

**EXPRESSION OF INTEREST**

**PROFESSIONAL ENGINEERING DESIGN SERVICES AND  
CONSTRUCTION MONITORING SERVICES**

**MOUNT STORM 25A IN GRANT COUNTY, WEST VIRGINIA**

**Requisition #DEP14369**

**October 2008**

**PREPARED FOR:**

**The West Virginia Purchasing Division, for the  
Department of Environmental Protection  
2019 Washington Street East  
PO Box 50130  
Charleston, WV 25305-0130**

**PREPARED BY:**



**Alder Run Engineering  
107 Coal Street  
Osceola Mills, PA 16666  
Phone: 814-339-6998  
Fax: 814-339-6266**



**Blazosky Associates, Inc.  
2525 Green Tech Drive  
Suite D  
State College, PA 16803  
Phone: 814-238-2060  
Fax: 814-238-7123  
[www.blazosky.com](http://www.blazosky.com)**

**RECEIVED**

2008 OCT 23 A 9: 56

PURCHASING DIVISION  
STATE OF WV



107 Coal Street • Osceola Mills, PA 16666  
Phone & Fax: 814-339-6998  
alderrunengineering@verizon.net  
CIVIL & ENVIRONMENTAL ENGINEERING SERVICES

October 22, 2008

Mr. Chuck Bowman  
WV Department of Environmental Protection  
Office of AML&R  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

**RE: Expression of Interest  
Mount Storm 25A  
Requisition #DEP 14369**

Dear Mr. Bowman:

Alder Run Engineering, LLC (ARE) is pleased to submit this Expression of Interest to provide professional services for the Mount Storm 25A Project (Requisition #DEP14369) to the West Virginia Department of Environmental Protection. This package contains one proposal plus a convenience copy and one copy on CD.

ARE has been providing design services for mine reclamation and mine drainage projects since 2003. Our current projects include mine land reclamation, highwall reclamation, stream channel re-establishment, and mine drainage handling and treatment in both the bituminous and anthracite coal regions of the eastern United States.

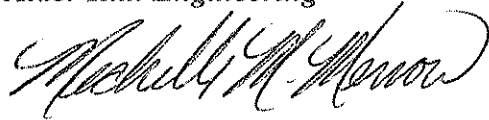
We have assembled a project team that includes Blazosky Associates, Inc. (BAI), Wetlands Habitat Management, Inc. (WHM), and Land and Mapping Services (LMS). This project team combines ARE's experience with mine land reclamation with the experience of the well-established companies of BAI, WHM, and LMS. All of these companies perform work throughout the eastern United States, and this project team is currently under contract with the Pennsylvania Department of Environmental Protection Bureau of Mining and Reclamation for design services under contract PA BMR DES-01.

Mr. Chuck Bowman  
WV Department of Environmental Protection

October 22, 2008  
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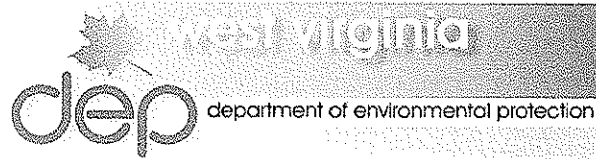
We thank you for this opportunity to provide this proposal to the West Virginia Department of Environmental Protection. Please feel free to contact me at (814)339-6998 if you have any questions or if you need additional information following your review of these documents.

*Sincerely,*  
*Alder Run Engineering*

A handwritten signature in cursive script, reading "Michelle M. Merrow".

Michelle M. Merrow, P.E.  
President

Enclosures



## **EXPRESSION OF INTEREST**

### **PROFESSIONAL ENGINEERING DESIGN SERVICES AND CONSTRUCTION MONITORING SERVICES**

**MOUNT STORM 25A IN GRANT COUNTY, WEST VIRGINIA**

**Requisition #DEP14369**

**October 2008**

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## BACKGROUND INFORMATION

Alder Run Engineering, LLC, (ARE) has submitted this Expression of Interest for the Mt Storm Mine 25A Project (Requisition #DEP14369) to provide architectural/engineering services and construction monitoring services for the project. ARE and all project team firms as licensed architectural/engineering (A/E) firms with a successful track record of design of similar projects.

The Mt Storm Mine 25A site consists of 1400 linear feet of highwall, a strip pit, and acid mine drainage (AMD). The highwall averages 25 feet in height and ranges from vertical to sloughed-in and vegetated. An occupied home is located approximately 300 feet to the south of the highwall. A small pit is located at the base of the southern end of the highwall, and the pit measures approximately 20 feet wide and 70 feet long. Due to mining activities that altered the topography, the natural drainage flows into the pit. As a result, the surface water percolates through the strip pit and spoil creating several AMD seeps along the toe of the spoil. Site visitation is evident throughout the project area with scattered debris, roads, and ATV trails present. Additionally, an occupied home, with children residents, is located within 300 feet of the problem area.

Based on the available mine maps, it appears that the Elk Lick Coal Seam was mined at this site. The coal dips to the northwest direction, and the coal was mined extensively by surface mining. The overburden of the coal seams in the region is known for its high acid-producing potential. Consequently, the unreclaimed and uncompacted strip mine spoil from past mining activities acts as a source of acidity creating AMD.

The mission or purpose of this project is to provide design services for the following:

- Upgrade 1500 feet of access road to the site;
- Dewater the impoundment and backfill the highwall area with compacted mine spoil;
- Construct underdrains and diversion ditches to carry the water safely off-site;
- Construct natural stream channel and grouted riprap channel with culverts; and
- Condition and revegetate all areas disturbed by construction.

Design aspects will include, but are not limited to, civil, structural, geological, and hydrological engineering.

ARE has been providing design services for mine reclamation and mine drainage projects since 2003. Our current projects include mine land reclamation, highwall reclamation, stream channel re-establishment, and mine drainage handling and treatment in both the bituminous and anthracite coal regions of the eastern United States.

We have assembled a project team that includes Blazosky Associates, Inc. (BAI), Wetlands Habitat Management, Inc. (WHM), and Land and Mapping Services (LMS). This project team combines ARE's experience with mine land reclamation with the experience of the well-established companies of BAI, WHM, and LMS. All of these companies perform work throughout the eastern United States, and this project team is currently under contract with the Pennsylvania Department of Environmental Protection Bureau of Mining and Reclamation for design services under contract PA BMR DES-01. ARE would serve as the prime contractor for this project.



## COMPANY PROFILE

Alder Run Engineering was formed in 2003 to provide civil and environmental engineering services in the central Pennsylvania region. Since that time, we have expanded our service area to contain all of Pennsylvania, including both the anthracite and bituminous coal regions, as well as parts of West Virginia and Ohio.

We provide a full range of engineering design services starting with identification of problems and goals and progressing through project planning and design to project construction and post-construction monitoring. We specialize in water resource-related projects and design, such as watershed assessments and restoration plans, the design of mine drainage treatment systems, development of erosion and sediment control and post-construction stormwater management plans, and hydrologic and hydraulic analyses. We are able to assist clients with identifying funding sources and obtaining funding for watershed restoration projects.

Our staff includes licensed, professional engineers and geologists, watershed/acid mine drainage specialists, environmental technicians, foresters, and AutoCAD draftsmen. We are a small business dedicated to providing innovative, high-quality services and personal attention to each and every client.

Our clients include local and state government agencies such as the Pennsylvania Department of Environmental Protection and the Pennsylvania Game Commission, for which we provide mine drainage treatment design services and mine reclamation design. We provide services for conservation organizations such as watershed groups and the Rocky Mountain Elk Foundation. We also assist private industry and other engineering firms with design and plan review services.

Alder Run Engineering is certified as a Pennsylvania Woman Business Enterprise (WBE), a Federal HUBZone business, a Small Business Concern registered with the Small Business Administration (SBA), and a Self-Certifying Small Disadvantaged Business. Alder Run Engineering, and our principal engineer, are licensed to provide engineering services in West Virginia.

**BLAZOSKY ASSOCIATES, INC.**

Blazosky Associates, Inc. (BAI) is a mid-sized environmental consulting firm that was founded by John J. Blazosky, P.E., in 1986. The firm was originally developed to fulfill the technical consulting needs of the private and public sectors of the waste management industry. Over time, BAI has expanded its expertise into many other areas to become a full service environmental consultant. This diversification of services was also followed with expansion in the geographic area and clientele it serves. After successfully operating the firm for almost 22 years, John Blazosky selected Michael Rudy, P.E., a long time employee of BAI, to become his successor.

A key element of BAI's success is attributed to the people that comprise the firm. BAI maintains a mosaic of individuals that possess expertise in many types of environmental and civil engineering, geology, soil science, and other technical disciplines. These individuals possess unique skills and experiences that are regularly used as resources by their colleagues. We have found that this diversity is important in allowing our staff to think creatively when addressing our client's issues. As a team, this group of individuals has proven to be very flexible in adapting to specific project requests from our clients and delivering well thought out solutions.

The remaining component of our success is largely attributed to establishing long-term professional relationships with our clients and other project stakeholders. For our clients this has been achieved through listening to what their needs are and providing high quality consulting services to meet expectations at a reasonable cost. For the remaining stakeholders, it is primarily focused on establishing and maintaining credibility by developing solutions that balance their needs as well.

While it is inevitable that BAI will continue to modify our practice to keep current with new technologies and market opportunities, we will continue to embrace the aforementioned lessons learned. With a long and successful track record, we are confident that these fundamentals will guide the firm in a direction that will be mutually beneficially for our clients; namely, sharing our client's vision and helping them achieve their goals.



Michael L. Rudy, P.E.  
President



## Corporate History

**Wetlands Habitat Management, Inc. (WHM)** is a multi-discipline corporation committed to providing environmental resource solutions. With specific expertise in water resources, our organization specializes in:

- Wetland and stream mitigation, design, and construction
- Wetland delineations
- Natural channel design (NCD)
- Passive wetland treatment systems
- Mine drainage solutions
- Flood control
- Dam removal
- Environmental monitoring
- Local, state and federal permitting
- Watershed assessments
- Geomorphic stream classification assessments
- Reestablishment of Riparian zones along stream channels
- Stream stabilization
- Aquatic habitat assessments
- Biological and ecological assessments
- Threatened and endangered species surveys and studies

**WHM** is owned by its original founders, who are professionals with backgrounds in government and governmental relations, environmental permitting, environmental engineering, the natural sciences, construction, business development (in the United States and abroad), and economic development.

**WHM** originated by providing third-party professional support to clients dealing with complex wetland, stream and other highly regulated environmental issues. **WHM** served as a vehicle to design, permit, construct, monitor, and own sophisticated, dynamic wetland sites developed as mitigation, recreation, or developer enhancements.

With our main office in State College, Pennsylvania, **WHM** maintains a close relationship with university resources concerned with environmental or wetlands related issues. Our satellite office in Harrisburg, Pennsylvania, allows **WHM** to maintain close communications with regulators and legislators and to monitor emerging government environmental initiatives. Associates of **WHM** with offices in Delaware Valley and Pittsburgh provide coverage throughout Pennsylvania and the surrounding regions. Directly and through collaboration with other organizations, **WHM** serves a variety of clients throughout the eastern and southeastern United States.

The Directors and Associates of **WHM** have worked on a wide array of business and environmental interests. Examples of the breadth of services are:

- Wetland determinations and delineations for various construction projects.
- Biological surveys, studies, and assessments for threatened and endangered species such as the bog turtle, the red-bellied turtle, and the timber rattlesnake.
- Surface water characterization studies, including macroinvertebrate population counts.

- Complete environmental permitting for large, complex projects.
- Construction management and professional engineering certification.
- Ground and surface water quality studies, site assessments, and remediation.
- Implementation of reuse strategies for abandoned industrial properties.
- Preparation of bid documents and project specifications for environmental studies.

# Land & Mapping Services

## CORPORATE OVERVIEW

*Land & Mapping Services* was formed to provide its clientele with “*State of the Art Professional Photogrammetric Mapping and Surveying Services*”. Firm wide our staff is well experienced in all phases of digital photogrammetry and its associated surveying services. The current experience level of our senior employees averages well over twenty-five years and encompasses projects located throughout the world.

*Professional Land Surveyor* registrations cover eleven states of practice. Also on staff are one *Certified Photogrammetrist*, three *Certified Open Water Divers* and seven *Certified GPS Technicians*. Taking into account a strong commitment by management to utilize only the latest technologies in hardware and software *Land & Mapping Services* is proud to attest that it is truly “*Committed to Excellence*”.

## ANALYTICAL BRIDGING

*Land & Mapping Services* has full in house capabilities to perform all phases of analytical bridging. This technology gives us the ability to quickly resolve control problems and more importantly to keep control costs to a minimum. All projects are pugged on a *Wild PUG -3 Point Transfer Devise* or a *Kern CMP2+* and/or measured on *First-Order Analytical Stereo Instruments* then adjusted via “*Albany*” analytical bridging software.

## DIGITAL PHOTOGRAMMETRIC MAPPING

All digital mapping is collected via one of *Seven (7) Intergraph/Zeiss IMA* first order stereo instruments. These machines are known to be one of the top stereo collection instruments in the industry. The primary software utilized for map compilation is a combination of *Cadmap DGN* and *Intergraph Microstation*. The combination of these two powerful packages gives us the ability to economically collect clean *3D* (three-dimensional) data files.

## CAD EDIT

The process of cad edit is completed on one of *eight (8) cad edit stations* running *Intergraph Microstation, Autocad, Arc View, ARC/INFO, Terra Model Plus 3* and others as required. All five workstations are Pentium based systems of 200 MHz to dual 750 MHz speeds. Projects can be shipped on floppy diskettes, cartridge tapes or CD-ROMS along with crisp color inkjet plots. All digital files are monitored to assure that they are of minimum size; you will not find clusters of useless points in our files.

## DIGITAL ORTHO-PHOTO PRODUCTION

Digital ortho rectification is completed buy utilizing *PCI Enterprises Inc. or Intergraph “Z Station”* software. If required the 3D ground points can be provided in-house through our photogrammetric mapping group or secured/produced through other data sources. Additional information is available on file sizes, pixel size to ground units, image scanning recommendations etc.

## GIS/LIS

Collectively our staff has been responsible for the production of well over a thousand square miles of GIS/LIS base mapping. We can provide you with everything from the design and production of your base data to complete turn-key systems including data, software, hardware, custom applications and training. If you have an existing system there's a good chance that it can be improved or is in need of updating, the staff at *Land & Mapping Services* has the expertise to provide these services too.

## FIELD CONTROL & COMPLETION

Everyone should realize that 100% of the detail cannot be located by photogrammetric techniques, and possibly due to your current backlog your survey crew(s) may not be available. It is at these times that our survey group can be of significant value to you. Our current equipment list includes total stations, data collectors, digital levels & field computers along with *TDS*, *Eagle Point* and *Softdesk* software. Some of our latest acquisitions include *four (4) Nikon* one second total stations and *Husky* data collectors running *TDS* software, *Trimble XR & XRS* code based GPS units and *four (4) Trimble 4400 Real Time Kinematic "RTK"* receivers. We have real-time capabilities on both the *Trimble 4400* and the *Trimble XRS* via a real-time satellite link subscription service. We believe that our continued investment in new technology and employee training has truly helped to give us the "edge" over our competition. In exchange it has given us the ability to offer our clients alternative methods to "*economically locate*" various types of information in the field.

## GPS LOCATION SERVICES

As a value-added service to our clients we do provide both code phase and carrier phase GPS services. The addition of this service enables us to provide our clientele with the comfort in knowing that **all services were completed "in-house"** and under the direct supervision of a Professional Land Surveyor and Certified Photogrammetrist.

## LASER SCANNING & MODELING

Our *Cyrax System* is a P.C. based auto-scanning system that measures and models large complex structures and sites with an unprecedented combination of speed and accuracy. The 3D files that are produced reflect complete surface geometry and can be utilized as-is or modeled into highly accurate renderings. In short the system works very much like a reflectorless total station only it has the ability to gather 3D data (survey points) at the rate of 800 points per second.

## Quality Control & Scheduling

As everyone knows a firm's ability to deliver accurate professional services in a timely manner can only be equal to the quality of the people that produce that product; there just aren't any short cuts. Starting from the beginning our employees are some of the most experienced in the business. Our management group is made up of experienced professionals that have an average of over twenty-six years of experience. In reference to our firm as a whole, our average experience level totals over fifteen years each. Not only are our people highly experienced, we have provided them with the most up-to-date equipment and software available today. This is not to say that we do not have a system of final checks for our products and services, we do. But it is our belief that the quality of the final product is proportional to the amount of experience and methodology utilized to produce the product.

*At Land & Mapping Services quality is everyone's job starting from the original layout and design, through completion.*

## CONSULTANT SERVICES

Consulting services are available encompassing a wide range of photogrammetric and surveying services. Please call for additional information or to arrange a meeting.

*"New technology has a tendency to level the playing field between the large & small sized businesses"*

## Letter of Self Certification

Land & Mapping Services with its main office located in Clearfield, Pennsylvania is a  
"Certified HUBZone Small Business Concern".

I attest to the statement as printed above.

James E. Pahel / Partner  
Land & Mapping Services

 10/09/2005

Federal ID #23-2876098      DUNS #005542241      NAICS #54137  
SIC Code #8713      Cage Code #1N1A8

**Business Type: Partnership**  
(Filed under the laws of the Commonwealth of Pennsylvania)

### Partners

James E. Pahel, P.L.S., C.P., P.S.M. & Jeffrey P. Gilmore  
Charles E. Smith & Richard J. Williams

### "Business Registrations" in the following states \*

#### State of Florida

Business License #LS-0005397  
Business License (FL State Registration Board) #LB-0007093  
Department of State #GP0100000396

#### Commonwealth of Kentucky

License #2022246

#### State of Maryland

Not required

#### State of Ohio

Filed May 25, 2001

#### State of South Carolina

COA Number C02818

#### State of West Virginia

Certificate Number 4-5268

#### State of New York

Consultant ID #10932017

#### State of Tennessee

Vendor Number: 232876098-00

#### State of New Jersey

Business Registration Certificate #1122889

### Vendor Registration Numbers

Commonwealth of Pennsylvania      Vendor ID #135244  
The Port Authority of New York & New Jersey      Vendor ID #0000141200

### "Pre-qualified" With the Following Organizations

PA DOT, TN DOT, NJ DOT, NY DOT, KY DOT & NC DOT

\*Please note not all states require "Business Registrations" for partnerships. If required any additional registrations would be filed prior to commencement of any services.

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE Attachment "B"**

PROJECT NAME Mt. Storm 25A #DEP14369	DATE (DAY, MONTH, YEAR) October 21, 2008	FEIN 20 3473392
1. FIRM NAME Alder Run Engineering, LLC.	2. HOME OFFICE BUSINESS ADDRESS 107 Coal Street, Osceola Mills, PA 16666	3. FORMER FIRM NAME Alder Run Engineering
4. HOME OFFICE TELEPHONE 814-339-6998	5. ESTABLISHED (YEAR) 2003	6. TYPE OWNERSHIP Corporation
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE 107 Coal Street, Osceola Mills, PA 16666, 814-339-6998, Michelle M. Merrow, 3		

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Michelle M. Merrow, President 814-339-6998	8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS NA
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9. PERSONNEL BY DISCIPLINE

1 ADMINISTRATIVE	—	LANDSCAPE ARCHITECTS	—	STRUCTURAL ENGINEERS
— ARCHITECTS	—	— MECHANICAL ENGINEERS	—	— SURVEYORS
— BIOLOGIST	—	— MINING ENGINEERS	—	— TRAFFIC ENGINEERS
1 CADD OPERATORS	—	— PHOTOGRAMMETRISTS	—	— OTHER
— CHEMICAL ENGINEERS	—	— PLANNERS: URBAN/REGIONAL	—	
2 CIVIL ENGINEERS	1	— SANITARY ENGINEERS	—	
1 CONSTRUCTION INSPECTORS	—	— SOILS ENGINEERS	—	
— DESIGNERS	—	— SPECIFICATION	—	6 TOTAL PERSONNEL
— DRAFTSMEN	—	— WRITERS	—	

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 1  
 \*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.  
 1 Civil Engineer registered in WV—Michelle M. Merrow, PE, License No. 17507

10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE?  YES  NO  N/A Not a Joint Venture. Project team has worked together in the past on numerous projects

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

NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
Land and Mapping Services 300 North Second Street Clearfield, PA 16830	Surveying and Mapping	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Blazosky Associates, Inc. 2525 Green Tech Drive State College, PA 16803	Environmental Consulting	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Wetlands Habitat Management, Inc. 2525 Green Tech Drive State College, PA 16803	Stream Design and Channel Restoration	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	SPECIALTY:	<input type="checkbox"/> Yes <input type="checkbox"/> No
	SPECIALTY:	<input type="checkbox"/> Yes <input type="checkbox"/> No
	SPECIALTY:	<input type="checkbox"/> Yes <input type="checkbox"/> No
	SPECIALTY:	<input type="checkbox"/> Yes <input type="checkbox"/> No
	SPECIALTY:	<input type="checkbox"/> Yes <input type="checkbox"/> No
	SPECIALTY:	<input type="checkbox"/> Yes <input type="checkbox"/> No

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

YES Description and Number of Projects: We have completed or are conducting over 35 AML reclamation projects involving site reclamation and regrading, revegetation, water diversion and collection, and mine water treatment, and erosion and sediment controls for these projects. See Attached.

NO

B. Is your firm experienced in Soil Analysis?

YES Description and Number of Projects:

NO We intend to utilize the services of Blazosky Associates, a team member, for these services.

C. Is your firm experienced in hydrology and hydraulics?

YES Description and Number of Projects: See Attached.

NO

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

YES Description and Number of Projects:

NO We intend to utilize Land and Mapping Services, a team member, for these services.

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:

NO

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

YES Description and Number of Projects: See Attached.

NO



MT STORM 25A  
EXPRESSION OF INTEREST  
ATTACHMENT B  
ADDITIONAL INFORMATION  
ALDER RUN ENGINEERING, LLC

12A. See also charts at the end of this Attachment and Attachment C. Our AML remediation/reclamation projects have included or involved re-grading, alkaline addition, design of water handling measures, removal of remaining coal, and revegetation practices.

12C. Alder Run Engineering specializes in hydrosystems engineering. Representative projects include hydrologic analysis using a variety of methods including gage analysis, regional regression methods, or mathematical modeling; hydraulic analyses of rivers, stream, conveyance structures, and outlet structures using models such as HEC-RAS, HEC-HMS, and VT/PSU-HM; and hydraulic design of structures such as reconstructed stream channels, standard conveyance channels, spillways, outlets, and energy dissipation and stabilization structures.

12F. Alder Run Engineering has experience with managing and performing broadly scoped water resources engineering projects. Our projects typically include some type of mine drainage treatment component, whether active, semi-active, or passive treatment. We currently have completed or are conducting approximately 30 projects involving AMD treatment ranging from small passive treatment systems for mild discharges to dosing treatment of larger discharges that cannot be treated using conventional passive methods.

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.) Michelle M. Merrow, PE, President/Principal Engineer	YEARS OF AML DESIGN EXPERIENCE: 10 years	YEARS OF AML RELATED DESIGN EXPERIENCE: 10 years	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 years
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Brief Explanation of Responsibilities  
 Founder of company; serves as principal engineer and provides engineering design and review services; responsible for implementation of company Master Quality Management Plan.

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EDUCATION (Degree, Year, Specialization)  
 B.S. Civil Engineering with Minor in Environmental Engineering, The Pennsylvania State University, 1996  
 M. Eng., Civil Engineering Hydrosystems, The Pennsylvania State University, 2001

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Society of Civil Engineers	REGISTRATION (Type, Year, State) PE, 2002, PA PE, 2007, WV
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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.) Steven J. Treschow, PG, Geologist	YEARS OF AML DESIGN EXPERIENCE: 8 years	YEARS OF AML RELATED DESIGN EXPERIENCE: 8 years	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 years
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Brief Explanation of Responsibilities  
 Responsible for geologic investigations as related to AMD/AML, site investigations and assessments, topographic surveying, and analysis of water quality data.

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EDUCATION (Degree, Year, Specialization)  
 B.S. Geology, University of Pittsburgh, 1997

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS National Groundwater Association, American Society of Profess. Geologists, Geological Society of America	REGISTRATION (Type, Year, State) PG, 2004, PA
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13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data-out keep to essentials)

NAME & TITLE (Last, First, Middle Int.) Brian S. Merrow, Environmental Technician/Construction Inspector	YEARS OF AML DESIGN EXPERIENCE: 4 years	YEARS OF AML RELATED DESIGN EXPERIENCE: 4 years	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0 years
	YEARS OF EXPERIENCE		

Brief Explanation of Responsibilities  
Responsible for site evaluation, layout, and design for AML reclamation and treatment projects, including development of site grading plans. Conducts construction inspections and management activities based on 12 prior years experience with constructing AML projects as an equipment operator/site foreman.

EDUCATION (Degree, Year, Specialization)  
Associate's Degree, Forest Technology, The Pennsylvania State University, 2001  
B.S., Forest Management, The Pennsylvania State University, 2003

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS  
REGISTRATION (Type, Year, State)

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:
	YEARS OF EXPERIENCE		

Brief Explanation of Responsibilities

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS  
REGISTRATION (Type, Year, State)

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

1 Laser Level

5 Computer Workstations with printers

1 Large format HP 500 plotter

1 4-wheel drive vehicle

2 Hand-held GPS units

AutoDesk Land Development Desktop Software (with AutoCAD 2008)

Microsoft Office Suites

Delorme 3-D Topoquad Software

VT-PSU/HM Software

HY-8, HEC-RAS, HEC-1, HEC-HMS hydraulic/hydrologic software

Haestad Methods Hydraulic software

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
Hubler Run 1 AMD Treatment System Rehabilitation passive treatment Graham Township, Clearfield Co., PA	Emigh Run/Lakeside Watershed Association, Inc. PO Box 204 Morrisdale, PA 16858	passive treatment design, construction oversight	\$235,000	25
Contrary Run SM5 Site Reclamation Project site reclamation Snow Show Twp, Clearfield Co., PA	Beech Creek Watershed Association PO Box 2865 Mill Hall, PA 17751	site reclamation, stream channel relocation and reconstruction	\$430,000	25
Shoup Run/Green Garden Road AMD Treatment System passive treatment design Carbon Twp, Huntingdon Co., PA	Shoup's Run Watershed Association/Huntingdon County Conservation District 10605 Raystown Road, Ste A Huntingdon, PA 16652	passive treatment design, HEC-RAS analysis, stream stabilization	\$380,000	25
Rock Run AMD Treatment System passive treatment, Bloss Twp, Tioga Co., PA	Babb Creek Watershed Association 2051 Reed Street Williamsport, PA 17701	passive treatment, permitting, construction management	\$290,000	20
West Ferris Wheel AMD Discharge Reade Twp, Cambria Co., PA	Clearfield Creek Watershed Association 216 Beldin Hollow Rd Ashville, PA 16613	Passive treatment design and permitting, construction management once construction funding is awarded	\$400,000	20
Emigh Run 8 AMD Treatment System Boggs Township, Clearfield County, PA	Emigh Run/Lakeside Watershed Association, Inc. PO Box 204 Morrisdale, PA 16858	passive treatment design, permitting, construction management, and construction oversight	\$160,000	40
TOTAL NUMBER OF PROJECTS:			TOTAL ESTIMATED CONSTRUCTION COSTS: \$1,895,000	

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
Korb Site Reclamation, Pike Twp, Clearfield Co., PA	Design and permitting of site reclamation and active treatment	Anderson Creek Watershed Association PO Box 53 Curwensville, PA 16833	June 2009	\$450,000	\$450,000
MR Ross Passive Treatment System Decatur Twp, Clearfield Co., PA	Passive treatment design and permitting	Moshannon Creek Watershed Association PO Box 4 Osceola Mills, PA 16666	June 2009	\$350,000	\$350,000
Trout Run 36/38 Rush Twp, Centre Co., PA	Passive treatment design and permitting	Moshannon Creek Watershed Association PO Box 4 Osceola Mills, PA 16666	June 2009	\$350,000	\$350,000
Montgomery Run 52A Lawrence Twp, Clearfield Co., PA	Passive treatment design and permitting	Montgomery Run Watershed Association PO Box 508 Clearfield, PA 16830	June 2010	\$400,000	\$400,000
Stauffer Run AMD Treatment East Huntingdon Twp, Westmoreland Co., PA	Active and passive treatment design	Jacobs Creek Watershed Association PO Box 1071 Mount Pleasant, PA 15666	June 2009	\$450,000	\$450,000
Trout Run 40/41 Rush Twp, Centre Co., PA	Passive treatment design and permitting	Moshannon Creek Watershed Association PO Box 4 Osceola Mills, PA 16666	June 2009	\$350,000	\$350,000
Kelley Estate Highway Reclamation Project, West Keating Twp, Clinton Co.	Design of highway reclamation and construction oversight	PA Game Commission 15 South Route 44 PO Box 5038 Jersey Shore, PA 17740	\$1,250,000	\$1,300,000	\$1,300,000

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)
Reed #1 Passive Treatment System Design (passive treatment design), Pike Twp, Clearfield Co., PA	Sky Haven Coal 15196 Clearfield Shawville Highway Lawrence, PA 15055	\$250,000	2005	Yes
Bear Loop Run Stream Restoration (flow diversion, stream reconstruction design, permitting), Reade Township, Cambria Co., PA	Altoona City Authority 3172 Route 764 Duncansville, PA 16635	\$125,000	2007-2008	No-design complete-to be built in fall 2008
Ferris Wheel Site Reclamation (site reclamation, revegetation), Reade Twp, Cambria Co. and Antis Twp, Blair Co., PA	Clearfield Creek Watershed Association 216 Beldin Hollow Road Ashville, PA 16613	\$200,000	2007-2008	Yes-First \$60,000 completed

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
Morgan Run Frog AMD Treatment System Design (passive treatment, construction oversight), Decatur Twp, Clearfield Co., PA	Morgan Run Watershed Group/Clearfield County Conservation District 650 Leonard Street Clearfield, PA 16630	\$326,000	2006-2008	Yes	New Miles of Blue Stream
Morgan Run Tuff AMD Treatment System Design (passive treatment, construction oversight), Decatur Twp, Clearfield Co., PA	Morgan Run Watershed Group/Clearfield County Conservation District 650 Leonard Street Clearfield, PA 16630	\$373,110	2006-2008	Yes	New Miles of Blue Stream
Emigh Run Headwaters Relocation (passive treatment, flow diversion, stream channel relocation, construction oversight), Boggs Twp, Clearfield Co., PA	Emigh Run/Lakeside Watershed Association, Inc. PO Box 204 Morrisdale, PA 16858	\$112,000	2006-2008	Yes	New Miles of Blue Stream
Emigh Run 13 AMD Treatment System (passive treatment, conveyance system design), Morris Twp, Clearfield Co., PA	Emigh Run/Lakeside Watershed Association, Inc. PO Box 204 Morrisdale, PA 16858	\$500,000	2006	No	New Miles of Blue Stream
Loop Run 5&6 AMD Treatment System (passive treatment), West Keating Twp, Clinton Co., PA	PA Game Commission 15 South Route 44 PO Box 5038 Jersey Shore, PA 17740	\$650,000	2006	No	New Miles of Blue Stream

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. Alder Run Engineering specializes in water resources/hydrosystems engineering, including hydrologic and hydraulic modeling using methods such as HEC-HMS, which allow the company to design collection and conveyance systems for mine discharges. The company has provided construction oversight services for a variety of mine lands reclamation projects ranging from stream restoration and channel reconstruction, highwall backfill, and treatment system construction.

20. The foregoing is a statement of facts.

Signature: *Michelle M. Merrow* Title: President Date: 10-21-08

Printed Name: Michelle M. Merrow



**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE Attachment "B"**

PROJECT NAME Professional Engineering Design Services and Construction Monitoring Services for Mountain Run Refuse & Portals		DATE (DAY, MONTH, YEAR) 21/10/2008	FEIN 25-1536344
1. FIRM NAME Blazosky Associates, Inc.		3. FORMER FIRM NAME	
4. HOME OFFICE TELEPHONE 814-238-2060		2. HOME OFFICE BUSINESS ADDRESS 2525 Green Tech Drive Suite D State College PA, 16803	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES NO
5. ESTABLISHED (YEAR) 1986		6. TYPE OWNERSHIP Individual Corporation Partnership Joint-Venture	
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE John J. Blazosky, P.E./Project Manager 2525 Green Tech Drive Suite D State College PA, 16803 Phone: 814-238-2060 (5 AML Design Personnel Primary Office) (1 AML Design Personnel Roystersford Office)			
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Mike Rudy, P.E. President John J. Blazosky, P.E. Project Manager Karen Finlan, Branch Manager of State College BAI Headquarters		8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS Mike Rudy, P.E. / President 649 North Lewis Road Suite 215 Roystersford, PA 15239 Phone: 814-610-495-5585	
9. PERSONNEL BY DISCIPLINE			
6. ADMINISTRATIVE	—	—	—
ARCHITECTS	—	—	—
BIOLOGIST	—	—	—
CADD OPERATORS	—	—	—
CHEMICAL ENGINEERS	—	—	—
CIVIL ENGINEERS	—	—	—
CONSTRUCTION INSPECTORS	—	—	—
DESIGNERS	—	—	—
DRAFTSMEN	—	—	—
ECOLOGISTS	—	—	—
ECONOMISTS	—	—	—
ELECTRICAL ENGINEERS	1	—	—
ENVIRONMENTALISTS	4	—	—
ESTIMATORS	—	—	—
GEOLOGISTS	4	—	—
HISTORIANS	—	—	—
HYDROLOGISTS	—	—	—
LANDSCAPE ARCHITECTS	—	—	—
MECHANICAL ENGINEERS	—	—	—
MINING ENGINEERS	—	—	—
PHOTOGRAMMETRISTS	—	—	—
PLANNERS: URBAN/REGIONAL	—	—	—
SANITARY ENGINEERS	2	—	—
SOILS ENGINEERS	—	—	—
SPECIFICATION WRITERS	—	—	—
STRUCTURAL ENGINEERS	—	—	—
SURVEYORS	—	—	—
TRAFFIC ENGINEERS	—	—	—
OTHER	—	—	—
TOTAL PERSONNEL	34		
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 2			
*RPES other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.			
*2 Construction Managers			
10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			

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

NAME AND ADDRESS:  N/A	SPECIALTY:	WORKED WITH BEFORE 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 _____ 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 _____ No _____
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE Yes _____ No _____
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE Yes _____ No _____

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

YES Description and Number of Projects: See Attached

NO

B. Is your firm experienced in Soil Analysis?

YES Description and Number of Projects: See Attached

NO

C. Is your firm experienced in hydrology and hydraulics?

YES Description and Number of Projects: See Attached

NO

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

YES Description and Number of Projects:

NO See Attached

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:

NO

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

YES Description and Number of Projects: See Attached

NO

**CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE RESPONSES (P. 20)**

**PREPARED BY:**



**Blazosky Associates, Inc.  
2525 Green Tech Drive  
Suite D  
State College, PA 16803  
Phone: 814/238-2060  
Fax: 814/238-7123**

- 12.A. YES 25+ BAI is located in central PA where there are many abandoned coal mines. Thus many landfill projects, brownfield and land development projects utilize abandoned or pre-Act coal mine lands. Many of these projects include acid mine drainage and lack vegetation. We are fully experienced in reclamation-including contouring, earthmoving and vegetation. We have worked on AMD treatment, land application of sewage sludge and wetlands. These efforts are directed for private companies, public entities and watershed groups.
- 12.B. YES BAI has performed many soil analyses in the field. Our lead professional is a Sewage Enforcement officer and a professional geologist. For detailed analyses such as permeabilities and complete textural analyses, BAI utilizes local laboratories.
- 12.C. YES 25+ For all of the projects listed in 12a above, there is a component involving hydrology and hydraulics. Aside from the normal erosion control channel design, landfills are a special more detailed case involving hydrology. The HELP model developed by the Army Corp of Engineers predicts water quantities for various layers for a given area. BAI has utilized this model extensively.
- 12.D. NO BAI routinely utilizes subcontractors experienced in such mapping and we provide guidelines and criteria for their preparation. We then utilize the maps to calculate earthmoving volumes and design.
- 12.E. NO
- 12.F. YES 10+BAI has worked on several projects which involve the treatment of acid mine drainage. Most of the projects involve passive treatment utilizing wetlands. Other active treatment processes have also been evaluated for use at five different 5000gpm discharges.

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	
Blazosky John J., P.E./Project Manager		YEARS OF AML DESIGN EXPERIENCE: 30yrs	YEARS OF AML RELATED DESIGN EXPERIENCE: 30yrs
		YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:	

Brief Explanation of Responsibilities

Founder; responsible for company-wide oversight of current and future projects.

EDUCATION (Degree, Year, Specialization)

B.S., Civil Engineering, The Pennsylvania State University (PSU), University Park, PA, 1973.  
Graduate Courses and Research, Sanitary Engineering. PSU, University Park, PA, 1976 - 1977.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Chi Epsilon, Civil Engineering Honor Society  
Solid Waste Association of North America  
American Academy of Environmental Engineers

REGISTRATION (Type, Year, State) Professional Engineer

PA PE026893E 9/30/2009 OH E-51134 12/31/2008  
NJ GE-32669 4/30/2010 OK 23289 9/30/2009  
MD 15347 4/13/2009 WV 14607 6/30/2009

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	
Finlan, Karen E. Branch Manager of State College BAI Headquarters		YEARS OF AML DESIGN EXPERIENCE: 19yrs	YEARS OF AML RELATED DESIGN EXPERIENCE: 19yrs
		YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:	

Brief Explanation of Responsibilities

Responsible for overall management of the State College engineering and geosciences staff;  
project manager for mine-related design and permitting projects.

EDUCATION (Degree, Year, Specialization)

B.S., Architecture, The Pennsylvania State University (PSU), University Park, PA, 1988.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

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	
Teeters, Evan T., Geologic Specialist		YEARS OF AML DESIGN EXPERIENCE: 3yrs	YEARS OF AML RELATED DESIGN EXPERIENCE: 3yrs
YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:			
Brief Explanation of Responsibilities			
Responsible for earth science field and office work on a wide variety of environmental-related projects including subsurface and geotechnical investigations, drilling and test pits, site assessments, environmental compliance, and permitting.			
EDUCATION (Degree, Year, Specialization)			
B.S., Geology, Juniata College, Huntingdon, PA, 2005.			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS			
REGISTRATION (Type, Year, State)			

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	
Hile, Michael L., Environmental Consultant		YEARS OF AML DESIGN EXPERIENCE: 6yrs	YEARS OF AML RELATED DESIGN EXPERIENCE: 6yrs
YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:			
Brief Explanation of Responsibilities			
Responsible for earth science field and office work on a wide variety of environmental-related projects including subsurface and geotechnical investigations, drilling and test pits, site assessments, environmental compliance, and permitting.			
EDUCATION (Degree, Year, Specialization)			
B.S., Geosciences/Hydrogeology, The Pennsylvania State University, University Park, PA, 1997.			
M.S., Geo-Environmental Engineering, The Pennsylvania State University, University Park, Pa, 2006.			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS			
REGISTRATION (Type, Year, State)			

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:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Layton, Edward J., P.G., Senior Geologist and Delaware Valley Branch Manager	13yrs	13yrs	
Brief Explanation of Responsibilities			
Responsible for company-wide oversight of geoscience projects and personnel.			
EDUCATION (Degree, Year, Specialization)			
B.A., Geology, La Salle University, Philadelphia, PA, 1993.			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS			
National Ground Water Association. American Institute of Professional Geologists. Geological Society of America. Philadelphia Geological Society.			
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:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Mader, William F., P.G., Senior Soil Scientist	20yrs	20yrs	
Brief Explanation of Responsibilities			
Responsible for conducting and managing geosciences-related projects including soils, geology, geotechnical, hydrogeologic, and mining projects; project manager for mine-related design and permitting projects.			
EDUCATION (Degree, Year, Specialization)			
B.S., Geosciences, The Pennsylvania State University, University Park, PA, 1982.			
Soil Science (12 credits), The Pennsylvania State University, University Park, PA, 1992 - 93.			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS			
Pennsylvania Association of Professional Soil Scientists National Ground Water Association, Association of Ground-Water Scientists and Engineers Division Pennsylvania On-Site Wastewater Recycling Association - Member. Registered Professional Geologist in the State of Pennsylvania (PG-000709G).1994 Licensed PA Sewage Enforcement Officer (Cert. No. 03683)			

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

SEE ATTACHED:



## **CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE RESPONSES (P. 23)**

### **BLAZOSKY ASSOCIATES, INC. (BAI) SOFTWARE AND EQUIPMENT**

BAI carefully selects equipment that will make us more efficient to our clients. We generally avoid the latest technological fad, viewing new technology as an investment. However, we are continually upgrading and expanding our information systems to keep up with the many changes in analyzing, describing, and transmitting information to each other and to our clients.

**Information Technology:** BAI maintains a modern equipment base to assist in providing high quality products efficiently. Our technical personnel utilize an extensive array of computer systems to perform complex design calculations and computer modeling. BAI also has desktop publishing with graphics capability, color laser and oversized document printers, and comprehensive software packages to provide rapid turnaround when producing or revising reports and documents. BAI continually upgrades computer systems to enhance document quality and office efficiency. Of course, each of our offices maintains copier and fax machines.

**Field-Based Information Technology and Communication:** BAI firmly believes that information technology needs to be accessible beyond our office settings. For this reason, we have laptop computers with wireless modem capability available for our professionals' field and remote use. High-resolution digital cameras and silver halide-based photographic supplies provide our field professionals a wide range of imaging capabilities. All of our professional services and field staff have cellular telephones to ensure accessibility from the field to clients and project team members. For communications on large sites on which there is not cellular reception, we often utilize VHF radio communication.

**CAD and GIS Technology:** BAI graphic design professionals provide designs and plans for presentation of project deliverables. We are equipped and staffed to assure immediate reproduction of project plans and presentations. BAI's computer-aided design (CAD) capability further increases efficiency and accuracy of graphic representation. We efficiently generate high-resolution topographic plans, cross sections and cut-and-fill volume calculations. The CAD computer systems utilize modern technology such as AutoCAD Land Desktop 2008 and AutoCAD Civil 3D 2008 software to provide accurate graphic representations with maximum efficiency and cost effectiveness. We utilize a 36" high-resolution, full color plotter for printing engineering diagrams, plans, and over-sized documents.

We also utilize GIS to build and produce maps and diagrams incorporating multiple layers of information. Utilizing surveyed data as well as data located with our handheld GPS equipment, BAI has the capability of customizing and revising client-provided and publicly-available data layers to efficiently produce task-specific maps. In addition to producing standard to oversized printouts of GIS-based diagrams, we have developed GIS-based presentations on behalf of our clients.

**Geotechnical/Construction Management Field Equipment:** BAI possesses an extensive supply of field equipment for Construction Management and QA/QC programs. We are licensed and own several Troxler, Model 3440, Surface Moisture-Density Gauges for measuring *in situ* moisture content, density, and compaction of soils ranging from clays to soil/stone matrices. The Model 3440 is one of the most accurate instruments of its type available to construction engineers and QA/QC personnel, providing over 30 special functions to insure fast, reliable test results at the testing site.

BAI can also provide the necessary field-lab equipment for our staff to conduct the following tests:

**CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE RESPONSES (P. 23)**

Standard Proctor	ASTM D-698
Sand Cone	ASTM D-1556
Thin-Walled Tube Sampling	ASTM D-1587
Standard Oven Dry	ASTM D-2216
Nuclear Density Testing	ASTM D 2922
Nuclear Moisture Testing	ASTM D-3017
Drive Cylinder	ASTM D 2937
Atterberg Limits	ASTM D-4318
Microwave Oven Dry	ASTM D-4944
Moisture Content By Direct Heat	ASTM D-4959
Two-Stage Borehole Test	ASTM D-6391

**Water Quality and Waste Sampling Equipment:** For water quality and waste sampling and monitoring, BAI owns an extensive inventory of pumps, generators, balers, water level probes, hoists, and specialized sample collection equipment. As a full service consultant in environmental services, we possess all equipment normally used to collect surface and ground water samples, solid and sludge samples, macroinvertebrate samples, and asbestos. With instrumentation changing rapidly for more complex projects such as multi-media remediation, BAI typically leases the latest proven technology. This approach has proven more cost effective than owning and maintaining outdated technology.

**Air Sampling Equipment:** With respect to air quality, BAI owns sampling and testing equipment. Beyond the normal air quality and gas sampling equipment, specialized testing equipment is available to measure a variety of parameters. An explosive gas meter is used for this purpose and as a landfill gas-monitoring probe. A photo ionization detector is used on tank removals, site assessments, and remediation projects. Most recently, a Gas Data LMS was acquired to meet the Clean Air Act monitoring requirements for our landfill clients. This data logger and analyzer accurately and rapidly measures methane, carbon dioxide, oxygen, temperature and atmospheric pressure in the field, which greatly assists our engineers in diagnosing landfill gas systems.

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
See Attached				

TOTAL NUMBER OF PROJECTS:

TOTAL ESTIMATED CONSTRUCTION COSTS: \$

CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE RESPONSES (P. 24)

Project Name, Type and Location	Name and Address of Owner	Nature of Firms Responsibility	Estimated Construction Cost	Percent Completed
Watershed Management Plan Washington County, PA	Peters Creek Watershed Association P.O. Box 18007 Pittsburgh, PA 15236-0007 Mr. Tim Schumann, President	Watershed assessment, sampling, GIS, public mtgs., draft/final reports	\$63,500.00	35%
Crabtree Feasibility Study Westmoreland County, PA	Loyalhanna Watershed Association 110 Andi Lane Ligonier, PA 15658 Drew Banas, Executive Director	Feasibility study for AMD/sewage treatment and biogas.	\$98, 817.00	60%
Stauffer Run AMD Engineering & Design Westmoreland County, PA	Jacobs Creek Watershed Association P.O. Box 1071 Mount Pleasant, PA 15666 Mr. Mike Barrick, President	Field engineering, soils/wetlands investigation, design and permitting for a passive treatment system	\$41,111.00	25%
Shamokin Creek AMD Treatment Feasibility Study Northumberland County, PA	Northumberland County Conservation District 441 Plum Creek Road Sunbury, PA 17801 Jacquelyn Harner, Watershed Specialist	Study feasibility of treating AMD in the Shamokin Creek Watershed for industrial development.	\$103,917.00	10%
Cross Creek Streambank Restoration Washington County, PA	Washington County Watershed Alliance 100 West Beau Street Suite 105 Washington, PA 15301 Gary Stokum, President	Design, permitting, and CQA	\$9,980.00	80%



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)
See Attached					

CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE RESPONSES (P. 26)

Project Name, Type and Location	Name and Address of Owner	Estimated Construction Cost	Year	Constructed (yes or no)
Watershed Assessment, Restoration & Protection Plan Allegheny County, PA	Plum Creek Watershed Association P.o. Box 323 Oakmont, PA 15139 Chuck McMeekin, Board President	\$33,500.00	2006	Y
Watershed Assessment, Restoration & Protection Plan Mercer County, PA	Hatch Mott MacDonald Group, Inc. 1600 West Carson Street Gateway View Plaza Pittsburgh, PA 15219 Mr. Bob Kudlawiec, Senior Project Manager	\$15,700.00	2005	Y
Big Sewickley Creek Watershed Assessment Allegheny County, PA	Allegheny County Conservation District Lexington Technology Park, Building 1, Suite 102 400 N. Lexington Avenue Pittsburgh, PA 15208 Mr. Rich Kowalski Title: Watershed Specialist	\$57,367.00	2007	Y

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) 27

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
N/A					

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.

20. The foregoing is a statement of facts.

Signature: *Karen E. Finlan* Title: Branch Manager of State College Headquarters Date: October 13, 2008  
 Printed Name: Karen E. Finlan



**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE Attachment "B"**

<p><b>PROJECT NAME</b> Interest for Professional Expression of Engineering Design Services and Construction Monitoring at the Mt. Storm 25A in Grant County</p>	<p><b>DATE (DAY, MONTH, YEAR)</b> 21/10/2008</p>	<p><b>FEIN</b> 25-1749749</p>																																																						
<p><b>1. FIRM NAME</b> Wetlands Habitat Management, Inc.</p>	<p><b>2. HOME OFFICE BUSINESS ADDRESS</b> 2525 Green Tech Drive Suite B State College PA, 16803</p>	<p><b>3. FORMER FIRM NAME</b></p>																																																						
<p><b>4. HOME OFFICE TELEPHONE</b> 814-689-1650</p>	<p><b>5. ESTABLISHED (YEAR)</b> 1996</p>	<p><b>6. TYPE OWNERSHIP</b> Individual Partnership <b>6a. WV REGISTERED BUSINESS (Disadvantaged Business Enterprise)</b> YES NO</p>																																																						
<p><b>7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE</b> John J. Blazosky, P.E./Principal 2525 Green Tech Drive Suite B State College PA, 16803 Phone: 814-689-1650 (4 AML Design Personnel Primary Office)</p>																																																								
<p><b>8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM</b> B. Michael Schaul, President/Principal John J. Blazosky, P.E. Vice President/Principal</p>																																																								
<p><b>9. PERSONNEL BY DISCIPLINE</b></p> <table style="width:100%; border: none;"> <tr> <td style="width:30%;">2 ADMINISTRATIVE</td> <td style="width:30%;">—</td> <td style="width:30%;">LANDSCAPE ARCHITECTS</td> <td style="width:10%;">—</td> <td style="width:10%;">STRUCTURAL ENGINEERS</td> <td style="width:10%;">—</td> </tr> <tr> <td>ARCHITECTS</td> <td>—</td> <td>MECHANICAL ENGINEERS</td> <td>—</td> <td><b>SURVEYORS</b></td> <td>—</td> </tr> <tr> <td><b>BIOLOGIST</b></td> <td>1</td> <td><b>MINING ENGINEERS</b></td> <td>—</td> <td>TRAFFIC ENGINEERS</td> <td>—</td> </tr> <tr> <td><b>CADD OPERATORS</b></td> <td>—</td> <td>PHOTOGRAMMETRISTS</td> <td>2</td> <td>OTHER</td> <td>—</td> </tr> <tr> <td>CHEMICAL ENGINEERS</td> <td>—</td> <td>PLANNERS: URBAN/REGIONAL</td> <td>—</td> <td></td> <td></td> </tr> <tr> <td><b>CIVIL ENGINEERS</b></td> <td>1</td> <td>SANITARY ENGINEERS</td> <td>—</td> <td></td> <td></td> </tr> <tr> <td>CONSTRUCTION INSPECTORS</td> <td>—</td> <td>SOILS ENGINEERS</td> <td>—</td> <td></td> <td></td> </tr> <tr> <td>DESIGNERS</td> <td>—</td> <td>SPECIFICATION WRITERS</td> <td>—</td> <td></td> <td></td> </tr> <tr> <td>DRAFTSMEN</td> <td>—</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			2 ADMINISTRATIVE	—	LANDSCAPE ARCHITECTS	—	STRUCTURAL ENGINEERS	—	ARCHITECTS	—	MECHANICAL ENGINEERS	—	<b>SURVEYORS</b>	—	<b>BIOLOGIST</b>	1	<b>MINING ENGINEERS</b>	—	TRAFFIC ENGINEERS	—	<b>CADD OPERATORS</b>	—	PHOTOGRAMMETRISTS	2	OTHER	—	CHEMICAL ENGINEERS	—	PLANNERS: URBAN/REGIONAL	—			<b>CIVIL ENGINEERS</b>	1	SANITARY ENGINEERS	—			CONSTRUCTION INSPECTORS	—	SOILS ENGINEERS	—			DESIGNERS	—	SPECIFICATION WRITERS	—			DRAFTSMEN	—				
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DESIGNERS	—	SPECIFICATION WRITERS	—																																																					
DRAFTSMEN	—																																																							
<p><b>8a. NAME, TITLE, &amp; TELEPHONE NUMBER</b> B. Michael Schaul, President/Principal 213 Market Street, 8th Floor Harrisburg, PA 17101 Phone: 717-232-9145 John J. Blazosky, P.E. Vice President/Principal 2525 Green Tech Drive Suite B State College PA 16803 Phone: 814-689-1650</p>																																																								
<p><b>TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE:</b> 1 *RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.</p>																																																								
<p>1 Special Projects Director 1 Owner/Government Relations</p>																																																								
<p><b>10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE?</b> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>																																																								

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

NAME AND ADDRESS:  N/A	SPECIALTY:	WORKED WITH BEFORE 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 _____ No _____
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NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE Yes _____ No _____
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE Yes _____ No _____

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

YES Description and Number of Projects:

NO We subcontract BAI or ARE for this work.

B. Is your firm experienced in Soil Analysis?

YES Description and Number of Projects:

NO We utilize others for this.

C. Is your firm experienced in hydrology and hydraulics?

YES. Description and Number of Projects: SEE ATTACHED

NO

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

YES Description and Number of Projects:

NO We utilize others for this.

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:

NO We utilize other subcontractors for this work.

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

YES Description and Number of Projects: SEE ATTACHED

NO

**CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE**  
**RESPONSES (p. 20)**

**PREPARED BY:**



**Wetlands Habitat Management, Inc. (WHM)**  
**2525 Green Tech Drive Suite B**  
**State College, Pa 16803**  
**Phone: 814-689-1650**  
**Fax: 814-689-1557**

**12. C. YES (25+);** The wetland and stream projects for which we seek solutions require an analysis of the hydrology and hydraulics. For example for our wetland creation projects, the hydrology needs to be readily determined to assure the success of the newly established vegetation.

Similarly the projects involving stream channel modifications and dam removal require hydraulic analysis to determine floodplain considerations.

All projects listed under section 12 meet this qualification.

**12. F. YES (25+);** WHM's Directors and Professional staff have a vast amount of collective experience relating to Acid Mine Drainage Evaluation and Abatement Design. With complementing backgrounds and technical disciplines, the staff as a team provides expertise for a total project solution.

The following list of projects summerize our experience in performing detailed studies and investigations to evaluate multiple alternative strategies for addressing the impacts of mine discharge.

*The Emigh Run Project located in Central Pennsylvania in Boggs Township, Clearfield County*  
*ER-8*

*Phase I –the design and permitting for the ER-8 abatement project including additional water sampling, design work, and completion of required permitting.*

*ER-13*

*Phase I – completion of the detailed design and permitting of a treatment plan that will address the discharge, along with installing a drainage system to collect the multiple seeps in the area.*

*ER- Headwater Relocation Project*  
*Prepared Construction Documents*

*Abandoned Mine Drainage Project on Morgan Run Central Pennsylvania in Boggs and Decatur Township, Clearfield County*

*Tuff*

*Prepared Construction Documents*

*Frog*

*Prepared Construction Documents*

*MR-7*

*Phase I - detailed design plan for a treatment system to abate the MR-7 discharge and necessary permitting to begin Phase II of the project.*

**CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE  
RESPONSES (p. 20)**

MR-8

*Phase I – completion of the detailed design and permitting*

Ross

*Phase I – completion of the detailed design and permitting*

*Stream Quality Assessment Emphasizing Abandoned Mine Drainage in the Headwaters of  
Moshannon Creek*

*Sampling, analysis, and evaluation.*

*Rogues Harbor Run, Clearfield PA*

*Watershed Assessment – Identified AMD and other Pollution Sources, Macroinvertebrate  
sampling , identification and evaluation.*

*Loop Run West Keating Township, Clinton County, Pennsylvania*

*LR - 10*

*Phase I - design and permitting for the LR-10 abatement project including surveying, design  
work, and completion of required permitting.*

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

NAME AND ADDRESS:  N/A	SPECIALTY:	WORKED WITH BEFORE Yes _____ No _____
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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	
John J. Blazosky, P.E./Principal		YEARS OF AML DESIGN EXPERIENCE: 30yrs	YEARS OF AML RELATED DESIGN EXPERIENCE: 30yrs
<p><b>Brief Explanation of Responsibilities</b></p> <p>As an engineer, he has worked for the regulatory community in a permitting capacity, and as a consultant performing major project assignments for corporations of all sizes, municipalities and government entities, attorneys, and other organizations. Since 1986 as founder of Blazosky Associates, Inc., Mr. Blazosky has established a successful and highly reputable consulting firm serving the waste management and environmental consulting needs of a growing list of clients. He has expanded this consulting practice to three offices to provide environmental consulting services throughout Pennsylvania and the surrounding states. In addition, he is founder and an owner of Wetlands Habitat Management, Inc., a company dedicated to seeking responsible solutions to wetland issues. In this capacity he has been a developer of wetlands, creating credits for wetland mitigation. His current interests relate to the use of wetlands to treat stormwater, mine drainage and the restoration of streams.</p> <p><b>EDUCATION (Degree, Year, Specialization)</b></p> <p>B.S., Civil Engineering, The Pennsylvania State University (PSU), University Park, PA, 1973. Graduate Courses and Research, Sanitary Engineering. PSU, University Park, PA, 1976 - 1977.</p> <p><b>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</b></p> <p>Chi Epsilon, Civil Engineering Honor Society Solid Waste Association of North America American Academy of Environmental Engineers</p>		<p>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: _____</p> <p>REGISTRATION (Type, Year, State) Professional Engineer PA PE026893E 9/30/2009 OH E-51134 12/31/2008 NJ GE-32569 4/30/2010 OK 23289 9/30/2009 MD 15347 4/13/2009 WV 14607 6/30/2009</p>	
<p>13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)</p> <p>D. Josh Lincoln, COO</p> <p><b>Brief Explanation of Responsibilities</b></p> <p>D. Josh Lincoln received a degree in Environmental Resource Management from The Pennsylvania State University and currently specializes in stream and wetland sciences. Mr. Lincoln has seven years of experience in natural channel design and has completed projects in Pennsylvania, North Carolina, New York, Maryland, and West Virginia. Mr. Lincoln has been involved in a wide range of services beginning with watershed assessments, stream monitoring, stream design, wetland delineation, permitting, and construction management. His diverse background in this field allows him to provide turnkey services for water resources projects.</p> <p><b>EDUCATION (Degree, Year, Specialization)</b></p> <p>B.S. Environmental Resource Management, The Pennsylvania State University, University Park, PA, 1998</p> <p><b>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</b></p> <p>Society of Wetland Scientists (SWS) Keystone Stream Team</p>		<p>YEARS OF AML DESIGN EXPERIENCE: 10yrs</p> <p>YEARS OF AML RELATED DESIGN EXPERIENCE: 10yrs</p> <p>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: _____</p> <p>REGISTRATION (Type, Year, State)</p>	

<p><b>13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)</b></p>			
<p>NAME &amp; TITLE (Last, First, Middle Int.)</p> <p>Kevin Clark Wetland Specialist</p>	<p>YEARS OF AML DESIGN EXPERIENCE:</p> <p>3yrs</p>	<p>YEARS OF AML RELATED DESIGN EXPERIENCE:</p> <p>3yrs</p>	<p>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:</p>
<p>Brief Explanation of Responsibilities</p> <p>Mr. Clark graduated from The Pennsylvania State University in 2006 with a degree in Environmental Studies where he earned a 3.6 GPA. He has been associated with numerous projects at many different levels since he began his work experience at the Clearfield County Conservation District. He specializes in grant writing, environmental permitting, wetland delineations, water quality monitoring, macroinvertebrate sampling, GIS mapping, GPS surveying, watershed assessments and restoration, and treatment of Acid Mine Drainage (AMD).</p>			
<p>EDUCATION (Degree, Year, Specialization)</p> <p>The Pennsylvania State University, Bachelor of Arts with Honors</p> <p>Major: Environmental Studies</p>			
<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</p> <p>Society of Wetland Scientists (SWS)</p>			
<p><b>13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)</b></p>			
<p>NAME &amp; TITLE (Last, First, Middle Int.)</p> <p>Ryan Nelson Environmental Specialist</p>	<p>YEARS OF AML DESIGN EXPERIENCE:</p> <p>3yrs</p>	<p>YEARS OF AML RELATED DESIGN EXPERIENCE:</p> <p>3yrs</p>	<p>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:</p>
<p>Brief Explanation of Responsibilities</p> <p>Mr. Nelson is a 2008 graduate from The Pennsylvania State University, where gained a Bachelors degree in Environmental Resource Management with a minors in Watershed and Water Resources and Environmental Soil Science. He has two previous employers where he worked on various watershed projects dealing with acid mine drainage. He gained skills through his previous experiences and Wetlands Habitat Management in various environmental projects dealing with water quality and land use.</p>			
<p>EDUCATION (Degree, Year, Specialization)</p> <p>Environmental Resource Management, Bachelors of Science with Minors in Watersheds and Water Resources and Environmental Soil Science. The Pennsylvania State University, University Park, Pennsylvania, 2008</p>			
<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</p> <p>Society of Wetland Scientists (SWS)</p>			



<p>13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)</p>			
<p>NAME &amp; TITLE (Last, First, Middle Int.) Stan J. Boder Senior Environmental Specialist</p>	<p>YEARS OF AML DESIGN EXPERIENCE: 12yrs</p>	<p>YEARS OF AML RELATED DESIGN EXPERIENCE: 12yrs</p>	<p>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:</p>
<p>Brief Explanation of Responsibilities Stan Boder currently specializes in threatened and endangered species surveys and studies and in various aspects of wetlands sciences. Mr. Boder received a Master of Science Degree in Biology from East Stroudsburg University and a Bachelor of Science degree in Natural Resource Management with a concentration in Wildlife Science from Rutgers University. Mr. Boder is a United States Fish &amp; Wildlife Service Qualified Bog Turtle Surveyor (PA, MD, DE, NY) and a Pennsylvania Fish &amp; Boat Commission Qualified Timber Rattlesnake Biologist. Mr. Boder is also experienced in wetland delineation and presence/absence determination, wetland mitigation monitoring, biological and environmental assessment, and macroinvertebrate sampling. Mr. Boder has 12 years of environmental work experience which includes experience as a natural resource manager, a wildlife biologist/researcher, an environmental educator and an environmental professional.</p>			
<p>EDUCATION (Degree, Year, Specialization) B.S. Natural Resource Management with a concentration in Wildlife Science, Rutgers, the State University of New Jersey, Cook College, New Brunswick, NJ, 1997 M.S. Biology, East Stroudsburg University of Pennsylvania, East Stroudsburg, PA, 2005</p>			
<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS United States Fish &amp; Wildlife Service Qualified Bog Turtle Surveyor (PA, MD, DE, NY) and Pennsylvania Fish &amp; Boat Commission Qualified Timber Rattlesnake Biologist</p>			
<p>13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)</p>			
<p>NAME &amp; TITLE (Last, First, Middle Int.)</p>	<p>YEARS OF AML DESIGN EXPERIENCE:</p>	<p>YEARS OF AML RELATED DESIGN EXPERIENCE:</p>	<p>YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:</p>
<p>Brief Explanation of Responsibilities</p>			
<p>EDUCATION (Degree, Year, Specialization)</p>			
<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</p>			

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

SEE ATTACHED

**CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE RESPONSES (p. 23)**

**WETLANDS HABITAT MANAGEMENT, INC. (WHM) SOFTWARE AND EQUIPMENT**

**GEOGRAPHIC INFORMATION SYSTEMS (GIS) TECHNICAL SUPPORT AND MAPPING:**

The GIS team at **WHM** has assisted numerous clients with GIS mapping and land analysis utilizing the most up-to-date data and technology. Our staff can make information readily available to our clients by helping visualize spatial relationships, producing statistical data and determining environmental concerns based on GIS research. **WHM** has utilized this technology to assist clients with property acquisition, environmental management, project planning and development, and feasibility studies for a wide variety of projects, including stream channel and wetland design, wind resource analysis, project feasibility studies, land cover studies, and topographic mapping.

Our staff utilizes data that is both publicly available through spatial database's and privately acquired by our Survey team using GPS technologies. By integrating these services, as well as CAD, our firm has also had great success determining the suitability of a site for a specific development project. The end products we generate fulfill our client's needs in planning, managing and decision making for all types of projects. This translates into a high probability of success using less construction effort and saving substantial funds with our efficient and effective use of these technologies.

**SOFTWARE:**

*AutoCAD Landdesktop 2008*  
*Microstation V8*  
*Trimble TerraSync Software*  
*Trimble GPS Pathfinder Office Software*  
*ESRI ArcGIS 9.2*

**EQUIPMENT:**

*Spectra Precision Laser LL400 Laserometer*  
*Trimble GPS unit Geo XH 2005 Series*  
*Large format (size E) plotters*  
*Large format plotter / scanners*

**Stream Assessment Equipment:**

WHM has specialized equipment used for characterizing stream ecology and morphology. As full service stream consultants, we possess all equipment normally used to collect sediment transport, flow, suspended sediment and macroinvertebrate data.

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
N/A				

TOTAL NUMBER OF PROJECTS:

TOTAL ESTIMATED CONSTRUCTION COSTS: \$



CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE RESPONSES (P. 25)

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
Haymaker Run - Trouthaven Stream Restoration West Fork of Haymaker Run, Trouthaven Drive, Municipality of Murrysville, Westmoreland County	Watershed management, stormwater management, flood protection, design and construction oversight.	Ms. Diane Selvaggio Executive Director Turtle Creek Watershed Association 325 Commerce Street Suite 204 Wilmerding, PA 15148	Aug-09	140,000.00	28,000.00
Chartiers Run - Wolfpack Park Stream Restoration Wolfpack Park City of Lower Burrell, Westmoreland County, Pennsylvania	1761' of channel reconstruction, 9 Cross Rock Vanes, 3 J-Hook Vanes, riparian zone plantings, and channel realignment.	Pucketa and Chartiers Watershed Association P.O. Box 2801 Lower Burrell, PA 15068	Jun-09	180,000.00	38,000.00
Mudlick Run Stream Restoration Project; North Mahoning Township, Indiana County, Pennsylvania	Field Survey, Design Drawings, Waterways and Encroachment Joint Permit Applications, Construction Monitoring	Mr. Nick Pinizzotto Senior Director Western Pennsylvania Conservancy Freshwater Conservation Program 246 South Walnut Street Blairsville, PA 15717	May-09	30,000.00	7,000.00
CES Wetland Creation Project Heggies, Pennsylvania	Construction Oversight and Wetland Monitoring	David Leung Site Manager Commonwealth Environmental Systems (CES) 99 Commonwealth Road Heggies, PA 17938	Nov-09	110,000.00	30,000.00
Mill Run Stream Stabilization Project-Logan Township Blair County, PA	Design and Stream Stabilization Plan, Permitting, Construction Oversight	Teddie Kreitz, CPESC Keller Engineers, Inc. P.O. Box 61 Holidaysburg, PA 16648	Jun-09	230,000.00	29,000.00
Wetland and Stream Mitigation Services for Veolia ES Lancaster Landfill Expansion	Design Data Collection, Soil and Landscape Investigations, Conceptual Design and Agency Coordination.	Mr. Michael Carlini General Manager Veolia ES Lancaster Landfill, LLC. 2487 Cloverleaf Road Elizabethtown, PA 17022	Jul-10	560,000.00	120,000.00

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)
N/A				

27  
 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
SEE ATTACHED					

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.  
 SEE ATTACHED

20. The foregoing is a statement of facts.  
 Signature: [Signature] Title: Chief Operating Officer Date: October 6, 2008  
 Printed Name: D. Josh Lincoln



CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE RESPONSES (P. 27)

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
Ruff Creek Stream Restoration Project Holbrook, PA	R. Lee Irwin, Principal Aquatic Resource Restoration Company 2433 Seven Valleys, Suite 202 Seven Valleys, PA 17360	\$160,000.00	2006	no	Aquatic Resource Restoration
Oil Creek Stream Restoration Project Fuhrman Farm Hanover, Pennsylvania	R. Lee Irwin, Principal Aquatic Resource Restoration Company 2433 Seven Valleys, Suite 202 Seven Valleys, PA 17360	\$300,000.00	2006	yes	Aquatic Resource Restoration
Stream Restoration at Meadowcroft Rock Shelter; Independence and Jefferson Townships, Washington County, Pennsylvania	Craig Barris, Senior Environmental Consultant & Manager of the Pittsburgh Office Blazosky Associates, Inc. 787 Pine Valley Drive Suite C Pittsburgh Pa. 15239	\$25,000.00	2007	yes	Blazosky Associates, Inc.
Laurel Valley Golf Club Stream Restoration Project; Ligonier, PA	Mark Hollick, Superintendent Laurel Valley Golf Club 175 Plamer Drive Ligonier, PA 15658	\$25,000.00	2008	yes	Laurel Valley Golf Club
Contrary Run Project Contrary Run Centre County, PA	Michelle Merrow, Principal Alder Run Engineering 107 Coal Street Osceolla Mills PA 16666	\$430,000.00	2007	no	Alder Run Engineering

**CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE**  
**RESPONSES (p. 27)**

19. Today many natural stream channels are impaired due to continual development, sprawl, and agricultural practices. It is important to restore impaired waterways not only for water quality, recreation, and aesthetics, but also because streams provide habitat for complex ecosystems and are vital to the overall health of any watershed. Stream restoration includes returning a stream, its floodplain, and riparian area to its natural and stable condition as well as re-establishing its biological habitat and function.

Natural Channel Design (NCD) is a method of restoring or creating a stable stream channel by using a natural system as a model for the design. WHM has successfully designed stream restoration projects using NCD methods in Pennsylvania, New York, Maryland, North Carolina and West Virginia. We offer full service solutions beginning with background data collection, design, permitting and construction.

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE		Attachment "B"	
PROJECT NAME <i>MT STORM 25A</i>	DATE (DAY, MONTH, YEAR)	FEIN 20-8446985	
1. FIRM NAME <b>Land &amp; Mapping Services, LLC.</b>	2. HOME OFFICE BUSINESS ADDRESS 300 North Second Street Clearfield, PA 16830	3. FORMER FIRM NAME <b>Land &amp; Mapping Services</b>	
4. HOME OFFICE TELEPHONE V (814) 765-9370 F (814) 765-9372	5. ESTABLISHED (YEAR) 1997 (L&MS)	6. TYPE OWNERSHIP Partnership	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) NO
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE <b>300 North Second Street, Clearfield, PA 16830 / 814-765-9370 / Jeffrey P. Gilmore / Total Personnel Sixteen (16)</b>			
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM <b>James E. Pahel, P.L.S., C.P., P.S.M. / Partner</b> <b>Jeffrey P. Gilmore / Partner (814) 765-9370</b>			
9. PERSONNEL BY DISCIPLINE			
<u>2</u> ADMINISTRATIVE --- ARCHITECTS --- BIOLOGIST <u>2</u> CADD OPERATORS --- CHEMICAL ENGINEERS --- CIVIL ENGINEERS --- CONSTRUCTION INSPECTORS --- DESIGNERS --- DRAFTSMEN	--- ECOLOGISTS --- ECONOMISTS --- ELECTRICAL ENGINEERS --- ENVIRONMENTALISTS --- ESTIMATORS --- GEOLOGISTS --- HISTORIANS --- HYDROLOGISTS	--- LANDSCAPE ARCHITECTS --- MECHANICAL ENGINEERS --- MINING ENGINEERS <u>3</u> PHOTOGRAMMETRISTS --- PLANNERS: URBAN/REGIONAL --- SANITARY ENGINEERS --- SOILS ENGINEERS --- SPECIFICATION WRITERS	--- STRUCTURAL ENGINEERS <u>4</u> SURVEYORS --- TRAFFIC ENGINEERS --- OTHER <u>16</u> TOTAL PERSONNEL
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE; <u>None</u> *RIS other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.			
Number of West Virginia Registered Professional Land Surveyors: One (1) James E. Pahel, P.L.S, C.P., P.S.M. (WV #724)			
Has this "TEAM" has work together in the past: YES, many times.			
10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? YES NO N/A This is not a Joint Venture			

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

NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
<b>Richard Crouse &amp; Associates Frederick, MD</b>	<b>Aerial Photography, Airborne GPS &amp; Remote Sensing</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Canaan Valley Institute Davis, WV 26260</b>	<b>LIDAR</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

<p>12. A. Is your firm experienced in Abandoned Mine lands Remediation/Mine Reclamation Engineering?</p> <p>NO, we are not engineers, but we do have a great deal of surveying and mapping experience working directly in the specialty of correcting the problems related to AMD.</p>
<p>B. Is your firm experienced in Soil Analysis?</p> <p>NO, but we have located thousands of test sites, well locations, soil probe holes, and sample locations on past projects.</p>
<p>C. Is your firm experienced in hydrology and hydraulics?</p> <p>YES Description and Number of Projects: We have completed hydrographic surveys, engineering surveys (cross sections, profiles, quantity surveys, etc.) and temperature profiles on well over 100 projects.</p>
<p>D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?</p> <p>YES Description and Number of Projects: L&amp;MS has completed work on well over 300 projects of this nature. Work included Aerial Photography, Photographic Lab Services, GPS Control &amp; Site Monumentation, Analytic Bridging, Digital Topographic Mapping, Digital Ortho's, Engineering Surveys (Cross Sections, Profiles, test locations, wetland boundary's, etc.), Stake-out, Laser Scanning &amp; Modeling, Hydrographic Surveys, Cadd Services and Volumetric Quantities.</p>
<p>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.)</p> <p>YES Description and Number of Projects: Our firm has completed aerial photography, control surveys and digital photogrammetric mapping on well over three hundred projects of this nature.</p>
<p>F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?</p> <p>YES Description and Number of Projects: Our firm has completed aerial photography, control surveys and digital photogrammetric mapping on well over two hundred projects of this nature.</p>

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 Init.)		YEARS OF EXPERIENCE	
James E. Pahel, P.L.S., C.P., P.S.M. Professional In Charge		YEARS OF AML SURVEYING & MAPPING EXPERIENCE: 30+	YEARS OF AML RELATED DESIGN EXPERIENCE: 0
YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0			
Brief Explanation of Responsibilities			
Jim will serve this contract as the Chief Surveyor, Photogrammetrist & Hydrographic Surveyor. He has over 30 years of surveying, mapping and general civil design experience and is a registered Professional Land Surveyor in twelve states which includes WV. He is also a Certified Photogrammetrist and Certified GPS Operator. Jim has worked on over 300 projects of this nature.			
EDUCATION (Degree, Year, Specialization)			
2 Year Technical Degree / 1972 / Drafting & Design 2,800+ Hours C.E. Credits / Surveying, Photogrammetry & Teaching			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS			
WV Association of Land Surveyors, PA Society of Land Surveyors Plus approximately eight other organizations.			
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 Init.)		YEARS OF EXPERIENCE	
Jeffrey P. Gilmore Project Manager / Liaison Chief of QA / QC		YEARS OF AML SURVEYING & MAPPING EXPERIENCE: 30+	YEARS OF AML RELATED DESIGN EXPERIENCE: 0
YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0			
Brief Explanation of Responsibilities			
Jeff will serve as the main contact person (project liaison) along with being responsible for the day to day management of all work orders completed under this contract. His experience in contract management includes projects from \$1,000 to \$2 million dollars and includes many "AMD" projects for local state and federal organizations. He is also a Certified GPS Operator.			
EDUCATION (Degree, Year, Specialization)			
Central Westmoreland Technical School 2 Year Technical Degree in Drafting & Design University of Pittsburgh @ Johnstown & Greensburg / Misc.			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS			
PA Society of Land Surveyors			
REGISTRATION (Type, Year, State)		None	

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	
<b>Steven E. Dobo</b> <b>Mapping Supervisor</b>		YEARS OF AML SURVEYING & MAPPING EXPERIENCE: <b>20+</b>	YEARS OF AML RELATED DESIGN EXPERIENCE: <b>0</b>
Brief Explanation of Responsibilities			
Steve will serve this contract as our mapping supervisor / mapping QC Controller for all photogrammetry related work produced by I&MS. He has over twenty years of experience on AMD related projects.			
EDUCATION (Degree, Year, Specialization)			
Clearfield County Vocational School / 2 Year Technical Degree / Mechanical Drafting & Design			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS			
<b>None</b>		<b>None</b>	
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	
<b>Joseph A. Matsko</b> <b>Sr. Cadd Tech / Systems Engineer</b>		YEARS OF AML SURVEYING & MAPPING EXPERIENCE: <b>20+</b>	YEARS OF AML RELATED DESIGN EXPERIENCE: <b>0</b>
Brief Explanation of Responsibilities			
Joe will serve this contract as the Senior Cadd Technician / Cadd QC Controller. He has over 20 years of cadd & photogrammetric mapping experience and has work on many projects of this nature.			
EDUCATION (Degree, Year, Specialization)			
2 Year Technical Degree / Triangle Technical School / Mechanical CAD Technology			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS			
<b>None</b>		<b>None</b>	

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

DESIGN SERVICES	Equipment Listing (Partial Listing)	Purchase Date	Accuracy	Condition	Software Available
GPS Equipment	Trimble 4400 GPS Equipment (2 Each)	12/96	See note 1.	Good	Intergraph
	Trimble 4400 GPS Equipment (2 Each)	09/98	See note 1.	Very Good	AutoCAD & AutoDesk
	Trimble 4700/4800 GPS Equipment (2 Each)	06/90	See note 1.	Very Good	TerraModel
	Trimble 5700 GPS Equipment (2 Each)	07/02	See note 1.	New	ARC/INFO
	Trimble PRO XRS W/Omni Satellite Service	03/98	Sub-meter	Very Good	ESRI
	Trimble PRO XH	08/06	Sub-foot	New	TDS
Notes: 1. Meets or exceeds all current FGCS accuracy requirements.					
Laser Scanning & Modeling	Cyrax 2400 Laser Scanner	09/99	N/A	Very Good	Plus Others
	<b>Survey Equipment</b>				
Survey Equipment	Nikon Total Station DTM-450 & Husky Data Collector	09/99	1" / 0.3 mgon	Very Good	
	Nikon Total Station DTM-450 & Husky Data Collector	06/98	1" / 0.3 mgon	Very Good	
	Nikon Total Station DTM-550 & Husky Data Collector	06/99	1" / 0.3 mgon	Very Good	
	Nikon Total Station DTM-550 & Husky Data Collector	06/99	1" / 0.3 mgon	Very Good	
	Nikon Total Station DTM 310 & TDS FS-2 Data Collector	05/98	1" / 1.6 mgon	Very Good	
	Trimble Total Station TTS300 & TDS FS-2 Data Collector	03/00	3" / 0.9 mgon	Very Good	
	Trimble 5601R DR200 Robotic Total Station & TSCe DC	08/03	1" / 0.3 mgon	New	
	Trimble DInI 12 Digital Level		03/00 0.3mm	New	
	Topcon DT-101 Digital Level		03/00 0.4mm	Very Good	
	Nikon AE-7C Automatic Level (W/Micrometer)	06/99	1.0mm	Very Good	
	Nikon AE-7C Automatic Level (W/Micrometer)	06/99	0.45mm	Very Good	
	2 Each Topcon AT-G2 Automatic Level(W/Micrometer)	08/98	0.4mm	Very Good	
	Topcon AT-GX Automatic Level(W/Micrometer)	06/00	0.35mm	Very Good	
	Nikon AS-2C Automatic Level (W/Micrometer)	02/03	0.4mm	New	
	8" Gas Powered Soil Auger (utilized for setting concrete monuments)				
1 Each 18 Volt Electric and Gasoline Powered Hammer Drills (for Setting SS Driven Rod Monumentation and Domed Brass Bench marks)					
3 Each Carsonite Witness Post Drivers					
<b>Vehicles</b>					
2 Each GMC Full Size 4X4 Pickup Extended Cab W/Cap 02/00					
2 Each Chevrolet Full Size 4X4 Pickup Extended Cab W/Cap 12/02					
<b>Photogrammetric Mapping</b>					
7 Each Intergraph / Zeiss IMA Analytical Stereo Plotter					
Wild BC-2 Analytical Stereo Plotter 09/05					
Kern CMP-1+					
Wild Puc-3 & 4 12/98					
Vexcel Film Scanner Ultra Scan 5000 09/99					
Intergraph Z-I Imaging Softcopy Station / GeoMedia 06/99					
PCI Ortho Softcopy / Airphoto / GeoMedia 06/99					
4 Each Intergraph Z-I Imaging Softcopy Station 08/03					
6 Each Cardinal Softcopy Mapping Stations 12/03					
Intergraph Z-I Imaging Softcopy Analytical Bridging Pkg. 02/04					
<b>Hydrographic Survey Equipment</b>					
1 Each 14' Work Boat W/5 HP Motor; 1 Each 16' Work Boat W/25 HP Motor; 1 Each 18" Work Boat W/45 HP motor All Good					
1 Each Depthmate M/N SM-5 Depth Meter W/Ext. Transducer (1.8 to 260 Feet) New					
1 Each Flowatch Air / Liquid Flow Meter (0.2 to 32 MPH Range) New					
1 Each Temperature Profiler New					
2 Each Canoes 3 Each Kayaks Good to Like New					
Innerspace Model 456, 448 & 610 Sounder / Recorder, Velocity Profiler, DF Sounder, Tide Gauge and Heave Compensator all rented as required as needed.					



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
Dents Run Watershed Benezette, PA ACOE Section 206 Ecosystem Restoration Project	U.S. Army COE (Baltimore District), PA DCSR, PA DEP Bureau of AMR, Pa Game Commission, Bennett's Branch Watershed Association and Western Pennsylvania Conservancy	Responsible for all surveying and mapping services including: aerial photography, photo products, GPS control & monumentation, analytical bridging, digital mapping, ortho's, stake-out, property & R-O-W surveys and deed descriptions. Products delivered in AutoCAD & Intergraph.	\$30 Million	75%
Selfridge Air National Guard Base Selfridge, MI	Selfridge Air National Guard Selfridge, MI	Aeronautical survey which included: color aerial photography, GPS control & monumentation, analytical bridging, color ortho's and obstruction mapping. Shipped in AutoCAD, AutoDesk & ESRI file formats	Unknown Surveying & Mapping Fees: \$36,000	100%
Three (3) concurrent state wide open-end surveying and mapping contracts	Maryland State Highway Administration Baltimore, MD	Control surveys aerial film scanning, analytical bridging, color ortho's and photogrammetric mapping at various scales state wide. Final products shipped in Intergraph file format. Some projects included super low rotary wing based mapping.	Unknown Current contract for \$1 million extended thru March 2009	50%

State wide open-end surveying and mapping contract	Pennsylvania State System of Higher Education Harrisburg, PA	Engineering surveys, property surveys, aerial photography and photogrammetric mapping.	Unknown \$1 million (active work threshold contract)	0%
Sunbury Power Generation Facility Shamokin Dam, PA	Sunbury Generation, LLC Old Trail Road Shamokin Dam, PA 17876	Engineering surveys, hydrographic surveys, aerial photography, GPS control surveys & monumentation, topographic mapping.	Unknown Work completed, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, & 2008	For 2008 0%, all others 100%
System wide surveying and mapping services	National Fuel Gas Corporation 1100 State Street Exie, PA 16501	Property surveys, subdivisions, engineering surveys, well locations, aerial photography, lab services, GPS control & monumentation, analytical bridging, digital mapping, ortho production, and more. Work also included a system wide hardcopy to softcopy record conversion project. Work included all company owned gas transportation & distribution lines and engineering drawings. Work was completed in AutoCAD, Intergraph, ARC/INFO and others.	One Billion Plus	On-going \$1 million in contracts completed to date
U.S. Army Fort Sill Airfield & Obstructions Survey	Responsible for all surveying and mapping related work.	U.S. Army 2418 NW Macomb Road Ft. Sill, OK	Unknown Contract Amount: \$50K	0%
TOTAL NUMBER OF PROJECTS:			TOTAL ESTIMATED CONSTRUCTION COSTS:	
For engineer of record "0", as surveyor of record 3000+			Over one billion dollars.	

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
NY District ACOE Open-end District Wide "Hydrographic Surveying & Mapping Contract"	Responsible for all surveying and mapping related work.	New York District U.S. ACOE 26 Federal Plaza New York, NY 10278-0090	2009	Unknown Total contract amount \$3 million	Unknown (on going)
City wide surveying and mapping Towns of Geneva and Corning, NY	Responsible for all surveying (engineering surveys, GPS control surveys & monumentation) and mapping related work.	City of Corning Corning, NY	Unknown (ongoing)	Unknown	\$162K to date, but the project is on going
City wide surveying and mapping Project (future use, GIS Base Map) to ACOE spatial data standards. Products included aerial photog., photographic lab services, analytical bridging, GPS control & monumentation, digital orthos, accurate storm MH locations (X, Y & Z) and underground storm drainage pipe details. Williamsport, PA	Responsible for all surveying and mapping related work.	City of Williamsport, PA	Unknown (on going)	Unknown	\$260K

Cherry Island Landfill Quarterly Up-date Digital Photogrammetric Mapping	Responsible for all surveying and mapping related services. Color serial photography, lab services, GPS control analytical bridging, mapping & color ortho's.	Delaware Solid Waste Authority Wilmington, DE	Unknown (on going)	Unknown (on going)	Working on a quarterly basis under several multi year contracts (1997 to date). Fees: \$2.2 million to date
Proposed wind farm Potter County, PA LiDAR & Digital Photogrammetric Mapping	Responsible for all mapping related services: serial photog., lab services, airborne GPS, LiDAR data collection, digital mapping & ortho's	Unknown, work being completed for the Buffalo, NY office of URS	Fall 2008	Unknown	Fees: \$93K
FBI Biometrics Center (Secure Facility) Clarksburg, WV Surveying & Mapping	All surveying and mapping services, including: aerial photography, lab services, GPS control & site monumentation, analytical bridging, digital mapping and ortho photo production.	FBI Washington, DC	2008	Unknown	Facility wide surveying and photogrammetric mapping Option Dependant
Glen Dale Water Line Improvements Project Moundsville, WV	All surveying and mapping services including: aerial photog. lab services, GPS control & monumentation, analytical bridging and digital mapping.	City of Glen Dale Marshall County Moundsville, WV	Spring / Summer 2008	Unknown	Mapping of six (6) areas for waterline design \$4K


17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED SURVEYOR & MAPPER OF RECORD	PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Six (6) Sites and Multiple Contracts to Date: Bentley Creek Bradford County, PA South Hampton Creek Bucks County, PA Swale Creek, Lazy Creek, Jenks Road Site & Franko Site Wyoming County, PA	U. S. Fish & Wildlife Service 315 South Allen Street State College, PA 16801-4850	Unknown	2000 To Date	Unknown	
Fourteen (14) Sites and Multiple Contracts to Date: Penn Del Site 1 Penn Del Site 2 Fitzgerald Auto Salvage Drake Auto Salvage Miller Road Site White Auto Salvage South Wilmington Marsh Chesapeake Supply Co. Site 1 Chesapeake Supply Co. Site 2 Waste Management S.E. Site 700 "A" Street 900 "A" Street Salvation Army Site Dover Site	Delaware Department of Natural Resources and Environmental Control Division of Air & Waste Management 391 Lukens Drive New Castle, DE 19720-2774	Unknown	2004 To Date	Unknown	
Fourteen (14) sites and Multiple Contracts to date: PAD-KS-0227, 0495, 0488, 0492, 0491, 0388, 0229, 0218, 0390, 0411, 0377, Sportsman's Pit, Lee Kurt Road Site and E. Minerals Site	Kansas Department of Health and Environment; Division of Environment; Bureau of Environmental Remediation Surface Mining Section 4033 Parkview Frontenac, KS 66763	Unknown	2005, 2006, 2007 & 2008	Unknown	
Surveying & mapping of the following five (5) watersheds: Bentley, Towanda, Wycox Mill and Satterlee Creeks	Bradford County Conservation District Stoll Nature Resource Center RR#5, Box 5030C Towanda, PA 18848	Unknown	2004	Unknown	

Total Linear Feet: 600,000				
Hydrographic Surveys, Control Surveys & Mapping Bennett Branch of Sinnemahoning Creek Elk County, PA	Canaan Valley Institute & Bennett Branch Watershed Association Benezette, PA	Unknown	2004	Unknown
Mapping of 181,000 acres, northern New York State Lewis, County, Towns of Lewis, Montague, Osceola and West Turin, Tug Hill and the East Branch of Fish Creek	New York State Department of Environmental Conservation Bureau of Real Property 625 Broadway, 5 <sup>th</sup> Floor Albany, NY 12233-4256	Unknown	2004	Unknown
State Wide Surveying and Photogrammetric Mapping Contract	Pennsylvania Department of Transportation Linekiln Road New Cumberland, PA 17070	Unknown	2007	Unknown
State Wide Surveying and Photogrammetric Mapping Contract	Pennsylvania Department of Conservation and Natural Resources Harrisburg, PA	Unknown	2005	Unknown
Set-up Deflection and Deformation Monumentation System on twenty-five (25) dam sites	Commonwealth of Pennsylvania Fish & Boat Commission 450 Robinson Lane Sellefonte, PA 16823-9620	Unknown	2004	Unknown

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	
13,000 acre site Color aerial photography (w/airborne GPS), color IR photography (w/ airborne GPS), photographic lab services LidAR data acquisition (via rotary wing), color digital orthos along with 1' contours. LEMS was responsible for the full softcopy analytical bridging phase of this project.	Town of Kiawah Kiawah Island, NC	Unknown	2005	Unknown	Mapping Resource Group	
Ninety (90) sites completed to date. Work: GPS control surveys, baseline monumentation, cross sections, and hydrographic surveys  Site CN 01-14 Murdock Site Somerset County, PA  Work: Hydrographic survey of a flooded mine pool	Pennsylvania Department of Environmental Protection Bureau Acid Mine Drainage Harrisburg, PA	Unknown	2003 Thru 2006	Unknown	Barton Aerial and Sanborn Columbus, OH	

<p>Analytical Bridging, DEM Point Collection and Digital Ortho Photo Generation of the following four (4) military bases:  Fort Beaufort Aux Townsend, GA  Fort Le Jeune, NC  Parris Island, Sc  Quantico, VA</p>	<p>U.S. Department of Defense  Washington, DC</p>	<p>Unknown</p>	<p>2007 and 2008</p>	<p>Unknown</p>	<p>Sanborn  Charlotte, NC</p>
<p>Hydrographic survey of seventy (70) cross sections in the area of Annapolis, MD</p>	<p>U.S. Coast Guard  Cleveland Engineering Group  Cleveland, OH</p>	<p>Unknown</p>	<p>2005</p>	<p>Unknown</p>	<p>Tetra Tech, Inc.  Richmond, MI</p>
<p>Lower Darby Creek Site, Burks County, PA. Color and B&amp;W aerial photography, photographic lab services, GPS control &amp; site monumentation, analytical bridging, digital photogrammetric mapping, digital orthos, engineering surveys, and hydrographic surveys.</p>	<p>EPA Region III</p>	<p>Unknown</p>	<p>2005</p>	<p>Unknown</p>	<p>Tetra Tech, Inc.  56 West Main Street  Christiana, DE  19702-1501</p>



<p>Dushore-Loyalsock Project</p> <p>Services Provided: Aerial Photography, Photographic Lab Services, GPS Control &amp; Site Monumentation, Analytical Bridging, Digital Photogrammetric Mapping and Ortho Photo Production</p>	<p>Baltimore District U.S. ACOE</p>	<p>Unknown</p>	<p>2004</p>	<p>Unknown</p>	<p>Tetra Tech, Inc. 56 West Main Street Christiana, DE 19702-1501</p>
<p>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.</p>					
<p>20. The foregoing is a statement of facts.</p> <p style="text-align: center;">  </p> <p>Signature: _____ Title: <u>Partner</u></p> <p>Printed Name: <u>James E. Pabel, P.L.S., C.P., P.S.M.</u></p> <p style="text-align: right;">Date: <u>05/28/2008</u></p>					

**AML and RELATED PROJECT EXPERIENCE MATRIX**

PROJECT	Exp. Basis C=Corp. P=Personal	Additional Info Provided in Section (s)	PROJECT EXPERIENCE REQUIREMENTS																	
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Nitigation/ Replacement	Construction/ Inspection/Managem ent	Water Treatment	Equipment/Structure Removal	Stream Restoration				
Contrary Run SM 5 Reclamation/Restoration	C		X	X		X									X				X	
Shoup Run AMD Treatment	C				X	X									X	X				X
Hubler Run 1 AMD Treatment System	C				X	X									X	X				
Hubler Run 2 AMD Treatment System	C				X	X									X	X				
Ferris Wheel Reclamation	C		X												X	X				
West Ferris Wheel AMD Treatment System	C		X												X	X				
Kelley Estate Highwall Reclamation	C		X												X	X				
Loop Run 5 & 6 AMD Treatment System	C		X												X	X				
Loop Run 10 AMD Treatment System	C														X	X				
Bear Loop Run Stream Restoration	C		X												X	X				X
Morgan Run 7 AMD Treatment	C		X												X	X				
Morgan Run 8 AMD Treatment	C														X	X				
Morgan Run Frog AMD Treatment	C		X												X	X				
Morgan Run Tuff AMD Treatment	C														X	X				
Morgan Run Ross AMD Treatment	C														X	X				
Emigh Run Headwaters Relocation	C		X												X	X				X

**AML and RELATED PROJECT EXPERIENCE MATRIX**

PROJECT	Exp. Basis C=Corp. P=Personal	Additional Info Provided in Section (s) **	PROJECT EXPERIENCE REQUIREMENTS													
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration
Emigh Run 8 AMD Treatment System	C						X	X				X	X			
Emigh Run 13 AMD Treatment	C						X	X				X	X			
Big Mountain AMD Treatment	C		X				X	X				X	X			
Stauffer Run AMD Treatment	C						X	X				X	X			
Sky Haven Reed #1 AMD Treatment	C						X					X	X			
Rock Run AMD Treatment	C		X				X					X	X			
Korb Reclamation/AMD Treatment	C		X				X					X	X			
Montgomery Run AMD Treatment	C		X				X					X	X			
IMC Fore AMD Treatment	C		X				X					X	X			
Trout Run 22/23 AMD Treatment	C						X					X	X			
Trout Run 36/38/40/41 AMD Treatment	C						X					X	X			
MR Tuff AMD Treatment & Wetland Mitigation	C		X				X					X	X			

\* List whether project experience is corporate or personnel based or both.

\*\* Use this area to provide specific sections or pages if needed for reference.

**AML and RELATED PROJECT EXPERIENCE MATRIX**

PROJECT	Stream Restoration		Geotechnical/Stability		PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Profess.			
					Michelle Merrow	Brian Merrow	Steven Treschow	
Contrary Run SM 5 Reclamation/Restoration	X				M, P	P	P	
Shoup Run AMD Treatment	X				M, P	P	P	
Hubler Run 1 AMD Treatment System					M, P	P	P	
Hubler Run 2 AMD Treatment System					M, P	P	P	
Ferris Wheel Reclamation					M, P	P	P	
West Ferris Wheel AMD Treatment System					M, P	P	P	
Kelley Estate Highway Reclamation					M, P	P	P	
Loop Run 5 & 6 AMD Treatment System					M, P	P	P	
Loop Run 10 AMD Treatment System					M, P	P	P	
Bear Loop Run Stream Restoration	X				M, P	P	P	
Morgan Run 7 AMD Treatment					M, P	P	P	
Morgan Run 8 AMD Treatment					M, P	P	P	
Morgan Run Frog AMD Treatment					M, P	P	P	
Morgan Run Tuff AMD Treatment					M, P	P	P	
Morgan Run Ross AMD Treatment					M, P	P	P	
Emigh Run Headwaters Relocation	X				M, P	P	P	

AML and RELATED PROJECT EXPERIENCE MATRIX				PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional		
PROJECT	Stream Restoration	Geotechnical/Stability		Michelle Merrow	Brian Merrow	Steven Treschow
	Emigh Run 8 AMD Treatment System				M,P	P
Emigh Run 13 AMD Treatment				M,P	P	P
Big Mountain AMD Treatment				M,P	P	P
Stauffer Run AMD Treatment				M,P	P	P
Sky Haven Resed #1 AMD Treatment				M,P	P	P
Rock Run AMD Treatment				M,P	P	P
Korb Reclamation/AMD Treatment				M,P	P	P
Montgomery Run AMD Treatment				M,P	P	P
MC Fore AMD Treatment				M,P	P	P
Trout Run 22/23 AMD Treatment				M,P	P	P
Trout Run 36/38/40/41 AMD Treatment				M,P	P	P
MR Tuff AMD Treatment & Wetland Mitigation				M,P	P	P

\* List whether project experience is corporate or personnel based or both.

\*\* Use this area to provide specific sections or pages if needed for reference.

\*\*\* List Primary Design personnel and their functional capacity for the projects listed.  
Attachment "C"

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](http://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: ALDER RUN ENGINEERING, LLC  
 Authorized Signature: *Michelle M. Monson* Date: 10-21-08