



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

**Request for
 Quotation**

RFQ NUMBER
DEP14369

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
**CHUCK BOWMAN
 304-558-2157**

**RFQ COPY
 TYPE NAME/ADDRESS HERE**

Triad Engineering, Inc.
 219 Hartman Run Road
 Morgantown, WV 26505

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
09/11/2008				

BID OPENING DATE: **10/23/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-29		
<p>MT. STORM MINE 25A DESIGN SERVICES</p> <p>EXPRESSION OF INTEREST</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ENGINEERING DESIGN SERVICES AND CONSTRUCTION MONITORING SERVICES AT THE MT. STORM 25A IN GRANT COUNTY, WEST VIRGINIA, PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>***** THIS IS THE END OF RFQ DEP14369 ***** TOTAL: _____</p>						

RECEIVED

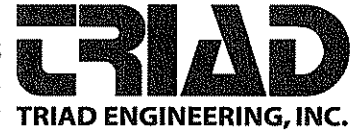
2008 OCT 22 A 10:12

PURCHASING DIVISION
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE	TELEPHONE	DATE	
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

219 Hartman Run Road
Morgantown, WV 26505
Phone (304) 296-2562
Fax (304) 296-8739



October 21, 2008

West Virginia Department of Environmental Protection
Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305-0130

ATTN: Chuck Bowman, Buyer

**RE: Expression of Interest – Engineering Services
DEP 14369 – Mt. Storm Mine 25A Design Services
Triad Proposal #01-08-8251**

Dear Mr. Bowman,

Triad Engineering, Incorporated (TRIAD) is pleased to submit the attached "Consultant Confidential Qualification Questionnaire (CCQQ)" and "Related Project Experience Matrix (RPEM)" in response to the Department of Environmental Protection Office of Abandoned Mine Lands & Reclamation's (DEP AML&R's) need for design services for the Mt. Storm Mine 25A project. TRIAD's primary point of contact for this project will be our Geotechnical Engineering Services Manager, Ms. Karen L. Krabill, P.E. Ms. Krabill can be reached at (304) 296-2562 or kkrabill@triadeng.com.

TRIAD is extremely proud of our performance under past contracts, including contracts we have held with the DEP. As of this date, over 400 AML&R projects have been undertaken by TRIAD. The vast majority of these projects have been successfully completed on time and within the proposed estimated cost.

As always, TRIAD will commit the necessary resources to meet the needs of this project. TRIAD continues to maintain and invest in staff and equipment necessary to provide comprehensive services for the successful completion of this project. We firmly believe the in-house resources available provide the State with the most favorable terms from a technical and cost standpoint. We highly value our working relationship with AML&R personnel, and will continue to strive for excellence in all we do.

We appreciate the opportunity to offer our services to you and hope we will be able to work together on this important project. Please do not hesitate to contact us should you have any questions regarding this submission or our firm's services.

Sincerely,

A handwritten signature in black ink that reads "Lydia M. Work". The signature is written in a cursive, flowing style.

Lydia M. Work, LRS
Branch Manager – Morgantown, WV
Triad Engineering, Inc.

Practical Engineering and Science Solutions Since 1975

West Virginia

Pennsylvania

Maryland

Virginia

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

West Virginia Code §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

West Virginia Code §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the West Virginia Code may take place before their work on the public improvement is begun.

ANTITRUST:

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

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

LICENSING:

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

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

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

Vendor's Name: TRIAD ENGINEERING, INC.

Authorized Signature: [Signature] Date: Oct. 21, 2008

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE**

PROJECT NAME DEP 14369 - Mt. Storm Mine 25A Design Services	DATE (DAY, MONTH, YEAR) 21 October 2008	FEIN 550592364
1. FIRM NAME TRIAD ENGINEERING, INC.	2. HOME OFFICE BUSINESS ADDRESS 219 Hartman Run Road Morgantown, WV 26505	3. FORMER FIRM NAME N/A
4. HOME OFFICE TELEPHONE (304) 296-2562	5. ESTABLISHED (YEAR) 1975	6. TYPE OWNERSHIP Individual Partnership Corporation Joint-Venture 6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES NO X

6. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE
219 Hartman Run Road, Morgantown, WV 26505 / (304)296-2562 / Lydia Work, L.R.S. - Branch Manager / 11

NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM
Randy L. Moulton, P.E., President & CEO

8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS

9. PERSONNEL BY DISCIPLINE

18 ADMINISTRATIVE	—	ECOLOGISTS	2	LANDSCAPE ARCHITECTS	1	STRUCTURAL ENGINEERS
— ARCHITECTS	—	ECONOMISTS	1	MECHANICAL ENGINEERS	26	SURVEYORS
2 BIOLOGIST	—	ELECTRICAL ENGINEERS	1	MINING ENGINEERS	1	TRAFFIC ENGINEERS
17 CADD OPERATORS	11	ENVIRONMENTALISTS	—	PHOTOGRAMMETRISTS	45	OTHER
1 CHEMICAL ENGINEERS	3	ESTIMATORS	1	PLANNERS: URBAN/REGIONAL	258	TOTAL PERSONNEL
15 CIVIL ENGINEERS	14	GEOLOGISTS	2	SANITARY ENGINEERS		
48 CONSTRUCTION	—	HISTORIANS	25	SOILS ENGINEERS		
INSPECTORS	2	HYDROLOGISTS	1	SPECIFICATION WRITERS		
15 DESIGNERS						
4 DRAFTSMEN						

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 3
 *RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.

10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? YES NO NA

11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach 'AML Consultant Confidential Qualification Questionnaire'.

<p>NAME AND ADDRESS: Sturm Environmental Services P.O. Box 650 Bridgeport, WV 26330-0650 P: (304) 623-6549; F: (304) 623-6552</p>	<p>SPECIALTY: Laboratory Services (Water Testing)</p>	<p>WORKED WITH BEFORE ___X___ Yes ___ No</p>
<p>NAME AND ADDRESS: Canaan Valley Institute P.O. Box 673 Davis, WV 26260 P: (304) 463-4739; F: (304) 463-4759</p>	<p>SPECIALTY: (Stream Naturalization) Project Consultant</p>	<p>WORKED WITH BEFORE ___X___ Yes ___ No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE ___ Yes ___ No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE ___ Yes ___ No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE ___ Yes ___ No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE ___ Yes ___ No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE ___ Yes ___ No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE ___ Yes ___ No</p>

12. A. Is your firm experienced in Abandoned Mine Lands Remediation / Mine Reclamation Engineering?

YES Description and Number of Projects: Triad has performed this work on hundreds of projects for the WVDEP/AML. In addition, we have performed numerous similar projects for other governmental agencies and private entities since our inception in 1975.

NO

B. Is your firm experienced in Soil Analysis?

YES Description and Number of Projects: Triad has completed thousands of projects involving soil analysis throughout our years of service, and our geotechnical materials testing labs are certified by the WVDOT/DOH.

NO

C. Is your firm experienced in hydrology and hydraulics?

YES Description and Number of Projects: Triad has completed hundreds of projects in the areas of hydrology and hydraulics since our inception, with customers including the WVDEP, U.S. Army Corps of Engineers, and the WVDNR.

NO

D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?

YES Description and Number of Projects: Triad typically subcontracts the aerial photography and mapping. However, Triad lays out the targets in the field and conducts the survey for establishment of horizontal and vertical control used to develop the final mapping. It is estimated that we have completed several hundred of these types of mapping projects since the inception of the firm in 1975.

NO

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

YES Description and Number of Projects: Triad has completed a total of 10 waterline design projects including: Norton Harding Jimtown, Alkol Phase 1 and 2, 14 Mile, 10 Mile, 9 Mile, 6 Mile, Gatlin Coal Waterline Extension, Mason Phase 1 and 2, and Moorefield. Numerous Phase I and Phase II waterline feasibility studies have also been conducted.

NO

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

YES Description and Number of Projects: Triad has performed hundreds of AMD evaluations and abatement designs and is qualified to support this project.

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.) Hare, Robert M., P.E. Civil Department Manager / Senior Engineer	YEARS OF AML DESIGN EXPERIENCE: 2	YEARS OF AML RELATED DESIGN EXPERIENCE: 10	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 10
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Brief Explanation of Responsibilities: Mr. Hare has extensive and diversified experience in project management, permitting, marketing, land development/infrastructure development, utility relocation, waterline design, sewer line design, stormwater management design, storm drain design, erosion and sedimentation control, field survey coordination, right of way plan preparation, and highway design. Mr. Hare has over 27 years of diversified civil engineering experience.

EDUCATION (Degree, Year, Specialization)
BS, 1979, Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
ASHE

REGISTRATION (Type, Year, State)
Registered Professional Engineer, 1984, WV
Registered Professional Engineer, 1984, PA
Registered Professional Engineer, 1984, MD
Registered Professional Engineer, 1984, VA

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.) Waltz, Charles T., P.E. Project Engineer	YEARS OF AML DESIGN EXPERIENCE: 13	YEARS OF AML RELATED DESIGN EXPERIENCE: 13	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 13
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Brief Explanation of Responsibilities: Mr. Waltz is a licensed geotechnical engineer. As a project engineer, he applies his knowledge, skills and experience to identify problems and develop and analyze solutions, as well as supervise staff members to advance the timely completion of projects. Mr. Waltz's forensic engineering skills are frequently utilized by WVBRI for subsidence determination.

EDUCATION (Degree, Year, Specialization)
BS, 1990, Engineering Technology
BS, 1990, Business Administration
BA, 1989, Board of Regents

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
ASCE

REGISTRATION (Type, Year, State)
Registered Professional Engineer, 2008, WV
Registered Professional Engineer, 2008, VA
MSHA Annual Certification, Surface Coal Operations
WVDOH Certified Compaction Technician
OSHA 40 Hour Certification

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.) Krabill, Karen L., P.E. Geotechnical Services Manager / Senior Engineer	YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE: 15	YEARS OF AML RELATED DESIGN EXPERIENCE: 15

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0

Brief Explanation of Responsibilities: Ms. Krabill is responsible for the set-up and supervision of all aspects of geotechnical projects. Her specialties include design of safe and stable fill and excavated slopes. She is proficient in performing stability evaluations, hydraulic and hydrologic analysis and design, and coordination of subsurface explorations. Ms. Krabill's responsibilities on this project will include coordination of the design team and review of all work product generated for the project.

EDUCATION (Degree, Year, Specialization)
BS, 1984, Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)
Registered Professional Engineer, 1984, WV
Registered Professional Engineer, 2007, MD
Registered Professional Engineer, 2008, PA
MSHA Annual Certification, Surface Coal Mine Operations

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.) Hicks, Linda J. (Jane) Project Engineer	YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE: 6	YEARS OF AML RELATED DESIGN EXPERIENCE: 6

YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0

Brief Explanation of Responsibilities: Ms. Hicks has provided geotechnical/environmental engineering services with a focus on mining related consequences. Her work has included soil and foundation engineering, subsidence evaluations, environmental testing and assessments, geological analysis, as well as construction testing and inspection.

EDUCATION (Degree, Year, Specialization)
BSEM, 1981, Engineering of Mines
MA, 1989, Mathematical Education

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)
MSHA Annual Certification, Surface Coal Mine Operations
Humboldt Certified for Nuclear Density Gauge Operations

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.) Gardner, William M. Drilling Services Manager / Geologist	YEARS OF AML DESIGN EXPERIENCE: 19	YEARS OF AML RELATED DESIGN EXPERIENCE: 27	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 12
	Brief Explanation of Responsibilities: Mr. Gardner has over 29 years of experience as a geologist and has managed Triad's Morgantown, WV drilling operations since 1982. His career has included drilling at numerous mining sites, many of them AML. His experience has included horizontal drilling and sampling in coal seams, deep mine mineral reserve projects, installation of monitoring wells and piezometers, core borings in sensitive environmental conditions such as streams and wetlands, mine floor evaluations, deep mine grout evaluations, and geotechnical, environmental and construction-related projects.		

EDUCATION (Degree, Year, Specialization)
BS, 1975, Geology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
NDCA

REGISTRATION (Type, Year, State)
Certified Monitoring Well Driller, 2000, WV
MSHA Annual Certification, Surface Coal Mine Operations

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.) Hando, John C., Ph.D. Environmental Services Manager	YEARS OF AML DESIGN EXPERIENCE: 0	YEARS OF AML RELATED DESIGN EXPERIENCE: 0	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0
	Brief Explanation of Responsibilities: Dr. Hando is the Environmental Services Manager at the Morgantown, West Virginia office of Triad. In this capacity, Dr. Hando is responsible for managing Triad's environmental department staff, providing environmental contracts oversight and administration, ensuring overall quality control and technical quality assurance of projects undertaken by the environmental department, and performing technical contract work. In addition, Dr. Hando has approximately 20 years of experience, including positions at WVDEP and WVDNR, managing emergency removals and site remediations / characterizations and providing technical and project oversight. Specifically regarding AML, Dr. Hando was responsible for managing hazardous substances and materials relating to AML projects during his tenure at WVDEP.		

EDUCATION (Degree, Year, Specialization)
BS, 1987, Biology
Ph.D., 1996, Genetics

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
American Chemical Society

REGISTRATION (Type, Year, State)
Pro Board Certified Hazardous Materials Technician
MSHA Annual Certification, Surface Coal Mine Operations

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:
Hilgar, Gary M., P.G., I.R.S. Senior Environmental Geologist	2	5
<p>Brief Explanation of Responsibilities: Mr. Hilgar has over 29 years of geologic and hydrogeologic experience. He has extensive background in the bituminous coal fields of the area with respect to mining and related effects. He has performed a number of revegetation monitoring studies as well as: groundwater assessment, hydrologic consequences of mining, soil and groundwater assessments, and environmental impact evaluations. He also has AML experience primarily doing field problem area descriptions (PADS) and prioritizations in Monongalia/Preston Counties for the WV AML Inventory that was submitted to OSM in the late 1980's. He will provide senior environmental evaluations and field assessments as needed for environmental and hydrogeologic aspects of this project.</p>		

EDUCATION (Degree, Year, Specialization)
 MS, 1979, Geology
 BS, 1976, Geology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
 National Groundwater Association
 Air & Waste Management Association
 Pennsylvania Council of Professional Geologists
 AIPG

REGISTRATION (Type, Year, State)
 Registered Professional Geologist, 1988, TN
 Registered Professional Geologist, 1993, KY
 Registered Professional Geologist, 1995, PA
 Licensed Remediation Specialist, 2002, WV
 Certified Professional Geologist, 1984, AIPG
 Licensed Asbestos Inspector, WV
 Licensed Well Driller, WV

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:
Work, Lydia M., I.R.S. Branch Manager / Senior Chemist	0	5

Brief Explanation of Responsibilities: Ms. Work is currently the Branch Manager of the Morgantown, WV office of Triad Engineering. In this capacity, Ms. Work is responsible for managing staff and contract administration of projects undertaken by the office. She will also provide direction to environmental work on this project, and use her significant background in water chemistry and environmental assessment to provide senior management and oversight.

EDUCATION (Degree, Year, Specialization)
 BS (Honors), 1989, Chemistry

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
 Management Association
 West Virginia Manufacturers Association

REGISTRATION (Type, Year, State)
 Licensed Remediation Specialist, 2003, WV
 OSHA 40 hour Certification
 MSHA Annual Certification, Surface Coal Mine Operations

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Phillips, Carol L. Staff Environmental Scientist	0	3	0

Brief Explanation of Responsibilities: Ms. Phillips is currently a Staff Environmental Scientist at the Morgantown office of Triad. In this capacity she conducts field work and report writing for environmental projects. She has extensive experience in stream & wetland mitigation construction monitoring, CWA permitting, stream & wetland delineation using US Corps of Engineers Wetland Delineation Manual, hydric soil characterization, wetland vegetation, and field indicators for wetland hydrology. She has also conducted threatened and endangered species habitat surveys and will bring this plus her extensive ESA experience to the project environmental work.

EDUCATION (Degree, Year, Specialization)
 AS, 2003, Environmental Technology
 BA, ongoing, Board of Regents

Canaan Valley Institute, 2007, Natural Stream Channel Design Construction

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
 Air & Waste Management Association
 Society of Wetland Managers
 Association of State Wetland Managers
 Virginia Association of Wetland Professionals

REGISTRATION (Type, Year, State)
 Certified Responsible Land Disturber, VA
 Wetland Plant Identification Training
 MSHA Annual Certification, Surface Coal Mine Operations

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Chambers, Harold W. (Chip) Survey Department Manager / Project Engineer / Survey Chief	16	29	16

Brief Explanation of Responsibilities: Mr. Chambers has performed engineering, surveying and management services for numerous civil design, mine development, commercial, industrial, transportation and mine reclamation projects. Mr. Chambers office duties associated with AML reclamation projects involve mine map review and the planning, coordination, supervision, survey data processing and cost estimation for surveying services on design and mapping projects.

EDUCATION (Degree, Year, Specialization)
 BS, 1981, Mining Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
 WVVALS

REGISTRATION (Type, Year, State)
 MSHA Annual Certification, Surface Coal Mine Operations

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

<p>NAME & TITLE (Last, First, Middle Int.) Talkington, Ronald A. Survey Supervisor</p>	<p>YEARS OF EXPERIENCE</p>		<p>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0</p>
<p>Brief Explanation of Responsibilities: Mr. Talkington's field responsibilities associated with abandoned mine lands and reclamation mapping and design projects include construction and property surveys. He has experience in a wide range of survey-related project/client applications, including construction layout, pay item quantity calculation / verification, record research, property surveys and preparation of property plats and legal descriptions.</p> <p>EDUCATION (Degree, Year, Specialization) Various Surveying Courses</p>	<p>YEARS OF AML DESIGN EXPERIENCE: 0</p>	<p>YEARS OF AML RELATED DESIGN EXPERIENCE: 26</p>	<p>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0</p>
<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</p> <p>REGISTRATION (Type, Year, State) Professional Surveyor, 1989, WY MSHA Annual Certification, Surface Coal Mine Operations</p>			

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES

IN-HOUSE SOFTWARE

PCSTABL5M Slope Stability Software
Civil 3D CADD Software
Eagle Point Survey Software
HEC-1, HEC-HMS and HEC-RAS Flood Routing Software
Hydraflow Hydrographs and Hydraflow Storm Sewers SWM Software
Flowmaster SWM Software

LABORATORY TESTING EQUIPMENT

Triaxial Compression Machine, Manual Proctor Devices (standard & modified), Automatic Proctor Hammer, Turbidimeter, Hydrometers, pH Tester (soil & water), Electronic Scales
Unconfined Compression Machine, Atterberg Limits Devices, Electrical Resistivity Meters, California Bearing Ratio Devices, Specific Gravity Devices, 2000 Degree Fahrenheit Oven, Permeability Cells and Back-Pressure Panel Boards, Consolidometer, Electronic Manometers, Concrete Compressive Strength Equipment, Sieves and Sieve Shakers, Sample Splitters, Unit Weight Buckets, Slake Durability Machine, L.A. Abrasion Machine, Load Frames, Sodium Sulfate Soundness Test Equipment, Asphalt Test Equipment, Relative Density Test Apparatus

DRILLING EQUIPMENT

CME 550 Track-Mounted Drill Rig
CME 45 ATV-Mounted Drill Rig
Mobile B-53 Truck-Mounted Drill Rig
Deep Rock DR-150 4WD Truck-Mounted Drill Rig (with Down-Hole-Hammer)
Portable Grout Mixer and Pump

FIELD QA/QC TESTING EQUIPMENT

Troxler Nuclear Moisture-Density Gauges
Slump Cones (Concrete slump)
Pressure Meters (Concrete Air Content)
Concrete Thermometers
Concrete Cylinder Molds
Paint Thickness Gauges

FIELD SURVEYING EQUIPMENT

Topcon RTK GPS System
Topcon Electronic Total Stations (4)
Topcon and Sokkia Auto Levels (3)
HP Data Collectors (2)
Carlson Data Collector (1)
Misc. Prisms, Level Rods, Motorola 2-way Radios (6)

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Jessop Portals Jessop, WV	Friends of the Cheat 109 South Price Street Kingwood, WV 26537	Stream channel design; reclamation plans for abandoned mine portal; wetland delineation plan; AMD treatment design; vegetation survey	Unknown	100%
Glade Run Wetland Inspections Four West Deep Mine Greene County, PA	Dana Mining Company of Pennsylvania, Inc. 308 Dents Run Road Morgantown, WV 26501	Construction inspection, annual monitoring, and vegetative composition survey of a constructed mitigation wetland.	UNKNOWN	75%
Cloudy Run Inspection Four West Deep Mine, Greene County, PA	Dana Mining Company of Pennsylvania, Inc. 308 Dents Run Road Morgantown, WV 26501	Evaluation of channel characteristics and vegetative cover and composition at a stream segment relocated for construction of an underground mine opening.	UNKNOWN	100%
Federal No. 2 Mine Refuse Area Refuse Sampling & Vegetation Analysis Bula, WV	Peabody Energy Miracle Run Road Bula, WV	Soil sampling and testing at a coal refuse disposal area to determine soil amendment requirements needed to enhance vegetative growth.	UNKNOWN	50%
Vegetation Productivity Assessments at Reclaimed Mines, Monongalia and Preston Counties, WV	Patriot Mining Company 2708 Cranberry Square Morgantown, WV 26508	Perform analysis of vegetative yield at reclaimed mine sites to determine if revegetation is adequate for reclamation bond release.	UNKNOWN	60%
Bismarck Deep Mine Mount Storm, WV	Wolf Run Mining Company 2708 Cranberry Square Morgantown, WV 26508	Wetland delineation/stream assessment for mine portal to be constructed on pre- law mine bench. Included CWA Section 401/404 permits & DNR Public Lands permit	Unknown	100%
Refuse Area Expansion Phillipi Development Division, Phillipi, WV	Wolf Run Mining Company 2708 Cranberry Square Morgantown, WV 26508	Performed a wetland delineation for the proposed expansion of an existing coal refuse disposal area.	Unknown	100%

<p>Probable Hydrologic Consequences of Mining, Various Sites in WV and PA.</p>	<p>Various Mining Clients in WV and PA</p>	<p>Determine the potential impacts of mining-related activities on the hydrologic balance. Evaluate hydrologic and geochemical data; determination of potential for adverse hydrologic consequences; and recommendations for avoidance of adverse impacts.</p>	<p>Unknown</p>	<p>Ongoing</p>
<p>Grafton Coal Company Mt. Storm, WV</p>	<p>NedPower II, LLC Chantilly, VA 20151</p>	<p>Environmental site assessment of former mine property prior to wind power project development</p>	<p>Unknown</p>	<p>100%</p>
<p>CNX FISH CREEK METHANE GAS FACILITY, SITE DEVELOPMENT PLAN, CAMERON, WV</p>	<p>CONSOL ENERGY, INC. RESEARCH AND DEVELOPMENT 4000 BROWNSVILLE ROAD SOUTH PARK, PA 15129</p>	<p>SITE DEVELOPMENT PLAN TO INCLUDE GRADING, DRAINAGE, E&S AND ROAD DESIGN</p>	<p>Unknown</p>	<p>100%</p>
<p>HIGHLANDS AT BLACKWATER LAND DEVELOPMENT PROJECT TUCKER COUNTY, WV</p>	<p>BLACKWATER INVESTMENT GROUP 2615 WINDRIDGE DRIVE DOYLESTOWN, PA 18902</p>	<p>GEOTECHNICAL EVALUATION INCLUDING DRILLING, DEEP MINE ASSESSMENT, AND GEOTECHNICAL RECOMMENDATIONS</p>	<p>Unknown</p>	<p>80%</p>
<p>TOTAL NUMBER OF PROJECTS:</p>		<p>TOTAL ESTIMATED CONSTRUCTION COSTS: \$</p>		

16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
Monongalia General Hospital Addition, J.D. Anderson Drive, Morgantown WV	Surveying as needed for Turner Construction Co.	Monongalia Health Systems, Inc., 1200 J.D. Anderson Drive, Morgantown WV 26505	2009	\$92,000,000	On-going project
Engineering Sciences Building East Wing Addition, Morgantown, WV	Construction surveying as needed for TEDCO Construction Co.	West Virginia University, One WaterFront Place, Morgantown, WV 26506	2008	Unknown	On-going project
Oglebay Hall Renovations, WVU, Morgantown WV	Construction surveying as needed for Massaro Corporation	West Virginia University, One WaterFront Place, Morgantown, WV 26506	2007	Unknown	On-going project
MonFayette Expressway Morgans Run Bridge, Cheat Neck, WV	Construction surveying services as needed for Mosites Construction Co.	WV Dept. of Transportation, Bldg. 5, 1900 Kanawha Blvd E., Charleston WV 25305	2009	Unknown	On-going project
The Augusta on the Square at Falling Run, Apartment complex, Morgantown WV	Construction surveying services as needed for Landau Building Co.	McCoy 6 Apartments, 401 Grand Central Station, Ste 6022, Morgantown WV26505	2007	\$23,000,000	On-going project
502 Junction Substation, Mt. Morris, PA & PREXY Substation, Cannonsburg PA	Preparation of an ALTA/ACSM Land Title Survey for Kenny Construction Co.	Allegheny Energy Service Co. 800 Cabin Hill Dr., Greensburg, PA 15601	2011	Unknown	On-going project

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Jimtown Tipple Lumberport, WV Geotechnical Evaluation	WVDEP AML & R 105 S. Railroad St. Suite 201 Phillippi, WV	Unknown	2004	Yes
Vens Run Landslide #2 Jane Lew, WV Geotech/Drilling/Surveying	WVDEP AML & R 105 S. Railroad St. Suite 201 Phillippi, WV	Unknown	2004	Yes
Mettiki Coal, Test Drilling for Monitoring Well Development over a Proposed Deep Mine, Garrett County, MD	Mettiki Coal Company 293 Table Rock Road Oakland, MD 21550	Unknown	2004	Yes
Coastal Coal, Environmental Assessment of Brooks Run Mining Properties, Braxton County, WV	Coastal Coal Company 25 Little Birch Road Sutton, WV 26601	Unknown	2003	Yes
Mettiki Coal, Rock Coring & Piezometer Installation Over Longwall Mine in Grant Co, WV	Mettiki Coal Company 293 Table Rock Road Oakland, MD 21550	Unknown	2005	Yes
Fairmont General Hospital Wellness Center Marion County, WV Geotech/Mining Assessment	Fairmont General Hospital Locust Avenue Fairmont, WV	Unknown	2006	Under Construction
WVU Alumni Center Monongalia County, WV Geotechnical Evaluation	West Virginia Alumni Assoc. Erickson Alumni Center Morgantown, WV	Unknown	2004	Under Construction
Rosemont Highway & Portals Barbour County, WV Design Regrading & Drainage	WVDEP AML & R 105 S. Railroad Street Suite 201 Phillippi, WV	Unknown	2002	Yes
Wharf District Parking Facility Monongalia County, WV Geotechnical Evaluation	Morgantown Parking Authority 300 Spruce Street Morgantown, WV	Unknown	2002	Yes

Wharf District Apartments Monongalia County, WV Geotechnical Evaluation	Castle Ventures, LLC 1117 S. University Ave. Morgantown, WV	Unknown	2002	Yes
Morgantown Runway Safety Extension Monongalia County, WV Geotechnical Evaluation	Morgantown Municipal Airport Morgantown, WV	Unknown	2002	Yes
Clinton Water Tanks Monongalia County, WV Geotechnical Evaluation	Clinton Water Association Green Bag Road Morgantown, WV	Unknown	2002	Yes
Duffy St./Van Rufus Drive Subsidence Project Shinnston, WV Reclamation Design	WVDEP AML & R 105 S. Railroad Street Suite 201 Phillippi, WV	Unknown	2003	Yes
Suncrest Towne Centre Monongalia County, WV Geotechnical Eval./QA/QC	705 Development Group Suncrest Village Morgantown, WV	Unknown	2004	On-Going
Westwood & Cass Elementary Schools, Morgantown High, Clay Batelle High, Mason- Dixon Elementary Monongalia County, WV Geotechnical/Surveying	Monongalia County Board of Education 13 S. High Street Morgantown, WV	Unknown	2004	Yes

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)						
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH	
Backbone Mtn. Wind Turbine Generator Project, Tucker & Preston Co., WV geotech/surveying	FPL Energy, PO Box 14000, Juno Beach FL	100,000	2002	Yes	Atlantic Renewable Resources & M.A. Mortenson Co., 700 Meadow Lane N./ Minneapolis MN55422	
Wharf District Apts, Morgantown WV Geotech/drilling/ testing and inspection	Castle Ventures I, Michael Castle, South University Avenue, Morgantown WV 26505	Project cost \$6,200,000 Our portion unknown	2003	Yes	March Westin, 360 Frontier St., Morgantown WV 26505	
Lincoln Hall Dormitory, WVU Evansdale Campus Civil, ESA, testing	West Virginia University, Planning Design & Construction Morgantown, WV 26506	Project cost \$14,500,000 Our portion unknown	2006	yes	American Campus Communities, 805 Las Cimmas Parkway Ste 400 Austin TX 78746	
West Virginia Univ. Admin Bldg & Parking Bldg, Morgantown WV; geotech/drilling/fou ndation design	West Virginia University, Planning Design & Construction Morgantown, WV 26506	100,000	2004	Yes	March Westin Co., 360 Frontier St., Morgantown WV 26505	
Waterfront Hotel & Conf Center, Morgantown WV Geotech/drilling/ testing	Platinum Properties, 990 Elmer Prince Dr Morgantown, WV 26505	Project cost \$32,000,000 Our portion unknown	2004	Yes	March Westin Co., 360 Frontier St., Morgantown WV 26505	
University Towne Centre, Retail Shopping Complex, Granville WV; testing, surveying, geotech, drilling	Ideal Co. (Cracker Barrel) 8313 N. Kimmel Rd, Clayton OH 45315; Complete Const. (Olive Garden), 11700 Commonwealth, Louisville KY 40299	unknown	2007	Various retail stores built; development on-going	CONSOL Energy/CNX Land Resources, 4000 Brownesville Rd., South Park PA 15129	

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program.

Triad Engineering, Incorporated (TRIAD) is a full service engineering firm specializing in the areas of geotechnical engineering, civil design, environmental assessment, construction monitoring, subsurface exploration, laboratory testing, surveying and mining engineering, among other earth science disciplines. Our current work force includes civil, geotechnical and mining engineers, environmental scientists, geologists, hydrologists, chemists, surveyors, trained Computer Aided Design Drafting (CADD) draftsmen, field and laboratory technicians, drillers and support personnel.

TRIAD was founded in Morgantown, West Virginia (WV) in 1975 by three principals who molded the firm based on their belief that if the highest standards were maintained throughout all aspects of the company, they would earn their clients' respect, therefore ensuring the firm's continued growth. Today, TRIAD has a staff of approximately 250 full-time employees and six office locations in WV, Pennsylvania, Maryland and Virginia. By providing an array of competent services, using modern equipment, and maintaining a well-trained professional staff, TRIAD has maintained the founders' philosophies and proven that customer satisfaction results in good relationships and repeat business.

Furthermore, TRIAD is an employee-owned company with an active Board of Directors. Current Officers and Board Members are:

- Chief Executive Officer (CEO) – Randy Moulton, PE
- Senior Vice President – John Meeks, PG, LRS
- Chief Financial Officer (CFO) – Tina McPhail
- William Gardner
- Dan Hamric, PE
- Robert Holstead, PE
- Parviz Jalali, PE
- John Kent, PE
- David Moore
- Brad Reynolds, PE

TRIAD has successfully performed thousands of projects utilizing its professional expertise. TRIAD employees pride themselves on their ability to provide the firm's clients with top-quality work that is on schedule and within budget. Our company is small enough to be responsive to the needs of our customers and large enough to remain at the forefront of scientific solutions.

We are extremely proud of our performance under past contracts, including those we have held with the WVDEP. As of this date, more than 400 AML&R projects have been undertaken by TRIAD. The vast majority of these projects have been successfully completed on time and within the proposed cost estimate. As always, TRIAD will commit the necessary resources to meet the needs of this project.

20. The foregoing is a statement of facts.

Signature: *Lydia M. Wark*

Title: *Branch Manager*

Printed Name: *Lydia M. Wark*

Date: 21 October 2008

