WATERLINE DESIGN EXPERIENCE: 6
Brief Explanation of Responsibilities	33	T. T	
Mr. Smith has been involved extensively with preparation of NPDES stormwater construction grading plans and quantity/cost estimates. PML project.	nsively with development of hydrologic construction permits. He also has sign estimates. Mr. Smith was the project e	and hydraulic nificant expert ngineer on our	calculations including ise in the development of site Taylorville (Cantrell) Drainage
EDUCATION (Degree, Year, Specialization)	ion)		
BS, 2002, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	TONS	REGISTRATION (Type, Year, St	State)
National Society of Professional	al Engineers	PE, 2008, WV	
13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPON	RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Drinkard, William F. III Senior Engineer I	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 35	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 9
Brief Explanation of Responsibilities	8:		
Mr. Drinkard will serve as a project engineer and ha areas, mine facility construction utilities, access Mr. Drinkard will prepare NPDES permit applications drainage calculations.	road for	ctensive coal industry design experience in ls, drainage controls, and portal closings. construction activities and other required	design experience in refuse disposal and portal closings. In addition, es and other required storm and mine
EDUCATION (Degree, Year, Specialization)	ion)		
MS, In Progress, Environmental Eng MBA, 1981, Business Administration BS, 1980, Mining Engineering	. Engineering tion		A COLOR
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	TONS	REGISTRATION (Type, Year, St PE, 1981, WV PS, 1992, WV	State)

13. PERLANAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATE, AESPONSIBLE FOR AML PROJECT DESIGN (Furnish compla	SPONSIBLE FOR AML PROJECT DESIGN (Fu.	urnish comple :
data but keep to essentials)		-
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
YEARS OF AML DESIGN EXPERIENCE: Junker, David N.	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN
Senior Scientist I	20 EXP	EXPERIENCE:
Brief Explanation of Responsibilities		
Mr. Junker will provide as needed geological/hydrogeological services for this project.	ervices for this project.	
EDUCATION (Degree, Year, Specialization)		
BS, 1973, Geology		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)	
National Groundwater Association	Registered Professional Geologist, 1993, KY Licensed Remediation Specialist, 1998, WV	sologist, 1993, KY lalist, 1998, WV

14. PROV£ A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN 1 PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AM. DESIGN SERVICES
Microsoft Office XP (Excel, Access, Word, PowerPoint)
WordPerfect 11
Adobe PageMaker 7 (Publication Software)
MicroStation (Allows users to create 3D models of permanent assets - the models and all of their components are electronic simulations of real-world objects); used for CADD drawing preparation.
Autodesk Land Desktop 2007 (3D modeling software that provides topo analysis, real-world coordinate systems, volume totals, roadway geometry.)
Haestead Methods (Numerous software packages used for designing storm water structures [e.g., channels, culverts, ponds, etc.] and water distribution systems.)
MapTech, Terrain Navigator (Combines regional collections of topo maps with powerful PC navigation software for 2D/3D viewing, customizing, printing and GPS use.)
AutoCAD, 2007 and 2008 Used for preparing CADD drawings.
Softdesk 8.0 Civil/Survey Design Software

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	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
	WVDEP 601 57 th Street, SE Charleston, WV 25304	Preparation of reclamation plan, drawings, specifications, bid form, engineer's construction cost estimate, and calculations brief.	\$1,357,000	\$ 6 6
Lando (Edwards) Drainage, AML Reclamation of Refuse Pile and Drainage Problems, Mingo County, WV	WVDEP 601 57 th Street, SE Charleston, WV 25304	Preparation of reclamation plan, drawings, specifications, bid form, engineer's construction cost estimate, and calculations brief.	\$352,000	95%
Taylorville (Cantrell) Drainage, AML Reclamation of Acid Mine Drainage Problems, Mingo County, WV	WVDEP 601 57 th Street, SE Charleston, WV 25304	Preparation of reclamation plan, drawings, specifications, bid form, engineer's construction cost estimate, and calculations brief.	\$241,000	958
1T: Um {}	WVDEP 601 57 th Street, SE Charleston, WV 25304	Preparation of reclamation plan, drawings, specifications, bid form, engineer's construction cost estimate, and calculations brief.	\$94,000	95%
Fairmont East Mine Drainage, AML Reclamation of Acid Mine Drainage, Fairmont, WV	WVDEP 601 57 th Street, SE Charleston, WV 25304	Preparation of reclamation plan, drawings, specifications, bid form, engineer's construction cost estimate, and calculations brief.	\$100,000	% 00 8
Sundial Refuse Piles, AML Reclamation of Coal Refuse Piles, Raleigh County, WV	WVDEP 601 57 th Street, SE Charleston, WV 25304	Preparation of reclamation plan, drawings, specifications, bid form, engineer's construction cost estimate, and calculations brief.	\$4,800,000	ବ୍ୟ ୧୯

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2 0	NAME AND ADDRESS OF NOWNER WVDEP 601 57 th Street, SE re	NATURE OF YOUR FIRM'S RESPONSIBILITY Preparation of reclamation plan,	ESTIMATED CONSTRUCTION COST Unknown	PERCENT COMPLETE 50%
on, WV	0.4	drawings, specifications, bid form, engineer's construction cost estimate, and calculations brief.		
Virginia Dept. of Mines, Minerals & Energy PO Drawer 900 Big Stone Gap, VA		Rehabilitate former AML mine portal closure that had drainage and slip failure. Preparation	\$130,000	ଚ ପ %
24219	dr dr fc co es	of reclamation plan drawings, specifications, bid form, engineer's construction cost estimate, and calculations brief.		
Boone County PSD PO Box 287 Danville, WV 25053	ase in in of cop	Design and permitting associated with extension of waterline including preparation of drawings, specifications, and contract documents and administration.	\$1,200,000	% 6 6
Town of Ceredo PO Box 691 Ceredo, WV 25507	Des ass inc of spe cor adm	Design and permitting associated with extension of waterline including preparation of drawings, specifications, and contract documents and administration.	\$831,000	% ଚ
Town of Ceredo PO Box 691 Ceredo, WV 25507	ass ex	Design and permitting associated with extension of waterline including preparation of drawings, specifications, and contract documents and administration.	\$885,000	್ ರು

15. CUR T ACTIVITIES (ACTIVITIES ON WHICH YOUR FIRM IS THE	DESIGNATE NGINEER OF	RECORD	
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
	aty P	Design and permitting associated with	000'006\$	% 866
Extension, Boone County, WV	Danville, WV 25053	extension of waterline including preparation		
7		of drawings,		
		specifications, and		
Landfill Closure	Solutia, Inc.		\$4,000,000	70%
Design, Various	1 Monsanto Road	designs, construction		
Remediation Projects		arawings and		
Nitro, WV		environmental		
		sampling, and		
		regulatory liaison.		
The Villages at	Berkeley Springs	Engineering design and	\$50,000,000	80%
COOLLONC, MORGAN	Develop, LLC	permitting for 1300	Construction Costs	(Design)
county, wv	Rerkeley Shrings WV	including water	COURT ACCION CORCE	
	Derret Thrangs, we	treatment nlent and		
		Aistribition greaton		
		CLECTION System;		
		wastewater treatment		
		plant and collection		
		system, roads,		
		J}		
		system, and property		
Fort Martin Power	Allegheny Energy	Wetland delineation,	\$10,000,000	100%
Station Coal	Supply	engineering design,		(Design)
Combustion By-Product	800 Cabin Hill Drive	and permitting for a		
Landfill Expansion,	Greensburg, PA 15601	100-acre landfill		40%
Monongalia County, WV		ling synt		(QA/QC Monitoring)
		liner system, leachate		
		pumpback system,		
		JJ		
		roadways, and QA/QC		
		- 1		
TOTAL NUMBER OF PROJECTS:	:8:	TOTAL ESTIMATED	TED CONSTRUCTION COSTS:	
15 (POTESTA has G	15 (POTESTA has completed well over 1000 projects.)	projects.)		\$74.890.000
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TRUCTION COST	YOUR FIRMS RESPONSIBILITY	\$750,000	\$20,000			
ESTIMATED CONSTRUCTION COST	ENTIRE PROJECT	\$60,000,000	\$750,000			
ESTIMATED COMPLETION DATE		2009	2008			
NAME AND ADDRESS OF OWNER		ZMM, Inc. 222 Lee Street, W. Charleston, WV 25302	Andropogon Associates, Ltd. 10 Shurs Lane Philadelphia, PA			
NATURE OF FIRMS RESPONSIBILITY		Design Water Supply and Sanitary Sewer Systems	Site Utilities, Stormwater Management and Agency Coordination			
PROJECT NAME, TYPE AND LOCATION		Bradshaw Schools Site Utilities	Charleston Greenspace Project			

17. CC. LETED WORK WITHIN LAST	T 5 YEARS ON WHICH YOUR FIRM	AS THE DESIGNATED ENGINEER OF RECORD		
			YEAR	CONSTRUCTED (YES OR NO)
Wash Branch Waterline Extension, Boone County, WV	Massey Coal Services 315 70 th Street, SE Charleston, WV 25304	\$550,000	2008	Yes
Spruce Laurel Stream Monitoring, Boone County, WV	WVDEP - AML 601 57 th Street, SE Charleston, WV 25304	\$3,000,000 (Est.)	2008	Yes
Fleming Landfill Sewer Line, 2 Miles of Sewer Line, Kanawha County, WV	WVDEP - AML 601 57 th Street, SE Charleston, WV 25304	\$1,100,000	2008	Yes
Pocahontas County Landfill Expansion, Closure, and Operations Consulting, Dunmore, WV	Pocahontas County Solid Waste Authority 910-C Tenth Avenue Marlinton, WV 24454	\$400,000	2008	Yes
Site Assessment and Closure/Capping Plan for Jackson County Landfill, Ripley, WV	WVDEP 601 57 th Street, SE Charleston, WV 25304	\$3,000,000	2008	Yes
Georges Creek Rockslide Retaining Wall, Kanawha County, WV	WVDEP, AML 601 57 th Street, SE Charleston, WV 25304	\$430,000	2005	Yes
William Nursing Home Landslide Retaining Wall, Mingo County, WV	WVDEP, AML 601 57 th Street, SE Charleston, WV 25304	\$2,500,000	2005	¥es
Fisher Ridge Waterline Extension - Phase II, Putnam County, WV	Putnam County Commission 3389 Winfield Road Winfield, WV 25213	\$400,000	2004	Yes
Stephens Auto/Betsy Lane Waterline Extension, Boone County, WV	Boone County PSD PO Box 287 Danville, WV 25053	\$250,000	2005	Yes

17. CC .ETED WORK WITHIN LAS	ETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM	AS THE DESIGNATED ENGINEER OF RECORD		
F.JECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CON .RUCTED (YES OR NO)
Trace Branch at Robinson Waterline Extension, Boone County, WV	Boone County PSD PO Box 287 Danville, WV 25053	\$250,000	2006	Yes
Six Mile to Corridor G Waterline Extension, Boone County, WV	Boone County PSD PO Box 287 Danville, WV 25053	\$600,000	2006	No
Joes Creek Waterline Extension, Boone County, WV	Boone County PSD PO Box 287 Danville, WV 25053	\$750,000	2006	Yes
City of Philippi Relocation of Waterline, Philippi, WV	City of Philippi PO Box 460 Philippi, WV 26416	\$1,000,000	2004	NO
	lo) ∧: I	\$600,000	2006	Yes
Mountain Laurel Potable Water Supply Extension, Logan County, WV	Mingo-Logan Coal Company PO Box E Sharples, WV 25183	\$450,000	2006	Yes

HASE AS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICAT. C. LETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIR. OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)

OF WORK FOR WHI	OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)	(BLE)		**************************************	
AND LOCATION	OF OWNER	OF YOUR FIRM'S PORTION	YEAK	(YES OR NO)	FIRM ASSOCIATED WITH
Blackwell Field Redevelopment, Charleston, WV	University of Charleston 2013 MacCorkle Ave. SE Charleston, WV 25304	\$100,000	2005	Yes	BBL Carlton
Benedum Residence Hall Replacement, Charleston, WV	University of Charleston 2013 MacCorkle Ave. SE Charleston, WV 25304	\$2,200,000	2004	Yes	BBL Carlton
Dundon Bridge Replacement, Clay, WV	West Virginia Division of Highways Capitol Complex, Bldg 5 Charleston, WV 25305	Unknown	2004	NO	Modjeski and Masters, Inc.
UC Pharmacy School, Charleston, WV	University of Charleston 2013 MacCorkle Ave. SE Charleston, WV 25304	\$6,000,000 Our Fee \$55,000	2006	Yes	Pray Construction Company
	A PARTITION				
	The state of the s				

firm resources supporting your undoned Mine Lands Program. ξŌ description to perform work for the West Virginia any additional information his space to provide fications D S 19

Potesta & Associates, Inc.'s (POTESTA) "Expression of Interest for Professional Engineering Design Services and Construction Monitoring Services for the Kingwood Route 7 Highwall Project" supports this questionnaire in providing POTESTA's qualifications and resources for serving the West Virginia Department of Environmental Protection, Office of Abandoned Mine Lands and Reclamation on this project. In summary, POTESTA:

- POTESTA's in-house staff includes 15 Professional Engineers including 11 in the primary office, three of whom on AML projects. Has assembled a team of in-house personnel and subcontractors who have historically worked have worked on over 65 AML projects. . ---!
- strong Two members of POTESTA's staff have their Ph.D.'s, ൯ a large local staff with a unique multidiscipline technical emphasis (including civil engineering, reclamation, with structural engineering, geological engineering, hydrological engineering, mine land emphasis on water quality and aquatic life and toxicity). Two members of POTESTA's and 12 have their Masters Degree. ⟨;
- POTESTA employees have worked on and have experience Has 15+ employees with experience on WVDEP AML projects. in the following type of WVDEP AML projects: ٠ د
- Passive Acid Mine Drainage Treatment Water Supply Feasibility Studies and Design
 - Reclamation of Refuse Piles Assessment of Contamination (e.g., PCB's, asbestos)
 - Demolition of Structures
 - Diversion Structures
- Identifying Acid Mine Drainage

Subsidence Assessment and Remediation

Wetland Assessments

USCOE Permitting

Sealing Mine Portals

Stream Relocations

- Inventory of Residential Water Supplies
 - Landslides
- Mine Fires
- Engineer since POTESTA has two Professional Can handle a substantial AML workload (more than our competitors) (P.E.) Project Managers each with experience on 65+ AML projects. 4.
- with offices to WVDEP's Charleston office, West Virginia in close proximity in Morgantown, West Virginia and Winchester, Virginia. Office is located in Charleston, ر. س
- Staff has had a positive relationship with WVDEP, AML in the past, which we would like to continue . ف

20. The foregoing is a statement of facts.			
Signature: None & Dune Titl	Title: Vice President	Date: Septe	Date: September 22, 2009
Printed Name: Dana L. Burns			

Civil Engineering and Design

Potesta & Associates, Inc. (POTESTA) helps clients evaluate and plan projects by completing the following types of preliminary investigations and analyses.

- Phase I environmental site assessments
- Floodplain determination
- Geotechnical explorations including soil, bedrock, and groundwater characterization
- Foundation recommendations
- Monitoring well systems and site characterization plans
- Boundary, topographical and photogrammetric surveys
- Utility planning
- Earthwork evaluations including volume analysis
- Opinion of probable costs/engineer's construction cost estimates

Once the project has been determined feasible, POTESTA's design professionals complete preliminary and final designs. Frequent communication is made with the client and any other design professionals to review completed activities and obtain input for the design process. Our goal is to provide our services to achieve or exceed our clients' expectations.

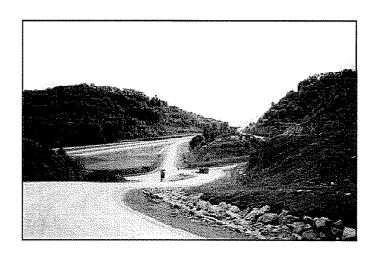
Our design services include:

- Erosion and sediment control plans
- Earth retaining structures design
- Geometric site layout
- Grading and drainage plans, including 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

POTESTA offers experienced environmental engineers and scientists to prepare applications for various environmental permits that may be required. These services include:

- Stormwater management permit/erosion and sediment control plans
- Office of Air Quality Permit to Construct
- Wetland delineation and permits
- National Pollutant Discharge Elimination System (NPDES) permits
- Floodplain management permits
- Groundwater protection plans
- Spill prevention control and countermeasure plans
- Environmental site assessments
- Environmental impact statements

POTESTA routinely provides professional services throughout construction of our projects. These services include survey layout, construction management, construction monitoring, record drawing preparation, and bid evaluation assistance.





Computer Aided Drafting and Design

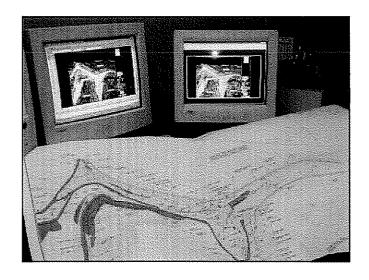
The Potesta & Associates, Inc. (POTESTA) computer-aided drafting and design (CADD) department provides state-of-the-art design and drafting services for in-house engineering and environmental consulting projects. We also provide personnel to clients who have a temporary need for additional drafting manpower. These services may be performed at your location or our office as required.

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 AutoCAD, AutoCAD Land Development Desktop 3 civil/survey design software, and Microstation to prepare, revise, and manipulate drawings and engineering data efficiently. Drawings and figures are produced using a Hewlett Packard 1050c Plus color ink jet plotter. POTESTA's experienced and trained professionals allow clients' projects and assignments to be completed rapidly and at reasonable cost.

Our CADD services include:

 Survey 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 and sewer design
- Permit drawings, maps, and exhibits
- Earthwork and planimetric quantity development
- Two and three dimensional graphics



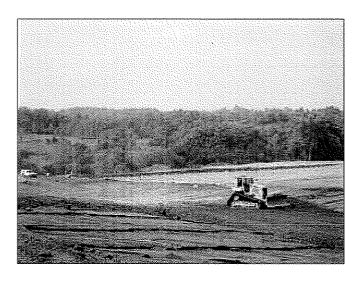
Construction Monitoring

Potesta & Associates, Inc. (POTESTA) provides construction monitoring and construction management services to assist clients in achieving regulatory and contractual compliance; to document that contractor activities are in compliance with design requirements; and to serve as an extension of clients' staff. POTESTA can provide full-time or part-time field services utilizing one or more engineers or technicians.

Regulatory compliance is often best documented by providing full-time construction monitoring services for a construction project. POTESTA can assist clients in observation of construction activities and documenting compliance. Our typical involvement in such projects includes:

- Conducting a pre-construction review of design and contract documents to identify potential problem areas, and consultation with the owner or client to develop strategies or procedures to avoid anticipated problems.
- Assistance in contractor selection. POTESTA can recommend construction contractors who specialize in the type of work associated with the project and can assist in bid evaluation by reviewing proposed quantities, unit costs, lump sum costs, and any proposed exceptions or qualifiers for the project. POTESTA can conduct pre-bid conferences to help contractors understand project requirements. We can also conduct pre-construction conferences prior to the start of the project to help establish lines of communication, review detailed plans, discuss testing requirements and establish proper reporting procedures.

POTESTA can provide surveying for construction layout, measurement for payment quantities, and documentation of as-built conditions. Survey results are downloaded to form computer-aided drafting (CAD) drawings allowing the efficient preparation of record drawings and any subsequent evaluations required.



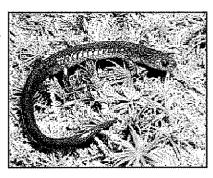
- Construction monitoring can include field testing to document compliance such as field density tests, concrete testing, sampling of materials for laboratory analysis, and documentation of site conditions and work performed on a daily basis or as required.
- Preparation of summary of construction reports including photographs, videotape documentation, test results, daily construction logs, industrial hygiene monitoring, and other documentation as may be required by the client.
- Preparation of certifications as may be required.



Endangered Species Consultation

The Endangered Species Act (ESA) requirements can delay if not halt important projects. Being able to respond promptly and thoroughly to the Fish and Wild-

life Service's (Service) requests for an evaluation of probable project impacts on either endangered species, threatened species, or species of concern can facilitate needed



regulatory approvals.

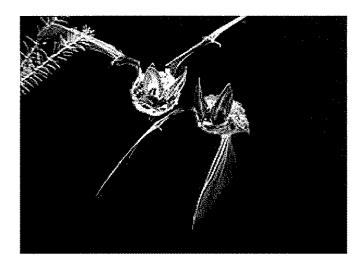
Potesta & Associates, Inc. (POTESTA) has extensive experience in biological assessments (BA) related to the ESA. We utilize a combination of inhouse professionals and recognized experts to complete projects for our clients. This arrangement allows us to provide a work product which is acceptable to the Service.

For the last several years, our office has worked with natural gas transmission companies preparing environmental reports which include assessments and remediation of impacts to rare, threatened, and endangered species. POTESTA's biologists have worked on natural gas projects within the core summer roosting and maternity range of the Indiana bat. This work provided the firm's biologists with considerable experience in identifying suitable Indiana bat habitat in Ohio, Kentucky, Virginia, and West Virginia. Other biologists within our office also have experience in bat surveys, echo location, bat identification and mussel surveys.

We have established professional relationships with local and regional experts on projects in our region. These relationships allow us to have access to recognized experts on the appropriate species on an as-needed basis. The advantage to the client is that this approach allows us to select the best individual for the task at hand.

These experts have specialized in the study of their species of interest for many years and are familiar with the life cycle, habitat requirements and sampling techniques for the species. POTESTA supplements these individuals with our experienced field staff, who are intimately familiar with the project, to constitute an effective team to respond quickly to threatened and endangered species issues. POTESTA provides final reports with additional information obtained from the noted expert, as well as relevant mapping and other supporting information.

This team approach allows for a complete evaluation of the potential impact a project may have on a species of concern. The most basic level of services in this area is a partial evaluation based only on literature reviews. An intermediate level of effort would be the literature review and a thorough field review of the project site to evaluate habitat. A complete evaluation would include the literature review, habitat evaluation, and extensive field collection program during the appropriate season of the year. Our subcontractors have the appropriate permits to collect the species in question.

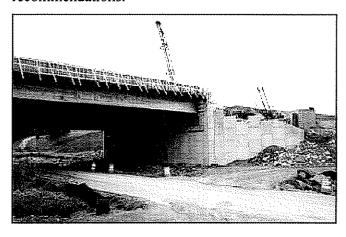


Geotechnical Engineering

Potesta & Associates, Inc.'s (POTESTA) engineers and geologists have extensive experience related to the geotechnical engineering and geological disciplines. These areas include subsurface investigations, monitoring well and piezometer installations, foundation design recommendations, slope stability analysis, and remedial designs as they relate to construction, mining, waste disposal, environmental remediation, and other projects.

SUBSURFACE INVESTIGATIONS

POTESTA's diverse staff of engineers and geologists is experienced in the many different facets of subsurface investigations. Our usual procedure is to attend an initial meeting with the client to establish requirements and expectations, conduct a preliminary site reconnaissance, and develop a recommended exploration program for your review and approval. Supplemental information from the local area is then obtained from readily available sources to assist the engineer or geologist in making final recommendations.



POTESTA can provide field engineers and geologists who are knowledgeable using the latest

technologies to assist in collecting and analyzing samples. Our knowledge of the proper procedures and familiarity with local conditions allows office and field personnel to adjust the investigative plan if unanticipated field conditions are found.

Our staff is familiar with the following items which can be associated with subsurface exploration:

- Drilling and Rock Coring Techniques (augers, rotary bits, GeoprobeTM, etc.)
- Sample Collection Methods (split spoons, shelby tubes, Geoprobe[™] sleeves, etc.)
- Classification and Logging of Soil and Rock Samples
- Monitoring Well and Piezometer Installation

SLOPE STABILITY ANALYSIS AND REMEDIAL DESIGN

Slope stability is often a major concern during the design and construction phases of many projects, especially those located in the Appalachian terrain. POTESTA's engineers are familiar with the various methods utilized to predict slope stability and are capable of performing the related analyses. Slope stability is critical for many projects such as analysis of existing or proposed soil embankments, rock fills, dam analysis and design, landfill design and operation, estimating the causation of slope failure, and designing remedial measures. Analyses can involve circular or sliding block methods, interface friction angles, and estimation of the strength parameters of the soil or rock. Slope stability analyses are performed on one of the most technologically advanced computer programs available and can be modified using site specific data.

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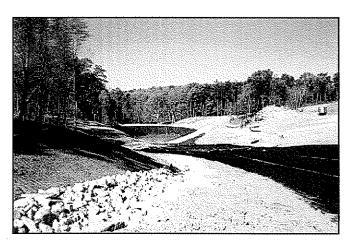


Hydrology and Hydraulics Design

Our engineers have extensive experience in the application of hydrology and hydraulic principles to the design of real world systems. These applications include:

- Drainage structure sizing
 - Stream relocations
 - Culverts
 - Channels
- Pond and dam design
 - Sediment ponds and basins
 - Spillways
 - Design/rehabilitation
 - Slurry impoundments
 - Lagoons
 - Dams
- Detention and detention systems
 - Ponds
 - Pipes
 - Underground bladders
- Floodplain Management Permits/Approval
- Floodway studies
 - FEMA (Federal Emergency Management Agency)
 - NFIP (National Flood Insurance Program)
 - Flood elevation surveys/certifications
 - Flood routing
- Dam break analysis
- · Hydrology surveys
- · Stream gauging
- Rainfall and flow data collection
- Stormwater drainage system design
- Pressure pipe systems
- Stream restoration plans
- Natural Stream Channel Design/Restoration
- Expert witness testimony

To complete these types of applications, our engineers, scientists, and surveyors work jointly to develop an effective and economical solution to your situation. Their analyses use widely accepted computer models.



Potesta & Associates, Inc. typically uses the following computer modeling programs:

- HEC RAS
- HEC HMS
- TR-20/TR-55
- StormCAD
- Culvert Master
- Flow Master
 Pond-Pac
- CORMIX

We have provided these services to a wide variety of public and private sector clients. Our staff not only understands the technical details, but is very experienced in working with the various state, federal, and local regulatory agencies. We know the level of detail they require and can obtain the necessary approvals in a timely manner.



Permitting Services

Potesta & Associates, Inc. (POTESTA) offers its clients exceptional expertise and experience when it comes to the permitting process, including all phases of application preparation, negotiations, modifications, compliance and renewal at all levels of government. Our permit services cover air, mining, water and waste disposal permits.

AIR

Our firm offers complete air permitting and consulting services to assist industry in complying with today's complex air quality regulations. Our staff has experience in identifying, characterizing and permitting air pollution sources for a variety of industries, including:

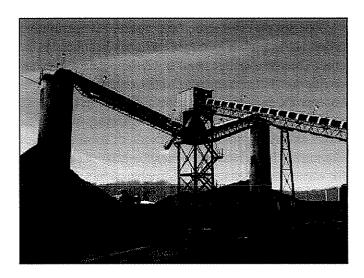
- Coating operations
- Petroleum and petrochemical operations
- · Chemical manufacturing
- Manufacturing facilities
- Mining
- Quarries
- Natural gas compressor stations
- Electric utilities

Our air quality experts have comprehensive knowledge of federal, state and local regulations, as well as experience in complex Title V applications. Our services include identification of potential air pollution sources, development of control strategies, preparation of permit applications, emissions inventories, compliance audits and regulatory liaison.

At both the state and federal levels, we help clients interpret and comply with air regulations, including the New Source Performance Standards (NSPS) and National Emissions Standards for Hazardous Air Pollutants (NESHAPS). We can suggest emissions control strategies to meet both current and anticipated regulations, including BACT, MACT and LAER.

MINING

In recent years, mining permits have become increasingly complex, requiring diverse expertise in mining techniques, engineering, environmental regulations, benthic studies, hydrogeology and hydrology. Our staff has broad experience in providing innovative solutions to various mining problems.



Although the objective of a permit application is to receive agency approval in a timely manner, the client does not benefit if the application does not allow for effective operations. We work with our clients to ensure that your operational needs are met while allowing for essential flexibility. Several members of our staff have mining industry experience, and they understand the requirements vital to an effective operation.

From the beginning of the permit process, POTESTA involves the reviewing agency to allow its concerns to be addressed prior to submittal of the application. Often, this reduces the need for review comments and revisions which could slow the approval process. Our thorough knowledge of the various phases and requirements of the permitting

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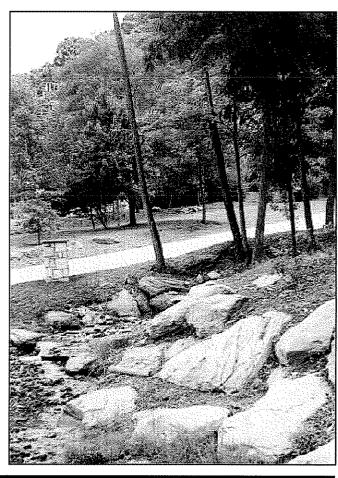
Potesta & Associates, Inc. has a significant body of work in site design for residential, commercial and industrial clients. Projects range from power plant siting to subdivision design. We have assisted numerous developers and development agencies with the creation of business industrial parks throughout West Virginia, and have been part of design teams for elementary, secondary and collegiate projects primarily associated with new building construction.

Our staff of civil, environmental, and geotechnical engineers; surveyors and environmental scientists can provide the following site planning and design services.

- Surveying topo and boundary
- Base mapping from aerial photography
- Geotechnical engineering
- Land planning
- Environmental issues evaluation and mitigation
- Site grading
- Vehicular and pedestrian circulation
- Utility design
- Site features
- Stormwater management plans

Some clients who have used our site design services include:

- West Virginia Development Office
- Development Authorities: Tucker, Wood and Roane Counties
- Bright Enterprises
- BIDCO (Capital Area Development Corporation)
- University of Charleston
- Timberwolf Development Corporation
- West Virginia Department of Environmental Protection
- West Virginia Division of Natural Resources
- Marshall University
- Architects: Associated Architects, Bastian & Harris, Architects, SEM Partners





Surveying and Mapping

Our surveyors are experienced in many aspects of surveying such as topographic mapping, boundary surveys (rural/farms, city lots, and subdivisions) and ALTA surveys, control surveys, flood certificate surveys, well location surveys, and construction surveys for layout of work, record drawings, and quantity measurements. Related areas include courthouse research, preparation of right-of-way plans, and verification of property owners. Potesta & Associates, Inc. (POTESTA) has licensed professional surveyors registered in West Virginia, North Carolina, South Carolina, Ohio, Virginia, and Pennsylvania. Their total combined surveying experience comes to well over 50 years.

POTESTA's surveyors use state-of-the-art equipment such as Topcon total stations, Trimble R-8 GNSS, and SMI Version 8 data collectors with SMI software. Reduction and design software used includes AutoCAD, Softdesk Civil/Survey design, Autodesk Land Design, Microstation, and InRoads design software.

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. These products can be supplied to our clients in AutoCAD and/or Microstation format.

Small topographic mapping projects can be completed in-house using the aforementioned process. Larger projects are better suited for mapping using aerial

photography.

POTESTA can provide the necessary surveying required for establishing ground control for aerial mapping. As a quality control measure, aerial mapping is field checked for accuracy by surveying cross sections or random points.

Surveys completed by POTESTA are performed by or under the direction of a professional licensed surveyor. Surveys and mapping are completed to the standards outlined by the National Map Standards as well as other



applicable quality standards.

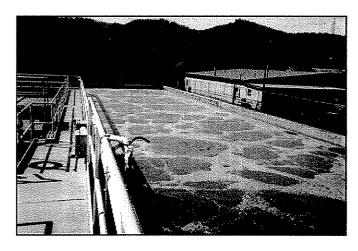
Our staff is experienced in global positioning surveys (GPS). GPS equipment, Trimble R-8 GNSS, and existing base stations are among POTESTA's surveying tools. Based upon the site location and ultimate use of the survey information, a recommendation is made to the client as to whether or not traditional survey or GPS is most applicable to their project.

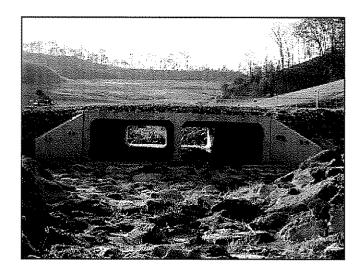
Water and Wastewater Engineering

Our professional staff is dedicated to providing quality engineering services for various types of water treatment and distribution systems, as well as wastewater management, collection and treatment systems. The following is a list of some of the services Potesta & Associates, Inc. is capable of providing:

WATER AND WASTEWATER DESIGN

- Feasibility studies
- Conceptual design
- Final design
- · Bidding and construction
- Construction monitoring
- Wastewater audits
- Wastewater minimization studies
- Engineer's cost estimates
- Small flows design (traditional and innovative treatment systems for low volume flows)
- · Sewage collection and treatment
- Water treatment and distribution
- Industrial wastewater treatment
- Remediation systems
- Landfill leachate treatment
- Storage tank design
- Flow measurement
- Surveying/GPS and mapping
- · Permitting and regulatory liaison
- Combined sewer overflow (CSO)
 Management, sampling and modeling





STORMWATER MANAGEMENT

- Hydraulic conveyance structure design (culverts, channels, drop inlets, etc.)
- Stormwater retention/detention pond design
- Stormwater pond modeling
- Floodplain identification and management strategies
- Hydrologic and hydraulic analysis and evaluations and modeling
- Construction monitoring
- Surveying
- Permitting and regulatory liaison



Wetlands

Wetlands play a significant role in business and industry. These unique aquatic habitats can present problems with regard to development of properties because they are protected by the Clean Water Act.

Potesta & Associates, Inc. (POTESTA) has a qualified staff of scientists and engineers who are trained and experienced in the identification and permitting of wetlands, the mitigation of displaced wetlands and the design of constructed wetlands.

INVESTIGATION AND DELINEATION

Wetland investigations and delineations are conducted by POTESTA's scientists as part of pre-development site investigation and environmental impact assessments. During a wetland investigation, the site is examined for the presence of wetland indicators, including specific hydrology, soils and vegetation. Any wetlands discovered are delineated in accordance with the U.S. Army Corps of Engineers Wetlands Delineation Manual (1987).

PERMITTING

Once wetlands have been identified and delineated, POTESTA can prepare application packages for permits to fill and/or dredge these areas for further development. The U. S. Army Corps of Engineers (COE) is the agency responsible for granting wetland permits under Section 404 of the Clean Water Act. In addition to the COE permit, individual states must approve each permit granted, certifying that it meets the state's water quality standards.

Our employees have established working relationships with both the federal and state agencies in this region. We are very familiar with the data required and can work with the agencies to obtain timely review and issuance of permits.



MITIGATION AND DESIGN

Wetland mitigation and design come into play when wetlands being displaced or filled are large enough to require mitigation under state and federal standards. In some cases, wetland mitigation can be achieved solely through the payment of a fee to a mitigation bank or fund, established for the creation, protection or enhancement of other wetland areas. In this case, POTESTA can prepare an appropriate mitigation offer and negotiate with state and federal authorities for its approval.

Depending upon the availability of suitable sites, wetland mitigation can also consist of the actual design and construction of new wetlands, or the enhancement of existing wetlands. Our staff includes qualified engineers experienced in the design of created wetlands. Working as a team with staff biologists, we can produce a cost-effective functional design for presentation to state and federal authorities. Once approved, we can provide monitoring of the construction of the new wetlands.

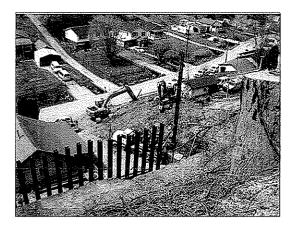


GEORGE'S CREEK (LUCAS) LANDSLIDE MAINTENANCE

West Virginia Department of Environmental Protection-Office of Abandoned Mine Lands

Kanawha County, West Virginia

POTESTA was retained by the West Virginia Department of Environmental Protection - Office of Abandoned Mine Lands (WVDEP) to evaluate and perform geotechnical engineering services for a landslide related to historic mining activity which was threatening a nearby residential structure.



A portion of the existing hillside immediately adjacent to the rear of the residential structure was excavated prior to construction of the structure to a near vertical slope exposing weathered shale and a coal seam near the slope's base. The exposed coal seam was determined to be the No. 2 Gas seam which was reportedly mined in the 1950s. Some drainage was noted flowing from the coal seam and the resulting water was conveyed through a nearby culvert to Georges Creek. Attempts were made by WVDEP to excavate loose rock and soil from the hillside in an effort to improve stability of the slope. Following this initial work the slope continued to slough with periodic small slides and slope

movement believed to be caused by continued subsidence of the underground mine works.

POTESTA performed a subsurface exploration to assist in evaluating the landslide condition, including the type and condition of the rock located in the slope as well as the attitude, thickness and condition of the underlying coal seam. POTESTA survey crews also completed a topographic survey of the affected area including the surrounding residential structure, drains and wooded hillside. The remedial measures to correct the landslide area included the design of a 25-foot high steel soldier beam and concrete lagging retaining wall with sloped, compacted backfill constructed from on-site materials. The retaining wall design required the application of a rock anchor tie-back system due to mine voids existing at the base of the hillside slope that were encountered during the subsurface exploration

As part of the project, POTESTA assisted the WVDEP with contract administration and performed construction observation services during the construction phase.

POTESTA & ASSOCIATES, INC.

Project Abstract

MAHAN TIPPLE AND REFUSE AML MAINTENANCE PROJECT Thaxton Construction Company

Fayette County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by Thaxton Construction Company to provide construction layout for the Mahan Tipple and Refuse Maintenance AML Project in Fayette County, West Virginia. Thaxton Construction Company had been contracted by the West Virginia Division of Environmental Protection (WVDEP) Office of Abandoned Mine Lands and Reclamation (AML) to perform maintenance on an AML refuse pile, originally reclaimed in the late 1980's, that had a significant failure near the toe of the refuse pile.

Proposed maintenance included excavation of material near the toe, installation of a rock buttress at the toe (approximately 1,000 cubic yards), installation of two grouted riprap channels totaling approximately 300 feet, and regrading and revegetation. Total proposed excavation was approximately 10,000 cubic yards. Construction documents for the project were prepared by another consultant.

POTESTA's tasks for the project included:

- 1. Construction layout of lines/grades for earthwork, including survey of "pre-construction" and "post-construction" cross sections.
- 2. Construction layout of proposed channels.
- 3. Computation of (or assistance with) certain as-built quantities, including earthwork, channels, and revegetation.
- 4. Submittal of "post-construction" cross section drawings depicting existing and final grades.

POTESTA & ASSOCIATES, INC.

RED JACKET REFUSE PILE CONSTRUCTION LAYOUT-AML RECLAMATION PROJECT

Thaxton Construction Company

Mingo County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by Thaxton Construction Company to provide construction layout for the Red Jacket Refuse Pile AML Project in Mingo County, West Virginia. Thaxton Construction Company was contracted by the West Virginia Division of Environmental Protection (WVDEP) Office of Abandoned Mine Lands and Reclamation (AML) to perform reclamation on an AML refuse pile.

Proposed reclamation included regrading a 500-foot long coal refuse pile and revegetation. Construction documents were prepared by others.

POTESTA's tasks for the project include:

- 1. Survey of "pre-construction" and "post-construction" cross sections.
- 2. Computation of (or assistance with) certain as-built quantities, including earthwork and revegetation.
- 3. Submittal of "post-construction" cross section drawings depicting existing and final grades.

POTESTA & ASSOCIATES, INC.

EVALUATION OF MINE DRAINAGE FROM AML SITES, AS PART OF ENVIRONMENTAL SITE ASSESSMENT Jackson & Kelly, PLLC

McDowell County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by Jackson & Kelly to perform an environmental site assessment (ESA) of approximately 1,000 acres of mining property in McDowell County, West Virginia. The mining property consisted of Surface Mining Control and Reclamation Act (SMCRA) mining sites and pre-SMCRA mining sites (i.e., AML). Included in the ESA was an evaluation of mine drainage from the AML sites, as well as the SMCRA sites. AML sites included unreclaimed refuse piles, open and draining portals, and remnants of other mining structures. The intent of the mine drainage evaluation portion of the ESA was to identify acid mine drainage (AMD) sources on the property, and their potential liability for a property purchaser.

The evaluation of mine drainage included:

- 1. Records Review
- 2. Interviews with Regulators
- 3. Field Reconnaissance, Including Water Sampling

Records reviewed included the water quality sections of SMCRA permits (including attempting to identify documentation confirming whether AMD was from SMCRA or AML sites) and the 303(d) TMDL list of streams impaired by acid mine drainage. Regulatory officials were also asked about known AMD sites.

Field reconnaissance and water quality sampling was conducted to:

- 1. Identify and characterize mine drainage from pre-SMCRA (i.e., AML) and SMCRA mining operations.
- 2. Assess the quality of surface waters draining the property.

SMCRA sites were located based on the records review. Pre-SMCRA (i.e., AML) sites were located based on the records review, review of United States Geological Survey mapping, interviews with regulatory officials and other people familiar with the property, by chance encounter during the field reconnaissance, and by "chasing" low pH and/or high specific conductivity field readings and/or stream discoloration up a stream until a mine drainage source was identified.

Evaluation of Mine Drainage Page 2

Streams and mine drainage sources were assessed via intensive field sampling including field sampling of most "unnamed tributaries" with follow-up water quality sampling/analyses of certain streams and mine drainage sources via a laboratory.

Field sampling primarily consisted of field readings of pH, specific conductivity, temperature, and visual estimates of flow. Laboratory analysis primarily consisted of pH, acidity, alkalinity, total iron, total aluminum, total manganese, total dissolved solid, total suspended solids, and sulfates.

A total of 24 field readings were taken with a follow-up 12 samples being collected for laboratory analyses. The water quality sampling confirmed a limited amount of AML AMD (actually alkaline, but with high total iron). However, the water quality sampling did not indicate that the AMD was causing violations of receiving stream water quality standards.

The results of the mine drainage evaluation were summarized in a report, along with other findings of the ESA.

POTESTA & ASSOCIATES, INC.

EVALUATION OF MINE DRAINAGE FROM AML SITES, AS PART OF ENVIRONMENTAL SITE ASSESSMENT Jackson & Kelly PLLC

Mingo County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by Jackson & Kelly to perform an environmental site assessment (ESA) of approximately 5,000 acres of mining property in Mingo County, West Virginia. The mining property consisted of Surface Mining Control and Reclamation Act (SMCRA) mining sites and pre-SMCRA mining sites (i.e., AML). Included in the ESA was an evaluation of mine drainage from the AML sites, as well as the SMCRA sites. AML sites included unreclaimed refuse piles, open and draining portals, and remnants of other mining structures. The intent of the mine drainage evaluation portion of the ESA was to identify acid mine drainage (AMD) sources on the property, and their potential liability for a property purchaser.

The evaluation of mine drainage included:

- 1. Records Review
- 2. Interviews with Regulators
- 3. Field Reconnaissance, Including Water Sampling

Records reviewed included the water quality sections of SMCRA permits (including attempting to identify documentation confirming whether AMD was from SMCRA or AML sites) and the 303(d) TMDL list of streams impaired by acid mine drainage. Regulatory officials were also asked about known AMD sites.

Field reconnaissance and water quality sampling was conducted to:

- 1. Identify and characterize mine drainage from pre-SMCRA (i.e., AML) and SMCRA mining operations.
- 2. Assess the quality of surface waters draining the property.

SMCRA sites were located based on the records review. Pre-SMCRA (i.e., AML) sites were located based on the records review, review of United States Geological Survey mapping, interviews with regulatory officials and other people familiar with the property, by chance

EVALUATION OF MINE DRAINAGE Page 2

encounter during the field reconnaissance, and by "chasing" low pH and/or high specific conductivity field readings and/or stream discoloration up a stream until a mine drainage source was identified.

Streams and mine drainage sources were assessed via intensive field sampling including field sampling of most "unnamed tributaries" with follow-up water quality sampling/analyses of certain streams and mine drainage sources via a laboratory.

Field sampling primarily consisted of field readings of pH, specific conductivity, temperature, and visual estimates of flow. Laboratory analysis primarily consisted of pH, acidity, alkalinity, total iron, total aluminum, total manganese, total dissolved solid, total suspended solids, and sulfates.

A total of 29 field readings were taken with a follow-up 24 samples being collected for laboratory analyses. The water quality sampling confirmed AML AMD from several deep mine sites. However, the water quality sampling did not indicate that the AMD was causing violations of receiving stream water quality standards.

The results of the mine drainage evaluation were summarized in a report, along with other findings of the ESA.

POTESTA & ASSOCIATES, INC.

EVALUATION OF MINE DRAINAGE FROM AML SITES, AS PART OF ENVIRONMENTAL SITE ASSESSMENT Jackson & Kelly, PLLC

McDowell County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by Jackson & Kelly to perform an environmental site assessment (ESA) of approximately 1,000 acres of mining property in McDowell County, West Virginia. The mining property consisted of Surface Mining Control and Reclamation Act (SMCRA) mining sites and pre-SMCRA mining sites (i.e., AML). Included in the ESA was an evaluation of mine drainage from the AML sites, as well as the SMCRA sites. AML sites included unreclaimed refuse piles, open and draining portals, and remnants of other mining structures. The intent of the mine drainage evaluation portion of the ESA was to identify acid mine drainage (AMD) sources on the property, and their potential liability for a property purchaser.

The evaluation of mine drainage included:

- 1. Records Review
- 2. Interviews with Regulators
- 3. Field Reconnaissance, Including Water Sampling

Records reviewed included the water quality sections of SMCRA permits (including attempting to identify documentation confirming whether AMD was from SMCRA or AML sites) and the 303(d) TMDL list of streams impaired by acid mine drainage. Regulatory officials were also asked about known AMD sites.

Field reconnaissance and water quality sampling was conducted to:

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- 2. Assess the quality of surface waters draining the property.

SMCRA sites were located based on the records review. Pre-SMCRA (i.e., AML) sites were located based on the records review, review of United States Geological Survey mapping, interviews with regulatory officials and other people familiar with the property, by chance encounter during the field reconnaissance, and by "chasing" low pH and/or high specific conductivity field readings and/or stream discoloration up a stream until a mine drainage source was identified.

Evaluation of Mine Drainage Page 2

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Field sampling primarily consisted of field readings of pH, specific conductivity, temperature, and visual estimates of flow. Laboratory analysis primarily consisted of pH, acidity, alkalinity, total iron, total aluminum, total manganese, total dissolved solid, total suspended solids, and sulfates.

A total of 24 field readings were taken with a follow-up 12 samples being collected for laboratory analyses. The water quality sampling confirmed a limited amount of AML AMD (actually alkaline, but with high total iron). However, the water quality sampling did not indicate that the AMD was causing violations of receiving stream water quality standards.

The results of the mine drainage evaluation were summarized in a report, along with other findings of the ESA.

POTESTA & ASSOCIATES, INC.

GENERAL CONSULTING SERVICES Kanawha Eagle, LLC

Winifrede, West Virginia

Kanawha Eagle, LLC operates a deep mine complex in eastern Kanawha County. Potesta & Associates, Inc. (POTESTA) has provided a wide variety of engineering services to assist in their day-to-day and long-term operations. Among the many services that have been provided are:

- Surveying.
- Design of new decant system including WVDEP and MSHA approvals.
- Redesign of Stages 6 and 7 of the slurry impoundment.
- Assistance with slurry injection permit.
- Compaction tests on the coarse coal refuse placement in both the slurry impoundment and the side hill embankment.
- Foundation recommendations for a new conveyor belt line and coal storage silos.
- Weekly inspections of the impoundment and preparation of quarterly reports.
- Performance of an environmental/reclamation liability assessment, including evaluation of abandoned mine lands (pre-1977 mining) on the property.
- Construction monitoring during rehabilitation of emergency spillway.
- Assistance with a permit modification including drainage calculations.
- Preparation and annual update of Emergency Response Plan.
- Modification of underdrain system.
- Ownership and control change for a river loadout.

POTESTA & ASSOCIATES, INC.

LYNN BROOK (BOYD) DRAINAGE AML RECLAMATION PROJECT

J&B Excavating, Inc.

Kanawha County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by J&B Excavating, Inc. to provide construction layout for the Lynn Brook (Boyd) Drainage AML Project in Kanawha County, West Virginia. J&B Excavating, Inc. was contracted by the West Virginia Division of Environmental Protection (WVDEP) Office of Abandoned Mine Lands and Reclamation (AML) to perform reclamation on an AML landslide.

Proposed reclamation included mobilization and demobilization, construction layout, clearing and grubbing, unclassified excavation, permanent erosion control matting, channels, mine seals, subsurface drain, manhole, culvert headwall, sediment control, and revegetation. Total proposed excavation was approximately 5,540 cubic yards. Construction documents for the project were prepared by another consultant.

POTESTA's tasks for the project include:

- 1. Construction layout of lines/grades for earthwork, including survey of "pre-construction" and "post-construction" cross sections.
- 2. Computation of (or assistance with) certain as-built quantities, including earthwork, channels, and revegetation.
- 3. Submittal of "post-construction" cross section drawings depicting existing and final grades.

POTESTA & ASSOCIATES, INC.

NEW WEST HOLLOW IMPOUNDMENT

Kanawha Eagle Limited Liability Company

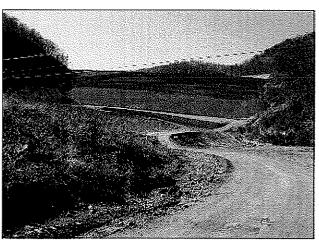
Winifrede, West Virginia

Potesta & Associates, Inc. (POTESTA) has provided a number of different services to Kanawha Eagle Limited Liability Company over the past three years. Kanawha Eagle operates a slurry impoundment and a coarse refuse side hill embankment with slurry cells. The following is a list of services provided:

- Development of new and/or revised staging plans for refuse disposal.
- Preparation of permit modifications that are required as a result of changes in the refuse disposal plans.
- Seven-day inspections at both refuse disposal facilities; required by MSHA.
- Annual certifications required by MSHA (for both facilities).
- Quarterly inspections and reports required by WVDEP (also for both facilities).
- Nuclear density testing of the coarse refuse used to construct the embankments.
- Decant pipeline design.
- ▶ Underdrain design.
- ► Construction monitoring.
- Surveying.
- Development and annual updating of the Monitoring and Emergency Warning Plan and Procedures.

POTESTA has also provided Kanawha Eagle with geotechnical services including exploratory drilling and foundation recommendations for a new refuse belt and two concrete silos.

POTESTA is currently preparing an Underground Injection Control permit (required by WVDEP, Office of Water Resources) for Kanawha Eagle so that they can dispose of slurry in an underground mine.



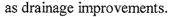
POTESTA & ASSOCIATES, INC.

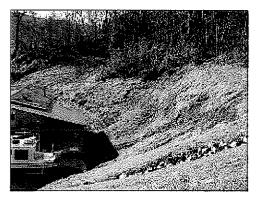
WILLIAMSON (HATFIELD) NURSING HOME LANDSLIDE MAINTENANCE

West Virginia Department of Environmental Protection-Office of Abandoned Mine Lands

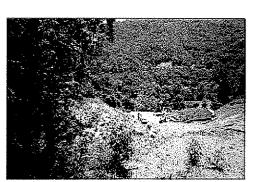
Williamson, West Virginia

POTESTA was retained by the West Virginia Department of Environmental Protection - Office of Abandoned Mine Lands (WVDEP) to evaluate and perform geotechnical engineering services for a landslide below the parking lot of the Mingo Manor Nursing Home and above the Hatfield residence. The project area was the site of a former WVDEP reclamation project 15 years earlier. The previous project included regrading of the mine spoil that had been formerly disposed of in this area as well





A landslide occurred in the hillside in December 2003, threatening damage to the residence at the base of the hillside, as well as causing damage to the nursing home parking lot at the top of the hillside and potentially threatening damage to structures at the nursing home facility.



POTESTA performed a subsurface exploration to assist in evaluating the landslide condition. The remedial measures to correct the landslide area included the design of a 456-foot steel soldier beam and concrete lagging retaining wall. The retaining wall included a rock anchor tie-back system to minimize the potential for additional settlement of the nursing home parking lot area and potential future damage to the structures within the nursing home facility.

As part of the project, POTESTA assisted the WVDEP with contract administration and performed construction observation services during the construction phase of the project.

POTESTA & ASSOCIATES, INC.

TUPPERS CREEK-(LAYNE) LANDSLIDE AML RECLAMATION PROJECT

Thaxton Construction Company

Kanawha County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by Thaxton Construction Company to provide construction layout for the Tuppers Creek (Layne) Landslide AML Project in Kanawha County, West Virginia. Thaxton Construction Company was contracted by the West Virginia Division of Environmental Protection (WVDEP) Office of Abandoned Mine Lands and Reclamation (AML) to perform reclamation on an AML landslide.

Proposed reclamation included mobilization and demobilization, construction layout, quality control, site preparation, access road resurfacing, unclassified excavation, erosion control matting, gravity line, manholes, wet mine seals, underdrain, energy dissipater, erosion and sediment control, and revegetation. Total proposed excavation was approximately 2,600 cubic yards. Construction documents for the project were prepared by another consultant.

POTESTA's proposed tasks for the project include:

- 1. Construction layout of lines/grades for earthwork, including survey of "pre-construction" and "post-construction" cross sections.
- 2. Computation of (or assistance with) certain as-built quantities, including earthwork and revegetation.
- 3. Submittal of "post-construction" cross section drawings depicting existing and final grades.

POTESTA & ASSOCIATES, INC.

CLENDENIN COMPRESSOR STATION LANDSLIDE EVALUATION/REPAIR

Columbia Natural Gas

Clendenin, West Virginia

POTESTA was retained by Columbia Natural Gas (Columbia) to evaluate and design remedial measures for a landslide at Columbia's Clendenin Compressor Station. The landslide was located adjacent to the office and maintenance building at the facility and threatened to damage the structure.

A landslide had occurred within the steep slope adjacent to the building in August 2002, threatening damage to the adjacent office and maintenance building.

POTESTA provided surveying services to map the project area and performed a subsurface exploration to assist in evaluating the landslide condition. The remedial measures to correct the landslide area included the design of an approximately 200-foot steel soldier beam and concrete lagging retaining wall. The retaining wall included a rock anchor tie-back system

As part of the project, POTESTA assisted Columbia with contract administration and performed construction observation services during the construction phase of the project.



During construction



Finished wall with anchors

POTESTA & ASSOCIATES, INC.

LANDSLIDE STABILIZATION PROJECT Columbia Gas Transmission

Blue Creek, West Virginia

Columbia Gas Transmission (Columbia) operates and maintaines a natural gas storage field north of Charleston, West Virginia at Blue Creek. Potesta & Associates, Inc. (POTESTA) was contacted during the fall of 2004 to provide professional geotechnical services related to the preparation of a stabilization plan for a localized soil slope failure approximately one acre in size. The affected area was associated with a valve set and feeder line servicing a storage field well which was unhooked taking the well out of service.

POTESTA worked with Columbia over the winter of 2004-05 to design a regrading plan for the slide mass which included perimeter ditches and drainage control as well as the construction of an underdrain and toe-key for the slide. A high pressure gas main located immediately above the top of the slide had to remain in service. During the work the slide mass continued to move up the hill threatening the integrity of the active high pressure gas main. POTESTA worked with Columbia and the contractor during the regrading to provide an emergency plan to stabilize the gas main which included the excavation of sandstone riprap from an area immediately





adjacent to the site which was utilized as buttressing material stabilizing the gas main and the slide area.

The project, which was finalized during the late winter months, resulted in many field changes which were coordinated with both the owner and the contractor to insure the integrity of the gas main resulting in the continued service of natural gas produced from the field during peak demand months.

POTESTA & ASSOCIATES, INC.

MINE DRAINAGE TREATMENT SYSTEM Elk Run Coal Company

Boone County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by a large coal company to design a collection and treatment system for mine seeps from a previously reclaimed surface mine site. The mine seepage had levels of iron and manganese above allowable discharge levels, and the downstream area below the valley fill was limited in space available for treatment. POTESTA assisted the company in locating the problem seepage and designing a proposed treatment system. POTESTA's scope of work included:

- ► Field walkovers.
- Record and data reviews.
- Topographic surveying of the area proposed for the treatment system and location of the seeps.
- Measurement of seep flow rates.
- Detailed hydrologic and hydraulic modeling of the contributing watershed and anticipated base flow of mine seepage. Based on the initial calculations and space available on interconnected system of seven ponds was proposed. Interconnected pond hydraulic modeling was performed to determine the appropriate spillway sizes and estimated 100-year, 24-hour storm elevation.
- Excavation/grading plans for the seven pond systems including pond storage volumes and excavation quantities.
- Calculation of required liming rates to reduce iron and manganese to acceptable concentrations.
- Design of the pumping and piping network to collect the problem seepage and direct it to the proposed pond treatment system.

POTESTA & ASSOCIATES, INC.

MINE WATER TREATABILITY STUDY Eastern Associated Coal Corp.

Guyses Run of Tygart Valley River, Marion County, West Virginia

A major coal company was having difficulty meeting permit limits from an AMD treatment facility which discharged into a tributary of the Tygart Valley River. Several vendors had visited the site and attempted to meet the permit limits with an assortment of chemical treatment options. Potesta & Associates, Inc. (POTESTA) determined that the wastewater was supersaturated with carbon dioxide and that when the pH of the wastewater was adjusted the carbonate radical became insoluble and formed a precipitate on the bed of the stream. POTESTA did stream sampling (water chemistry and benthic macroinvertebrates), upstream and downstream of the discharge, to determine the extent of the impact on the discharge on the receiving stream. Substrate sampling plates were also placed in the stream to determine the rate of deposition on the streambed.

The field work and reporting were completed in 1998. POTESTA billed approximately \$10,000 to the client for this work. The overall project costs are unknown but the company spent approximately \$3,500,000 to construct the treatment facility.

POTESTA & ASSOCIATES, INC.