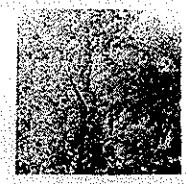
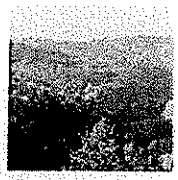



Expression of Interest
May 7, 2009


DEP14622
Pines Country Club
Subsidence Design

Professional Engineering Design
and Construction Monitoring Services

E.L.ROBINSON
the Challenge. the Choice.™

RECEIVED
2009 MAY -7 AM 9:09
WV PURCHASING
DIVISION

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

E.L.ROBINSON
the Challenge. the Choice.™

May 7, 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: Pines Country Club (Ponds) Subsidence Design
DEP14622
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 Belington Portals & Drainage Design project located in Monongalia County.

We have completed plans and specifications for numerous reclamation and waterline projects for WVDEP/AML over 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 serve as the project manager for this project. As you know, I have served as Project Manager/Project Engineer on many AML projects for more than 20 years and will continue to provide expertise on projects in both management and engineering roles. ELR has very recently added a highly qualified design staff from Ackenheil. The ELR staff has 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), two (2) Landscape architects, four (4) engineers in training as well as several CADD technicians that may be used on these teams.

B. Recent experience in designing more than forty (40) abandoned mine land remediation projects. This does not include the projects that 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.

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

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:

Timothy B. Cart, P.E.
Project Manager

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
DEP14622	1

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

VENDOR
RFQ COPY
TYPE NAME/ADDRESS HERE
E.L. ROBINSON ENGINEERING CO.
5088 WASHINGTON STREET W.
CROSS LANES, WV 25313

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
04/02/2009				

BID OPENING DATE: 05/07/2009 BID OPENING TIME 01:30PM

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

PINES COUNTRY CLUB (PONDS) SUBS. 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 PINES COUNTRY CLUB (PONDS) SUBS. PROJECT IN MONONGALIA COUNTY, WV, 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.

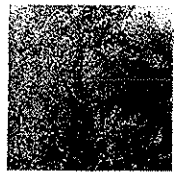
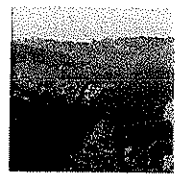
****** THIS IS THE END OF RFQ DEP14622 ****** TOTAL:

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE [signature] TELEPHONE (304) 776-7473 DATE 5/5/09

TITLE PROJECT MANAGER FEIN 55-059-4633 ADDRESS CHANGES TO BE NOTED ABOVE

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

E.L.ROBINSON
the Challenge. the Choice.™

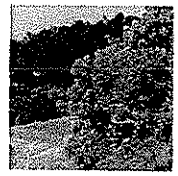
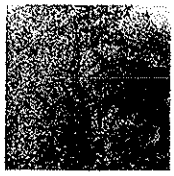
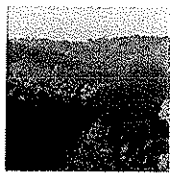
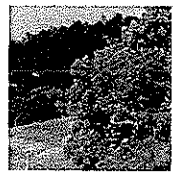



TABLE OF CONTENTS



E.L.ROBINSON
the Challenge. the Choice.™



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

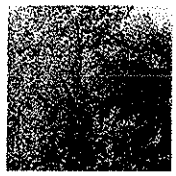
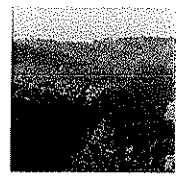
E.L. Robinson Engineering Co. fully understands the requirements for this project and is committed to giving the WVDEP/ Office of Abandoned Mine Lands and Reclamation the time and attention that is necessary for the reclamation project. Professional services may include: civil; structural; geological; 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.

E.L.ROBINSON
the Challenge. the Choice.™


PROJECT APPROACH

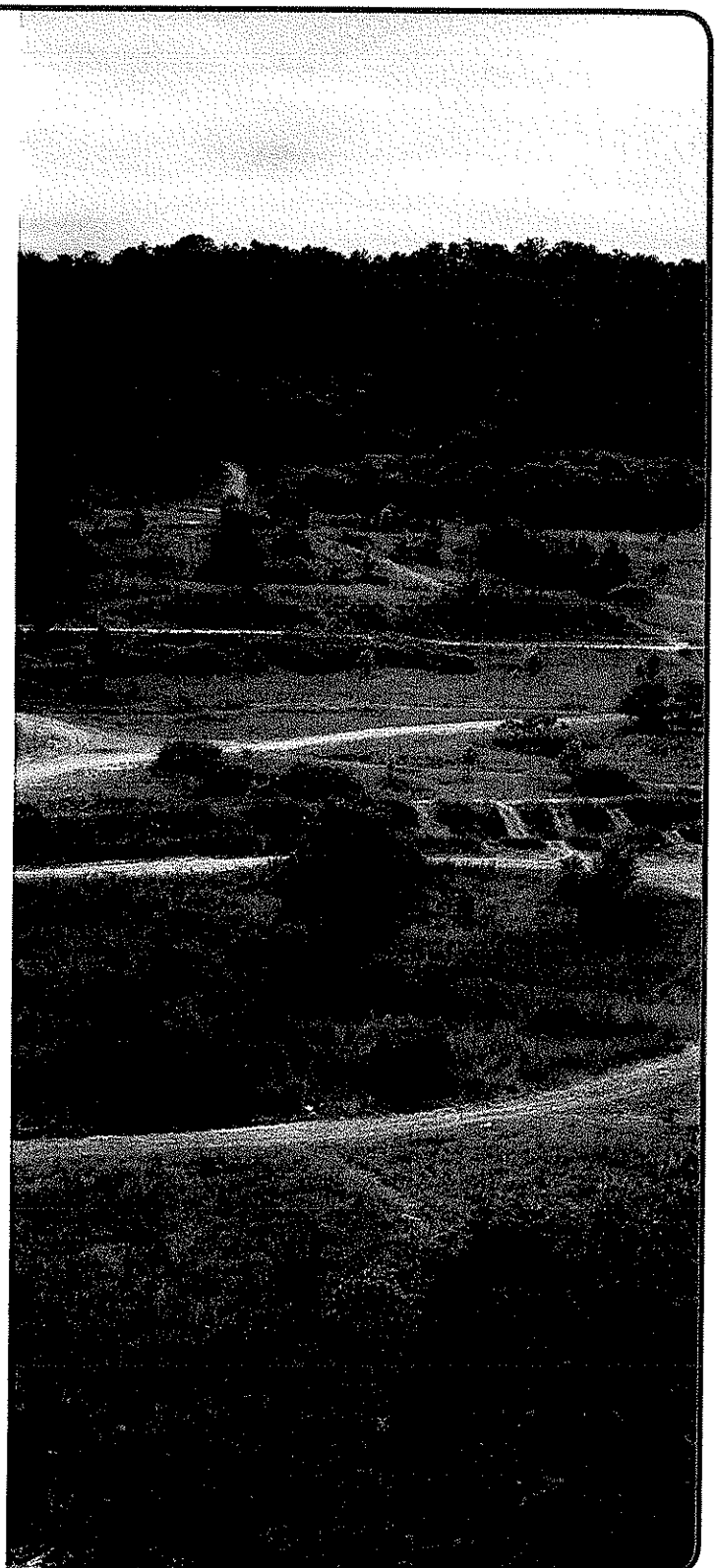
E.L. Robinson is familiar with the project area and the type of project for which you are seeking engineering services. We believe that we have a thorough understanding of the work to be provided to the WVDEP/AML for the subject reclamation project.

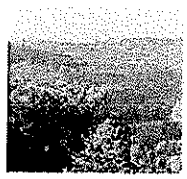
We are anxious to become an extension of your staff by providing prompt planning, design and construction monitoring services as needed. We interact with the various review and permitting agencies. As you will see from our resumes, we are uniquely diversified to provide quality engineering services to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





E.L.ROBINSON
the Challenge. the Choice.™

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. Tim Cart, P.E. will be assigned as the Project Manager.

Mr. John Kelly, II, E.I. & Mr. Gary Workman. will be assigned the CADD designers and principal production persons for the project. They have performed this role for numerous mine reclamation projects.

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

Mr. Rich Watts will be assigned as the projects Geologist and has completed over 50 projects with the DEP.

Mr. Jeff Nelsen, RLA, & Mr. Dan Akers, ASLA will be assigned as the projects Landscape Architects and have over 40 years of combined experience.

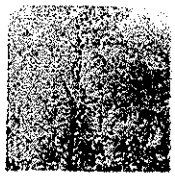
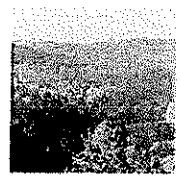
Mr. James Rayburn, P.S. will be assigned to oversee all surveying and mapping activities.

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.



E.L.ROBINSON
the Challenge. the Choice.

Our Project Team

WVDEP
Abandoned Mine Lands and Reclamation

QA/QC
Ed Robinson, P.E., P.S.

Geologists
Rich Watts

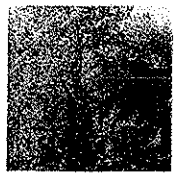
Project Manager
Tim Cart, P.E.

Landscape Architects
Jeff Nelsen, RLA
Dan Akers, ASLA

Engineering
Randall Lackey, P.E.
Mark McGettigan, P.E.
Brian Morton, P.E.

CAD Designers
John Kelly, II, E.I.
Gary Workman

Surveying Mapping
Tom Rayburn, P.S.
Josh Rayburn




E.L.ROBINSON
the Challenge. the Choice.™

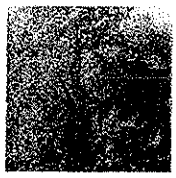
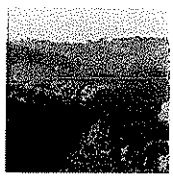

Our Capabilities

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, landscape architects, geologist, 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.

E.L. ROBINSON
the Challenge. the Choice.™


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:

- **East Bank (Willis) Mine Blowout – Currently Under Construction**
- **Jacob's Fork Complex – Currently Under Construction**
- **Rhodell Refuse and Portals – Currently Under Construction**
- **Gilmer B Sites 3-8 – Currently Under Construction**
- **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 QUALIFICATION QUESTIONNAIRE Attachment "B"

PROJECT NAME	DATE (DAY, MONTH, YEAR)	FEIN
Pines Country Club (Ponds) Subs. Design DEP 14622	May 7, 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/Tim Cart, P.E./56 Staff in Charleston Office

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	Tim Cart, P.E. Ext 321/ Richard Watts, P.G. Ext 203

9. PERSONNEL BY DISCIPLINE

3. ADMINISTRATIVE	— ECOLOGISTS	2. LANDSCAPE ARCHITECTS	6. STRUCTURAL ENGINEERS
— ARCHITECTS	— ECONOMISTS	— MECHANICAL ENGINEERS	**6. SURVEYORS**
1. BIOLOGIST	— ELECTRICAL ENGINEERS	**1. MINING ENGINEERS**	— TRAFFIC ENGINEERS
14. CADD OPERATORS	— ENVIRONMENTALISTS	— PHOTOGRAMMETRISTS	— OTHER
— CHEMICAL ENGINEERS	— ESTIMATORS	— PLANNERS: URBAN/REGIONAL	
10. CIVIL ENGINEERS	**2. GEOLOGISTS**	— SANITARY ENGINEERS	
10. CONSTRUCTION INSPECTORS	— HISTORIANS	1. SOILS ENGINEERS	
— DESIGNERS	— HYDROLOGISTS	— SPECIFICATION WRITERS	56. TOTAL PERSONNEL
— DRAFTSMEN			

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 X NO

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 AN DDRESS: Novel Geo – Environmental (NGE) 806 B Street, St. Albans, WV	SPECIALTY: Drilling	WORKED WITH BEFORE X YES ___NO
NAME AND ADDRESS: CMA Engineering 5 Riddle Court Morgantown, WV 26505	SPECIALTY: Mechanical/Electrical Engineering	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
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 Land 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 (10) 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	14	28	40

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.

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 American Council of Engineering Companies National Society of Professional Engineers	1975 Civil Engineering Registered in West Virginia and 9 other States 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:
Timothy B. Cart, P.E.	26	28	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)
ASCE	Professional Engineer (1986) WV OH Professional Licensed Surveyor (1995) 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 I	11	11	11

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)

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:
Roberts (Jr.), Charles (Rick) R.	17	17	27

Brief Explanation of Responsibilities

Mr. Roberts has worked on numerous potable water projects in his capacity of Managing Engineer of Logan County PSD and Project Manager at E. L. Robinson Engineering Co. His responsibilities have included project planning, design, bidding, construction administration, construction monitoring and project closeout.

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering/1982/WV Tech

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
AWAA, WVRWA	Professional Engineer, WV, Certified Water Operator, 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:
McGettigan, Mark A. P.E.	7	7	7

Brief Explanation of Responsibilities

- 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.
- Project Manager on numerous 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 technical specifications, developing the bid documents/overseeing the bid process and managing the construction inspection.

EDUCATION (Degree, Year, Specialization)

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

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
ASCE	Professional Engineer/2006/ 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:
Lackey, Randall L. P.E.	3	11	4

Brief Explanation of Responsibilities

Mr. Lackey has successfully worked on several Phase I and II ground water quality investigations and feasibility studies for the West Virginia Department of Environmental Protection and has performed hydraulics and scour for US 35 bridges, Canterbury Bridge, 5 Mile Creek Bridge, 15 Mile Creek Bridge, Ward Bridge, Foster 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 Division of Highways projects and performs QA/QC on all DOH projects with structures.

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering/1999 WVUIT

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
ASCE, SAME (Society of American Military Engineers)	Professional Engineer/2004/ 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:
Garnes J. Todd	5	5	5

Brief Explanation of Responsibilities

Mr. Garnes has experience surveying and providing CAD 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:
Rayburn, Thomas 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. PERS L HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **SPONSIBLE FOR AML PROJECT DESIGN** (Furnish compl data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPEIRENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
LeRose, Scott 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 EXPEIRENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Tilley, Ray 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:
Gwinn, James Eric 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:
Morton, Brian D. P.E.	2	2	10

Brief Explanation of Responsibilities

Mr. Morton has worked on waterline extension projects in Putnam, Kanawha, Wayne, Braxton, Upshur and Fayette Counties. He also has completed numerous waterline relocation projects involving the West Virginia Division of Highways.

Mr. Morton has performed hydrologic and hydraulic calculations for culverts and other drainage structures and highway construction. He has also prepared numerous NPDES permits for construction projects throughout WV.

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering/1998

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
ASCE, AWWA	Professional Engineer/2003/ WV

13. PERS L HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **SPONSIBLE FOR AML PROJECT DESIGN** (Furnish compl data ut 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:
Carney, Joseph T. 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 RELATED DESIGN EXPERIENCE:	YEARS OF AML DESIGN EXPERIENCE:
Workman, Gary A., CADD Senior Technician	20	20	19

Brief Explanation of Responsibilities

Mr. Workman 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 Manager	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. CURR[illegible] ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED [illegible]GINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Coal Mtn./Clear Fork/Nagatuck/East Kermit Waterline Feasibility Study Wyoming County	WVDEP/AML	Waterline Feasibility Study	60,673	95
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. CURR ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATEL GINEER 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: $ 44 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
McAlpin/Roby/Katy Lick Harrison County	Surveying, Mapping, Design	WVDEP/AML	November 2009	180,000	100,000
Hanover/Ikes Fk. Waterline Feasibility Study	Reports	WVDEP/AML	November, 2009	40,000	30,000

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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
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: _____ Title: PROJECT MANAGER

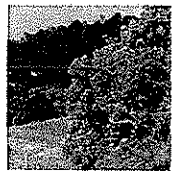
Printed Name: Timothy B. Cart

Date: May 7, 2009

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



E.L.ROBINSON
the Challenge. the Choice.™



12A Abandoned Mine Lands Reclamation Experience

Project:	**East Bank (Willis) Mine Blowout**
	Kanawha County, WV
Year:	2008-2009
Client:	WVDEP-AML
	Charleston, WV
Description:	Field surveying , design work for mine seals, drainage and reclamation, railroad bore and jack.

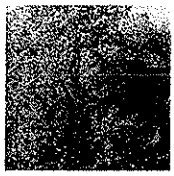
Project:	**Jacob's Fork Complex**
	Boone County, WV
Year:	2008-2009
Client:	WVDEP-AML
	Charleston, WV
Description:	Field surveying and mapping, subsurface investigation, design work for mine seals, drainage and reclamation.

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.

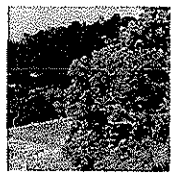
Project:	**Gilmer B Site 3-8**
	Gilmer County, WV
Year:	2008
Client:	WVDEP-AML
	Charleston, WV
Description:	Performed survey, drilling, design for refuse and spoil regarding and mine drainage control.

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.




E.L.ROBINSON
the Challenge. the Choice.™

12A Abandoned Mine Lands Reclamation Experience

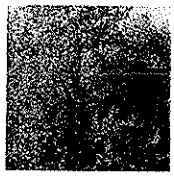
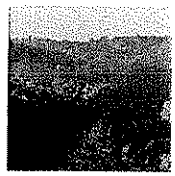
Project:	**Rodgers Subsidence Emergency**
	Wellston, OH
Year:	January 2007
Client:	ODNR-AML
	1855 Fountain Square
	Columbus, OH
Description:	Performed site survey and prepared subsidence abatement design.

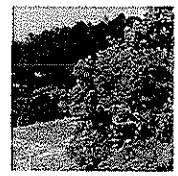
Project:	**McAdams Subsidence Emergency**
	Stark County, OH
Year:	April 2006
Client:	ODNR-AML
	1855 Fountain Square
	Columbus, OH
Description:	Performed investigation and prepared report of findings.

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.



E.L.ROBINSON
the Challenge. the Choice.™



12A Abandoned Mine Lands Reclamation Experience

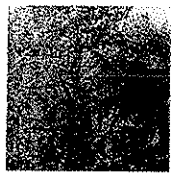
Project:	**Lavender Refuse Fire Emergency**
	Meigs County, OH
Year:	November 2005
Client:	ODNR-AML
	1855 Fountain Square
	Columbus, OH
Description:	Performed abatement plan and monitored construction.

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.



E.L. ROBINSON
the Challenge. the Choice.™

12A Abandoned Mine Lands Reclamation Experience

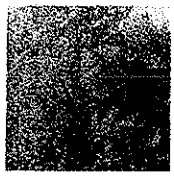
Project: **Baisden Subsidence Emergency**
Jackson, OH
Year: January 2005
Client: ODNR-AML
1855 Fountain Square
Columbus, OH
Description: Performed drilling to develop subsidence abatement solutions.

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.

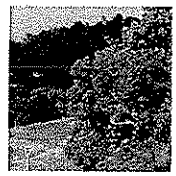
Project: **Big Creek "C" Refuse**
Logan County, WV
Year: July 2004
Client: WVDEP-AML
Description: Performed surveying and drilling for design.

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.



E.L.ROBINSON
the Challenge. the Choice.™



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.

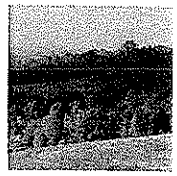
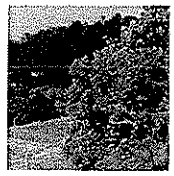
Project: **Charleston Romeo Landslide**
Kanawha County, WV
Year: May 2004
Client: WVDEP-AML
Description: Performed surveying, drilling and design of landslide abatement.

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.


E.L. ROBINSON
the Challenge. the Choice.™

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.

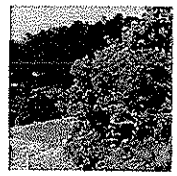
Project:	**Chapmanville (Gorby) Mine Blowout**
	Logan County, WV
Year:	December 2003
Client:	WVDEP-AML
Description:	Performed surveying, drilling and design of landslide regrading and retaining wall design.

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.


E.L.ROBINSON
the Challenge. the Choice.™

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.

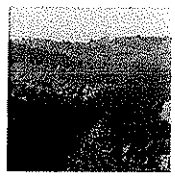
Project:	**Minden Refuse Pile Reclamation Project**
	Fayette County, WV
Year:	September 2001
Client:	WVDEP-AML
Description:	Performed surveying and design for emergency project to upgrade drainage control.

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.

E.L.ROBINSON
the Challenge. the Choice.™


12A Abandoned Mine Lands Reclamation Experience

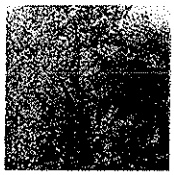
Project:	**Ven's Run Landslide**
	Harrison County, WV
Year:	September 1999
Client:	WVDEP-AML
Description:	Performed surveying and design for regraded landslide area.

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.

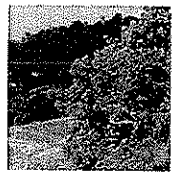
Project:	**Bull Run #35**
Year:	July 1999
Client:	WVDEP-AML
Description:	Performed surveying and design for refuse and spoil regrading.

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.




E.L.ROBINSON
the Challenge. the Choice.™

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

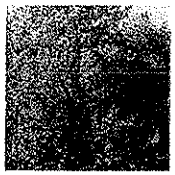
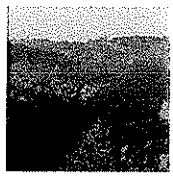
Solicited bids from core-boring contractors and performed core borings for highway and bridge for a replacement for a bridge that spans mainline tracks of the CSX Railroad in Kanawha County, West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis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



E.L.ROBINSON
the Challenge. the Choice.™

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.

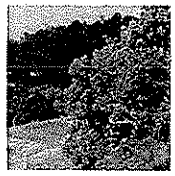
Designed cuts performed slope stability analysis and settlement analysis for several major fill areas. Designed foundations for a bridge spanning the West Fork River.

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.



E.L.ROBINSON
the Challenge. the Choice.™



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.

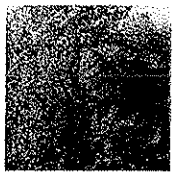

E.L.ROBINSON
the Challenge. the Choice.™


12C Hydrology and Hydraulics

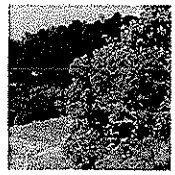
Project: **Blennerhassett Island Bridge Over Ohio River**
Year: 1999-2003
Client: Michael Baker Jr., Inc.
5088 Washington Street, West
Charleston, WV 25313
Contact: Pi Amin, P.E.
Vice President Michael Baker Jr, Inc. (Southwest Region)
304-769-0821
Description: Prepared an analysis of the hydraulic impact 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.



E.L.ROBINSON
the Challenge. the Choice.™



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.

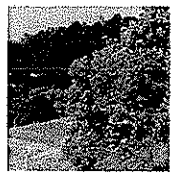
ELR also prepared Section 404 permitting documents outlining the effects a temporary cofferdam, which would be used during the construction phase, would have on the outlying areas upstream of the projects.

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.



E.L.ROBINSON
the Challenge. the Choice.™

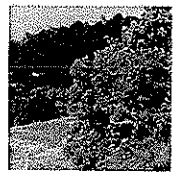


12C Hydrology and Hydraulics

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.


E.L. ROBINSON
the Challenge. the Choice.™

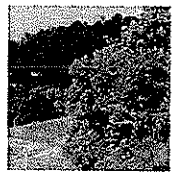
12C Hydrology and Hydraulics

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.



E.L.ROBINSON
the Challenge. the Choice.™



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.

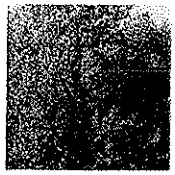
Project: **Bridge No. 4426 – Lower Gassaway Bridge**
WV 4 Over Elk River
Year: 1999
Client: West Virginia Department of Transportation
Division of Highways
Building 5
1900 Kanawha Blvd. East
Charleston, WV 25305
Contact: James Sothen, P.E., Director, Engineering Division
304-558-0501
Description: Prepared 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.



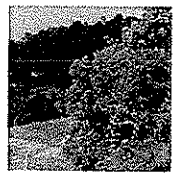
E.L.ROBINSON
the Challenge. the Choice.™

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.



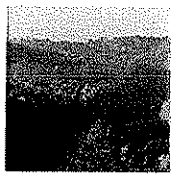

E.L. ROBINSON
the Challenge. the Choice.™

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

E.L. ROBINSON
the Challenge. the Choice.™


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

Edward L. Robinson, P.E., P.S.
President

Education

M.S. Civil Engineering
University of West Virginia, (COGS), 1981

B.S. 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.

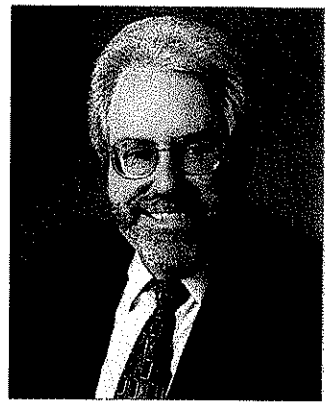
Professional Memberships

- American Society of Civil Engineers
- National Society of Professional Engineers

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.

Under his leadership, E. L. Robinson has entered the new millennium as a multi-disciplined professional services firm that



utilizes the latest technology in the design of highways, bridges, structures, 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 90 engineers, architects, surveyors and support personnel and has been converted to an employee owned company through an Employee Stock Ownership Plan (ESOP).

Representative Projects

Engineering Review of the following projects:

- **US Route 52 – Kermit Bypass:** This project consisted of 2.5 miles of four-lane divided highway, 3,000 LF of four-lane access road design, two 4-ramp intersections, one set of twin structures, one single bridge, and 2,900 LF of stream relocation, all of which resulted in 10 million cubic yards of excavation and an estimated total construction cost of $88 million.

- **Corridor H – Davis to Bismark:** This project consisted of 1.75 miles of four-lane divided highway, one bridge, two at-

grade intersections, and a 6' x 6' concrete box culvert. This project has an estimated total construction cost of $9 million.

- **Corridor H - Foreman to Moorefield:** This project consisted of 5 miles of four-lane divided highway, almost 3 miles of access road design, a truck escape ramp, one set of twin structures, one single bridge, a box culvert, and naturalized stream design. This project resulted in 10 million cubic yards of excavation and an estimated construction cost of $75 million.

- **CAMC 33rd Street Relocation:** Engineering design and construction management for the relocation of 33rd street and site development for a five story clinical teaching facility in Charleston, WV.

Offices Held

- Current Member of West Virginia University Board of Governors
- Current 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

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

Timothy B. Cart, P.E., P.S.

Project Engineer

Education

B.S. 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

Mr. Cart has recently been involved in the design of a 100 acre Industrial Site and 8 acre Industrial/Commercial Site in Mingo County. These projects are currently under construction and are located near Appalachian US 119 Corridor G.

Richard W. Watts

Project Geologist

Education

B.S.in Geology, Marshall University, 1977M.S.in Geography, Marshall University, 1994

Professional Registrations

Registered Professional Geologist, Kentucky, 1993, No.159Certified Professional Geologist, Virginia, 1992, No.856

Professional Memberships

Geological Society of America Association of Engineering Geologists

Teaching Experience

Instructor, 1998 - Marshall University Engineering Geology Program - Soil and Rock Mechanics

Professional Experience

Mr. Watts has more than 31 years of experience in providing consulting services as a senior geologist. He has also served as project manager on numerous projects.

Mr. Watts is primarily an engineering geologist whose range of project experience has encompassed numerous projects concerning geologic investigation, rock and soils engineering, landslides, land reclamation, forensic damage investigations, hydrogeology and the coal industry.

He has performed hundreds of slope stability analyses for landslides and other projects involving the design of stable slopes. In addition, he has performed several studies involving landslide prediction to aid clients in land use and safety planning. Projects involving rock slope stability have included the analysis of the stability of high rock cuts for surface mining operations and highways.

Geotechnical experience has included numerous projects involving soils, foundations, landfills and damage studies. These projects have encompassed such areas as pile driving, caisson installation, earth fill placement, subsurface exploration, site reconnaissance, grout and concrete placement and quality control.

AML and Coal Industry Projects:

Work on more than 50 Abandoned Mine Land Reclamation projects, including:

- Mine subsidence, refuse piles and draining mine portals.
- Coal seam mineability studies.
- Coal refuse embankment and slurry pond design.
- Coal permitting, exploration and drill log correlations.
- Roof and floor studies and pillar strength evaluations.

Jeff Nelsen, RLA

Project Manager

Education

Bachelor of Science in Landscape Architecture
West Virginia University, 1976

Registrations

Registered Landscape Architect
West Virginia, Indiana, Ohio,
Maryland, Virginia

Professional Memberships

- Affiliate Member West Virginia Chapter of American Institute of Architects

Professional Experience

Mr. Nelsen has practiced landscape architecture for over 30 years principally in West Virginia but also has completed projects in Ohio, Indiana and Pennsylvania. His professional experience has afforded him opportunities to assist clients with park and recreation planning and design, community and urban planning, streetscape design, campus planning for elementary, secondary and higher education facilities and site planning and design for residential, commercial and public places. He has been involved in environmental planning and restoration especially lands degraded from past mining practices. He has managed site development on significant projects such as the Stonewall Jackson Resort and the Tamarack Art Center yet enjoys working with clients and communities assisting them visualize the improvements for their parcels and neighborhoods.

Representative Projects

Clay Center for the Arts and Sciences, Charleston, WV: Prepared construction and bidding documents and provided construction administration for a new public plaza space at the corner of Leon Sullivan Way and Washington Street for Charleston's premier performing arts and science center. The site's design called creating a cool green zone for people to gather informally and as an entertainment venue for special events. The relative flat site consisted of a circular plaza and fountain surrounded by a concentric ring of granite seat walls at the edge of the pavement radiating outward into the lawn area. Large 4" and 6" caliper Linden and Honeylocust trees were planted to create a shaded canopy for the space in front of the center.

Washington Street Streetscape, Charleston's East End, WV: Prepared master plan, construction and bidding documents and provided construction administration services for the remaining segment of the Washington Street streetscape from the state Capitol grounds to Charleston Area Medical Center which entailed a ½ mile of sidewalk replacement, new street lighting, brick accent pavements, street trees, landscaping, utility line relocation and burial and new underground electrical service for 30 structures. Total budget for the project was approximately two million dollars.

Rich Mountain, Laurel Hill and Corricks Ford Civil War Battlefields, Randolph, Barbour and Tucker Counties, WV: These are three distinct battlefields but are all related to each other because they are a progression of the first major conflict in northwestern Virginia in July, 1861 between approximately 9000 Union soldiers led by General George McClellan and 5000

Confederate troops led by General Robert Garnett. The armies engaged each other at these three locations over a week's time resulting in the defeat of the Confederate forces. This early Union victory allowed Union sympathizers in the western counties of Virginia to organize a secessionist movement to form the new state of West Virginia.
Provided master planning, interpretation recommendations, signage and trail development for each of these sites with archeological and historical consultants on the team. The planning and design efforts of these new public lands were focused on preservation and interpretation of each site's story about West Virginia's role in the Civil War.

Tamarack Art Center, Beckley, WV: Working with the architect for the project prepared the site master plan and managed design for all exterior improvements including access road, bus and car parking, earthwork, stormwater management, utility design, pedestrian walkways and plaza spaces, fountain design, landscaping, and irrigation design. This $20 million facility is widely recognized in West Virginia and surrounding states as one of the finest venues for West Virginia artisans.

Stonewall Jackson Resort, Roanoke, WV: In the most recent major expansion of a West Virginia State Park, assisted the developer in an unique public private partnership to build new facilities at the park which included master planning for a lodge, golf course, expanded campgrounds, cabins, expanded day use facilities, trails and other site features. Prepared documents for regulatory review by the USACOE, WVDEP, and WVDNR. Managed the development of site preparation construction documents for the lodge, golf clubhouse, cabin area, and future campground areas. Assisted the golf course design team with storm water management and permitting issues. After the completion of new facilities have continued to assist the developer on future proposed amenities for the resort.

BOPARC Master Plan Update, Morgantown, WV: Due to the significant growth in Morgantown, assisted the Morgantown Board of Park and Recreation Commission with an update of the existing and proposed park facilities maintained by the City of Morgantown. This involved site review of approximately 20 facilities, development of a needs analysis survey and interpretation of its findings, preparation of new master plans for each park, preparation of cost opinions and phased recommendations for the planned $12 million of improvements.

Aspen Village, Timberline Resort, Canaan Valley, WV: Provided master planning and managed site design, permitting and engineering for a new 50 lot subdivision near Timberline. The development involved grading layout for lots, roads, drives, utilities, pond enlargement, and site amenities. Project entailed 30 duplex and triples units and 20 single family lots. Coordinated utility extensions with each respective company and assisted several of the property owners with site planning of their home sites.

West Side Community Renewal Plan, Charleston, WV: Working with the Charleston Urban Renewal Authority, Charleston Planning Department and community leaders on the West Side developed the largest urban renewal plan within the city encompassing 228 acres and almost 900 buildings. With assistance of a public facilitation consultant held a series of meetings with residents and business owners to gain input into their vision for the plan. The adopted recommendations identified significant public and private recommendations with the strongest focus on a new home ownership zone around the new elementary school planned on Florida Street.

Daniel R. Akers, ASLA

Land Planner

Education

Bachelor of Science in Landscape Architecture
West Virginia University, 2005

Registrations

Currently pursuing Landscape Architect registration

Professional Memberships

- American Society of Landscape Architects

Technical Skills

- Amenity Design
- Streetscape Design
- Parks and Recreation Design
- Capacity Studies
- Community Design
- Conceptual Planning
- Construction Documents
- Presentation Graphics
- Cost Estimation

Professional Experience

Mr. Akers has a wide variety of experience in community design, amenity centers, sports and recreation complexes, commercial and retail centers, parks, and streetscape enhancement projects throughout the Appalachian region and the south east. He has managed projects through the approval process as well as administered construction observation.

Professional Experience

Corrick's Ford Battlefield
Parsons, WV
Completed onsite inventory and analysis of this historic Civil War battlefield dating back to the mid 1800's and graphically repented all on and off site attributes. Site use analysis maps were created using ACAD and Photoshop to suggest the best uses and locations for each program element. Conceptual site amenities were designed and graphically illustrated using 3D modeling and rendering software.

Shamrock Condominiums
Snowshoe, WV
On site inventory and analysis were taken and evaluated to develop a program for possible additions and or improvements to on site amenities, traffic circulation, storm water management, and landscaping. Each of more than 70 condominiums were reviewed to establish positive drainage away from the buildings. Conceptual 3D graphics were created to depict possible additions which included picnic areas, fire rings, shelters, and pedestrian circulation improvements through the site. A conceptual master plan was also generated and rendered.

Beech Fork State Park
Lavalette, WV
On site inventory and analysis was taken to review the feasibility of 35, 50, and 75 room lodge. Multiple conceptual master plans, cost estimates, earth work calculations, and slope analysis maps were completed to rank each location for the most desirable location based on cost, proximity to the lake and visual impact to the state park.

Wayne County Bike Path
Ceredo & Kenova, WV
Site exploration was conducted to route possible share the road bike paths throughout Ceredo and Kenova. Maps were created using aerial photography and mapped possible route. Working with the city municipalities, a route was chosen and approximately twelve miles of share the road bike paths were created. Construction documents were made for tail head maps, street signs, and information stations. Construction on this project is to begin in the near future.

Washington Street West Streetscape
Charleston, WV
Working with the West Virginia Main Street office located on Charleston's west side, a plan was created evaluating Washington Street's current condition and pedestrian circulation. A conceptual master plan was created showing areas for improvement not only for aesthetic proposes but for pedestrian safety as well. Cost estimates and renderings accompanied this plan to convey the improvements needed.

Crossroads Retail Center
Bluffton, SC
Multiple illustrative master plans were created and evaluated to find the most valuable solution to this 100 acre commercially zoned property. Plans were submitted and presented to the town council for review and recommended for approval and advancement into the initial master plan development.

Hampton Lake, Private Community & Amenities, Bluffton, SC
Produced multiple construction documents for individual projects within the community which included entry sequence, gate house, amenity center, dog park, camp grounds, nature trails, playground, and streetscapes. Construction of this 900 acre community and amenity center was completed on the spring of 2008.

Holiday Inn, Redevelopment
Hilton Head Island, SC
Schematic plans were created for the remodeling of an older hotel into high end beach front condominium units. Presentation graphics were made by means of digital modeling and rendering software.

Reynolds Plantation, Amenity Center
Greensboro, GA
Conceptual plans were generated for the addition of a large outdoor pool, restaurant, spa, and event lawn. Presentation graphics were made utilizing digital rendering techniques and 3 dimensional modeling software. Conceptual plans were approved and full construction documents were created. This high end resort addition was completed in the spring of 2008.

John R. Kelly, III

Engineer Intern

Education

B.S. Civil Engineering
West Virginia University, 1998

Computer Skills

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

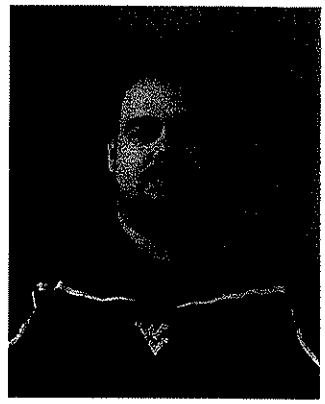
Professional Memberships

- American Society of Civil Engineers

Professional Experience

Mr. Kelly has performed layout and inspection of core drilling operations for bridges and roadway projects. He has also designed numerous mine reclamation projects as well as assisted in completion of water feasibility studies.

Mr. Kelly has performed construction inspections of waste water treatment facilities and has experience with roadway design, design of foundations, and retaining walls.



Representative Projects

Mr. Kelly has designed cut slopes for large scale roadway projects such as:

- Kermit Bypass, Mingo County, WV
- Meadowbrook Road, Harrison County, WV
- US-35, Mason County, WV
- Corridor H, Section 7, Hardy County, WV

Todd Garnes
CADD Designer

Education

A.A.S. Architectural Drafting Technology
West Virginia State College, 1999

A.A.S. Computer Aided Drafting & Design
West Virginia State College, 1999

Professional Experience

Mr. Garnes has experience as a Survey rod man and has been a Core-drilling Inspector for the Kermit Bypass and Robinson Creek Bridge projects. He has also been a highway inspector for the Corridor D Highway project.

Mr. Garnes has been a Waterline Inspector for the Town of Pax Waterline Relocation project and a Landslide Inspector for Ohio Department of Natural Resources, Division of Mineral Resource Management for the Adkins Landslide.

Mr. Garnes has been Computer draftsman on numerous highway, water line, sewer line, and DEP projects such as Meadowbrook Road and Corridor H Section 7 and the Wayne County 20/10 Water Plan.

He has completed ten Land Use Master Plans in coordination with the Rahall Transportation Institute, which include map development, DEP mine research, county wide infrastructure collection, and land use alternatives. Mr. Garnes has completed Land Use Master Plans in the following counties: Boone; Clay; Fayette; Lincoln;

Logan; McDowell; Mercer; Wayne; Wyoming; and Raleigh.

Mr. Garnes has completed a land use inventory project in Brooke County and is currently working on a Ten Year Comprehensive Water and Sewer Infrastructure Study for Marshall County using ArcView 9.0 to compile county wide infrastructure into GIS format. He has also prepared Land Use Master Plans for Webster, Upshur and Marshall Counties using ArcView 9.0 to compile county wide infrastructure into GIS format.

Representative Projects

Mr. Garnes has worked on the following projects:

The Marshall County Ten Year Comprehensive Water & Sewer Infrastructure Study. County wide infrastructure data was collected via public and county cooperation and site visits. This data was compiled into databases and a geographical information system (GIS) was created. The GIS is a tool for Marshall County to use for future expansion of water and sewer utilities. My responsibilities with this project were compiling the collected data into databases so that it can be

implemented into the GIS. From the data, maps were developed depicting existing and future infrastructure conditions within Marshall County. I also wrote the document that went with the maps. This document explained each public service district, municipality, and private utility's existing and future role within Marshall County's infrastructure. The document also described future water and sewer expansion projects to be considered by the Marshall County Commission.

The Fayette County Water Studies project consisted of collecting water samples within four project areas in central Fayette County. The purpose of this study was to examine the water resources and mining history of the study area and determine if problems with water quality could be attributed to mining activity prior to enactment of the Surface Mining Control and Reclamation Act of 1977 (SMCRA). My involvement consisted of locating individuals in the designated project areas, conducting one-on-one interviews, and collecting water samples. Water samples were tested and results were examined to determine if pre-law mining had affected the water quality. The study was conducted in two phases, each phase having a report sent to and reviewed by the West Virginia Department of Environmental Protection.

The B&H Towing Project involved claimants for the Belleville Locks & Dam river drawdown damage case. My objective was to use a handheld GPS unit to locate claimants in Wood County, West Virginia, and Washington, Meigs, and Athens County, Ohio. I performed courthouse research to find tax maps for each county. The data points were input into GIS and several maps were developed to show these locations overlaid on the tax maps and SAMB Orthophotos (2003). Floodway maps were created and printed on clear mylar to be used as overlays for aerial maps. These maps were used to determine if claimant property was in a designated flood plain and to determine fraudulent claims.

Computer Skills

ArcView 8.3, ArcView 9.0, AutoCAD, Raster Design 2006; AutoCAD Map, MicroStation, Microsoft Office.

Training

WVDOT & Nick J. Rahall, II Appalachian Transportation Institute, Global Positioning Systems (GPS), 2007

WVDOT & Nick J. Rahall, II Appalachian Transportation Institute, GIS Level 3, 2007

WVDOT & Nick J. Rahall, II Appalachian Transportation Institute, GIS Level 2, 2007

WVDOT & Nick J. Rahall, II Appalachian Transportation Institute, GIS Level 1, 2007

Introduction to ArcGIS II, 2005

Introduction to ArcGIS I, 2003

Introduction to Power Point, 2003

Brian D. Morton, P.E.

Utilities and Transportation Design

Education

B.S. Civil Engineering
West Virginia University Institute of Technology, 1998

Registrations

Registered Professional Engineer in West Virginia, Ohio and Florida

WVDOH Certified Aggregate Sampling Inspector

WVDOT Certified Portland Cement Concrete Inspector

Certified Student Pilot, FAA

Professional Memberships

- American Society of Civil Engineers (ASCE)
- American Water Works Association (AWWA)

Professional Experience

Mr. Morton has over seven years of experience in many areas of civil engineering including roadway design projects, airport design projects, water distribution systems, sanitary sewer collection systems, storm water collection systems, site development projects and ADA accessible train and bus station improvements. Prior to joining E.L. Robinson Engineering Co., Mr. Morton worked with the WV Division of Highways as an Engineering

Co-op Technician. His responsibilities at E.L. Robinson Engineering Co. include project management, construction management, contract administration, and project engineering.

Representative Projects

Highway Design:

US Route 52 - Kermit Bypass: This project consisted of 2.5 miles of four-lane divided highway, 3,000 LF of four-lane access road design, two 4-ramp intersections, one set of twin structures, one single bridge, and 2,900 LF of stream relocation, all of which resulted in 10 million cubic yards of excavation and an estimated total construction cost of $88 million.

Corridor H - Davis to Bismarck: This project consisted of 1.75 miles of four-lane divided highway, one bridge, two at-grade intersections, and a 6' X 6' concrete box culvert. This project has an estimated total construction cost of $9 million.

Corridor H – Foreman to Moorefield: This project consisted of 5 miles of four-lane divided highway, almost 3 miles of access road design, a truck escape ramp, one set of twin structures, one single bridge, a box

culvert, and naturalized stream design. This project resulted in 10 million cubic yards of excavation and an estimated construction cost of $75 million.

Meadowbrook Road: This project consisted of 1.4 miles of four-lane divided highway, one set of twin structures, two at-grade intersections, and a tie-in to existing US Route 19. The project had an estimated total construction cost of $19 million.

I-79 Bridgeport to Meadowbrook: This project consisted of widening 2.1 miles of Interstate 79 to 8-lanes, including three bridges, tie-ins to two intersections, and water and sewer line relocation. The total construction cost for this project was near $30 Million.

Lower Gassaway Bridge Replacement: This project consisted of 0.3 miles of roadway relocation, a 453' long bridge, three at-grade intersections, an at-grade railroad crossing, and a boat-loading ramp. The total construction cost for this project was $3.5 Million.

Airport Design:

Implementation of the 2003 and 2004 AIP projects at the Lawrence County (Ohio) Airpark: This included Runway Safety Area Study Report; Airport Layout Plan update including Aviation Forecasting, wind coverage analysis using FAA software "Airport Design 4.2D," non precision GPS instrument approach analysis, Part 77 Imaginary Surface analysis, Appendix II threshold siting criteria analysis, displaced threshold and declared distance calculations and property acquisition analysis.

The implementation consisted of the preparation of detailed plans and specifications conforming to FAA advisory circulars and cost estimations for the construction of a runway and taxiway rehabilitation, runway and taxiway pavement markings, apron and tie-down area expansion which included pavement design, major and minor drainage improvements around the airport and site grading and reclamation around apron and taxiways; assisted in the bidding phase and the preconstruction issues as well as construction management including airport safety briefings and NOTAMs for these projects.

Utility Relocation:

Water and Sewer Relocation for the Route 35 / I-64 interchange; Waterline Relocation for the Big Tyler Center Turn Lane Project; Water and Sewer Relocation for Route 34 Roadway Widening Project; Sanitary Sewer Relocation for the I-79 Meadowbrook Bridge; Various Gas Line Relocations for Consumers Gas Company.

Waterline Distribution:

Waterline Extension Projects in Cabell, Wayne, Kanawha and Putnam Counties included the design and construction management of miles of waterline and several water storage tanks and booster pump stations.

Site Development:

CAMC 33rd Street Relocation: engineering design and construction management for the relocation of 33rd street and site development for a five story clinical teaching facility in Charleston, WV. Other site design projects include Uno's Pizzeria in Teays Valley, WV; Go Mart in Gallipolis, Ohio; Montgomery Amtrak Bus and Train Station Improvements Project in Montgomery WV.

Mark Allen McGettigan, PE,

Project Manager

Education

M.S.E. Engineering Management/Environmental Engineering,
Marshall University December 2007

B.S. 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:

- **Lavalette Public Service District's U.S. Route 52 Waterline Extension Project.**
- **Lavalette Public Service District's Crockett and Millers Fork Waterline Extension Project.**
- **Lavalette Public Service District's State Route 37 Waterline Extension Project.**
- **Crum Public Service District's Mill Creek Waterline Extension Project.**

Charles Rick Roberts, Jr., P.E.
Project Manager

Education

B.S. Civil Engineering
West Virginia Institute of Technology, 1982

Professional Registrations

Registered Professional Engineer in West Virginia, West Virginia Class II Water Operator, West Virginia Class I - S Wastewater Operator

Professional Affiliations

- American Water Association
- WV Rural Water Association (Former President, Current Board Member)
- Environmental Protection Advisory Council

Professional Experience

Mr. Roberts has more than 25 years of experience as a water/wastewater utility manager. He has extensive experience in project planning, specifically in the establishment and implementation of maintenance and preventative maintenance programs.

Mr. Roberts worked as a Utility Engineer with the Public Service Commission in the late 1980s. His primary responsibilities included gathering data and approving county plans as authorized by Sentate Bill 191.

Mr. Roberts was the Managing Engineer for the Logan County PSD for more than 20 years. In this position, he was responsible for all aspects of the District's operations including financial planning, budgeting, operation maintenance, environmental compliance and testing, project planning and implementation, and regulatory over site and compliance.

Specific Accomplishments

- Oversaw the completion of the construction of twenty-three major water and wastewater projects totaling over $73,000,000.
- Responsible for the construction of a 2,800 GPM surface water treatment plant that was constructed so that it may be affordably upgraded to 5,600 GPM should the need arise. The plant went online in October 2002 and is exceeding all state and federal treatment requirements.
- Oversaw the construction of a regional 1.0 MGD Wastewater Treatment Plant capable of treating wastewater for over 2,000 customers. Further, the plant is upgradeable to 3.0 MGD.
- Managed the purchase and upgrade of 23 privately owned water systems in Logan County. At the time of purchase, each was in poor condition and under "boil water advisories." All of these systems have, or soon will be replaced or upgraded.
- Assisted in flood recovery in the 1996 Logan County and 2001 Wyoming County floods. Mr. Roberts responsibilities included damage assessment, coordination with state and federal officials including FEMA and the actual repair and disinfection of the affected systems.

- Oversaw the extension of water and/or wastewater service to various economic development sites including the Logan County Airport, Southwestern Regional Jail, Earl Ray Tomblin Industrial Park, Wood Products Industrial Park, Chief Logan State Park Convention Center, Fountain Place Mall/Complex, Hatfield and McCoy Trail Facilities as well as eight exits of U.S. 119. All were completed on time and at or under budget.
- Precipitated a phenomenal growth and expansion at Logan County PSD. This growth can be attributed to several key factors: increased number of customers served; increased annual operating revenues; increased Utility Plant in service; increased amount of water mains in service; installed additional fire hydrants; and constructed additional storage tanks.

Randall L. Lackey, P.E.

Project Engineer

Education

B.S. 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, MSPowerPoint, Windows, MDX, 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 WV 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 has been intricately involved in the hydraulic design process of the Blennerhassett Island Bridge Project, which will connect West Virginia to Ohio as well as span 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 as well as 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 the Olentangy River.

Mr. Lackey has 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 E.L. Robinson's Division of Highways projects.

James T. Rayburn, P.S.

Chief Surveyor

Education

A.S. 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)

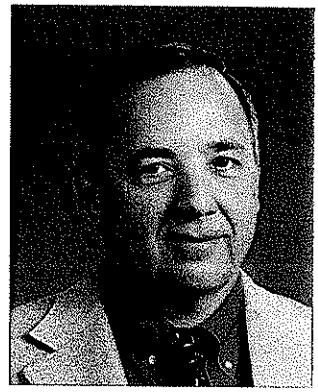
Member Organization of ACSM.

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.

- **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.

Joshua T. Rayburn

Survey Party Chief, GPS Senior Technician, 3D-Laser Scanning Senior Technician

Education

Currently enrolled as a Civil Engineering student at West Virginia University Institute of Technology

Professional Experience

Mr. Rayburn has over 8 years experience in surveying and mapping. He has performed conventional and GPS control surveys for aerial mapping and other projects, as well as performing 3D-laser scans for various highway projects. Also, he has done courthouse research of properties as well as plotting the deeds in MicroStation format for use in property map preparation for highway and bridge design projects.

His work experience includes operating various equipment including robotic total stations, digital levels, 3D-laser scanner, and GPS (Static and RTK).

Mr. Rayburn has also performed GPS Post-processing, estimating for new projects and invoicing.

Before joining E.L. Robinson Engineering Co. in 1999, Mr. Rayburn was employed by Cardinal Engineering in Chapmanville, WV, where he was GPS Technician, Survey Rodman and Survey Transit Man.

Representative Projects

Mr. Rayburn has worked on the following projects:

- **I-64/I-77 Retaining Wall Monitoring Survey (2006 – present):** This ongoing project is for surveys and services associated for monitoring approximately two miles of retaining wall along the I-64/I-77 corridor in Charleston near the Capitol Complex using high definition surveying with a 3D-Laser Scanner. Mr. Rayburn performs the quarterly 3D-Laser Scanner surveys, as well as part of the in office 3D-Scan registering. He also performed the GPS control survey for the project site.

- **Veteran's Memorial Bridge (2005 – present):** This ongoing project is in conjunction with Michael Baker Jr., Inc. for the Survey Monitoring of the Veterans Memorial Bridge, Brooke County, West Virginia, US22, over the Ohio River. The cable-stayed bridge consists of six spans with an overall length of 1,972'. Mr. Rayburn is the

surveyor in charge of the annual monitoring. His tasks include scheduling, operating the Total Station, data collection, and providing an annual survey monitoring report.

- **Blennerhassett Island Bridge (2001 - 2004):** Spanning over the Ohio River and the Blennerhassett Island, Wood County, West Virginia and Washington County, Ohio. Completed the required field surveys for the study, design and preparation of construction plans for the Blennerhassett Island Bridge, as a subconsultant for Michael Baker, Jr. Mr. Rayburn performed GPS and conventional surveying on the project. His tasks included staking borehole and centerline location, as well as general survey location. He also helped on the hydro-sections survey.

AML and RELATED PROJECT EXPERIENCE MATRIX

Attachment C

PROJECT	Experience Basis Corporate-C Personal-P	Additional Information in Section	PROJECT EXPERIENCE																Primary Staff Participation (Lowest)							
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrological/Hydraulic Design/Eval.	Rerouting 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
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/Cameo/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		

AML and RELATED PROJECT EXPERIENCE MATRIX

Attachment C

PROJECT	Experience Basis Corporate-C Personal-P	Additional Information in Section	PROJECT EXPERIENCE															Primary Staff Participation (M or P)							
			Abandoned Surface Mine Reclamation	Abandoned/Deep Mine Reclamation	Portal/Shaft Closure	Hydrological/Hydraulic Design/Eval.	Ranking 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 Fagerwyer, 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							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						X	M		P		P	P		
Lewis Landslide	C	YES		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		P	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		
Athens Rt. 13 Refuse Fire	C	YES		X				X			X		X					M		P		P	P		
McAdams Subsidenc Emer	C	YES		X					X		X							M					P		
Rodgers Subsidence	C	YES		X					X		X		X					M					P		
Brown Landslide	C	YES		X							X							M					P		
Jenkinjones	P	NO		X	X	X					X							M		P		P	P		
Stonecoat Creek	P	NO		X	X	X					X						X		P						
Micajah Refuse Pile	P	NO		X	X	X					X						X		P						
Carswell Hollow (Smith) Refuse	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						
Geralh 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					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							
			Abandoned Surface Mine Reclamation	Abandoned/Deep Mine Reclamation	Portal/Shaft Closure	Hydrological/Hydraulic Design/Eval.	Ramming 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 Faesmyer, P.E.	Tim Oart, P.E.	Richard W. Watts, 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 Mir	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			P					
OSM-Ray Landslide	P			X									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											X			P					
OSM-Hamilton II Landslide	P			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					

AML and RELATED PROJECT EXPERIENCE MATRIX

Attachment C

PROJECT	Experience Basis Corporate-C Personal-P	Additional Information in Section	PROJECT EXPERIENCE: 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	Primary Staff Participation: 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
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	X	X				P			P	P
Skin Creek Phase II	P	2003	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	P
Big Sandy	P	1987	X			X		X			X				X						P				
Marrance	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				
Whamcliff Landslide	P	1989		X	X	X					X						X				P				P
Joyce Sturm	P	1990		X	X	X					X	X		X							P				P
Marianna Refuse	P	1991	X			X	X				X						X				P				P
Cedar Grove	P	1991		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							P				P
Newsome Branch	P	1992	X	X	X	X	X				X				X						P				P
Morrison	P	1992		X	X	X					X	X									P				P
Snake Island	P	1993	X			X	X	X			X										P				
Orchard Branch	P	1994	X	X	X	X	X				X	X		X											P
Beckley Layne	P	1994		X	X	X					X	X									P				P
Quinwood Booth	P	1994		X	X	X			X		X										P				
Little Fork	P	1983	X	X	X	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: 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	Primary Staff Participation: Ed Robinson, P.E.	Gary Facemyer, P.E.	Tim Gart, 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. DEP14622

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

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

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

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 are in compliance with the requirements as stated.

Vendor's Name: E. L. ROBINSON ENGINEERING CO.

Authorized Signature: _____ Date: 5/5/09