ORIGINAL

EXPRESSION OF INTEREST FOR PROFESSIONAL ENGINEERING DESIGN SERVICES AND CONSTRUCTION MONITORING SERVICES FOR THE GREENBRIER HOLLOW REFUSE PILE PROJECT RFQ NO. DEP15226

Prepared for:

West Virginia Department of Environmental Protection

Department of Environmental Protection
Office of Abandoned Mine Lands and Reclamation
601 57th Street, SE
Charleston, West Virginia 25304

RECEIVED

Prepared by:

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PURCHASING DIVISION STATE OF WV

Potesta & Associates, Inc.

7012 MacCorkle Avenue, SE Charleston, West Virginia 25304

Phone: (304) 342-1400 Fax: (304) 343-9031

E-mail: potesta@potesta.com

CONTACT: Mr. Dana Burns, Vice President

Project No. 0101-10-0540

December 8, 2010





TRANSMITTAL MEMO

7012 MacCorkle Avenue, SE, Charleston, WV 26304 = Phone: (304) 342-1400 = Fax: (304) 34

To:	Mr.	Chuck Bowman		Date:	December 8, 2010
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EXPRESSION OF INTEREST FOR PROFESSIONAL ENGINEERING DESIGN SERVICES AND CONSTRUCTION MONITORING SERVICES FOR THE GREENBRIER HOLLOW REFUSE PILE PROJECT RFQ NO. DEP15226

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 a revised Engineer's Cost Estimate, review of plan and specification and other miscellaneous services as may be required for the Greenbrier Hollow Refuse Pile Project located in McDowell County, West Virginia. The project will consist of:

- Creating diversion channels, ditches and/or underdrains to transport drainage.
- Reclaiming/regrading refuse pile.
- Installing wet seals.
- Revegetating of all areas disturbed during construction.

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, geotechnical and mining engineering are areas of extensive expertise at POTESTA. We have worked on numerous engineering projects (ranging from site grading and drainage plans for university dorms and commercial/presidential developments, to power plant foundations to mine layouts/reclamation of abandoned mine lands) 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.

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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 Explorations
- 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:

- 15 Engineers, Including 10 Professional Engineers
- 19 Scientists (Biologists, Ecologists, Environmental Scientists, Etc.)
- 3 Geologists/Hydrogeologists/Geological Scientist
- 1 Hydrologist
- 8 Surveyors
- 5 CADD Operators/Designers
- 7 Technicians/Construction Monitors
- 1 Chemist
- 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 80 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 environmental remediation 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 two PhD's and numerous others with master's 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. We have three survey crews and the capability to add a fourth crew if necessary.

POTESTA's surveyors use state-of-the-art "Field to Finish" equipment such as total station instruments, Trimble R-8 Glonass, data collectors, AutoCAD 2010, Autodesk Land Desktop and Autodesk Civil 3D 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 numerous other WVDEP, AML projects since 2003. Mr. Burns' experience includes over 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 40 AML projects in West Virginia. Mr. Kiser has over 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 Greenbrier Hollow Refuse Pile Project.

POTESTA has three other P.E.s with AML and related design experience in Messrs. Vince Ammirato, Bill Drinkard and Patrick Ward. Their individual experiences and capabilities are discussed in further detail later in this section and in **Appendix D**.

POTESTA has an additional project manager/project engineer in Mr. Chris Grose who has worked on numerous WVDEP, AML projects. Mr. Grose has 20 years of experience and 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 Greenbrier Hollow Refuse Pile 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; project engineers such as Jason Gandee, Robert Ammirato, P.E., Jarrett smith, P.E., 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 contained 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.

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 60 days are required for submittal of deliverables for the Greenbrier Hollow Refuse Pile Project. We stand ready to meet your timeframe.

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 60 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

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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 Greenbrier Hollow Refuse Pile 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 Greenbrier Hollow Refuse Pile 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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Charleston, WV

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Potesta & Associates, Inc.

7012 MacCorkle Avenue SE

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

Request for Quotation

DEP15226

22AGE 1

CHUCK BOWMAN
304-558-2157

ENVIRONMENTAL PROTECTION
DEPARTMENT OF
OFFICE OF AML&R
5 601 57TH STREET SE
CHARLESTON, WV
25304 304-926-0499

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l Arce F	restaen.	ا	3 ⊥	15090	00		1	AUDKESS CHAN	GES TO BE NOTED	ABOVE

4 (4	WEST VIRGINIA AML CONSULTANT	н	ENVIRONMENTAL AL QUALIFICATION	PROTECTION QUESTIONNAIRE Attachment	ment "B"
PROJECT NAME Greenbrier Hollow Refuse F	Pile	DATE (DAY, MONTH, 8, De	H, YEAR) December, 2010	FEIN 311509066	
1. FIRM NAME		2. HOME OFFICE B	E OFFICE BUSINESS ADDRESS 7012 MacCorkle Avenue, SE	3. FORMER FIRM NAME	
Potesta & Associates, Inc.		Charleston,	2		
4. HOME OFFICE TELEPHONE	5. ESTABLISHED	SHED (YEAR)	6. TYPE OWNERSHIP	6a. WV REGISTER	ED DBE Business
(304) 342-1400	1997		Partnership Joint-Venture	Enterprise) YES	
III	ADDRESS/	LEPHONE/ PER	IN CHARGE/ NO. AML DE	ER.	
7012 MacCorkle Avenue, SE, a Names of Deincipal OFFICERS	Charleston,	WV 25304 /	(304) 342-1400 / Dana L. B	ta L. Burns / 87	o,
. Names of Frincish Ronald R. Potesta, Dana L. Burns, Vice Laidley Eli McCoy,	~ 1	Sure Seci			
9. PERSONNEL BY DISCIPLINE					
401		STS STS CAL ENGINEERS MENTAL ENGINEER ORS ISTS	1 LANDSCAPE ARCHITECTS 1 MECHANICAL ENGINEERS 2 MINING ENGINEERS PHOTOGRAMMETRISTS PLANNERS: URBAN/REGIONAL 1 SANITARY ENGINEERS 3 SOLLS ENGINEERS 6 2011S ENGINEERS	CCTS 1 STRUCTURAL ENGINEER SERS 10 SURVEYORS S 1 TRANSPORTATION ENGINEERS SEGIONAL 1 SAFETY/INDUSTRIAL HYGIENE SS 2 CHEMIST OTHER	EER NGINEERS NOLOGIST L HYGIENE
1 DESIGNERS DRAFTSMEN	1 HYDROLOGISTS 1 TOXICOLOGIST	OGISTS OGIST	ZSPECIFICATION WRITERS 7 ENVIRONMENTAL SCIENTIST	IENTIST	
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.	ISTERED PROFESSIC and Mining must this type of work	ESSIONAL ENGINEE must provide sup		11 that qualifies them to	EI
10. HAS THIS JOINT-VENTURE WORKED TOGETHER	RKED TOGETH	ER BEFORE?	YES UNO	N/A	

11. OUT: 7 KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED Quescionnaire".	TO USED. Attach	"AML Consultant Confidential Quali ration
NAME AND ADDRESS: Digital Graphic Manning	SPECIALTY:	WORKED WITH BEFORE
172 Imboden Drive, Suite 13 Winchester, Virginia 22603	Aerial Photography and Mapping	X Yes
NAME AND ADDRESS: Strum Environmental Services Inc	SPECIALTY:	WORKED WITH BEFORE
Brushy Fork Road Bridgeport, West Virginia 26330	Environmental and Coal Related Laboratory	X Yes
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
1est Dotting Services 140 Mong Road Scenery Hill, Pennsylvania 15360	Soil and Rock Boring	X Yes
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
510 C Street South Charleston, West Virginia 25303	Soils and Concrete Testing	X Yes
NAME AND ADDRESS:	SPECIAL TV:	WORKED WITH BEFORE
NAME AND ADDRESS.		Yes Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
NAME AND ADDRESS.	SPECIAL TV:	No WORKED WITH BEFORE
		Yes
		oN N

it relates to AML projects in West Virginia. POTESTA's staff has worked on over 70 AML projects that involved sizing channels, culverts, and waterlines. POTESTA has developed well over 100 storm excavated materials to generate acidity, and analysis of coal refuse to determine the potential for 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 70 AML projects dating back to 1986, including landslide investigation and abatement, mine subsidence POTESTA's Description and Number of Projects: POTESTA's staff routinely develop contour mapping for use with design. 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 principal engineers have extensive experience with preparing design plans for refuse piles. Many Description and Number of Projects: POTESTA's staff is experienced in hydrology and hydraulics as of the previous AML projects won reclamation awards including: Bear Run Refuse; Kimball Refuse projects involving soil science, including slope stability and revegetation. POTESTA is experienced in soil analysis as it relates to this project. POTESTA's principal engineers have Piles; Owings Mine Complex; Pine Creek (Omar) Refuse; Turner-Douglas Complex; Grass Run Refuse. Description and Number of Projects: POTESTA's principal-in-charge, Dana L. Burns, P.E. and two stabilization projects, acid mine drainage treatment, refuse piles, mine drainage, mine portal including geotechnical and environmental soil analysis. POTESTA's staff has worked on 30+ AML revegetation requirements, acid-base accounting of rock samples to evaluate the potential water management plans for mines, industrial facilities and new site development projects seal, and water supply projects. 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? These projects were completed by Dana Burns, Mark Kiser, and Terry Moran. your firm produce its own Aerial Photography and Develop Contour Mapping? Is your firm experienced in hydrology and hydraulics? Is your firm experienced in Abandoned Mine Lan Is your firm experienced in Soil Analysis? throughout West Virginia. reprocessing. five years. Does YES YES YES YES S N \dot{c} \Box m m

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

designs for municipalities, WVDEP AML, and private utilities. POTESTA's staff includes one project Our staff has worked on 80+ evaluations of aquifer degradation. POTESTA has performed over 40 water line design projects totaling several manager, Terence C. Moran, PE, who has managed design of numerous AML waterlines, including 20+ mile Cow Creek-Sarah Ann Extension and 30+ mile/2,800 GPM Water Treatment Plant Mill Creek waterline design. 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 We are also exceptionally well qualified to evaluate aquifer Regional Water Supply project. We are also exceptionally degradation, including aquifer degradation by AML sites. hundred miles of installed water line. YES

2

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

13. PEF AL HISTORY STATEMENT OF PR data-out keep to essentials)	PRINCIPALS AND ASSOCIATE ESPOI	ESPONSIBLE FOR AML PROJECT DESIGN	[(Furnish compl
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Burns, Dana L. Vice President	YEARS OF AML DESIGN EXPERIENCE: 22	YEARS OF AML RELATED DESIGN EXPERIENCE: 31	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 20
Brief Explanation of Responsibilities	So		
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 coordin	n-charge for this project with his manager or principal-in-charge on projects. He will ensure the pers	significant exp three open end onnel required he State of Wes	erience with AML type projects. contracts for WVDEP, AML from to efficiently complete this it Virginia.
EDUCATION (Degree, Year, Specialization) MS, 1979, Civil Engineering with E BS, 1978, Civil Engineering	nvironmental Engineering	Emphasis	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	LIONS	REGISTRATION (Type, Year, St	State)
West Virginia Coal Association American Society of Civil Engineers West Virginia Association of Consultin American Consulting Engineering Counci	tion Engineers of Consulting Engineers ering Council - Trans Committee	PE, 1985, WV PS, 1995, WV	
ISTORY STATEMENT OF	AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT DESIGN	[(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Kiser, D. Mark Chief Engineer	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 26	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 20
Brief Explanation of Responsibilities	<i>ω</i>		
As Chief Engineer, with significant expedrainage channelization, he will serve a QA/QC for the various draft submissions	erience in coal refuse as a project manager. and final construction	ion c will	lesign and mine portal closures and also provide constructability reviews and
EDUCATION (Degree, Year, Specialization)	ion)		
BS, 1984, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	LIONS	REGISTRATION (Type, Year, St PE, 1990, WV PE, 1998, IN PE, 1998, SC Licensed Remediation S	State) Specialist, 1998, WV

13. PEF AL HISTORY STATEMENT OF PRINC data-out keep to essentials)	PRINCIPALS AND ASSOCIATE ESPON	ESPONSIBLE FOR AML PROJECT DESIGN (Furnish	(Furnish compl
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AMI RELATED DESIGN	YEARS OF DOMESTIC
Moran, Terence C. Senior Engineer	18	EAFERIENCE: 21	WAIEKLINE DESIGN EXPERIENCE: 21
Brief Explanation of Responsibilities			
Mr. Moran will serve as project manager coordi subconsultants. Mr. Moran has served as a probetween 1989 and 1999. More recently, he has including water studies and reclamation planswill also serve as one of the principal design	oordinating interaction he project engineer/project has served as principal lans. He will set the scasigners of the reclamati	between the WVDEP, design team members, and ect manager for over 60 AML projects in West engineer and project manager for WVDEP-AML schedule and ensure it is met on a weekly bastion design solution.	WVDEP, design team members, and for over 60 AML projects in West Virginia and project manager for WVDEP-AML projects ensure it is met on a weekly basis. He solution.
EDUCATION (Degree, Year, Specialization)	1)		
MS, 1989, Civil Engineering BS, 1987, Civil Engineering			
P IN PROFESSI	18	REGISTRATION (Type, Year, St	State)
American Society of Civil Engineers	ırs	PE, 1996, WV PE, 1998, VA	
13. PERSONAL HISTORY STATEMENT OF PRINC data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPONSIBLE	SIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 20	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 15
Brief Explanation of Responsibilities			
Mr. Taylor will serve as a project engineer, technical specifications, bid forms, and cos consisting of emergency slide remediation, r slurry pond reclamation. Mr. Taylor also se surface mining permitting, design and reclam	aret	design, and preg ect engineer expe ation, abandoned ivate consulting	preparation of drawings, experience in AML projects ned portal closures, and ing firm responsible for
EDUCATION (Degree, Year, Specialization)	(1		
MS, 2006, Engineering Management BS, 1988, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	NS.	REGISTRATION (Type, Year, St	State)
American Society of Civil Engineering	sring	PE, 1994, WV	

13. PERSOWAL HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATES - ESPON	ASSOCIATES - ESPONSIBLE FOR AML PROJECT DESIGN (Furnish	(Furnish complered
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Gandee, Jason G. Project Engineer	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 2	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	S 0		
As project engineer, Jason will fiel evaluate soil borrow areas, perform specifications. Mr. Gandee has work	vill field verify project mapping, acquerform hydrologic and hydraulic designas worked on five AML projects over	f, acquire utility information, develop design calculations, develop contract over the last year.	elop grading plans, ract drawings and
EDUCATION (Degree, Year, Specialization)	tion)		
BS, 2007, Civil Engineering Technology	echnology		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	TIONS	REGISTRATION (Type, Year, St.	State)
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	
Bria, R. Scott CAD Designer	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 8	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	Se		
As a CAD Designer, Scott will assist in grading plans, compute volumes, generate engineering staff.	reducing survey cross sections	data and preparing base mapping, compile a and profiles, customize details and offer	compile all drawings, develop ind offer support to
EDUCATION (Degree, Year, Specialization)	tion)		
1997, Certificate of Drafting			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	TIONS	REGISTRATION (Type, Year, St.	State)

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES - data but keep to essentials)	ASSOCIATE - RESPONSIBLE FOR AML PROJECT DESIGN (Furnish compl	urnish complessed
Fir	YEARS OF EXPERIENCE	
Potesta, Ronald R. President	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	-	
As President, Mr. Potesta directs the full resources of the fwVDEP.	firm to meet the complete requirements	s of this project for
EDUCATION (Degree, Year, Specialization)		
MS, 1975, Economics with a Concentration in Mineral Ecc BS, 1971, Business Administration	Economics, Econometrics, and Micro Econo	Economics
1,44	REGISTRATION (Type, Year, State)	
ssioner, Ohio River Valley Water Sanit		
or the Natu 1 Studies; ssociation	WV	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES F. data but keep to essentials)	RESPONSIBLE FOR AME, PROJECT DESIGN (FU	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
McCoy, Laidley Eli Vice President	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities		
Dr. McCoy will serve as a back-up principal-in-charge. In addition, I natural science division of the company. He will coordinate required completion of this reclamation design.	addition, Dr. McCoy manages the entire env e required environmental support services	environmental and ces for the
EDUCATION (Degree, Year, Specialization) PhD, 1981, Aquatic Ecology MS, 1974, Biological Science BS, 1972, Zoology		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)	
		:

NAME & TITLE (Last, First, Middle Int.) YEARS Grose, Christopher A. Senior Engineering Associate Brief Explanation of Responsibilities		Ç	
Grose, Christopher A. Senior Engineering Associate Explanation of Responsibilities		YEARS OF EXPERIENCE	
Explanation of Responsibilitie	S OF AML DESIGN EXPERIENCE: 16	YEARS OF AML RELATED DESIGN EXPERIENCE: 20	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12
Mr. Grose will coordinate the drilling ar sites for soil cover, and investigation recommendations for mine seals.	and geotechnical analysis : and design of solutions for	for slope stability design, identi for subsurface hydrogeology within	identification of borrow ithin the deep mines and
EDUCATION (Degree, Year, Specialization)		3	
MS, 1990, Geological Engineering BS, 1988, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, St	State)
American Society of Civil Engineering Association of Engineering Geology Society of American Military Engineers	ng eers	Licensed Remediation S	Specialist, 1998, WV
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS data but keep to essentials)	AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish complete
TLE (Last, Fir		YEARS OF EXPERIENCE	
Ammirato, Vincent J. Senior Engineer	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 13	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities			
Mr. Ammirato will provide structural engin Columbia Gas in plant design and pipeline this project may have.	engineering that may be required line distribution will be well s:	for this project. His uited for the possible s	extensive background with structural requirements
EDUCATION (Degree, Year, Specialization)			
BS, 1970, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, St PE, 1980, WV PE, 1992, PA PE, 1992, OH PE, 1993, VA	State)

13. PERSONAL HISTORY STATEMENT OF PRINC	PRINCIPALS AND ASSOCIATES RESPONSIBLE	ISIBLE FOR AML PROJECT DESIGN	(Furnish compless
TLE (Last, Fir		YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	ļμ	
Ward, Patrick E. Senior Engineer	v	EXPERIENCE: 12	WATERLINE DESIGN EXPERIENCE: 4
Brief Explanation of Responsibilities			
Mr. Ward will serve as a project engineer and haproject engineer on refuse piles, mine drainage,	s ext and	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)	5)		
MS, 1992, Civil Engineering (Geot BS, 1990, Civil Engineering	(Geotechnical)		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	13	REGISTRATION (Type, Year, St.	State)
		PE, 1997, WV	
13. PERSONAL HISTORY STATEMENT OF PRINC data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPONSIBLE	SIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN
1.)	o	36	
Brief Explanation of Responsibilities			
Mr. Kohler will serve as a project scie extensive experience with the coal mini responsible for reclamation of surface	scientist for issues regarding re mining, having worked for the coa ace operations for over 15 years.	clamation, including l industry for numero	revegetation. Mr. Kohler has us years and being directly
EDUCATION (Degree, Year, Specialization)	. (1		
BS, 1977, Environmental Science a	and Resource Management		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	18	REGISTRATION (Type, Year, St.	State)

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES data but keep to essentials)	ESPONSIBLE FOR AML PROJECT DESIGN	(Furnish compless)
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
Sedosky, Timothy B. Senior Scientist	YEARS OF AML EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities		
Mr. Sedosky will review the site for possible wetlands and de potential reclamation activities. He will prepare required p wetland disturbance and mitigation.	inds and delineate, as required, wetland areas to lrequired permit applications to the WVDNR, WVDEP,	as to be impacted by WVDEP, and USCOE for
EDUCATION (Degree, Year, Specialization)		
BS, 1995, Wildlife and Fisheries Resource		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, Sta	State)
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES R data but keep to essentials)	RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish complete
First, Middle Int.)	YEARS OF EXPERIENCE	
Litwinowicz, Dennis L. Senior Scientist	CE: YEARS OF AML RELATED DESIGN EXPERIENCE: 30	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities		
Mr. Litwinowicz will serve as a project geologist, including assistance on evaluation of other geologic activities.	observation of subsurface exploration	tion activities and
:		
EDUCATION (Degree, Year, Specialization)		
BS, 1980, Geology and Mineralogy		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, Sta	State)
American Association of Petroleum Geologists	Certified Petroleum Gec	Geologist, 1984

13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATES AESPONSIBLE	NSIBLE FOR AML PROJECT DESIGN	N (Furnish compleme
NAME & TITLE (Last, First, Middle Int.)			
	YEARS OF AML DESIGN EXPERIENCE:	ļب.	YEARS OF DOMESTIC
Dawson, Victor M. Survey Supervisor	10	EXPERIENCE: 28	WATERLINE DESIGN EXPERIENCE: 12
Brief Explanation of Responsibilities	Se		
Mr. Dawson will coordinate required su topographic surveys, boundary surveys significant existing drainage courses and create topographic mapping for AMI	surveying for aerial mapping sand/or property and deed ress not clearly defined in the ML projects.	control if needed, establish constr search, survey of boring locations aerial mapping. Mr. Dawson will re	construction benchmarks, ations and profiling will reduce survey data
EDUCATION (Degree, Year, Specialization)	ion)		
rveying			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	NOI	REGISTRATION (Type, Year, St	State)
American Congress Surveying and Ma West Virginia Association of Land North Carolina Society of Surveyor South Carolina Society of Surveyor	g and Mapping of Land Surveyors Surveyors Surveyors		
13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPO	RESPONSIBLE FOR AML PROJECT DESIGN	N (Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Osborne, Ralph E. CADD Designer	YEARS OF AML DESIGN EXPERIENCE: 10	YEARS OF AML RELATED DESIGN EXPERIENCE: 34	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 18
Brief Explanation of Responsibilities	S		
Mr. Osborne will provide the CADD support reduce survey data at booster station and design.	in preparation of water storage tank	oction drawings for the to provide sufficient m	project. He will also apping to complete the
EDUCATION (Degree, Year, Specialization)	ion)		
AS, 1983, Mining Technology			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	TONS	REGISTRATION (Type, Year, St	State)

13. PERSTAND HISTORY STATEMENT OF PRINCI data but keep to essentials)	IPALS AND ASSOCIATES - RESPON	PRINCIPALS AND ASSOCIATES AESPONSIBLE FOR AML PROJECT DESIGN (Furnish	(Furnish complese
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
hael B. r/Superviso	RS OF AML DESIGN EXPERIENCE: 10	YEARS OF EXPERIENC	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12
Brief Explanation of Responsibilities			
Mr. Sankoff will provide the CADD support survey data to provide sufficient mapping	ct in preparation of construction drawings of to complete the design.	ruction drawings for the project.	ect. He will reduce
EDUCATION (Degree, Year, Specialization)			
BS, 1987, Industrial Management AS, 1986, Drafting and Design Engineering TAS, 1986, Mechanical Engineering Technology	ineering Technology Pechnology		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, St	State)
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS data but keep to essentials)	AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Ammirato, Robert J. Engineer	RS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 7	YEARS OF DOMESTIC WATERLINE DESIGN FXPERIENCE:
Brief Explanation of Responsibilities			
Mr. Ammirato will serve as a project engineer calculations, layout, drawing preparation, des work. He has extensive experience in water su Mr. Ammirato was the project engineer on our B	eer for the project. design, technical spe supply and waste wat ir Borderland (Matney)	responsibilities will inclications, bid forms, cost esystem design, permitting, rtals project.	.l include hydraulic cost estimates, and field ting, and regulations.
EDUCATION (Degree, Year, Specialization)			
BS, 1999, Mechanical Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, St	State)
		PE, 2010, WV	

13. PERSUNAL HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPON	D ASSOCIATE - AESPONSIBLE FOR AML PROJECT DESIGN	(Furnish complered
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC
Kinder, Kenneth K. Staff Engineer	4	EXPERIENCE: 8	WATERLINE DESIGN EXPERIENCE: 6
Brief Explanation of Responsibilities	So		
Mr. Kinder has extensive experience coal ash disposal facilities and pre	experience in hydrologic and hydraulic delies and preparation of cost estimates.	design as well as subsurface e	explorations, design of
EDUCATION (Degree, Year, Specialization)	ion)		
BS, 2003, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	IIONS	REGISTRATION (Type, Year, St	State)
		PE, 2008, WV	
13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPO	RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish complete
Fir		YEARS OF EXPERIENCE	
Smith, Staff E	YEARS OF AML DESIGN EXPERIENCE:	AML E:	YEARS OF DOMESTIC WATERLINE DESIGN 7
Brief Explanation of Responsibilities	Sa		
Mr. Smith has been involved extensive preparation of NPDES stormwater conserading plans and quantity/cost estive AML project.	extensively with development of hydro. ter construction permits. He also has ost estimates. Mr. Smith was the pro-	of hydrologic and hydraulic calculations also has significant expertise in the de the project engineer on our Taylorville	alculations including se in the development of site Taylorville (Cantrell) Drainage
EDUCATION (Degree, Year, Specialization)	ion)		
BS, 2002, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	SNOI	REGISTRATION (Type, Year, St	State)
National Society of Profession	Professional Engineers	PE, 2008, WV	
			7

13. PERbownAl HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATED AES	RESPONSIBLE FOR AME PROJECT DESIGN (Fur	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
YEARS OF AML DESIGN EXPERIENCE: Staff Engineer	YEARS OF AML RELATED DESIGN EXPERIENCE: 4	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 6
Brief Explanation of Responsibilities		
Mr. Burns has extensive experience with site grading plans and handling and treatment.	stormwater management. He also has	experience with AMD
EDUCATION (Degree, Year, Specialization)		
BS, 2004, Civil Engineering		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)	
	PE, 2009, WV	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE data but keep to essentials)	FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
Griffith, Chad Staff Engineer	YEARS OF AML RELATED DESIGN EXPERIENCE: 3	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 6
Brief Explanation of Responsibilities		
Mr. Griffith has extensive experience with site grading plans and mine plans and permitting.	stormwater management. He also	has experience with
EDUCATION (Degree, Year, Specialization)		
BS, 2004, Civil Engineering		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	ION (Ty	
	PE, 2009, WV	

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS data but keep to essentials)	AND	ASSOCIATES-RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish compless
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Drinkard, William F. III Senior Engineer	RS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 30	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 10
Brief Explanation of Responsibilities			
Mr. Drinkard will serve as a project engineer and hareas, mine facility construction utilities, access Mr. Drinkard will prepare NPDES permit applications drainage calculations.	ans and a second	s extensive coal industry design experience in roads, drainage controls, and portal closings. for construction activities and other required	e in refuse disposal ngs. In addition, ired storm and mine
EDUCATION (Degree, Year, Specialization)			
MS, 2003, Environmental Engineering MBA, 1981, Business Administration BS, 1980, Mining Engineering	عن الم		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, St. PE, 1981, WV PS, 1992, WV	State)
13. PERSONAL HISTORY STATEMENT OF PRINCI data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPONSIBLE	SIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Junker, David N. Senior Scientist	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 21	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities			
Mr. Junker will provide as needed geolog	geological/hydrogeological services	ces for this project.	
EDUCATION (Degree, Year, Specialization)			
MS, 1990, Hydrogeology and Geology BS, 1973, Geology	4		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, St	State)
National Groundwater Association		Registered Professional Licensed Remediation Spe	al Geologist, 1993, KY Specialist, 1998, WV

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN FIG. PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE A DESIGN SERVICES
Microsoft Office 2003 (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 (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, 2010 Used for preparing CADD drawings.
Softdesk 2008 and 2010 Civil/Survey Design Software

15. CURRENT ACTIVITIES	ON WHICH YOUR FIRM IS TH	HE DESIGNATE, GNGINEER OF F	RECORD	
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Peach Ridge Complex, AML Reclamation of Refuse Pile and Mine Portals, McDowell 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.	\$500,000	% ○ ⊙
Measle Fork Refuse Pile, AML Reclamation of Refuse Pile and Drainage Problems, Wyoming 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.	\$1,200,000	% 0 6
Georges Creek Portals, 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.	\$250,000	<i>ର</i> ଟ ଫ ଫ
Putney Impoundment, AML Reclamation of Mine Portals, 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.	\$226,000	୫୧ ୦୦ ୦
Kopperston (John's Branch) Refuse Emergency, AML Reclamation of Refuse Pile Drainage, Wyoming 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.	\$1,300,000	^ର ଠ
Marmet (Wells Drive) Landslide Emergency Project, AML Reclamation of Landslide, Kanawha 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.	\$475,000	958

15. CUF T ACTIVITIES	ON WHICH YOUR FIRM IS	THE DESIGNATE NGINEER OF	RECORD)
PROJECT NAME, TYPE AND	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION	PERCENT COMPLETE
Marmet (Clark) Drainage, AML	WVDEP 601 57 th Street, SE	Preparation of reclamation plan,	\$100,000	50%
Reclamation of Drainage, Kanawha	on, WV	drawings, specifications, bid		
County, WV				
		estimate, and calculations brief.		
		Preparation of reclamation plan,	\$675,000	o₩
Pile, Portals, and Structures, Preston	Charleston, WV 25304	drawings, specifications, bid		
County, WV		form, engineer's construction cost		
		estimate, and calculations brief.		
Sundial Refuse Piles,		Preparation of	\$4,000,000	Project is Under
AML Reclamation of	601 57 th Street, SE	reclamation plan,		Construction
Raleigh County, WV	CHALLESCOII, WV 20004			
		form, engineer's		
		constinction cost		
		calculations brief.		
May Portal, AML	ia Dept. o	Rehabilitate former	\$130,000	95%
Reclamation Mine	Mines, Minerals &			
•		hat		
Froject, Buchanan Countv. VA	FO Drawer 900 Big Stone Gab, VA	drainage and Slip failure. Preparation		
Y		of reclamation plan		
		drawings,		
		Specifications, bid form, engineer's		
		construction cost		
		estimate, and		
Waterl:	ne (Design and permitting	\$1,200,000	% 6 6
Extension - Phase I,	_	associated with		
Boone County, WV	Danville, WV 25053			
		including preparation of drawings,		
		ns, and		
		contract documents and		

)))
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Town of Ceredo Water Distribution System Upgrade - Contract No. 1, Ceredo, WV	Town of Ceredo PO Box 691 Ceredo, WV 25507	Design and permitting associated with extension of waterline including preparation of drawings, specifications, and contract documents and administration.	\$831,000	& 60 60
Town of Ceredo Water Distribution System Upgrade - Contract No. 2, Ceredo, WV	Town of Ceredo PO Box 691 Ceredo, WV 25507	Design and permitting associated with extension of waterline including preparation of drawings, specifications, and contract documents and administration.	\$885,000	ჯ ტ ტ
Hatfield-McCoy/Water Ways Waterline Extension, Boone County, WV	Boone County PSD PO Box 287 Danville, WV 25053	Design and permitting associated with extension of waterline including preparation of drawings, specifications, and contract documents and administration.	000,000\$	[%] ଉ ୦
Landfill Closure Design, Various Environmental Remediation Projects Nitro, WV	Solutia, Inc. 1 Monsanto Road Nitro, WV 25143	Preparation of closure designs, construction drawings and specifications, environmental sampling, and regulatory liaison.	\$4,000,000	70%
The Villages at Coolfont, Morgan County, WV	Berkeley Springs Develop, LLC 99 N. Washington Ave. Berkeley Springs, WV	Engineering design and permitting for 1300 home community including water treatment plant and distribution system, wastewater treatment plant and collection system, roads, stormwater management system, and property surveys.	\$50,000,000 Excluding Home Construction Costs	80% (Design)

15. CUF IT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATF INGINEER OF RECORD

15. CUF 'T ACTIVITIES O	T ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATE	E DESIGNATE 'NGINEER OF RECORD	FECORD	
))		
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Fort Martin Power Station Coal Combustion By-Product Landfill Expansion, Monongalia County, WV	Allegheny Energy Supply 800 Cabin Hill Drive Greensburg, PA 15601	Wetland delineation, engineering design, and permitting for a 100-acre landfill including synthetic liner system, leachate pumpback system, stormwater management system, access roadways, and QA/QC monitoring.	\$24,000,000	80% (Design)
TOTAL NUMBER OF PROJECTS:	:0	TOTAL ESTIN	TOTAL ESTIMATED CONSTRUCTION COSTS:	
17 (POTESTA has α	17 (POTESTA has completed well over 1000 p	projects.)		\$90,672,000

RESPONSIBILITY YOUR FIRMS \$750,000 \$20,000 (fee) ESTIMATED CONSTRUCTION COST \$20,000 ENTIRE PROJECT \$60,000,000 \$750,000 Unknown ESTIMATED COMPLETION DATE 2009 2008 2011 . 2500 Columbia Ave. Lancaster, PA 17604 NAME AND ADDRESS OF OWNER 16. CURAMINT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A Associates, Ltd. 10 Shurs Lane Philadelphia, PA ZMM, Inc. 222 Lee Street, Charleston, WV 25302 Andropogon Industries Armstrong 19127 NATURE OF FIRMS RESPONSIBILITY Stormwater Design and Permitting Design Water Supply and Sanitary Sewer Systems Site Utilities, Stormwater Management and Coordination Agency PROJECT NAME, TYPE Charleston Greenspace Project Armstrong Mineral Wool Plant, Jackson County, WV Bradshaw Schools Site Utilities AND LOCATION

17. ComelETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR	FIRE	AS THE DESIGNATED ENGINEER OF RECORD		
PROJECT NAME, TYPE AND LOCATION		ESTIMATED CONSTRUCTION	YEAR	CONSTRUCTED (YES OR NO)
Jessop Highwall #10 AML Reclamation of Highwalls, Preston County, WV	WVDEP 601 57 th Street, SE Charleston, WV 25304	\$1,357,000	2009	Yes
Lando (Edwards) Drainage, AML Reclamation of Refuse Pile and Drainage Problems, Mingo County, WV	WVDEP 601 57 th Street, SE Charleston, WV 25304	\$352,000	2009	Yes
Taylorville (Cantrell) Drainage, AML Reclamation of Acid Mine Drainage Problems, Mingo County, WV	WVDEP 601 57 th Street, SE Charleston, WV 25304	\$241,000	2009	Yes
Borderland (Matey) Portals, AML Reclamation of Mine Portals, Mingo County, WV	WVDEP 601 57 th Street, SE Charleston, WV 25304	\$94,000	2009	Y es
Fairmont East Mine Drainage, AML Reclamation of Acid Mine Drainage, Fairmont, WV	WVDEP 601 57 th Street, SE Charleston, WV 25304	\$100,000	2009	Yes
Rachel Refuse, AML Reclamation of Mining Complex, Farmington, WV	WVDEP 601 57 th Street, SE Charleston, WV 25304	\$300,000	2010	Yes
e nty, WV	Massey Coal Services 315 70 th Street, SE Charleston, WV 25304	\$550,000	2008	Y & &
aurel Str ng, Boone	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

17. C LETED WORK WITHIN LAS	C LETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIR' 'AS	AS THE DESIGNATED ENGINEER OF RECORD		
AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CC. RUCTED (YES OR NO)
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	Yes
Stephens Auto/Betsy Lane Waterline Extension, Boone County, WV	Boone County PSD PO Box 287 Danville, WV 25053	\$250,000	2005	Yes
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
	i i	\$750,000	2006	Yes
Mifflin-Sharples Waterline Extension, Logan County, WV	West Virginia American Water PO Box 1906 Charleston, WV 25327	\$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	Ω

ONSO	FIRM ASSOCIATED WITH	BBL Carlton	Pray Construction Company		
	CONSTRUCTED (YES OR NO)	Yes	Yes		
	YEAR	2005	2006		
	TIMATED OF YOUR	\$100,000	\$6,000,000 Our Fee \$55,000		
	NAME AND ADDRESS OF OWNER	University of Charleston 2013 MacCorkle Ave. SE Charleston, WV 25304	University of Charleston 2013 MacCorkle Ave. SE Charleston, WV 25304		
	PROJECT NAME, TYPE AND LOCATION	Blackwell Field Redevelopment, Charleston, WV	UC Pharmacy School, Charleston, WV		

of resources supporting your firm's querifications to perform work for the West Virginiaandoned Mine Lands Program. description to provide any additional information his space

and ij. Potesta & Associates, Inc.'s (POTESTA) "Expression of Interest for Professional Engineering Design Services Construction Monitoring Services for the Greenbrier Hollow Refuse Pile Project" supports this questionnaire 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:

- Has assembled a team of in-house personnel and subcontractors who have historically worked on AML projects. POTESTA's in-house staff includes 15 Professional Engineers including 11 in the primary office, three of whom have worked on over 75 AML projects.
- strong Has a large local staff with a unique multidiscipline technical emphasis (including civil engineering, structural engineering, geological engineering, hydrological engineering, mine land reclamation, with a stron emphasis on water quality and aquatic life and toxicity). Two members of POTESTA's staff have their Ph.D.'s, and 12 have their Masters Degree. ς.
- 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: ω.

Water Supply Feasibility Studies and Design - Passive Acid Mine Drainage Treatment	sbestos) -	Structures - Sealing Mine Portals	1	Drainage -	Residential Water Supplies - USCOE Permitting	- Wetland Assessments	
Water Supply Feasibility S	Assessment of Contamination	Demolition of Structures	Diversion Structures	Identifying Acid Mine Drain	Inventory of Residential Wa	Landslides	Mine Fires
I	1	ı	1	ı	ı	ı	ı

- Can handle a substantial AML workload (more than our competitors) since POTESTA has two Professional Engineer (P.E.) Project Managers each with experience on 75+ AML projects. 4.
- Offices located in Charleston, West Virginia in close proximity to WVDEP's Charleston office, with offices in Virginia. Morgantown, West Virginia close to WVDEP Philippi office and Winchester, ъ
- Staff has had a positive relationship with WVDEP, AML in the past, which we would like to continue ġ

2010 December 8, Date: Vice President Title: of facts. statement Burns i Dana 20. The foregoing Printed Name: Signature:

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.

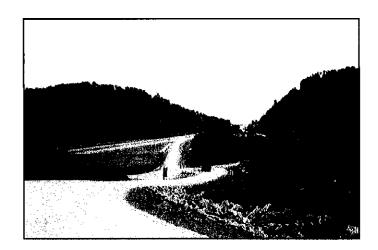
Our design services include:

- 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

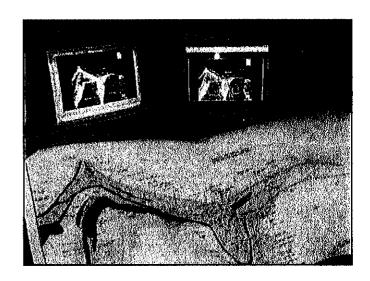
The Potesta & Associates, Inc. (POTESTA) computer-aided drafting and design (CADD) department provides state-of-the-art design and drafting services for in-house engineering and environmental consulting projects. We also provide personnel to clients who have a temporary need for additional drafting manpower. 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



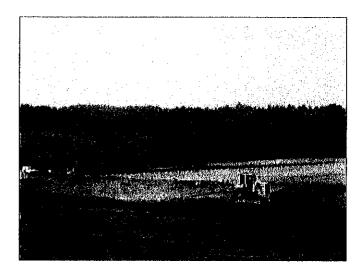
Construction Monitoring

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.



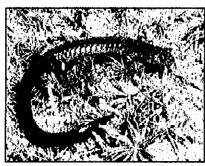
- Construction monitoring can include field testing to document compliance such as field density tests, concrete testing, sampling of materials for laboratory analysis, and documentation of site conditions and work performed on a daily basis or as required.
- Preparation of summary of construction reports 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.



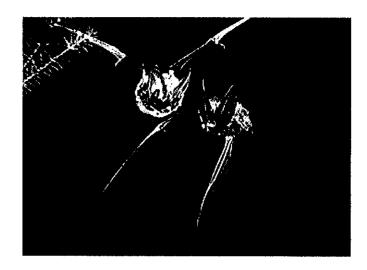
Potesta & Associates, Inc. (POTESTA) has extensive experience in biological assessments (BA) related to the ESA. We utilize a combination of inhouse professionals and recognized experts to complete projects for our clients. This arrangement allows us to provide a work product which is acceptable to the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



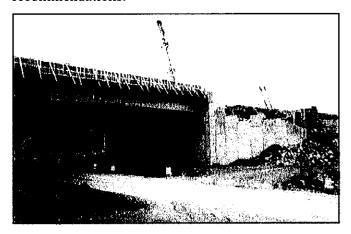


Geotechnical Engineering

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, GeoprobeTM 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.

(see next page)



-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.

ATR

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.

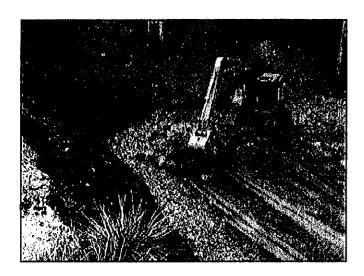


Although the objective of a permit application is to receive agency approval in a timely manner, the client does not benefit if the application does not allow for effective operations. We work with our clients to ensure that your operational needs are met while allowing for essential flexibility. Several 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

(see next page)





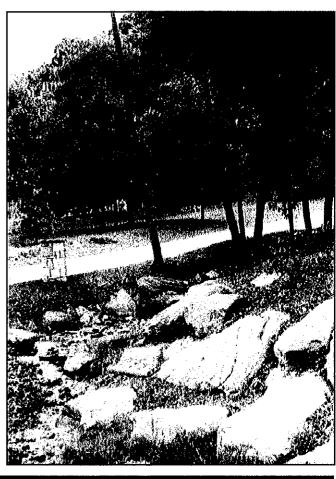
Potesta & Associates, Inc. has a significant body of work in site design for residential, commercial and industrial clients. Projects range from power plant siting to subdivision design. We have assisted numerous developers and development agencies with the creation of business industrial parks throughout 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.

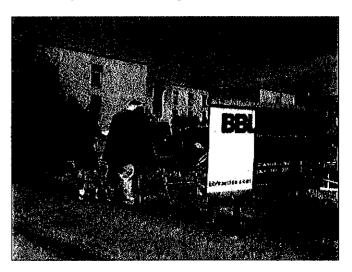
POTESTA's surveyors use state-of-the-art equipment such as Topcon total stations, Trimble R-8 GNSS, and SMI Version 8 data collectors with SMI software. Reduction and design software used includes AutoCAD, Softdesk Civil/Survey design, Autodesk Land Design, Microstation, and InRoads design software.

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.

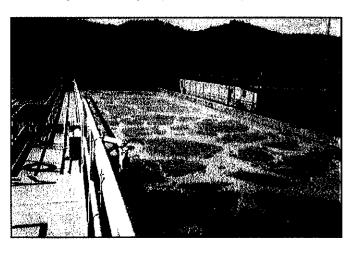
Our staff is experienced in global positioning surveys (GPS). GPS equipment, Trimble R-8 GNSS, and existing base stations are among POTESTA's surveying tools. Based upon the site location and ultimate use of the survey information, a recommendation is made to the client as to whether or not traditional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

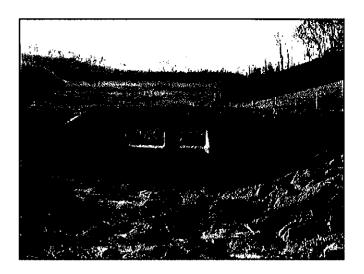
Water and Wastewater Engineering

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.

ACID MINE DRAINAGE TREATMENT PROJECTS-SOVERN RUN AND UPPER MUDDY CREEK

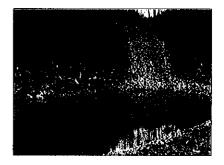
Friends of the Cheat

Preston County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the Friends of the Cheat (FOTC) to provide design assistance for two acid mine drainage treatment projects located in Preston County, West Virginia. POTESTA's services included review and modifications of conceptual designs, topographic surveying, courthouse research for property boundaries, preparation of construction drawings and technical specifications, development of bidding documents, and construction observation.

The Upper Muddy Creek project involved acid mine drainage from four (4) areas that discharged into Muddy Creek upstream of where it crosses beneath State Route 3 (Brandonville Pike). Muddy Creek has been significantly impacted by acid mine drainage, but the upper portion is a trout sream. The proposed design includes the construction of four (4) limestone leach beds and nearly 1,500 feet of open limestone channel. The project is scheduled for completion in 2004.

The Sovern Run (Tichenell) project involved highly acidic discharge from one source and mildly acidic discharge from two sources. The design included a limestone leach area and an open limestone channel to provide treatment for the main acid mine drainage source. The mildly acidic sources included a limestone leach bed for treatment and two (2) steel slag leach dams to add excessive alkalinity to the water in an effort to provide a net neutralization effect upon its confluence with the high acidity drainage further downstream. The project is scheduled for completion in 2004.





POTESTA & ASSOCIATES, INC.

ALLEGHENY ENERGY SUPPLY COMPANY, LLC – FORT MARTIN CCB LANDFILL PERMIT APPLICATION/CONSTRUCTION INSPECTION

Allegheny Energy Supply Company

Monongalia County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by Allegheny Energy Supply Company, LLC to develop a permit renewal application associated with a coal combustion by-product (CCB) landfill expansion. The project is located in Fort Martin, West Virginia. POTESTA developed a West Virginia/NPDES permit renewal application related to the existing portion of the Class F Industrial Landfill as well as encompassing the expansion area of just under 100 acres.

POTESTA prepared a solid waste/NPDES water pollution control permit including: supplemental evaluation of candidate sites for the expansion area; field exploration involving collection of soil, geological, and hydrological data; wetland and stream impact delineation; "permit level" design of the landfill expansion. In conjunction, the project included two additional sedimentation ponds and a proposed alternative landfill liner system. The capacity of the full expansion area is approximately 8.7 million cubic yards of CCB.



Aerial view of power plant and landfill site

POTESTA also performed construction observation/construction administration for the landfill project. Services provided by POTESTA included soil density testing, concrete testing, nondestructive and destructive testing for liner system. Over a period of more than 12 months, POTESTA provided one (1) to four (4) construction technicians to cover the

POTESTA & ASSOCIATES, INC.

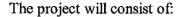
BEVINS LANDSLIDE EMERGENCY

Commonwealth of Virginia, Department of Mines, Minerals and Energy

Buchanan County, Virginia

Potesta & Associates, Inc. (POTESTA) has been retained to provide professional engineering design services to the Commonwealth of Virginia, Department of Mines, Minerals and Energy, Abandoned

Mine Land Program (DMME-AML) under the Small Purchase Procurement Program for Professional Services (09AML06). These services will consist of developing an engineering report, construction plans and specifications, and a material schedule for the Bevins Landslide Emergency Project in Buchanan County, Virginia.



- Stabilization/removal of a slide that has occurred behind the Bevins residence.
- Removal and disposal of slide material that has already been deposited on the old mine bench.
- Installation of temporary and permanent drainage control measures.
- Upgrade of the existing entrance roadway onto the mine bench where the Bevins residence is located.
- Installation of required erosion and sedimentation control measures including revegetation of disturbed areas of the site.



POTESTA will perform the surveying, subsurface exploration, and geotechnical design necessary to complete this project.

POTESTA & ASSOCIATES, INC.

BORDERLAND (MATNEY) PORTAL

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

Borderland, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the West Virginia Department of Environmental Protection's Office of Abandoned Mine Lands to prepare plans and specifications for installation of mine portal seals and a drainage system around a residence. The project consisted of correction of uncontrolled seepage from collapsed mine portals. The drainage presented problems for the property owners and was having an adverse impact on the environment. The discharge of impounded water from the underground mine works is a serious threat to life and property due to the potential it poses for a blow-out.





The project required six mine portal seals, three being double block wet seals and three conventional single block wet seals. Bat gates were installed in two seals. The portals were adjacent to a residence and required plans for drainage channels to divert discharge from the portals through the residence property to a nearby stream. Regrading and revegetation of all areas disturbed during construction were also required.

POTESTA prepared drawings, technical specifications, contractor's bid forms, engineer's construction cost estimate, and calculations brief for the project. POTESTA also attended

the pre-bid and pre-construction conferences to assist WVDEP with the project.

POTESTA & ASSOCIATES, INC.

BURNWELL (STANDARD/PAINT CREEK/COLLINSDALE) WATERLINE EXTENSION

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

Eastern Kanawha County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the West Virginia Department of Environmental Protection's Office of Abandoned Mine Lands (WVDEP) to prepare a study evaluating possible water line extensions to the Collinsdale/Burnwell area from neighboring public water systems. The WVDEP will review the study and select the preferred option. An initial study requested by the WVDEP determined that the area was 100 percent impacted by pre-1977 mining activities. The study recommended construction of a water treatment plant near Burnwell. Upon further review, WVDEP determined that Collinsdale/Burnwell did not have the personnel or financial ability to operate and maintain a water treatment plant.



POTESTA performed a file review of the public water systems in the area to verify their production and financial capabilities. Meetings were held with the WVDEP and public water systems to address concerns regarding the additional customers and service line. Based upon the aforementioned and site visits, POTESTA will prepare a preliminary engineering report, including preliminary water design, and a West Virginia Infrastructure and Jobs Development Council Preliminary Application. The water line extension is expected to require approximately 48,000 LF of water line, one booster station, a tank, fire hydrants, meter assemblies, and miscellaneous valves and fittings.

POTESTA will design the water line extension selected by the WVDEP from the preliminary engineering report. The extension will be mapped, including locating utilities, public water systems connection points, identifying easements via tax maps, and surveying tank and booster station sites. POTESTA will prepare and submit the necessary "clearance" letter and permits for construction.

Geotechnical exploration and assessment will be performed for tank and booster sites. Boundary surveys and plats will be prepared for the property transfer of the tank and booster station sites, and POTESTA will perform a hydraulic evaluation to estimate the impact of the additional demand on the selected public water system.

POTESTA prepared drawings, technical specifications, contractor's bid forms, engineer's construction cost estimate, and calculations brief for the project. POTESTA also attended the pre-bid and pre-construction conferences to assist WVDEP with the project.

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.

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 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.

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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

FAIRMONT EAST MINE DRAINAGE

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

Fairmont, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the West Virginia Department of Environmental Protection's Office of Abandoned Mine Lands (WVDEP) to provide engineering services regarding the conveyance of mine seepage around residential areas and into the City of Fairmont's storm sewer system. The project area is located along Palatine Avenue and Mason Street. Abandoned underground mine works caused flooding problems along these streets.

POTESTA performed the following tasks to complete this project:

- Mine map review
- Survey to develop mapping
- Subsurface exploration
- Design of mine drainage collection system and storm sewer system to convey runoff to the City of Fairmont's storm sewer system
- Design of collection system consisting of 15-inch corrugated plastic pipe to City of Fairmont's standards, including pavement overlay to impacted streets.





POTESTA & ASSOCIATES, INC.

FEASIBILITY STUDY AND PREPARATION OF FUNDING APPLICATION FOR WATER SYSTEM EXPANSION City of Philippi

Philippi, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the City of Philippi to perform a feasibility study and subsequent funding application for a project involving upgrades to their existing potable water distribution system.

The project included the following:

- 402,000 gallon storage tank
- 16,000 gallon storage tank
- 600 gpm booster statio
- 300 gpm booster station
- -1,800 feet of 8" pipe
- -2,000 feet of 6" pipe
- Pressure reducing station

POTESTA prepared a preliminary engineering report and compiled the information necessary for a funding application with the United States Department of Agriculture - Rural Utilities Service (USDA-RUS). Additional services will included final design of the project components, preparation of construction drawings and technical specifications, permit applications, and nearly full-time construction monitoring.



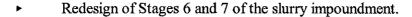
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GENERAL CONSULTING SERVICES Kanawha Eagle, LLC

Winifrede, West Virginia

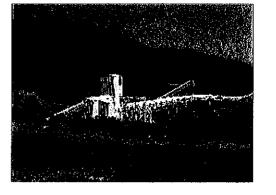
Kanawha Eagle, LLC operates a deep mine complex in eastern Kanawha County. Potesta & Associates, Inc. (POTESTA) has provided a wide variety of engineering services to assist in their day-to-day and long-term operations. Among the many services that have been provided are:

- Surveying.
- Design of new decant system including WVDEP and MSHA approvals.



- 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.

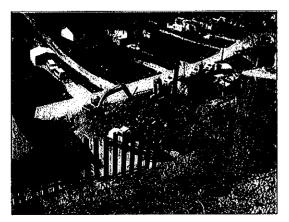


GEORGE'S CREEK (LUCAS) LANDSLIDE MAINTENANCE

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.

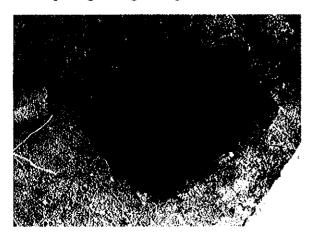
POTESTA & ASSOCIATES, INC.

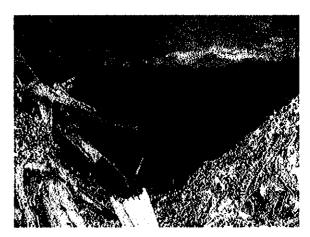
GEORGES CREEK PORTALS

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

Georges Creek, Kanawha County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the West Virginia Department of Environmental Protection's Office of Abandoned Mine Lands to design mine seals for abandoned mine openings along Georges Creek and U. S. Route 60.





Design included a total of 28 mine seals. The following types of seals were utilized:

- Urethane foam with applied mortar
- Typical West Virginia wet seals
- Wet seals with bat gates
- Dry seals

In addition to mine seals, the design included piping to convey mine drainage to receiving streams. The conveyance piping layout required two West Virginia Division of Highways road crossing permits. An underdrain was utilized to convey subsurface drainage.

POTESTA & ASSOCIATES, INC.

JESSOP HIGHWALL #10

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

Tunnelton, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the West Virginia Department of Environmental Protection (WVDEP) to prepare design plans and specifications to reclaim three abandoned mine land (AML) sites located near Tunnelton, West Virginia. Work to reclaim the three sites included sealing of abandoned mine portals, regrading of highwalls and collection of drainage from some of the abandoned mine portals and seeps. POTESTA utilized aerial mapping and ground survey to create topographic mapping of the sites.

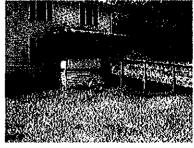


Site 1

- Regraded approximately 1,150 feet of highwall averaging approximately 25 feet in height.
- Monitored test borings at the proposed mine portal sites to determine the location and the depth of mine voids, and the amount of water in the voids.
- Designed the closure of seven abandoned mine portals using a wet seal or bat gate mine seal.
- Designed drainage channels to collect water from the mine portals to discharge into a nearby stream.
- Designed a mine portal collection system that included 18 HDPE manholes.
- · Incorporated a previously designed acid mine drainage collection and treatment system into our design.

Site 2

- Regraded approximately 7,500 feet of highwall averaging approximately 20 feet in height.
- Monitored test borings at the proposed mine portal sites to determine the location and depth of mine voids, and the amount of water in the voids.
- Designed the closure of three abandoned mine portals using a wet seal or modified mine seal.
- Designed drainage channels to collect water from the mine portals to discharge into a nearby stream.



Site 3

• Designed an underdrain system behind a residence and garage to prevent damage to the structures from a seep discharging acid mine drainage.

POTESTA prepared drawings, technical specifications, contractor's bid forms, engineer's construction cost estimate, and calculations brief for the project. POTESTA also attended the pre-bid and pre-construction conferences to assist WVDEP with the project.

POTESTA & ASSOCIATES, INC.

LANDO (EDWARDS) DRAINAGE

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

Lando, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the West Virginia Department of Environmental Protection's Office of Abandoned Mine Lands (WVDEP) for a project that included the regrading of mine spoil that had been formerly disposed of in this area, as well as installation of mine portal seals and drainage improvements. The project consisted of three sites:

- A refuse pile graded to flattened slopes and topped with a soil cover;
- Channeling and diverting into nearby streams some drainage affecting nearby residences; and,
- Rehabilitating two existing mine seals and installing one new mine seal.





POTESTA's work on the project included surveying and development of mapping, as well as development of the repair, drainage and reclamation plans.

POTESTA prepared drawings, technical specifications, contractor's bid form, engineer's construction cost estimate, and calculations brief for the project. POTESTA also attended the pre-bid and pre-construction conferences to assist WVDEP with the project.

POTESTA & ASSOCIATES, INC.

LANDSLIDE STABILIZATION PROJECT

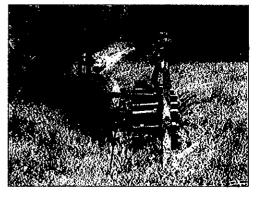
Columbia Gas Transmission

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.

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.

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.

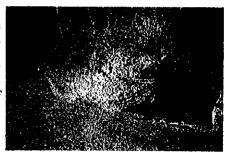
MAY PORTAL HOME LANDSLIDE MAINTENANCE Virginia Department of Mines, Minerals and Energy Abandoned Mine Land Unit

Buchanan County, Virginia

POTESTA was retained by the Virginia Department of Mines, Minerals and Energy – Abandoned Mine Lands (VAAML) to reestablish and stabilize a previously reclaimed deep mine portal site in Buchanan County, Virginia. The previous project included stabilization of a localized slide area, backfill and reclamation of the existing highwall; and construction of wet seals in the existing portals.

A slide area had developed above and within the limits of the highwall backfill material previously placed at the portal site. There were also reports that the riprap material used as the toe buttress provided habitat for snakes which were often seen at or near the existing residence. During heavy rainfall events, an existing ditch located near the toe of a previously reclaimed slope reached capacity and overflowed across the lawn areas of the adjacent residence. Riprap was also displaced in the primary riprap-lined drainage conveyance channel. There was also no defined ditch to convey mine discharge water from the wet mine seal area.





POTESTA prepared a regrading plan and design to re-stabilize the failed section of slide, including installing a new grouted riprap buttress; designing drainage at the toe of the buttress and around the existing residence; and restoring other problem drainage structures and areas that were installed as part of the original reclamation project. This work required the construction of a fence to protect the existing well house and adjacent occupied residence located on the site.

As part of the project, POTESTA assisted the VAAML with the contract bidding and evaluation of bids.

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.

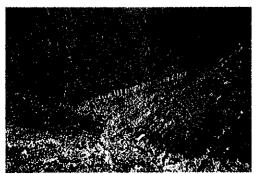
MOUNTAIN RUN REFUSE AND PORTALS

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

Masontown, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the West Virginia Department of Environmental Protection's Office of Abandoned Mine Lands (WVDEP) to evaluate the Mountain Run Refuse and Portals project. This project consisted of 15 collapsed mine portals, five refuse piles covering three acres, and the demolition/removal of miscellaneous areas of mining debris, garbage, abandoned mine structures, and rail timbers. Our services included:

- Drilling of the refuse piles, mine portals and potential soil borrow areas
- · Field survey to develop site mapping
- · Regrading of the refuse piles to stabilize the slopes
- Design of drainage control channels including a limestone channel to reduce acid mine drainage
- Design of five wet mine seals and 11 dry mine seals, with the wet seals including a modified outlet pipe to maintain the current discharge from the portal which is used as a portion of a local resident's water supply.



POTESTA prepared drawings, technical specifications, contractor's bid forms, engineer's construction cost estimate, and calculations brief for the project. POTESTA also attended the pre-bid and pre-construction conferences to assist WVDEP with the project.

POTESTA & ASSOCIATES, INC.

NEW WEST HOLLOW IMPOUNDMENT Kanawha Eagle Limited Liability Company

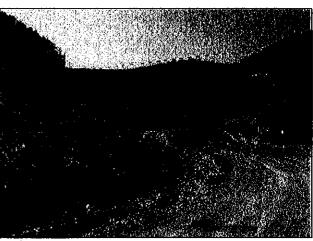
Winifrede, West Virginia

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.



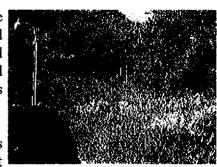
POTESTA & ASSOCIATES, INC.

PUCKETT/ELY CREEK ACID MINE DRAINAGE REMEDIATION PROJECT I

Commonwealth of Virginia, Department of Mines, Minerals and Energy

Puckett Creek and Ely Creek Watersheds near St. Charles, Virginia

Potesta & Associates, Inc. (POTESTA) was selected by the Commonwealth of Virginia's Department of Mines, Minerals and Energy to develop an engineering report, construction plans and specifications, and a material schedule for Puckett/Ely Creek Acid Mine Drainage Remediation Project I. The project responsibilities are more specifically described as follows:



- Development of engineering reports and construction plans and specifications to remediate acid mine drainage (AMD) at three sites using AMD passive treatment systems.
- Final designs to meet Natural Resource Conservation Service (NRCS) practice standards and
 requirements from other agencies involved with this project, including Virginia Department of
 Transportation, U. S. Army Corps of Engineers, Virginia Department of Environmental Quality,
 Virginia Marine Resources Commission, Virginia Department of Game and Inland Fisheries, the
 U. S. Fish and Wildlife Service and the Daniel Boone Soil and Water Conservation District.
- Placement of spoil and sediments on previously disturbed areas identified by the Agency.
- Inclusion of stream habitat structures in plans and specifications where feasible.
- Provision of plans and specifications that include, but are not limited to, plan views, cross sections, maps, photographs, and drawings.



POTESTA & ASSOCIATES, INC.

RACHEL REFUSE AND STRUCTURES

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

Williamson, West Virginia

Potesta and Associates, Inc. (POTESTA) was retained by the West Virginia Department of Environmental Protection's Office of Abandoned Mine Lands (WVDEP) to evaluate three sites to upgrade access roads, regrade/cover all refuse material with at least twelve inches of topsoil, and to dismantle and remove all buildings, equipment and debris from the site. The project also included construction of drainage control structures to carry water safely off-site and revegetation of all areas disturbed by the construction.



Site 1 was regraded and all refuse was covered with one foot of soil. An access road for a gas well was regraded across this site.

Site 2 was a refuse pile located behind a residence. This area was regraded to lower the pile



by ten feet and flatten the slopes on the sides. A drainage ditch was placed between the refuse pile and the house.

Site 3 was an existing impoundment. The site was regraded to remove the dam and place a grouted riprap drainage system at an existing drainage structure. All buildings and debris were removed from this site.

POTESTA prepared drawings, technical specifications, contractor's bid forms, engineer's construction cost estimate, and calculations brief for the project. POTESTA also attended the pre-bid and pre-construction conferences to assist WVDEP with the project.

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.

SUNDIAL (HATFIELD) REFUSE PILES

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

Raleigh County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the West Virginia Department of Environmental Protection's Office of Abandoned Mine Lands (WVDEP) to prepare a reclamation design for the Sundial Refuse Piles in Raleigh County, West Virginia. The site was a former mining complex and included four distinct refuse piles that lacked vegetation and were eroding, open mine portals, and abandoned structures such as hoist houses.



As part of this project, the following were completed:

- Ground survey
- Geotechnical exploration
- Preparation of construction drawings, technical specifications, bid form, and engineer's estimate of probable construction costs.

The reclamation design anticipated approximately 372,000 cubic yards of earthwork, 15,000 feet of drainage channel, 3,000 feet of underdrains, 26 mine seals, and demolition and removal of numerous structures, including historic mine cars.



The project was bid at a construction price of approximately \$3,700,000.

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.

TAYLORVILLE (CANTRELL) DRAINAGE

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

Mingo County, West Virginia



Potesta & Associates, Inc. (POTESTA) was retained by the West Virginia Department of Environmental Protection's Office of Abandoned Mine Lands (WVDEP) to evaluate and develop a reclamation design for mine drainage impacting a community in Taylorville, Mingo County, West Virginia. POTESTA completed field reconnaissance and surveying to develop topographic mapping, and prepared construction bid documents for the reclamation design.



The Taylorville project included three different sites. The first site included mine drainage along the hillside behind a mobile home. The second site included mine drainage impacting a driveway and parking area. The third site included mine drainage above a house.

POTESTA designed underdrains to collect and convey drainage from the first two sites to the West Virginia Division of Highways (DOH) right of way. Approximately 1,100 feet of new corrugated plastic pipe with DOH Type G drop inlets were designed to convey mine drainage to Pigeon Creek, while also

handling storm water from the DOH roadway. A standard wet mine seal was designed with riprap channels to handle the mine drainage at the third site.

POTESTA prepared drawings, technical specifications, contractor's bid forms, engineer's construction cost estimate, and calculations brief for the project. POTESTA also attended the pre-bid and pre-construction conferences to assist WVDEP with the project.

POTESTA & ASSOCIATES, INC.

TAYLORVILLE (RAY) LANDSLIDE EMERGENCY

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

Mingo County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the West Virginia Department of Environmental Protection, Office of Abandoned Mine Lands (WVDEP) to develop a stabilization plan for a landslide project at Taylorville, Mingo County, West Virginia. Following a period of heavy precipitation, a landslide occurred on a steep hillside behind a mobile home. The landslide pushed the mobile home off its foundation and destroyed a one-room extension along the rear of the mobile home.



POTESTA surveyed the landslide area to develop topographic mapping, prepared a stabilization plan to remove the landslide soils and backfill the area with a rock buttress. The stabilization plan also included an underdrain at the base of the rock buttress to convey drainage to the Taylorville (Cantrell) project drainage system. The plan called for 2,000 cubic yards of unclassified excavation, 1,750 cubic yards of shot rock backfill (buttress construction), 200 cubic yards of soil cover, and 400 feet of underdrain.

POTESTA prepared drawings, technical specifications, contractor's bid form, engineer's construction cost estimate, and calculations brief for the project. POTESTA also attended the pre-bid and preconstruction conferences to assist WVDEP with 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.

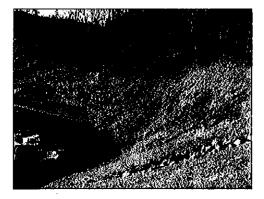
WILLIAMSON (HATFIELD) NURSING HOME LANDSLIDE MAINTENANCE

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

as drainage improvements.



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 456foot 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.

RFQ No.	DEP15226	
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STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: 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.

DEFINITIONS:

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

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

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

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.

WITNESS THE FOLLOWING SIGNATURE

JAN A. QUINLAN
623 Everest Circle
St. Albans, WV 25177
My Commission Expires Dec. 7, 2014

Vendor's Name:	Potesta & Asso	ciates, Inc.			
Authorized Signature:	Dana Z.	Burns	Date: _	December 8	3, 2010
State of West Vi					
County of <u>Kanawha</u>	, to-wit:				
Taken, subscribed, and	sworn to before me this	8_ day of	December	, 20 <u>10</u> .	
My Commission expires	December 7	, 20 <u>14</u> .		00) /
AFFIX SEAL HERE		NOTARY PUB	LIC	relify	unda
ALLEST CO.	OFFICIAL SEAL OTARY PUBLIC OF WEST VIRGINIA				