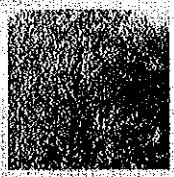
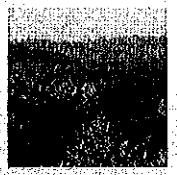
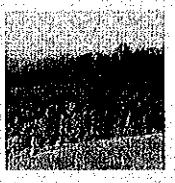
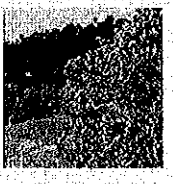



Expression of Interest
January 15, 2009

DEP14535 Sarah Ann (Vance) Drainage Design

Professional Engineering Design and Construction Monitoring Services

E.L.ROBINSON
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E.L. Robinson Engineering Co.
5088 Washington Street, West
Charleston, WV 25313
Phone: (304) 776-7473
Fax: (304) 776-6426
www.elrobinson.com

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

Request for Quotation

RFQ NUMBER	PAGE
DEP14535	1

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

VENDOR
RFQ COPY
TYPE NAME/ADDRESS HERE

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/11/2008				

BID OPENING DATE: 01/15/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-29		

SARAH ANN (VANCE) DRAINAGE DESIGN

EXPRESSION OF INTEREST

THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ENGINEERING DESIGN SERVICES AND CONSTRUCTION MONITORING SERVICES AT THE SARAH ANN (VANCE) DRAINAGE PROJECT IN LOGAN CO., WEST VIRGINIA, PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS.

BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID AND IS TERMINATED WITHOUT FURTHER ORDER.

****** THIS IS THE END OF RFQ DEP14535 ****** TOTAL:

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE Gary Facemyer TELEPHONE 304.776.7473 DATE 12/22/08

TITLE Project Manager FEIN 55-0594633 ADDRESS CHANGES TO BE NOTED ABOVE

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

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January 15, 2009

West Virginia Department of Environmental Protection
Office of AML & R
601 57th Street
Charleston, WV 25304

Attn: Eric J. Coberly, P.E., Chief

Re: Sarah Ann (Vance) Drainage Design
DEP14535
Expression of Interest

Dear Mr. Coberly:

E. L. Robinson Engineering Co. (ELR) is pleased to submit this proposal in response to your request to perform professional engineering design services, mapping and construction monitoring services associated with the design of the Sarah Ann (Vance) Drainage Design project located in Logan County.

We have completed plans and specifications for numerous reclamation and waterline projects for WVDEP/AML over the past ten years. In addition, we have completed numerous projects with ODNR over the past four years. We have descriptions of these projects in the attached proposal. Please note that the majority of staff that worked on these projects are still with ELR.

I will be the Project Manager for this contract. As you know, I have considerable AML design and construction experience gained in the last 19 years while employed by a construction company and then a design firm, both working in West Virginia's AML Program. Tim Cart, P.E. has served as Project Manager/Project Engineer on many AML projects for more than 20 years and will continue to provide expertise on future projects in both management and engineering roles. ELR has very recently added a highly qualified design staff from Ackenheil Engineers. The ELR staff have combined experience in the design of nearly 100 AML projects.

We are able to assemble multiple design teams with our current staff. The Charleston office has:

A. Ten (10) registered professional engineers (civil or mining) and four (4) engineers in training as well as several CADD technicians that may be used on these teams. We have recently hired two additional CADD technicians to enhance our capabilities.

5088 Washington Street, West • Charleston, West Virginia 25313
304-776-7473 • toll-free 800-856-6485 • fax 304-776-6426 • www.elrobinson.com
Other locations: Beckley, WV • Buckhannon, WV • Chapmanville, WV • Cleveland, OH • Dublin, OH • Ironton, OH • Inverness, FL

B. Recent experience in designing more than forty (40) abandoned mine land remediation projects. This does not include the projects that I, Tim Cart, and the Ackenheil staff have been responsible for prior to joining ELR. This number does not include water studies/design or surveying/mapping/drilling projects.

C. Five (5) reclamation design teams lead by myself and other professional engineers,

Gary Facemyer, P.E./John Kelly/Jason Mayes
Gary Facemyer, P.E./Rich Watts/Gary Workman
Tim Cart, P.E./Ivan Gillespie
Mark McGettigan, P.E./Joey Jude
Brian Morton, P.E./Shawn Kelly

E. L. Robinson Engineering Co. has grown from 13 employees in 1996 to over 70 employees today. Three areas of growth of our company which we believe will enable ELR to provide professional engineering services to the WVDEP/AML&R with enhanced services are addition of the Ackenheil staff; acquiring the latest GPS systems to enhance our surveying capabilities; and expansion of our inspection capabilities. Throughout this growth period we have continued to meet project deadlines while providing a high quality engineering product.

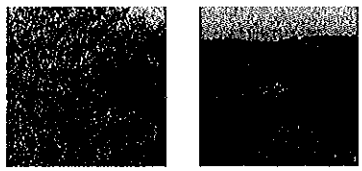
Our office location in Charleston is centrally and conveniently located in respect to the WVDEP offices and the referenced project.

We at E.L. Robinson Engineering Co. look forward to serving your agency under this contract. If you have any questions or need clarification, please feel free to contact me at (304) 776-7473.

Sincerely,
E. L. Robinson Engineering Co.
By:

Gary Facemyer

Gary Facemyer, P.E.
Client Manager



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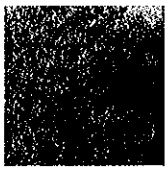
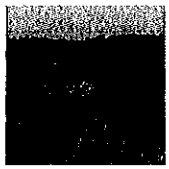
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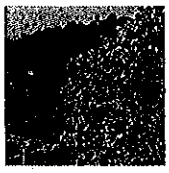

EXECUTIVE SUMMARY

For more than 10 years, E.L. Robinson Engineering Company has been a prime and preferred engineering and surveying consultant to the WV Division of Environmental Protection, Office of Abandoned Mine Lands and Reclamation (WVDEP/ AML) program. We have provided this Executive Summary to directly respond to the Expression of Interest and provide ease for the evaluators to score this proposal.

Understanding of Project Requirements

E.L. Robinson Engineering Co. fully understands the requirements for this project and is committed to giving the WVDEP/ Office of Abandoned Mine Lands and Reclamation the time and attention that is necessary for the reclamation project. Professional services may include: civil; structural; geological; surveying and mapping; preparation of all necessary permit applications; construction monitoring and other services that may be required.

Firm's Capacity

E.L. Robinson Engineering Co. approaches all engineering projects with the same attention to detail and fiscal responsibility to ensure the client receives the most cost effective plan, design and operationally functional project possible. Our approach truly makes the WVDEP/AML engineering staff an integral part in the design of the project. We want to make sure that the review staff is comfortable with the design concept before the project is submitted for review. During this process, we evaluate all technical alternatives to determine the most cost effective plan and technically acceptable project for the WVDEP/AML staff.

E.L. Robinson Engineering Co. has more than 50 professionals on staff and individuals experienced in mine reclamation. This capacity allows for the development of innovative and alternative methods to address complex issues involved in reclamation projects of this nature. Our QA/QC process also allows for a different perspective to be brought to the project before submission to the client and for review. E.L. Robinson Engineering Co. has the capacity to take this project from conception to completion with a wide variety of experienced professionals with in-house staff for planning, design, permitting, bidding and construction monitoring.

E.L. Robinson Engineering Co. will work diligently to deliver the highest quality, cost effective solution that the WVDEP/ AML deserves. We have extensive knowledge in mine reclamation and are currently working with WVDEP/AML and Ohio DNR on similar projects. We have an excellent understanding of the requirements for this type of project and a good working relationship with NEPA, permitting and regulatory issues.

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PROJECT APPROACH

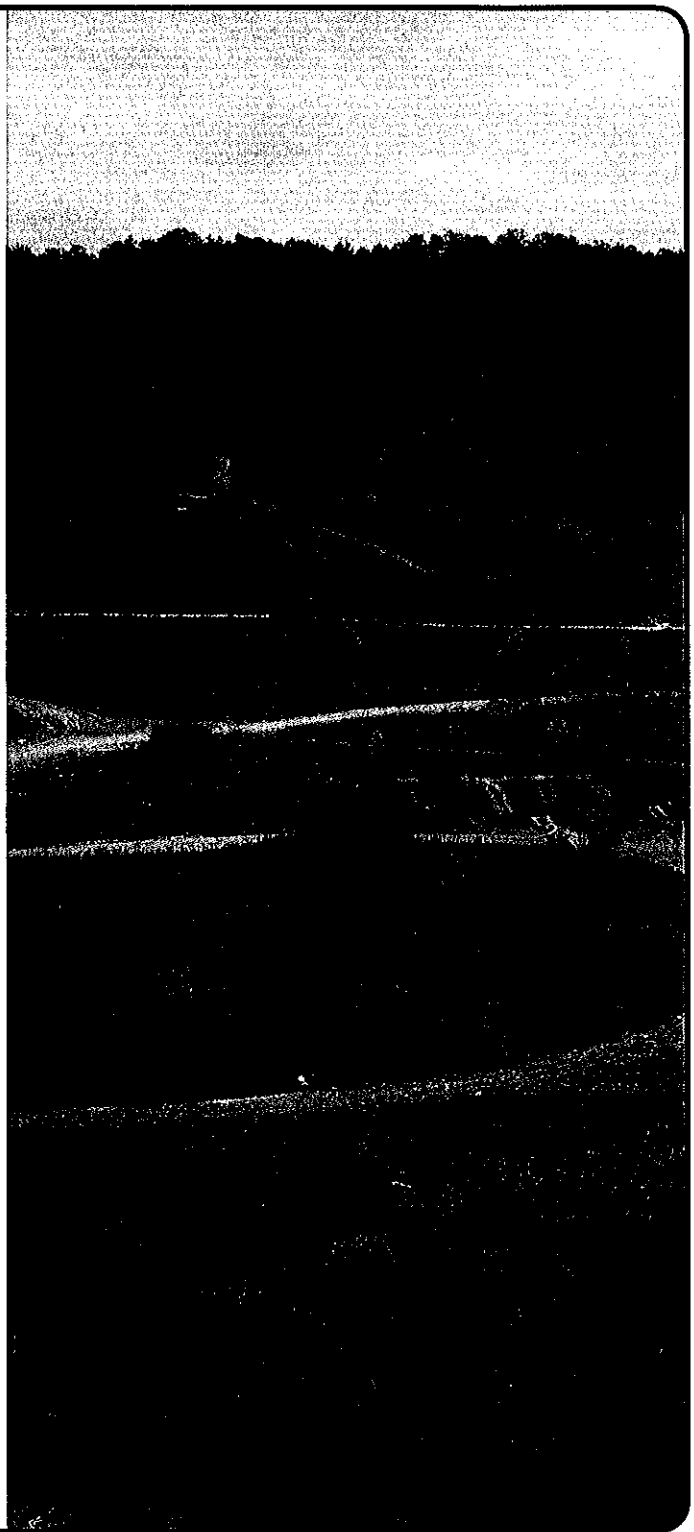
E.L. Robinson is familiar with the project area and the type of project for which you are seeking engineering services. We believe that we have a thorough understanding of the work to be provided to the WVDEP/AML for the subject reclamation project.

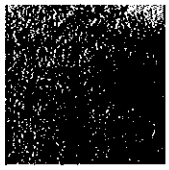
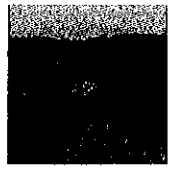
We are anxious to become an extension of your staff by providing prompt planning, design and construction monitoring services as needed. We interact with the various review and permitting agencies. As you will see from our resumes, we are uniquely diversified to provide quality engineering services to your agency.

E.L. Robinson will work closely with the WVDEP/AML and all regulatory and permitting agencies to complete this project. We feel that our extensive knowledge and experience in the planning and design of similar projects are significant assets in developing a cost-effective solution to your reclamation project.

The scope of services will include but are not limited to:

- Conceptual engineering and identification of permitting requirements
- Surveying and contour mapping
- Geotechnical services
- Design
- Preparation of plans and specifications
- Participation in the pre-bid meeting
- Participation in the pre-construction meeting
- Preparation of all necessary permit applications
- Construction monitoring
- Other services that may be required by the WVDEP/AML

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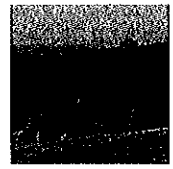
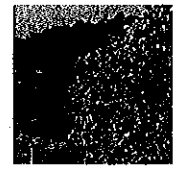



Our Project Team

Our firm has put together a project team that is experienced in the design and construction of mine reclamation projects and has the capacity to perform the project's scope in a timely and efficient manner.

Mr. Gary Facemyer, P.E. will be assigned as the Project Manager.

Mr. John Kelly, II, E.I. will be assigned the CADD designer and principal production person for the project. He has performed this role for numerous mine reclamation projects.

Mr. Timothy Cart, P.E., Mr. Randall Lackey, P.E. and Mr. Mark McGettigan, P.E. will be assigned as the Project Engineers.

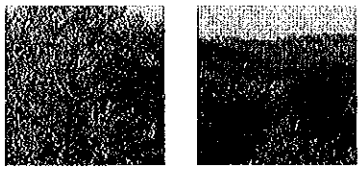
Mr. James Rayburn, P.S. will be assigned to oversee all surveying and mapping activities.

Our staff is well-qualified and experienced in related reclamation projects. They have the knowledge and capabilities to perform all of the tasks required for your project.

In addition to your primary project team, other members of our organization may be called upon from time to time to provide their expertise and assistance to ensure this important project is completed on time and on budget.

Our team of construction inspectors, led by Ronnie Williams, offers years of experience with construction monitoring.

Also, our team of surveyors, managed by James Rayburn, P.S., provides the WVDEP/AML with the latest in technology and experience in surveying and mapping. By using GIS-based mapping and high-tech instrumentation, E.L. Robinson's survey team can evaluate any type of surface. Other services pertaining to surveying that our company specializes in are aerial photogrammetric consulting, hydrographic surveying, land surveying and GPS surveying.



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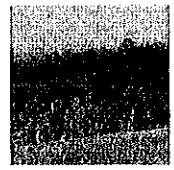
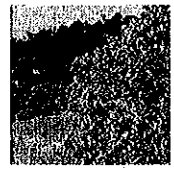
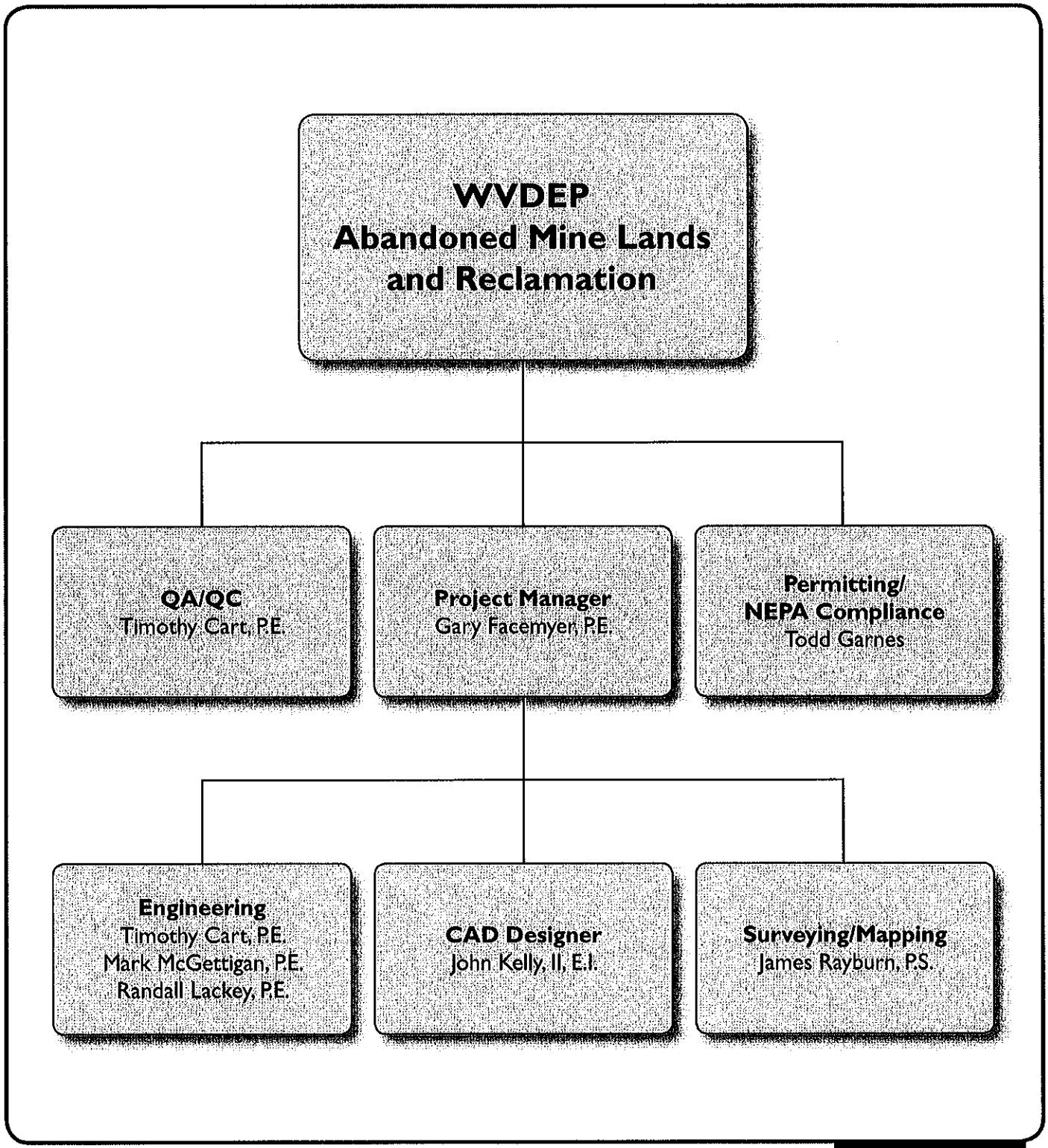
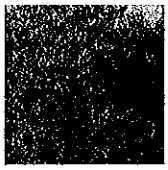
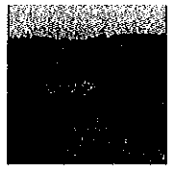



Our Project Team



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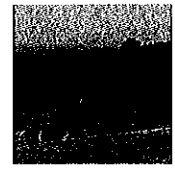
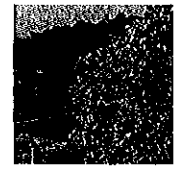



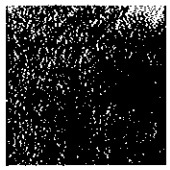
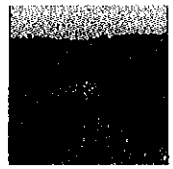
Our Capabilities

Over the past 30 years, E.L. Robinson Engineering Co. has focused its efforts on delivering quality projects to our clients and building strong relationships based on trust and partnership. We believe building lasting relationships with our clients is key to delivering exceptional service for many years to come.

E.L. Robinson provides WVDEP/AML with the capabilities, expertise and resources of one of the top-notched civil engineering firms in the region. Our offices are staffed with professionals experienced in AML reclamation mapping, permitting, design and construction monitoring projects with more than 50 employees, including 10 registered professional engineers, degreed design engineers, construction inspectors and a support team of administrative and technical personnel to assist the WVDEP/AML.

We are very familiar with the requirements of the permitting and regulatory agencies. This experience expedites the completion of projects.

As part of our commitment to quality, E.L. Robinson realizes that every project, client and location is very different. As a result, we look at each project independently to determine the most cost-effective solution. Specifically, we look at ways we can maximize the project benefit and minimize the construction cost while at the same time completing projects on time and within budget.

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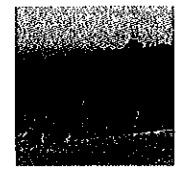
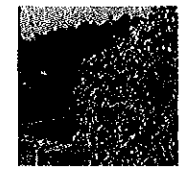

PREVIOUS EXPERIENCE

E.L. Robinson is well-qualified and experienced in mine reclamation projects. We are very familiar with the requirements of the project. We have demonstrated abilities in developing practical and cost-effective reclamation and improvement projects and are dedicated to meeting project schedules and budgets.

Such demonstrations can be seen in our recent and past work on reclamation projects, including:

- **Jacob's Fork Complex – recent P.O. September 2008**
- **Rhodell Refuse and Portals – final review comments, September 2008**
- **Gilmer B Sites 3,8 – final review comments, September 2008**
- **Ohio DNR Emergency Reclamation – 19 sites completed**
- **Toney Fork Landslide Emergency – complete February 2006**
- **North Matewan – complete February 2005**
- **Big Creek "C" Refuse – complete July 2004**
- **Charleston Romeo Landslide – complete May 2004**
- **Gooney Otter Refuse – complete January 2004**
- **Chapmanville (Gorby) Mine Blowout – December 2003**
- **Tuppers Creek (Layne) Landslide – July 2003**
- **Rich Fork (Thaxton) Landslide – July 2003**
- **Maidsville (Tennant) Landslide – February 2003**

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE

Attachment "B"

PROJECT NAME	DATE (DAY, MONTH, YEAR)	FEIN
Sarah Ann (Vance)Drainage Design - DEP14535	January 15, 2009	55-0594633

1. FIRM NAME	2. HOME OFFICE BUSINESS ADDRESS	3. FORMER FIRM NAME
E.L. Robinson Engineering Co.	5088 Washington Street, West Charleston, WV 25313	

4. HOME OFFICE TELEPHONE	5. ESTABLISHED (YEAR)	6. TYPE OWNERSHIP	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise)
304-776-7473	1978	Individual x Corporation Partnership Joint-Venture	YES x NO

7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE
5088 Washington Street, West Charleston, WV 25313 304-776-7473/Gary Facemyer, P.E./50 Staff in Charleston Area

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM	8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS
Ed Robinson, P.E. 304 776-7473 Ext 211	Gary Facemyer, P.E. 304 776-7473 Ext. 212

9. PERSONNEL BY DISCIPLINE **(Bold Lettering Indicates Minimum Design Team Members)**

3 ADMINISTRATIVE ARCHITECTS	— ECOLOGISTS	— LANDSCAPE ARCHITECTS	6 STRUCTURAL ENGINEERS
1 BIOLOGIST	— ECONOMISTS	— MECHANICAL ENGINEERS	6 SURVEYORS
14 CADD OPERATORS	— ELECTRICAL ENGINEERS	1 MINING ENGINEERS	— TRAFFIC ENGINEERS
— CHEMICAL ENGINEERS	— ENVIRONMENTALISTS	— PHOTOGRAMMETRISTS	— OTHER
9 CIVIL ENGINEERS	— ESTIMATORS	PLANNERS: URBAN/REGIONAL	
10 CONSTRUCTION INSPECTORS	2 GEOLOGISTS	— SANITARY ENGINEERS	
— DESIGNERS DRAFTSMEN	— HISTORIANS	1 SOILS ENGINEERS	
	— HYDROLOGISTS	— SPECIFICATION WRITERS	50 TOTAL PERSONNEL

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 10
***RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.**

10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? ☐ YES NO X This is not applicable

11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Confidential Qualification Questionnaire" for each if copy is not on file with AML.

NAME AND ADDRESS: Novel Geo – Environmental (NGE) 806 B Street, St. Albans, WV	SPECIALTY: Drilling	WORKED WITH BEFORE X 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
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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?

X YES Description and Number of Projects: Forty Two (42) Projects - See Attached Sheet

_ NO

B. Is your firm experienced in Soil Analysis?

X YES Description and Number of Projects: Eighteen (18) Projects - See attached Sheet

_ NO

C. Is your firm experienced in hydrology and hydraulics?

X YES Description and Number of Projects: Ten (10) Projects - See attached sheet

_ NO

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

X YES Description and Number of Projects: > 200 - in Firm History - 65 Recent Projects Listed

All ELR WV & OH AML Projects since 2003 have been surveyed with ELR Surveying Staff

_ NO

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

X YES Description and Number of Projects: Forty two (42) Total
Eight (8) Domestic Waterline Experience (AML Related)
Seventeen (17) Evaluation of Aquifer Degradation
Twenty Five (25) Non-AML Domestic Water Lines

_ NO

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

X YES Description and Number of Projects: Seven (7) Projects

_ NO

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:
Edward L. Robinson, President	10	24	32

Brief Explanation of Responsibilities

Mr. Robinson worked in the Right of Way Division of the WV Department of Highways for ten years where he reviewed major utility plans. He has extensive experience in property surveys, property title searches, aerial mapping and land acquisition. He has provided quality control on all projects designed by this firm for the past 25 years. Provide and coordinate Quality Control on all design projects.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science 1969 Civil Engineering
Master of Science 1981 Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
American Society of Civil Engineers - Past President WV American Council of Engineering Companies National Society of Professional Engineers	1975 Civil Engineering Registered in West Virginia and Kentucky Professional Licensed Surveyor No. 1150

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:
Gary Facemyer, P.E., PS	19	32	32

Brief Explanation of Responsibilities

Mr. Facemyer is the Project Manager/Engineer on public works projects with E. L. Robinson. Mr. Facemyer has served in that role with other companies over the past 32 years. He has participated in over 30 AML related projects including reclamation, water studies, waterline design and acid mine drainage projects. He has been the Project Manager on hundreds of domestic waterline projects over the past 32 years.

EDUCATION (Degree, Year, Specialization)

B. S. Civil Engineering WV Institute of Technology 1975

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
American Society of Civil Engineers - Past President WV American Council of Engineering Companies WV Society of Professional Surveyors	Professional Engineer, WV OH PA MD VA KY Professional Surveyor WV

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
John Kelly II, E.I.	8	8	8

Brief Explanation of Responsibilities

Mr. Kelly has worked on many AML projects since joining ELR. His responsibilities have included drilling inspection, sampling of coal refuse materials, hydrology, hydraulics design of drainage structures, and development of regrading plans. Estimation of quantities developed estimated cost. Mr. Kelly is proficient with Auto Cadd.
Mr. Kelly has performed layout and inspection of core drilling operations for bridge and roadway projects. In addition, he has designed cut slopes for large-scale roadway projects such as the US Route 52 Kermit Bypass in Mingo County, WV and Meadowbrook Road in Harrison County, WV.

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering/1998/WVU

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Engineer Intern, WV

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Timothy B. Cart, P.E.	25	25	20

Brief Explanation of Responsibilities

Mr. Cart has completed numerous mine reclamation projects under the AML program, including regrading of coal refuse materials, re-establishment of vegetation cover, disposal of acid producing materials, and developing methods for extinguishing burning materials and disposal of old mining structures. Designed passive AMD treatment systems. Conducted Phase I and Phase II Studies to determine if groundwater had been affected by pre-law mining.

Mr. Cart has extensive experience in the design and construction management of waterline extension projects. Mr. Cart has recently completed water projects in Mingo; Kanawha; Putnam; and Cabell counties.

Mr. Cart has performed geotechnical engineering calculations and designs for settlement analysis of dams and other embankments.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science 1981 Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer WV OH

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:
Mark McGettigan, P.E.	7	7	7

Brief Explanation of Responsibilities

Mr. McGettigan has worked on several AML projects since joining our firm. He has developed grading plans, cross sections, estimated and checked quantity calculations. He has also served as a field inspector for several waterline Projects designed by E. L. Robinson Engineering Co. He has been the lead designer on waterlines over the past five years.

Mr. McGettigan also has experience with surveying and equipment including; theodolites, levels, and total stations. He has also performed various concrete and soil tests and is certified on Troxler nuclear density gage.

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering Technician/Fairmont State/1999

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer WV

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Randall L. Lackey, P.E.	1	8	1

Brief Explanation of Responsibilities

Mr. Lackey has performed hydraulics and scour for Ripley Town Bridge; Tallman Bridge; Meadowbrook Road Bridge; Simpson Creek Bridge; Kermit Bypass Bridge; Left Hand Fork Bridge; and Blennerhassett Bridge.

Mr. Lackey has also performed calculations for deck drainage; performed girder design and analysis; pier design and analysis; prepared design study reports; type, size and location reports and final plans on many of our Division of Highways projects.

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering/1999

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer WV

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
J. Todd Garnes	5	5	5

Brief Explanation of Responsibilities

Mr. Garnes experience surveying and providing CADD Design for mine reclamation projects and waterline and sewer extrusions. He has provided construction inspection services for landsides and subsidence projects in Ohio.
Mr. Garnes has performed numerous water feasibility studies, which involved interviews, water sampling and analysis, mapping, mine research, and development of final reports.

EDUCATION (Degree, Year, Specialization)

A.S. Architectural Design/ 1999
A.S. Computer Aided Drafting and Design/ 1999

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:
Thomas Rayburn, P.S.		30	

Brief Explanation of Responsibilities

Mr. Rayburn has experience in mine mapping and surveying, formulated short term and long range mining plans for all types of coal mining, designed mine drainage and water supply systems for underground and surface mines, designed mine ventilation plans and systems which include precision pressure quality surveys and computer simulation of ventilation systems.
He has performed slope stability analysis and hydrology calculations, provides computer analysis for mining applications, work with leases and land management as well as reclamation and environmental permits.
By utilizing "state of the art" electronic total stations and/or GPS (Satellite) equipment, he performs control surveys for aerial mapping and collects data and develops GIS for utility mapping.
Mr. Rayburn has also performed surveying and mapping for large scale highway projects.

EDUCATION (Degree, Year, Specialization)

A.S. Mechanical Engineering, WVIT/1970

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Surveyor WV

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Scott LeRose, P.E.	1	1	1

Brief Explanation of Responsibilities

Mr. LeRose is experienced in developing major highway and right of way plans; Bridge Construction Inspections; Core Drilling Operations; Groundwater Sampling/Monitoring; UST Removal/Replacement and Mine Permitting/Reclamation.

Specific major highway design and right of way plan development projects include: Meadowbrook Road, a 2 mile design of new four lane highway; US 52(I-73), a 3.5 mile design and ROW plans for a new four lane highway with two major interchanges; design of 2 mile section of Appalachian Corridor H from Davis to Bismark; design of 5.2 mile section of Corridor H from Grant/Hardy County line to Moorefield.

While working on these projects, he has gained experience in major drainage design, site grading design, utility relocation, MOT, signing and pavement stripping. He has performed quantity calculations for pavement, drainage, seeding, pollution control quantities, and other items associated with roadway plans. He is also experienced in the development of ROW plans, including deed plots and legal descriptions.

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering/1997

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer WV

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Ray Tilley, P.E.		5	30

Brief Explanation of Responsibilities

Mr. Tilley has over 30 years experience in water and wastewater design as a Project Manager/Engineer. In addition, Mr. Tilley is a certified Water Plant Operator. Mr. Tilley has successfully completed numerous waterline design projects over his career. His current duties include managing both water and wastewater design projects for ELR.

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering/WV Tech 1975; M.S. Sanitary Engineering Virginia Tech, 1976

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer WV

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
James Eric Gwinn, E.I.	8	8	8

Brief Explanation of Responsibilities

Mr. Gwinn has experience in construction layout for waterline projects. He performs calculation and permit requirements. He has worked on the Cabell County Water Project and the raw water intake structure for the Fayette Plateau Regional Water Project. He has performed calculations on various AML project.
Mr. Gwinn has designed approach slabs, decks and extensive detailing on several bridge projects.

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering/1998/ West Virginia Institute of Technology

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:
Brian D. Morton, P.E.	2	2	6

Brief Explanation of Responsibilities

Mr. Morton has worked on waterline extension projects in Putnam County. He also has completed numerous waterline relocation projects involving the West Virginia Division of Highways.

Mr. Morton has prepared signing and pavement marking plans and performed hydrologic and hydraulic calculations for culverts and other drainage structures and highway construction.

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering/1998

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer WV

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Joseph T. Carney, P.E.			32

Brief Explanation of Responsibilities

Mr. Carney has extensive experience in design engineering, preparation of contract documents, construction inspection, and contract administration. He has worked on a variety of Civil Engineering projects including grading, earthwork, storm sewer, drainage studies, roadway, bridge design, hydrologic/hydraulic reports, sanitary sewer and water systems.

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer WV

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:		YEARS OF AML DESIGN EXPERIENCE:
Workman, Gary A., CADD Senior Technician	19	Workman, Gary A., CADD Senior Technician	19

Brief Explanation of Responsibilities

Mr. Jude is responsible for CADD design and engineering on AML projects. He has worked on 44 WVDEP/AML projects while employed at Ackenheil.

EDUCATION (Degree, Year, Specialization)
Technical School/1987/CADD

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	WVDOH certifications compaction, aggregates and concrete.

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:
Mayes, Jason M.			

Brief Explanation of Responsibilities

Provides CADD Design for site development, waterline and sewer extensions, and layout on AML Projects. Mr. Mayes has Nearly ten years experience in WV DOT design with a prior firm.

EDUCATION (Degree, Year, Specialization)

B.S. Industrial Technology 1997 WVU Tech
A.S. Drafting and Design 1996 WVU Tech

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 DESIGN EXPERIENCE:
Watts, Richard W. Project Geologist	24	Watts, Richard W. Project Geologist	24

Brief Explanation of Responsibilities
Mr. Watts has served as project geologist on more than fifty (50) abandoned mine land projects. Responsibilities include project management, field reconnaissance, drilling coordination, laboratory testing and analysis, stability analysis, specification writing, quantity determinations, cost estimates, pre-bid and pre-construction meeting. Projects included surface and deep mine reclamation, subsidence, AMD treatment and waterline feasibility studies.

EDUCATION (Degree, Year, Specialization)
B.S./1977/Geology
M.S./1994/Geography

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
GSA, AEG	P.G. Geology/1992/Virginia P.G. Geology/1993/Kentucky

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

Various computer hardware and software including: Microstation, InRoads, AutoCAD, ELRSoil, Microsoft Office applications, Haested, Water CADD, Culvert Master, Flow Master

Various surveying equipment:

Instruments - Topcon Total Station (6), Trimble Robotic DR200+ (2)

GPS Equipment - Trimble 5700 Receiver (6), Trimble TSCe Controller/Handheld (5)
*all equipment lists have various misc. survey equipment to go along (poles, tape measures, data collectors, etc.)

Riegl LMS - 360 3D Laser Scanner - surface imaging system based upon accurate distance measurement by means of electro-optical range measurement and a two axis scanning mechanism.

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
Jacobs Fork Complex McDowell County	WVDEP/AML&R	Surveying, Mapping and Design	$750,000	0
Gilmer B Sites 3-8 Gilmer County	WVDEP/AML&R	Surveying, Mapping and Design	$675,000	95
Rhodell Refuse & Portals, Wyoming County	WVDEP/AML&R	Surveying, Mapping and Design	$1.2 M	95
Holden Water System Upgrade Logan County	Logan County PSD P. O. Box 506 Logan, WV Attn: Rick Roberts	Design and Construction Management	$6.0 M	85
Gilbert Slabtown Waterline Extension	Town of Gilbert P.O. Box 188 Gilbert, WV Attn: John White	Design and Construction Management	$1.5 M	85
Lavalette PSD Rt. 37 Waterline Extension	Lavalette PSD 5308 Route 152 Lavalette, WV	Design and Construction Management	$5.0 M	85
Danese Waterline Extension	Danese Public Service District	Design and Construction Management	$6.0 M	85

TOTAL NUMBER OF PROJECTS:	TOTAL ESTIMATED CONSTRUCTION COSTS: $

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
Upshur County Industrial Park Upshur County	Upshur County EDA	Design	$4.0 M	95
Miller Mountain Water Extension, Webster County	Webster County EDA Webster Springs, WV	Design and Construction Management	$3.0 M	80
McDowell PSD Jolo Phase II Water McDowell County	McDowell Public Service District	Design and Construction Management	$4.0 M	85
Dille/Widen Water Extension Clay County	Birch River PSD	Design and Construction Management	$4.0 M	85
Dutch Ridge/Sanderson Water Extension, Kanawha County	Kanawha County RDA	Design and Construction Management	$2.5 M	85
Williamson Sanitary Sewer Improvements	City of Williamson	Design and Construction Management	$1.1 M	85
Lubeck Sanitary Sewer Extension, Wood County	Lubeck PSD Lubeck, WV	Design and Construction Management	$2.1 M	0

TOTAL NUMBER OF PROJECTS:14

TOTAL ESTIMATED CONSTRUCTION COSTS: $ 42 Million

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

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)
Glen Rogers Waterline Extension Wyoming County	WVDEP-AML 601 57th Street Charleston, WV 25304	$1.2 M	2007	Yes
Guyandotte River Bridge I-64 Cabell County	WV Dept. of Transportation Engineering Division Charleston, WV 25301 Attn: Gregory Bailey	$2.25 M	2006	Yes
Corridor H Davis-Bismark X347-H-64.85 00 Tucker County	WV Dept. of Transportation Engineering Division Charleston, WV 25301 Attn: Gregory Bailey	$9.0 M	2008	No
Bridgeport to Meadowbrook Rd Lodgeville & Simpson Creek Bridges I-79 Harrison County	WV Dept. of Transportation Engineering Division Charleston, WV 25301 Attn: James Sothen	$11.0 M	2003	No
Chief Logan Recreational Center Logan County	WV State Parks	$4.0 M	2007	Yes
Mt View Streeter Water Raleigh County	Flat Top PSD	$2.5 M	2007	Yes
Consumers Gas Utility Co. Ritchie County Projects Gas Line Relocation Ritchie County	Consumers Gas Utility Co. P.O. Box 427 Pennsboro, WV 26415	$0.3 M	2002	Yes
WVDEP-AML Jeffrey Mine Complex Abandoned Mine Land Rec. Boone County	WVDEP-AmL 10 McJunkin Road Nitro, WV 25143	$0.4 M	2002	Yes

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
Appalachian Corridor D Blennerhassett Island Bridge X354-D-0.00	Sub to Michael Baker, Jr., Inc. Surveying, structural design, hydraulic & scour analysis	WV Dept. of Transp. Division of Highways Engineering Div. Charleston, WV 25301	2004	No	Sub to Michael Baker, Jr., Inc.
I-70 Ft. Henry IC Bridge X335-70-9.50 00	Sub to Michael Baker, Jr., Inc. Post Design Services	WV Dept. of Transp. Division of Highways Engineering Div. Charleston, WV 25301	2004	No	Sub to Michael Baker, Jr., Inc.
Appalachian Corridor H Section 3 Davis to Bismark	Sub to Modjeski & Masters Survey, Geotech & ROW Plans	WV Dept. of Transp. Division of Highways Engineering Div. Charleston, WV 25301	2004	No	Sub to Modjeski & Masters

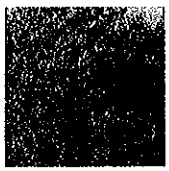
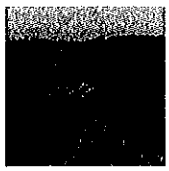
19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program.
E. L. Robinson Engineering Co. is committed to the WVDEP/AML program to provide professional design, surveying and mapping and construction monitoring services in a timely and cost-efficient manner. Our business plan relies heavily on the work offered by the WVDEP/AML program. See attached additional information in Section 19.

20. The foregoing is a statement of facts.

Signature: Gary Facemyer Title: PROJECT MANAGER Date: January 15, 2009

Printed Name: Gary D. Facemyer, P.E.

NOTE: THIS DOCUMENT WILL BECOME VOID AFTER DECEMBER 31 IN CALENDAR YEAR OF DATE HEREON.

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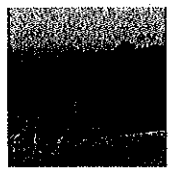
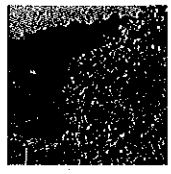



12A Abandoned Mine Lands Reclamation Experience

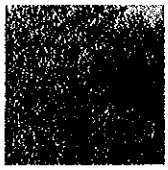
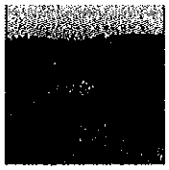
Project:	**Jacob's Fork Complex**
	Boone County, WV
Year:	2008-2009
Client:	WVDEP-AML
	Charleston, WV
Description:	Field surveying and mapping, subsurface investigation, design work for mine seals, drainage and reclamation.

Project:	**Rhodell Refuse & Portals**
	Wyoming County, WV
Year:	2008
Client:	WVDEP-AML
	Charleston, WV
Description:	Performed survey, drilling, design for refuse and spoil regarding and mine drainage control.

Project:	**Gilmer B Site 3-8**
	Gilmer County, WV
Year:	2008
Client:	WVDEP-AML
	Charleston, WV
Description:	Performed survey, drilling, design for refuse and spoil regarding and mine drainage control.

Project:	**Gouge Landslide Emergency**
	Scott Town, OH
Year:	September 2007
Client:	ODNR-AML
	1855 Fountain Square
	Columbus, OH
Description:	Performed site survey and drilling and prepared landslide abatement design.

Project:	**Brown Landslide Emergency**
	Rayland, OH
Year:	August 2007
Client:	ODNR-AML
	1855 Fountain Square
	Columbus, OH
Description:	Performed site survey and prepared landslide abatement design.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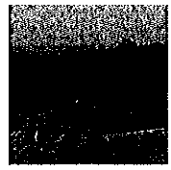
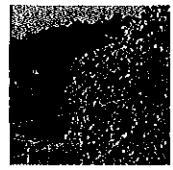

12A Abandoned Mine Lands Reclamation Experience

Project:	**Rodgers Subsidence Emergency**
	Wellston, OH
Year:	January 2007
Client:	ODNR-AML
	1855 Fountain Square
	Columbus, OH
Description:	Performed site survey and prepared subsidence abatement design.

Project:	**McAdams Subsidence Emergency**
	Stark County, OH
Year:	April 2006
Client:	ODNR-AML
	1855 Fountain Square
	Columbus, OH
Description:	Performed investigation and prepared report of findings.

Project:	**Athens Rt. 13 Refuse Fire Emergency**
	Athens County, OH
Year:	March 2006
Client:	ODNR-AML
	1855 Fountain Square
	Columbus, OH
Description:	Performed site survey, prepared abatement design and monitored on-site construction for fire extinguishment.

Project:	**Toney Fork Landslide Emergency**
	Boone County, WV
Year:	February 2006
Client:	WVDEP-AML
	Charleston, WV
Description:	Performed site survey and drilling and prepared plans and specifications to stabilize an emergency landslide area.

Project:	**Cox Refuse Fire Emergency**
	Gallia County, OH
Year:	December 2005
Client:	ODNR-AML
	1855 Fountain Square
	Columbus, OH
Description:	Performed abatement design for fire extinguishment.

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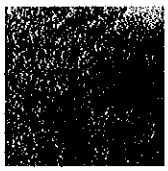
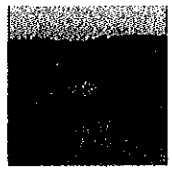
Project:	**Lavender Refuse Fire Emergency**
	Meigs County, OH
Year:	November 2005
Client:	ODNR-AML
	1855 Fountain Square
	Columbus, OH
Description:	Performed abatement plan and monitored construction.

Project:	**Goetz Subsidence Emergency**
	Columbiana County, OH
Year:	November 2005
Client:	ODNR-AML
	1855 Fountain Square
	Columbus, OH
Description:	Performed investigation and prepared report of findings.

Project:	**Adkins Landslide Emergency**
	Gallia County, OH
Year:	December 2005
Client:	ODNR-AML
	1855 Fountain Square
	Columbus, OH
Description:	Performed surveying, drilling, landslide abatement and construction monitoring.

Project:	**North Matewan (Sipple Drainage)**
	Mingo County, WV
Year:	February 2005
Client:	WVDEP-AML
Description:	Performed surveying, drilling and design for drainage project abatement.

Project:	**Phalen Landslide Emergency**
	Martins Ferry, OH
Year:	January 2005
Client:	ODNR-AML
	1855 Fountain Square
	Columbus, OH
Description:	Performed site surveying and landslide abatement design.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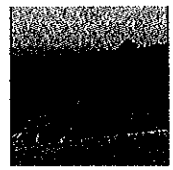
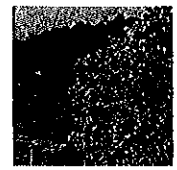



12A Abandoned Mine Lands Reclamation Experience

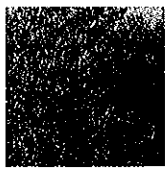
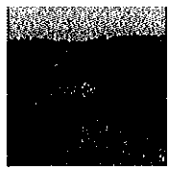
Project: **Baisden Subsidence Emergency**
Jackson, OH
Year: January 2005
Client: ODNR-AML
1855 Fountain Square
Columbus, OH
Description: Performed drilling to develop subsidence abatement solutions.

Project: **Parsons Landslide Emergency**
New Philadelphia, OH
Year: December 2004
Client: ODNR-AML
1855 Fountain Square
Columbus, OH
Description: Performed site review and compiled report concerning landslide's relation to mining and potential solutions.

Project: **Big Creek "C" Refuse**
Logan County, WV
Year: July 2004
Client: WVDEP-AML
Description: Performed surveying and drilling for design.

Project: **Imboden Landslide Emergency**
Rutland, OH
Year: June 2004
Client: ODNR-AML
1855 Fountain Square
Columbus, OH
Description: Performed drilling and surveying to develop landslide abatement solutions and cost estimates.

Project: **Titus Road Landslide Emergency**
Rutland, OH
Year: June 2004
Client: ODNR-AML
1855 Fountain Square
Columbus, OH
Description: Performed surveying and drilling and prepared plans and specifications to stabilize an emergency landslide area.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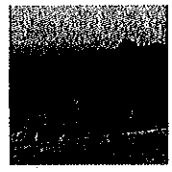
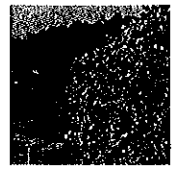



12A Abandoned Mine Lands Reclamation Experience

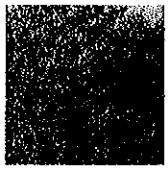
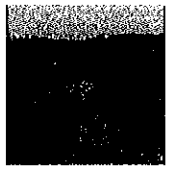
Project: **Jefferson County Road 26 Landslide Emergency**
Winterville, OH
Year: May 2004
Client: ODNR-AML
1855 Fountain Square
Columbus, OH
Description: Performed surveying and drilling and prepared plans and specifications to stabilize an emergency landslide area.

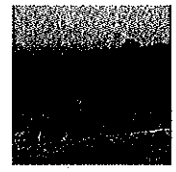
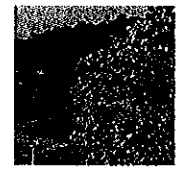
Project: **Charleston Romeo Landslide**
Kanawha County, WV
Year: May 2004
Client: WVDEP-AML
Description: Performed surveying, drilling and design of landslide abatement.

Project: **Roush Landslide Emergency**
Pomeroy, OH
Year: March 2004
Client: ODNR-AML
1855 Fountain Square
Columbus, OH
Description: Prepared plans and specifications to stabilize an emergency landslide area.

Project: **Lewis Landslide Emergency**
Pomeroy, OH
Year: March 2004
Client: ODNR-AML
1855 Fountain Square
Columbus, OH
Description: Performed surveying and drilling and prepared plans and specifications to stabilize an emergency landslide area. Also provided construction monitoring.

Project: **Moran Subsidence**
Clinton, OH
Year: January 2004
Client: ODNR-AML
1855 Fountain Square
Columbus, OH
Description: Prepared plans and specifications to stabilize an emergency subsidence area.

12A Abandoned Mine Lands Reclamation Experience

Project: **Ron Bobar Subsidence**
Flushing, OH
Year: January 2004
Client: ODNR-AML
1855 Fountain Square
Columbus, OH
Description: Investigation and report of an emergency subsidence area.

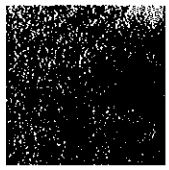
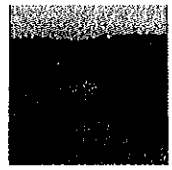
Project: **Gooney Otter Refuse**
Wyoming County, WV
Year: January 2004
Client: WVDEP-AML
Description: Performed surveying, drilling and site design for refuse regarding project.

Project: **Chapmanville (Gorby) Mine Blowout**
Logan County, WV
Year: December 2003
Client: WVDEP-AML
Description: Performed surveying, drilling and design of landslide regrading and retaining wall design.

Project: **Tuppers Creek (Layne) Landslide**
Kanawha County, WV
Year: July 2003
Client: WVDEP-AML
Description: Performed surveying, drilling and design of landslide abatement.

Project: **Rich Fork (Thaxton) Landslide**
Kanawha County, WV
Year: July 2003
Client: WVDEP-AML
Description: Performed surveying, drilling and design of landslide abatement.

Project: **Maidsville (Tennant) Landslide**
Monongalia County, WV
Year: February 2003
Client: WVDEP-AML
Description: Performed surveying, drilling and design of landslide abatement.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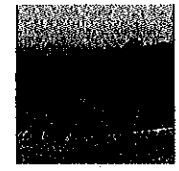
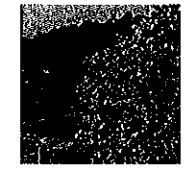



12A Abandoned Mine Lands Reclamation Experience

Project: **Whittington Hill (Walker Landslide)**
Kanawha County, WV
Year: June 2002
Client: WVDEP-AML
Description: Performed surveying, drilling and design for an emergency landslide.

Project: **Minden Refuse Pile Reclamation Project**
Fayette County, WV
Year: September 2001
Client: WVDEP-AML
Description: Performed surveying and design for emergency project to upgrade drainage control.

Project: **Jeffrey Mine Complex Reclamation Project**
Boone County, WV
Year: July 2001
Client: WVDEP-AML
Description: Performed surveying and design for regrading refuse.

Project: **Hot Coal Reclamation Project**
Raleign County, WV
Year: October 2000
Client: WVDEP-AML
Charleston, WV
Description: Performed surveying and design for regrading refuse.

Project: **Bull Run #27**
Preston County, WV
Year: October 2000
Client: WVDEP-AML
Description: Performed surveying and design for regrading refuse.

Project: **Riffe Branch Impoundment**
Fayette County, WV
Year: June 2000
Client: WVDEP-AML
Description: Performed surveying and design for regrading refuse and drainage control.

12A Abandoned Mine Lands Reclamation Experience

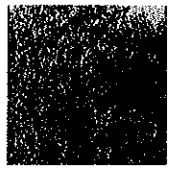
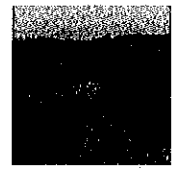
Project: **Ven's Run Landslide**
Harrison County, WV
Year: September 1999
Client: WVDEP-AML
Description: Performed surveying and design for regraded landslide area.

Project: **Fickey Run**
Preston County, WV
Year: September 1999
Client: WVDEP-AML
Description: Performed surveying and design for refuse and spoil regrading and drainage control.

Project: **Bull Run #35**
Year: July 1999
Client: WVDEP-AML
Description: Performed surveying and design for refuse and spoil regrading.

Project: **Securro Mine Drainage Site 1 & 2**
Fairmont, WV
Year: July 1998
Client: WVDEP-AML
Description: Performed surveying and design for mine drainage system.

Project: **Brown's Creek #10 Reclamation Project**
Year: 1997
Client: WVDEP-AML
Description: Performed surveying and design for refuse regrading and mine seal installation.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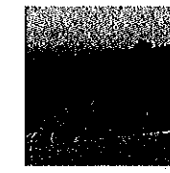
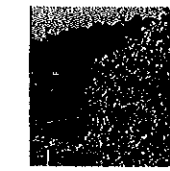



12B Soil Analysis / Geotechnical Experience

US-52 Kermit By-Pass

Solicited bids from core-boring contractors and performed core borings for highway and bridges for a planned four-lane highway in Mingo County, West Virginia.

Designed cuts and performed slope stability analysis and settlement analysis for several major fill areas. Designed foundations for a total of six bridges.

Meadowbrook Road

Solicited bids from core-boring contractors and performed core borings for highway and bridge for a planned four-lane highway in Harrison County West Virginia.

Designed cuts and performed slope stability analysis and settlement analysis for several major fill areas. Designed foundations for a bridge spanning the West Fork River.

US 60 Coal River Bridge

Solicited bids from core-boring contractors and performed core borings for highway and bridge for a replacement for a bridge, which spans the Coal River in Kanawha County, West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the existing fill slopes.

US 60 CSX-Overpass Bridge

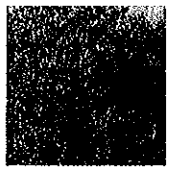
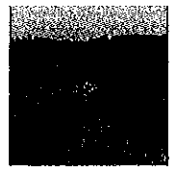
Solicited bids from core-boring contractors and performed core borings for highway and bridge for a replacement for a bridge that spans mainline tracks of the CSX Railroad in Kanawha County, West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the existing fill slopes.

Indian Creek Bridge Boone County West Virginia

Solicited bids from core-boring contractors and performed core borings for highway and bridge for a replacement for a bridge that spans the Coal River in Boone County, West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill slopes.

Camp Creek Bridge – Lavalette

Layout and directed core boring operations using WVDOH forces for a replacement bridge on US 152 in Wayne County, West Virginia. Prepared geotechnical report with recommended foundation alternatives.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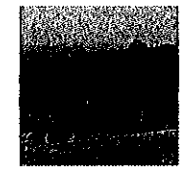
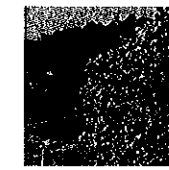



12B Soil Analysis / Geotechnical Experience

Jackson Bridge

Solicited bids from core-boring contractors and performed core borings for highway and bridge for a replacement for a bridge that spans Middle Island Creek in Tyler County, West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill slopes.

Tallman Bridge

Solicited bids from core-boring contractors and performed core borings for highway and bridge for a replacement for a bridge that spans Middle Island Creek in Tyler County, West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill slopes.

Corridor H-Section 7 (Foreman to Moorefield)

Solicited bids from core-boring contractors and performed core borings for highway and bridge for a planned four-lane highway in Hardy County, West Virginia.

Designed cuts performed slope stability analysis and settlement analysis for several major fill areas. Designed foundations for a bridge spanning the South Branch of Potomac River.

Corridor H-Section 12 Section 01(Davis to Bismarck)

Solicited bids from core-boring contractors and performed core borings for highway and bridge for a planned four-lane highway in Tucker/Grant Counties, West Virginia.

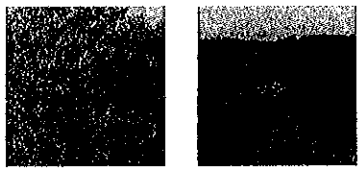
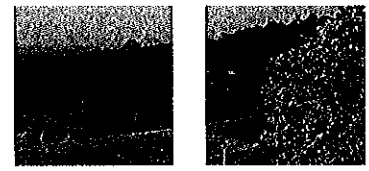
Corridor H-Section 12 Section 03 (Davis to Bismarck)

Solicited bids from core-boring contractors and performed core borings for highway and bridge for a planned four-lane highway in Tucker/Grant County, West Virginia.

Designed cuts performed slope stability analysis and settlement analysis for several major fill areas. Designed foundations for a bridge spanning the West Fork River.

I-79 Lodgeville Bridge

Solicited bids from core-boring contractors and performed core borings for highway and bridge for a replacement for a bridge and road-widening project. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill slopes.

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12B Soil Analysis / Geotechnical Experience

I-79 Simpson Creek Bridge

Solicited bids from core-boring contractors and performed core borings for highway and bridge for a replacement for a bridge and road-widening project. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill.

I-79 Meadowbrook Road Over-Pass

Solicited bids from core-boring contractors and performed core borings for highway and bridge for a replacement for a bridge and road-widening project. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill.

Ripley Town Bridge

Solicited bids from core-boring contractors and performed core borings for highway and bridge for a replacement for a bridge that spans Mill Creek in Jackson County, West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill slopes.

Ripley Route 21 Road Widening

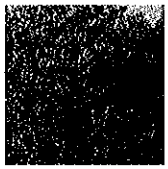
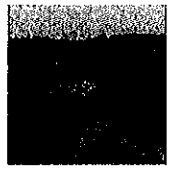
Performed slope stability analysis of a landslide area and designed a method to stabilize the area so the existing roadway could be widened. Developed plans and specifications, which were included in the bid package for the road-widening project.

I-64 Cross Roads Overpass Bridge

Solicited bids from core-boring contractors and performed core borings for highway and bridge for a replacement for a bridge and road-widening project. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill.

I-79 Left Hand Fork Bridge

Reviewed existing core-boring data and performed slope stability analysis on the existing bridge abutment that had moved. Reviewed data from slope inclinometers, design pile lagging and rock buttress to stabilize the embankment.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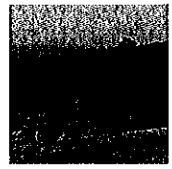
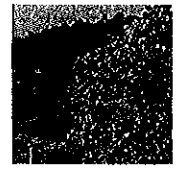



12C Hydrology and Hydraulics

Project: **Blennerhassett Island Bridge Over Ohio River**
Year: 1999-2003
Client: Michael Baker Jr., Inc.
5088 Washington Street, West
Charleston, WV 25313
Contact: Pi Amin, P.E.
Vice President Michael Baker Jr, Inc. (Southwest Region)
304-769-0821
Description: Prepared an analysis of the hydraulic impact of the proposed bridge on the Ohio River flow and prepared an appropriate hydraulic report. The analysis utilized HEC-RAS, and as a part of the hydraulic report, a scour analysis was performed. E. L. Robinson Engineering Co. developed a computer model of the Ohio River using hydrographic survey mapping provided by our survey group.

Two–dimensional hydraulic was also developed to model complex flows for various bridge configurations and to provide more accurate predictions of hydraulic behavior anticipated in the area. The 2-D and 3-D models allow derivation of design details and design analyses and provide more accurate simulations of scour hole geometry.

Project: **US 52 Mainline Bridge**
KY 40 Bridge/Kermit Bypass over Marrowbone Creek
Year: 2000
Client: West Virginia Department of Transportation
Division of Highways
Building 5
1900 Kanawha Blvd. East
Charleston, WV 25305
Contact: James Sothen, P.E., Director, Engineering Division
304-558-0501
Description: Prepared an analysis of the hydraulic impact of the Kermit Bypass Project over Marrowbone Creek and a partial relocation of the creek. Prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-RAS program.

12C Hydrology and Hydraulics

Project: **Bridge No. 2922.1 NB & SB**
I-79 Over Left Hand Creek & US 119
Year: 2000
Client: West Virginia Department of Transportation
Division of Highways
Building 5
1900 Kanawha Blvd. East
Charleston, WV 25305
Contact: James Sothen, P.E., Director, Engineering Division
304-558-0501
Description: Prepared an analysis of the hydraulic impact of the placement of a retaining wall for slope protection of the Left Hand Fork Bridge over Left Hand Creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-RAS program.

ELR also prepared Section 404 permitting documents outlining the effects a temporary cofferdam, which would be used during the construction phase, would have on the outlying areas upstream of the projects.

Project: **Bridge No. 2448.1 – Simpson Creek Bridge**
I-79 Over Simpson Creek
Year: 2000
Client: West Virginia Department of Transportation
Division of Highways
Building 5
1900 Kanawha Blvd. East
Charleston, WV 25305
Contact: James Sothen, P.E., Director, Engineering Division
304-558-0501
Description: Prepared an analysis of the hydraulic impact of the widening of the Simpson Creek Bridge over Simpson Creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-RAS program.

ELR also prepared Section 404 permitting documents outlining the effects temporary cofferdams, which would be used during the construction phase, would have on the outlying areas upstream of the projects.

12C Hydrology and Hydraulics

Project: **Bridge No. 10059 – Ripley Town Bridge**
US 33 Over Mill Creek
Year: 1999
Client: West Virginia Department of Transportation
Division of Highways
Building 5
1900 Kanawha Blvd. East
Charleston, WV 25305
Contact: James Sothen, P.E., Director, Engineering Division
304-558-0501
Description: Prepared an analysis of the hydraulic impact of the replacement Ripley Town Bridge over Mill Creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-RAS program.

ELR also prepared Section 404 permitting documents outlining the effects temporary causeways, which would be used during the construction phase, would have on the outlying areas upstream of the projects.

Project: **Bridge No. 4732 – Jackson Bridge**
WV 18 Over Point Pleasant Creek
Year: 1999
Client: West Virginia Department of Transportation
Division of Highways
Office of the District Engineer, District 6
903 3rd Street
Moundsville, WV 26041
Contact: Daniel W. Sikora, P.E., District Engineer
304-843-4008
Description: Prepared an analysis of the hydraulic impact of the replacement Jackson Bridge over Point Pleasant Creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-RAS program.

12C Hydrology and Hydraulics

Project: **Bridge No. 4636 – Indian Creek Bridge**
CR 3/25 Over Big Coal River
Year: 1999
Client: West Virginia Department of Transportation
Division of Highways
Office of the District Engineer, District 1
1334 Smith Street
Charleston, WV 25301
Contact: John W. Dawson, P.E., District Engineer
304-558-3001
Description: Prepared an analysis of the hydraulic impact of the Indian Creek Replacement Bridge over the Big Coal River and prepared the appropriate hydraulic and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-2 program and the FHWA WSPRO program.

Project: **Bridge No. 4769 – Tallman Bridge**
CR 24 Over Middle Island Creek
Year: 1999
Client: West Virginia Department of Transportation
Division of Highways
Office of the District Engineer, District 6
904 3rd Street
Moundsville, WV 26041
Client: Daniel W. Sikora, P.E., District Engineer
304-843-4008
Description: Prepared an analysis of the hydraulic impact of the replacement Tallman Bridge over Middle Island Creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-RAS program.

12C Hydrology and Hydraulics

Project: **Bridge No. 10058 – Meadowbrook Road Bridge**
CR 24 Over West Fork River
Year: 1999
Client: West Virginia Department of Transportation
Division of Highways
Building 5
1900 Kanawha Blvd. East
Charleston, WV 25305
Contact: James Sothen, P.E., Director, Engineering Division
304-558-0501
Description: Prepared an analysis of the hydraulic impact of the new Meadowbrook Road Bridge over the West Fork River and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process and the Harrison County Flood Insurance Study model of the West Fork River was also used. Computer modeling was prepared using the USACE 1-D HEC-RAS program.

Prepared Section 404 permitting documents outlining the effects temporary sheet piling, which would be used during the construction phase, would have on the outlying areas upstream of the projects.

Project: **Bridge No. 4426 – Lower Gassaway Bridge**
WV 4 Over Elk River
Year: 1999
Client: West Virginia Department of Transportation
Division of Highways
Building 5
1900 Kanawha Blvd. East
Charleston, WV 25305
Contact: James Sothen, P.E., Director, Engineering Division
304-558-0501
Description: Prepared an analysis of the hydraulic impact of the Lower Gassaway Replacement Bridge over the Elk River and prepared the appropriate hydraulic and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-2 program and the FHWA WSPRO program.

12C HYDROLOGY AND HYDRAULICS

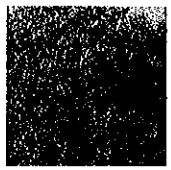
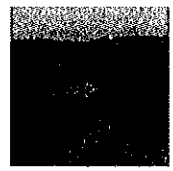
Project: **Bridge No. 4574 – Camp Creek Bridge**
WV 52 Over Camp Creek

Year: 1998

Client: West Virginia Department of Transportation
Division of Highways
Office of the District Engineer, District 2
P.O. Box 880
Huntington, WV 25712

Contact: J. Wilson Braley, P.E., District Engineer
304-528-5625

Description: Prepared analyses of the hydraulic impact of the Camp Creek Bridge over Camp Creek and prepared the appropriate hydraulic and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-2 program and the FHWA WSPRO program.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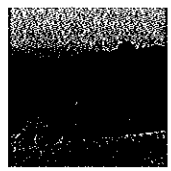
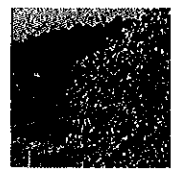

12D Aerial Photography and Contour Mapping Experience

E.L. Robinson Engineering Co. has worked with various clients to develop contour mapping of sites and areas that otherwise could not be determined. With the use of aerial photography and state of the art technology, E.L. Robinson Engineering Co. has developed maps from photographs for numerous projects including but not limited to:

City of Beckley
City of Charleston
Corridor D
Corridor H
Cross Lanes Connector
Eldora
Frazier's Bottom
Glenwood
Hatfield Cemetery
I-70 Washington Avenue (Wheeling, WV)
I-64 Glade Creek
Jackson Mill
King Coal
KY 40 Connector
Logan Run
New River Parkway
Ohio River Crossing
Pinegrove
Parkersburg
Powell Creek
Prince
PSI-Baker/Ft. Henry Bridges
Racetrack
White Sulphur Springs
Veterans Park

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12D Aerial Photography and Contour Mapping Experience

E.L. Robinson Engineering Co. has completed the preliminary mapping, within the past five years, for West Virginia Department of Environmental Protection for the projects listed below:

2003-Present
All ELR AML Projects
WV and OH

2002
Community of Preston
Rhodell Refuse Portals
Vivian Refuse Maintenance
Glen Rogers Waterline
Sundial (Hatfield) Refuse Pile
Jacob Fork Complex
Thomas (NE) Subsidence

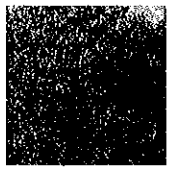
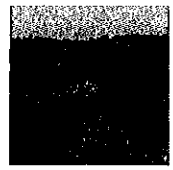
2001
Bartley Mine Dump
Beckley Soccer Complex
Holden Portals/Structures
Jeffrey Complex
Minden Refuse Drainage
Roach Branch Refuse
Sauls Run Strip
Stonecoal Creek Complex
Waterline Photography
Weaver Portals/Mine Drain

2000
Micajah Refuse Pile
McAlphin Eroding Dump
Flemington Portals/Drainage
Minden "C" Refuse Pile
National Mine Complex
Linger Clogged Stream
Hotcoal Mine Dump
Layton Mine Drainage
Quintain Development

1999
Bull Run #27
8th Street-Warwood Avenue
Mabie Highwall
Coal Branch
Matoaka Subsidence
Elkins Coal
Springton Refuse
Veins Run

1998
Bull Run #35
Fickey Run

1997
Browns Creek
Marrowbone
Matewan
Pigeon Creek

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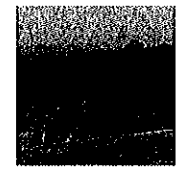
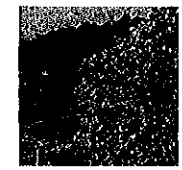

EDWARD L. ROBINSON, P.E., P.S.

PRESIDENT

Education
M.S. in Civil Engineering, West Virginia University (COGS), 1981
B.S. in Civil Engineering, West Virginia Institute of Technology, 1969

Registrations
Registered Professional Engineer in West Virginia, Kentucky, Ohio, Pennsylvania, North Carolina, South Carolina, Virginia, Georgia, Maryland and Colorado
Registered Professional Surveyor in West Virginia

Professional Experience
Mr. Robinson founded E. L. Robinson Engineering Co. in 1978 with four employees. Initially, the firm provided land surveying and land development services. Over the course of the next 20 years, the firm added water and wastewater engineering, as well as structural inspection services, while simultaneously growing to 14 employees.

Under his leadership, E. L. Robinson enters the new millennium as a multi-disciplined professional services firm that utilizes the latest technology in the design of highways, bridges, structures and environmental, civil and geotechnical projects, as well as global position satellite surveying, right-of-way, construction inspection and architectural services.

The firm now employs more than 85 engineers, architects, surveyors and support personnel and has been converted to an employee-owned company through an Employee Stock Ownership Plan (ESOP).

Professional Memberships
National Society of Professional Engineers
American Society of Civil Engineers
Water Environmental Federation

Offices Held
Chairman of WVUIT Advisory Board
President of West Virginia Council of Engineering Companies
Chairman Transportation Committee— WV Association of Consulting Engineers
State Director of West Virginia Society of Professional Engineers
President of West Virginia Society of Professional Engineers
Assistant Treasurer of the American Society of Civil Engineers
National Director of the ASCE representing WV, NC, SC and VA
President of West Virginia Section of ASCE

Honors Awarded
Alumnus of the Year—West Virginia University Institute of Technology, 1992
Engineer of the Year—West Virginia Society of Professional Engineers, 1997
Engineer of the Year—American Society of Civil Engineers, 1998
National Entrepreneur of the Year Finalist—Ernst & Young, 2001
Engineering Entrepreneur of the Year—Ernst & Young, 2001
Honorary PhD, Doctor of Science—West Virginia Institute of Technology, 2002

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GARY FACEMYER, P.E., P.S.

PROJECT MANAGER

Education
B.S. in Civil Engineering, West Virginia Institute of Technology, 1975

Professional Registrations
Registered Professional Engineer in West Virginia, Ohio, Pennsylvania, Maryland, Virginia and Kentucky.
Registered Professional Surveyor in West Virginia

Professional Memberships
American Society of Civil Engineers
American Water Works Association
WV Rural Water Association
American Council of Engineering Companies/West Virginia
WV Society of Professional Surveyors

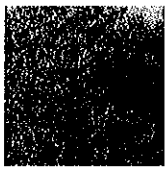
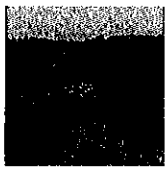
Professional Experience
Mr. Facemyer has been in responsible charge of planning, permitting, design and construction of public works projects for more than 30 years.

Mr. Facemyer has been Project Manager/Project Engineer on various numerous abandoned mine reclamation project while employed by others and has extensive experience in water lime extension and distribution systems; site development, solid waste landfills, earthen dams, geotechnical investigations, hazardous waste sites and many other miscellaneous civil engineering projects.

Duties included project planning and design, managing construction bid and award, construction oversight and inspection, and project closeout.

Representative Projects

- Abandoned Mine Land Reclamation
  - » Land Reclamation Grading and Drainage
  - » Subsurface Investigation,
  - » Aquifer Degradation Evaluation,
  - » Waterline Design
  - » Acid Mine Drainage
- Geotechnical Investigations
- Wetland Design
- Water Distribution, Pumping and Storage
- Surveying and Mapping
- Construction Management
- Earthen Dams
- Wastewater Collection and Treatment
- Sanitary and Industrial Landfill
- Commercial Site Development
- Hazardous Waste Site Development
- Hazardous Waste Tank Certification
- Residential Development
- Wireless Communications

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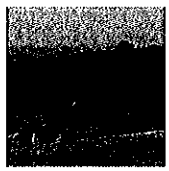
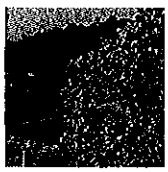

TIMOTHY B. CART, P.E., P.S.

PROJECT ENGINEER

Education
B.S. in Civil Engineering, West Virginia University, 1981

Registrations
Registered Professional Engineer in West Virginia and Ohio
Registered Professional Surveyor in West Virginia

Professional Memberships
American Society of Civil Engineers

Professional Experience
Mr. Cart has over 25 years of experience in providing consulting engineering services. Clients served have included Industrial, Public and Private Institutions and State and Federal Agencies.

Mr. Cart has served as Project Engineer on numerous geotechnical investigations over the years. These projects have included highways, bridges, industrial sites and private development.

He has designed numerous waterline extensions and sewer collection systems. These extensions have included providing service to many residential as well as industrial customers. The sewer collection systems have included design of systems to collect sewage from residential and industrial sites. Mr. Cart served as a project engineer on several major waste water treatment plant upgrades for industrial clients in the Kanawha Valley. He has designed several plants to serve industrial as well.

Mr. Cart has performed over 100 Abandoned Mine Land Reclamations projects throughout Appalachia. These projects have been mainly in Ohio, West Virginia and Eastern Kentucky. These projects have involved draining flooded mine workings, support of ground experiencing or subject to Mine subsidence and the stabilization of landslides.

Mr. Cart has designed numerous retention and retaining ponds for sites. These designs have involved the determination of storm runoff and design of structures to safely retain and pass the required storm peak flows.

His experience includes permitting activities for projects which have included:

- Railroad Occupancy Permits for Utilities
- NPDES Permits for Industrial and Public Wastewater Facilities
- Highway Permits for Utility Occupancy and Access Road Tie Ins
- Health Department Permits for Water and Sewer Projects
- US Corps of Engineers Permits – Nationwide and Individual
- West Virginia Public Lands Permits

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JOHN R. KELLY, II, E.I.

PROJECT DESIGNER

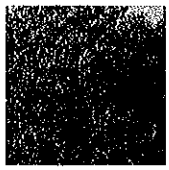
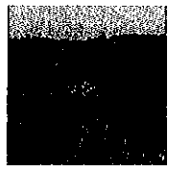
Education
B.S. in Civil Engineering, West Virginia University, 1998

Computer Skills
AutoCAD, Microstation, COM624-P, Inroads, Hec-Ras and ELRSoil

Professional Memberships
American Society of Civil Engineers

Professional Experience
Mr. Kelly has performed layout and inspection of core drilling operations for bridge and roadway projects. He has also designed numerous mine reclamation projects, as well as water feasibility studies. Mr. Kelly has performed construction inspections of waste water treatment facilities and has experience with roadway design, foundation design and retaining walls.

Representative Projects
Mr. Kelly has designed cut slopes for large scale roadway projects including Kermit Bypass, Mingo County, WV; Meadowbrook Road, Harrison County, WV; US 35, Mason County, WV and Corridor H, Section 7, Hardy County, WV.

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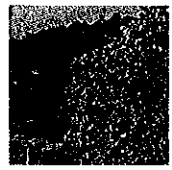


RANDALL L. LACKEY, P.E.

PROJECT ENGINEER

Education
B.S. in Civil Engineering, West Virginia University Institute of Technology, 1999

Registrations
Registered Professional Engineer in West Virginia, Ohio and Kentucky

Professional Memberships
American Society of Civil Engineers
Society of American Military Engineers

Computer Skills
C++, AutoCAD, MathCAD, Microstation, MS Excel, MS Word, MS Project, MS PowerPoint, Windows, MDS, MERLIN, BRASS Systems, SIMON, HEC-RAS, RC Pier and HY8

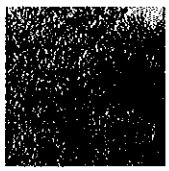
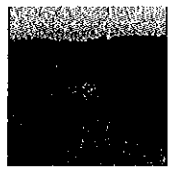
Professional Experience
Prior to joining E.L. Robinson Engineering Co., Mr. Lackey worked with the West Virginia Division of Highways as an Engineering Co-op Technician. As part of his co-op experiences, he performed calculations for steel, flowrate and roadway. He performed roadway and guardrail design and construction inspection for bridge and roadway projects.

Representative Projects
Mr. Lackey was intricately involved in the hydraulic design process of the Blennerhassett Island Bridge Project, which connects West Virginia to Ohio, as well as spans the Ohio River and Blennerhassett Island. Included in this project are the following: preparation of flood plain analysis for existing, temporary and various post construction conditions, scour analysis using FHWA approved publications, analyzing the affects that debris flow will have on the bridge and Blennerhassett Island and studying the potential for lateral channel migration and understanding the affects the migration would have on the design on the bridge substructure.

Mr. Lackey has also been involved with the hydraulic design process of the Corridor H South Branch of the Potomac River Bridge. Included in this project are the following: preparation of flood plain analysis for existing, temporary and various post construction conditions, scour analysis using FHWA approved publications, analyzing the affects that debris flow will have on the bridge, studying the affects the proposed conditions will have on the town of Moorefield, WV, flood level and studying the potential for lateral channel migration and understanding the affects the migration would have on the design on the bridge substructure.

Mr. Lackey has also performed hydraulics and scour computations for Ripley Town Bridge, Jackson Bridge, Beaver Creek Bridge, Walnut Bottom Bridge, Tallman Bridge, Meadowbrook Road Bridge, Simpson Creek Bridge, Kermit Bypass Bridges and culverts, Left Hand Fork Bridge and Corridor H Bridges over Walnut Bottom Run and an unnamed tributary.

Mr. Lackey has prepared Section 404 permitting analysis and paperwork for Ripley Town Bridge, Simpson Creek Bridge, Meadowbrook Road Bridge and the Left Hand Fork Bridge. Along with this work, Mr. Lackey has prepared CLOMR analysis and documentation for Horseshoe Village Subdivision and for The Ohio State University Medical Center's two proposed bridges that connect the University with OH SR 314 over Olentangy River.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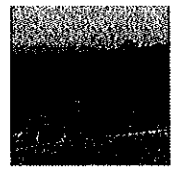
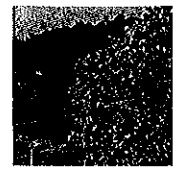



MARK A. MCGETTIGAN, P.E.

PROJECT MANAGER

Education
M.S.E. in Engineering Management/Environmental Engineering, Marshall University, 2007
B.S. in Civil Engineering Technology, Fairmont State College, 1999

Registrations
Registered Professional Engineer in West Virginia

Professional Memberships
American Society of Civil Engineers

Professional Experience
Successfully worked on and managed numerous Phase I and II ground water quality investigations and feasibility studies for the West Virginia Department of Environmental Protection.

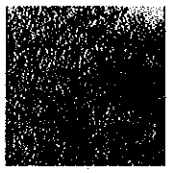
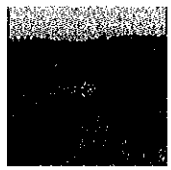
Mr. McGettigan has taken several large water and wastewater projects from the initial development phase through the construction phase. This includes writing the preliminary engineering report, developing funding scenarios, designing the system, developing the plans and specifications, developing the bid documents/overseeing the bid process and managing the construction inspection.

Developed specifications and managed construction inspection for land development and utility construction projects.

Representative Projects

Mr. McGettigan has been the design engineer on the following projects:

- **Delbarton Sewer Line Replacement project.** Worked on all phases of the project including preliminary design, permits, specifications, etc.
- **Town of Pax Waterline Relocation project**. Designed and managed project through construction phase.
- **Glen Rogers Waterline Extension project for WVDEP-AML.** Worked on design, hydraulics, permits, specifications, etc.
- **Charles Pointe North Landbay Phase I Infrastructure project.** Developed specifications and managed construction inspection for this commercial land development project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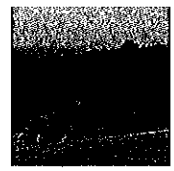
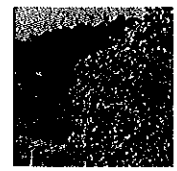

JAMES T. RAYBURN, P.S.

CHIEF SURVEYOR

Education
A.S. in Mechanical Engineering, West Virginia Institute of Technology, 1970

Registrations
Registered Professional Surveyor in West Virginia

Professional Memberships
American Congress on Surveying and Mapping
The American Association for Geodetic Surveying (AAGS), a Member Organization of ACSM
Cartography and Geographic Information Society (CaGIS)
Geographic and Land Information Society (GLIS)
National Society of Professional Surveyors (NSPS)
West Virginia Association of Land Surveyors, Inc.

Professional Experience
Mr. Rayburn currently serves as Manager of Surveying for E.L. Robinson Engineering (ELR) and has more than 30 years of Design Surveying and Construction Surveying experience. The responsibilities include management of surveying and control for various design projects, including highways, buildings, and bridges. In addition, Mr. Rayburn manages and performs work consisting of courthouse research for property ownership resolution for the above mentioned project types. This includes preparation of property resolution maps, deed descriptions for property acquisitions required for project plan preparation. Mr. Rayburn has experience in Geodetic Control Surveys, 3D Laser Scanning, Photogrammetric Control, Topographic Surveys, Cemetery Surveys, Boundary Surveys, Construction Stakeout, Subdivision Surveys, along with Hydrographic surveys of river and lake bottoms. A few of the more notable surveying projects performed by ELR under the supervision of Mr. Rayburn, has been the Blennerhassett Bridge Project, 11 continuous miles of Corridor H design surveys, GPS Control for the West Virginia Statewide Mapping and Addressing Board Project, 3D Laser Scan and mapping of the CAMC Parking Garage partial collapse, and 3D Laser Scanning of I64/I77 Retaining Wall for Monitoring.

Representative Projects

Design Surveys

- **Corridor H (WVDOT) Hardy County, WV:** Lead Surveyor for Design Surveys, Right of Way Staking, etc. for approximately 11 miles of Corridor H in Hardy County, WV. This was for Sections 6 & 7 of Corridor H, both Sections of which are now under construction. Estimated construction cost of $150 million dollars.
- **WV Route 10 (WVDOT) Logan to Man WV, Logan County, WV:** Lead Surveyor for Design Surveys for a section approximately five miles in length from Man, WV, to Rita, WV, including the Man Bridge. Also provided control surveying for the entire project length of approximately 12 miles. The approximate five miles section of roadway is now under construction at an estimated cost of $51 million dollars.
- **Blennerhassett Bridge, Corridor D (WVDOT), Wood County, WV:** Lead Surveyor for Design Surveys for this landmark Bridge Project which is now under construction at an estimated cost of $120 million dollars.
- **James Ramsey Bridge (WVDOT) Potomac River, Shepardstown, WV:** Lead Surveyor for Design Surveys for this Bridge Project which is now completed at an estimated cost $15.5 million dollars. This project involved working in an environmentally historic area, which adjoined a National Park.

JAMES T. RAYBURN, P.S.

CHIEF SURVEYOR

- **US Route 35 (WVDOT) Mason County, WV:** Lead Surveyor for Design Surveys for two Design Sections each approximately 2.5 miles in length from Lower Five Mile Road to Upper Nine Mile Road. Also provided control surveying for the entire US 35 design project length of approximately 22 miles.
- **I64/US 35 (WVDOT) I64 to US 34 Crooked Creek, Putnam County, WV:** Lead Surveyor for Design Surveys, Right of Way Staking, etc. for approximately four miles of US 35 including Interstate 64 Ramps and Flyovers in Putnam County, WV. This included the I64 Bridges and Flyovers, which is now under construction.
- **ATB-Parrish Road (ODOT) Ashtabula County, Ohio:** Project Design Surveyor for rail grade separation project. Project involved roadway realignment, 900' new bridge, new waterline, storm and sanitary sewers. Project is currently under construction. Estimated construction cost: $8.6 million.
- **PIC-23-3.21 and Various (ODOT) Pickaway County, Ohio:** Project Design Surveyor for ODOT Project PIC-23-3.21 and Various. Project involves deck replacements along 11 miles of US 23 in Pickaway County. Project includes large diameter culvert liner, interchange upgrade that includes mainline profile correction, ramp reconstruction, and addition of barrier wall and storm drainage. Project is currently under design (90%). Project scheduled for construction in 2007. Estimated construction cost: $12 million.
- **ATB-90-22.06 (ODOT) Ashtabula County, Ohio:** Project Design Surveyor for Interstate Reconstruction Project. Project includes total pavement replacement, bridge widening, and contra – crossover maintenance of traffic, culvert replacements and storm sewer rehabilitation and sign replacements. Project is currently under design (50%) and scheduled for construction in 2011. Estimated construction cost: $36 million.

Construction Surveys

- **Corridor D (WVDOT) Wood County, WV:** Lead Surveyor for Highway/Bridge Construction Monitoring surveys for the following segments of Corridor D and related relocation projects:
  - » Godbey Athletic Field Relocation Construction
  - » Godbey Colt Field and Soccer Field Construction
  - » West WV 47-East WV 47 Highway/Bridge Construction
  - » East Buckeye-West Little Kanawha River Highway/Bridge Construction
- **Interstate I-79 Widening and Median Barrier (WVDOT) Harrison County, WV:** Lead Surveyor for construction layout surveys for the widening of I-79 from the Meadowbrook Exit, north to the Jerry Dove Exit approximately three miles in length, as a subcontractor to the prime contractor.
- **CAMC 33rd Street Relocation and Building Expansion, Charleston, WV:** Lead Surveyor for construction layout surveys for 33rd Street relocation along with ancillary items including sidewalks, drainage and utilities. Also layout surveys for building expansion project.
- **Saturn Dealership, Hurricane, WV:** Lead Surveyor for Saturn Dealership site development and access roads at Hurricane Interchange of Interstate 64.
- **Arch Coal WV Mining Operations:** Lead Surveyor as a subcontractor to Arch Coal operations for Valley Fill Construction (Up to 27 million cubic yard fills), mine haul road layout, drill line staking, and dragline pit layout.

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RONALD L. WILLIAMS, II

SURVEYOR/INSPECTOR

Education
Graduate, Sissonville High School, 1978

Professional Experience
Mr. Williams has been employed at E.L. Robinson since 1978. Mr. Williams has had primary responsibility for the inspection of water, wastewater, and gasline construction and drilling projects.

Waterline projects he has inspected include: Cooper's Creek, Oak Hill, Uneeda/Quinland, Town of Danville, Southern PSC, South Putnam PSD, Kanawha Orchard PSD, Webster County Commission, Kanawha County's 1997 Water Extension projects and most recently RDA 1999 water extension projects.

He has also inspected the construction of sanitary sewer installation for the City of Charleston, Greater St. Albans PSD and the South Putnam PSD.

Mr. Williams has inspected the construction of storm sewers for the City of Charleston and the City of Parkersburg. He has also inspected the relocation of gas lines for the Southern PSC and Consumer's Gas.

Mr. Williams has been involved both as a surveyor and inspector on all major projects performed by E.L. Robinson. Mr. Williams has performed extensive courthouse research on numerous survey projects and is responsible for the field work associated with the AML projects.

Representative Projects
Mr. Williams has worked on the following projects:

- Sewer Installation for the City of Gilbert
- Sewer Installation for the City of Weston
- Highway Construction Inspection on Corridor D in Parkersburg, WV

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MICHAEL HODGES

INSPECTOR/TECHNICIAN

Education
B.A. in Finance, Marshall University, 1995

Completed right-of-way acquisition seminar while employed by E.L. Robinson Engineering Co.

Certifications
Certified WVDOH Compaction Technician
Certified WVDOH Aggregate Inspector
ACI Concrete Technician
Certified Water Sample Collector

Professional Experience
Mr. Hodges has been with E.L. Robinson Engineering Co. since graduating from Marshall University. While in school, he worked on E.L. Robinson Engineering Co.'s survey crew during the summer months and on E.L. Robinson's DEP projects during school breaks.

Mr. Hodges has experience running total stations on several surveys in regards to highways, roads and bridges, property lines, boundary surveys, topographic surveys, utility surveys and subdivision lots. He has experience running GPS units for aerial mapping and topographic surveys.

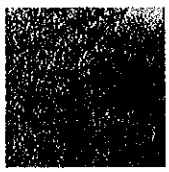
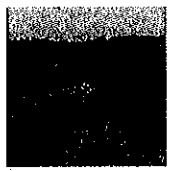
Representative Projects
Mr. Hodges has performed construction inspections on the following projects:

Putnam County Sewer line at I-64 Interchange; Pigeon Creek Waterline for DEP in Mingo County; 18 Mile Creek Waterline for Putnam County Commission, West Virginia American Water Company and Coolridge PSD Waterline.

In 1998, he inspected a $1 million waterline project in Kanawha County. In addition, he has extensive experience in pipe laying and working with heavy machinery.

Mr. Hodges has inspected bridge construction, including core drilling, pile driving, rebar placement and concrete pours. He has inspected cut and fill operations, including compaction tests and has checked grade work and asphalt placement. Mr. Hodges has also inspected utility and lighting placement and erosion and sediment control projects as required by the WVDEP. He has been involved in the inspection of at least seven bridges on the Corridor D project.

Mr. Hodges has been the inspector on the Charles Pointe project in Bridgeport, West Virginia. He has performed the inspection of infrastructure for a business park including utilities, roads, lighting, sidewalks, curbs, gutters, asphalt and landscaping.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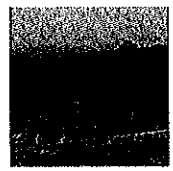
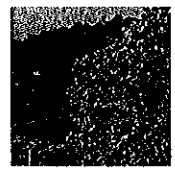

19 Project Specific Qualifications

Mr. Gary Facemyer, P.E., will be the Project Manager/Project Engineer for this project. Mr. John Kelly, II, E.I., will be the CAD designer and Jason Mayes will provide CAD support. Mr. Kelly has been a part of nearly all of the reclamation projects completed by ELR in the past eight years. He had primary design responsibility for the recent Gilmer B Site 3-8 and Rhodell Refuse and Portals projects for AML. Those two projects are in the comment revisions phase. He has started the Jacobs Fork Complex project whose preliminary design documents are due in early November. Support staff includes Tim Carte, P.E. for mining and geotechnical engineering; and Jason Mayes for drafting and design. The subject project will fit well with the current workload that will be completed by the time a purchase order is issued for the subject project. The work will be done out of the Charleston office of ELR.

In addition to the above senior staff to perform the requested work, it is important to note the following information about ELR's overall qualifications to perform the work:

A. ELR has 10 registered professional engineers (civil or mining) and four engineers in training as well as several CADD technicians that may be used on these teams. We have recently hired two additional CADD technicians to enhance our capabilities and we have hired the entire staff from Ackenheil Engineers.

B. ELR has recent experience in designing more than 40 abandoned mine land remediation projects. This does not include the projects that I, Tim Carte and the Ackenheil staff have been responsible for prior to joining ELR. This number does not include water studies/design or surveying/mapping/drilling projects.

C. ELR has five reclamation design teams lead by myself and other professional engineers.

- Gary Facemyer, P.E./John Kelly/Jason Mayes
- Gary Facemyer, P.E./Rich Watts/Gary Workman/Scott Pratt
- Tim Carte, P.E./Ivan Gillespie
- Mark McGettigan, P.E./Joey Jude
- Brian Morton, P.E./Shawn Kelly

AML Awarded Project Experience Matrix

Attachment C

PROJECT	Experience Basis - Corporate-C Personal-P	Additional Information in Section	PROJECT EXPERIENCE															Primary Staff Participation by Project							
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrological/Hydraulic Design/Eval.	Reming Evaluation	Mine/Refuse Pile Abatement	Subsidence Investigation/Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Ed Robinson, P.E.	Gary Facemyer, P.E.	Tim Carl, P.E.	Richard W. Watts, P.G.	Mark McGettigan, P.E.	John Kelly, E.I.	Scott A. Pratt, Geologist	Gary A. Workman, CADD
Jacob's Fork Complex	C	YES		X	X	X					X					X	X	M	P	P		P	P		
Rhodell Refuse & Portals	C	YES		X	X	X					X					X	X	M	P	P		P	P		
Gilmer B Sites 3-8	C	YES		X	X	X					X					X	X	M	P	P		P	P		
Morrisvale/Carnes/Big Horse Creek Waterline Feasibility Study	C	YES										X						M	P	P		P	P		
Camp Creek Waterline Feasibility Study	C	YES										X						M		P		P	P		
Lick Creek Waterline Feasibility Study	C	YES										X						M		P		P	P		
Ragland Waterline Feasibility Study	C	YES										X						M		P		P	P		
Beech Creek and Ben II Waterline Feasibility Study	C	YES										X						M		P		P	P		
Dingess Waterline Feasibility Study	C	YES										X						M		P		P	P		
Sharon Heights Waterline Feasibility Study	C	YES										X						M		P		P			
Amhestdale Water Feasibility	C	YES										X						M		P		P	P		
Mercer County Commission	C	YES										X						M		P		P	P		
Danese PSD Waterline	C	YES										X						M		P		P	P		
New Haven Waterline	C	YES										X						M		P		P	P		
Nubbin Ridge/Camp Creek Waterline Feasibility Study	C	YES										X						M		P		P			
Bramwell Hill Waterline Feasibility Study	C	YES										X						M		P		P	P		
Coaldale and Coaldale Mountain Waterline Feasibility Study	C	YES										X						M		P		P	P		
Jennie Creek Waterline Feasibility Study	C	YES										X						M		P		P			
Beech Creek and Ben Areas Waterline Feasibility Study	C	YES										X						M		P		P	P		
Blair/Sharples Area Waterline Feasibility Study	C	YES										X						M		P		P	P		
Brown's Creek #10	C	YES	X	X	X	X	X				X				X	X	X	M		P					
Bull Run #35	C	YES	X	X	X	X	X				X	X		X	X	X	X	M		P			P		
Seccuro Mine Drainage	C	YES		X	X	X					X							M		P			P		
Fickey Run	C	YES	X	X	X	X	X				X	X		X		X		M		P			P		
Ven's Run	C	YES	X			X					X						X	M		P			P		
Bull Run #27	C	YES	X	X	X	X	X				X	X		X		X	X	M		P		P	P		
Riffe Branch	C	YES	X	X	X	X	X				X					X	X	M		P			P		
Hot Coal	C	YES		X	X	X	X				X					X	X	M		P		P	P		
Minden Refuse Pile	C	YES		X		X					X					X		M		P		P	P		
Jeffrey Mine Complex	C	YES		X	X	X	X				X						X	M		P		P	P		
Pigeon Creek Waterline	C	YES				X					X	X	X					M		P			P		
Red Jacket, Matewan, Newtown Waterline	C	YES				X					X	X						M		P		P	P		
Marrowbone Waterline	C	YES				X					X	X	X					M		P		P	P		
Mount Zion Waterline	C	YES				X					X	X						M		P		P	P		

PROJECT	Experience Basis Corporate-C Personal-P	Additional Information in Section	PROJECT EXPERIENCE															Primary Staff Participation						
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrological/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	Geotechnical/Stability	Ed Robinson, P.E.	Gary Facemyer, P.E.	Tim Carr, P.E.	Richard W. Watts, P.G.	Mark McGettigan, P.E.	John Kelly, E.I.	Scott A. Pratt, Geologist	Gary A. Workman, CADD
Coopers Rock, Pisgah, and Laurel Run Waterline	C	YES				X					X	X						M		P		P	P		
Davis Water Tank	C	YES				X					X	X						M		P		P	P		
Whittington Hill (Walker)Slide	C	YES		X	X	X					X						X	M		P					
Maidsville Landslide	C	YES	X								X						X	M		P		P	P		
Rich Fork Landslide	C	YES	X	X							X						X	M		P		P	P		
Tupppers Creek Landslide	C	YES	X	X							X						X	M		P		P	P		
Glen Rogers Waterline	C	YES				X					X	X						M		P		P	P		
Gooney Otter Refuse	C	YES	X	X	X	X	X				X						X	M		P		P	P		
Chapmanville Mine Blowout	C	YES																M		P		P	P		
Charleston Romeo Landslide	C	YES		X	X	X					X						X	M		P		P	P		
Big Creek C Refuse	C	YES		X													X	M		P		P	P		
North Matewan Sipple	C	YES		X	X	X					X						X	M		P		P	P		
Moran Subsidence	C	YES		X					X		X							M		P		P	P		
Lewis Landslide	C	YES		X		X					X		X				X	M		P		P	P		
Roush Landslide	C	YES		X		X					X		X				X	M		P		P	P		
Jefferson 26 Landslide	C	YES		X		X					X						X	M		P		P	P		
Titus Road Landslide	C	YES	X	X		X					X						X	M		P		P	P		
Imboden Landslide	C	YES	X	X													X	M		P		P	P		
Baisden Subsidence	C	YES		X					X									M		P		P	P		
Parsons Landslide	C	YES		X													X	M		P		P	P		
Treadway Landslide	C	YES	X	X		X					X						X	M		P		P	P		
Phalen Landslide	C	YES		X		X					X						X	M		P		P	P		
Adkins Landslide	C	YES	X	X		X					X						X	M		P		P	P		
Goetz Subsidence	C	YES		X					X									M					P		
Lavender Refuse Fire	C	YES		X				X			X		X					M					P		
Cox Refus Fire	C	YES		X				X			X		X					M					P		
Toney Fork Landslide	C	YES		X		X					X							M		P		P	P		
Athens Rt. 13 Refuse Fire	C	YES		X				X			X		X					M					P		
McAdams Subsidenc Ermer	C	YES		X					X		X							M					P		
Rodgers Subsidence	C	YES		X					X		X		X					M					P		
Brown Landslide	C	YES		X		X					X							M		P		P	P		
Jenkinjones	P	NO		X	X	X					X						X		P						
Stonecoal Creek	P	NO		X	X	X					X						X		P						
Micajah Refuse Pile	P	NO		X	X	X					X						X		P						
Carswell Hollow (Smith) Refus	P	NO		X	X	X					X						X		P						
Cedar Creek Refuse	P	NO		X	X	X					X						X		P						
Spring Branch Burning Refuse	P	NO		X	X	X					X						X		P						
Grass Run Refuse	P	NO		X	X	X					X						X		P						
Black Wolfe Refuse	P	NO		X	X	X					X						X		P						
Lower Burning Creek Refuse	P	NO		X	X	X					X						X		P						
Turner Douglas Complex	P	NO		X	X	X					X						X		P						
Buffalo Creek No. 5 Refuse	P	NO		X	X	X					X						X		P						
Dawmont Mine Facility	P	NO		X	X	X					X						X		P						
Helen Refuse Pile	P	NO		X	X	X					X						X		P						
Gerath Landslide	P	NO		X	X	X					X						X		P						
Tuppers Creek (Layne) Landsli	P	NO		X	X	X					X						X		P						
Linger Clogged Stream	P	NO		X	X	X					X						X		P						
Highland Avenue Drainage	P	NO	X	X	X	X					X	X							P						

AML and RELATED PROJECT EXPERIENCE MATRIX — Attachment "C"

PROJECT	Experience Basis Corporate-C Personal-P	Additional Information in Section	PROJECT EXPERIENCE																Primary Staff Participation Matrix							
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrological/Hydraulic Design/Anal	Remining Evaluation	Mine/Refuse Fire Abatement/It	Subsidence Investigation/ Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Ed Robinson, P.E.	Gary Facemyer, P.E.	Tim Carr, P.E.	Richard W. Wells, P.G.	Mark McGettigan, P.E.	John Kelly, E.I.	Scott A. Pratt, Geologist	Gary A. Workman, CADD
North View Mine Drainage	P	NO	X	X	X	X					X	X							P							
Camp Mahonegan Surface Min	P	NO	X	X	X	X					X	X		X					P							
Allen AMD	P	NO	X	X	X	X					X	X							P							
Upshur County Rt. 10/15 AMD	P	NO	X	X	X	X					X	X							P							
Birch River PSD	P	NO										X							P							
McMillons Cr. Hookersville, Mu	P	NO										X							P							
Spring Fork	P	NO										X							P							
Upper Winifrede	P	NO										X							P							
Olcott	P	NO										X							P							
Witcher Creek	P	NO										X							P							
Sanderson/Dutch Ridge	P	NO										X							P							
Widen	P	NO										X							P							
Town Run Area	P	NO										X							P							
Freemansburg Area	P	NO										X							P							
Pond Gap, Hitop & Spangler	P	NO										X							P							
Brushy Fork, Spawlick & Arnold	P	NO										X							P							
Elk City	P	NO										X							P							
Town Run	P	NO										X							P							
Witcher Creek	P	NO										X							P							
Pond Gap, Hitop & Spangler	P	NO										X							P							
Elk City	P	NO										X							P							
Little Fork Refuse Pile	P			X		X	X	X								X	X			P						
OSM-Tackett Fork	P		X	X	X	X											X			P						
OSM-Ironton	P			X		X											X			P						
OSM-Williamson LS	P			X		X							X				X			P						
OSM-Ray Landslide	P			X													X			P						
OSM-Spence Landslide	P			X		X											X			P						
OSM-Ratliff Landslide	P			X		X											X			P						
OSM-Pigeon Roost LS	P			X		X											X			P						
OSM-Oak Hill Subsidence	P			X	X	X			X		X						X			P						
OSM-Little Prater Creek	P			X		X														P						
OSM-Hamilton II Landslide	P			X		X											X			P						
West Varney Drainage	P			X		X											X			P						
Airport Bottom	P			X		X											X			P						
Lando Mines	P			X		X											X			P						
Manilla Creek B	P		X	X	X	X											X			P						
Bluff Mountain	P		X	X	X	X											X			P						
Elkridge Powellton	P		X	X	X	X											X			P						
Bethel Portals	P			X	X	X											X			P						
Tuppers Creek B	P		X	X	X	X											X			P						
Mammoth Toler	P		X	X	X	X											X			P						
Cheyenne BF	P		X			X											X			P						
Mudlick A&B	P		X	X		X											X			P						
Mayoros Drainage	P			X	X												X			P						
Montgomery Drainage	P			X		X											X			P						
Big Sandy Refuse	P			X		X											X			P						
Ridgeview	P			X	X	X											X			P						
Marfrance Complex	P			X	X	X											X			P						
New Hill Ballpark Drainage	P		X			X											X			P						

PROJECT	Experience Basis Corporate - C Personal - P	Additional Information in Section	PROJECT EXPERIENCE															Primary Staff Participation (Name)						
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrological/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	Geotechnical/Stability	Ed Robinson, P.E.	Gary Facemyer, P.E.	Tim Carr, P.E.	Richard W. Wallis, P.G.	Mark McGettigan, P.E.	John Kelly, E.I.	Scott A. Pratt, Geologist	Gary A. Workman, CADD
Jones Run Portal	P			X	X	X											X			P				
Leslie (Nelson)	P	2002	X	X	X	X	X				X	X	X								P			P	P
Swiss Drennan	P	2002										X									P			P	P
Minden C	P	2002	X	X	X	X	X			X	X				X						P			P	P
Weston	P	2002										X									P			P	P
Parkette	P	2002							X			X					X				P			P	P
East Dupont Avenue Landslide	P	2003		X	X	X					X						X				P			P	P
Skin Creek Phase II	P	2003	X			X					X				X	X	X				P			P	P
Witcher Creek	P	2001		X	X	X					X		X				X				P			P	P
Crane Creek	P	2004	X		X	X	X				X	X				X	X				P			P	P
Yoursco	P	2004	X	X	X							X									P			P	P
Carswell	P	2004	X			X	X				X		X		X	X	X				P			P	P
Craigmoor	P	2004				X					X		X				X				P			P	P
Downey Pierpont	P	2006							X								X				P			P	P
Ames (Clare) Landslide	P	2007		X							X						X				P			P	P
Lorado	P	1995	X	X	X	X					X	X			X		X				P				P
Madeline Refuse	P	1995	X	X	X	X	X			X	X				X	X	X				P				P
Rocklick	P	1995	X	X	X	X					X						X				P				P
Wahoo	P	1996	X			X	X	X			X				X		X				P				P
Meadowbrook	P	1996	X	X	X	X	X				X	X			X		X				P				P
Jumping Branch	P	1996										X									P				P
Beard's Fork	P	1997	X	X	X	X	X	X		X	X				X						P				P
Turkey Wallow	P	1997	X	X	X	X	X	X			X						X				P				P
Otsego	P	1997	X	X	X	X	X				X				X		X				P				P
Miller	P	1997	X	X	X	X					X	X									P				P
Whitby	P	1998	X	X	X	X					X	X		X	X	X	X				P				P
Barker	P	1999	X	X	X	X					X	X									P			P	P
Gauley River Road	P	1999										X									P			P	P
Skin Creek	P	2000	X	X	X	X	X				X	X			X	X	X				P			P	P
Jolo	P	2001										X									P			P	P
Tioga	P	2001										X									P			P	P
Turkey Gap	P	2001	X	X	X	X					X				X	X								P	P
Big Sandy	P	1987	X			X		X			X				X						P				
Marfrance	P	1988	X	X	X	X					X	X									P				
New Hill Ballpark	P	1988	X	X	X	X	X				X	X									P				
Jones Run	P	1988	X	X	X	X			X		X	X			X		X				P				
Chapmanville Landslide	P	1989		X	X	X					X						X				P				P
Whamcliff Landslide	P	1989		X	X	X					X						X				P				P
Joyce Stump	P	1990		X	X	X					X	X		X							P				P
Marianna Refuse	P	1991	X			X	X				X										P				P
Cedar Grove	P	1991		X	X	X					X	X		X			X				P				P
Eskdale	P	1991		X	X	X					X			X	X						P				P
Hodgesville	P	1991	X	X	X	X					X	X		X			X				P				P
Newsome Branch	P	1992	X	X	X	X	X				X				X		X				P				P
Morrison	P	1992		X	X	X					X	X					X				P				P
Snake Island	P	1993	X			X	X	X			X				X	X									
Orchard Branch	P	1994	X	X	X	X	X				X	X		X			X				P				P
Beckley Layne	P	1994		X	X	X					X	X					X				P				P
Quinwood Booth	P	1994		X	X	X			X		X	X									P				P
Little Fork	P	1983	X	X	X	X	X	X			X					X	X				P				

AMEC E&C PROJECT EXPERIENCE MATRIX — Attachment "C"

PROJECT	Experience Basis Corporate-C Personal-P	Additional Information in Section	PROJECT EXPERIENCE																Primary Staff Participation Matrix							
			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	Geotechnical/Stability	Ed Robinson, P.E.	Gary Facemyer, P.E.	Tim Carr, P.E.	Richard W. Watts, P.G.	Mark McGettigan, P.E.	John Kelly, E.I.	Scott A. Pratt, Geologist	Gary A. Workman, CADD
Elkridge Refuse	P	1984	X	X	X	X	X	X			X				X		X				P				
Lando Mines	P	1984	X	X	X	X					X						X				P				
West Varney	P	1984		X	X	X					X						X				P				
Bethel Portals	P	1985		X	X	X					X	X					X				P				
Mammoth Landslide	P	1985				X					X			X	X		X				P				
Cheyenne	P	1985	X			X					X	X		X	X		X				P				
Mudlick A Landslide	P	1985	X		X	X					X	X				X	X				P				
Nelson Landslide	P	1985	X	X							X						X				P				
Mudlick B Refuse	P	1985	X	X	X	X	X				X				X	X	X				P				
Bluff Mountain	P	1985	X	X	X	X	X				X	X			X	X	X				P				
Montgomery Drainage	P	1986		X	X	X					X			X			X				P				
Mayoros Drainage	P	1986		X	X	X					X	X		X							P				
Ridgeview A & B	P	1987	X	X	X	X	X	X			X	X		X	X		X				P				
Tupper Valley	P	1987	X	X	X	X					X	X		X			X				P				
Airport Bottom	P	1987		X	X	X					X	X									P				
Manilla Creek	P	1987	X	X	X	X	X				X	X		X	X		X				P				

RFQ No. DEP 14535

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

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

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

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

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

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

Vendor's Name: E.L. Robinson Engineering Co.

Authorized Signature: Gary Faceny Date: 1/15/2009