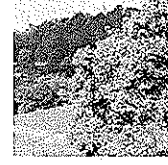


ORIGINAL

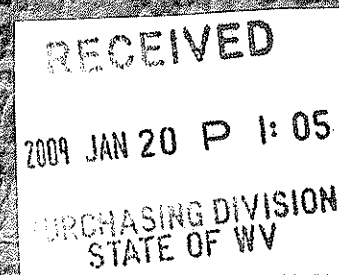


Expression of Interest  
January 21, 2009



## DEP14515 BROWNTON (McCORD) LANDSLIDE DESIGN

*Professional Engineering Design  
and Construction Monitoring Services*



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



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

# Request for Quotation

BFO NUMBER  
**DEP14515**

PAGE  
**1**

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

RFQ COPY

TYPE NAME/ADDRESS HERE

SHIP TO

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/17/2008				
BID OPENING DATE: 01/21/2009		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-29		
<p>BROWNTON (MCCORD) LANDSLIDE DESIGN</p> <p>EXPRESSION OF INTEREST</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ENGINEERING DESIGN SERVICES AND CONSTRUCTION MONITORING SERVICES AT THE BROWNTON (MCCORD) LANDSLIDE PROJECT IN BARBOUR COUNTY, WV, PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>***** THIS IS THE END OF RFQ DEP14515 ***** TOTAL: _____</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Richard W. Watts*      TELEPHONE: 304.774.7473      DATE: 1-15-08

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

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

January 21, 2009

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

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

Re: Brownton (McCord) Landslide Design  
DEP14515  
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 Brownton (McCord) Landslide Design project located in Barbour County.

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

Rich Watts will be the Project Manager for this contract. As you know, Rich has considerable AML design and construction experience gained in the last 25 years while employed by Ackenheil Engineers and Geologists, Inc. working in West Virginia's AML Program. Tim Cart, P.E. has served as Project Manager/Project Engineer on many AML projects for more than 20 years and will continue to provide expertise on projects in both management and engineering roles. ELR has very recently added a highly qualified design staff from Ackenheil. The ELR staff have combined experience in the design of nearly 100 AML projects.

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

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

Brownton (McCord) Landslide Design  
Expression of Interest  
January 21, 2009  
Page 2

- B. Recent experience in designing more than forty (40) abandoned mine land remediation projects. This does not include the projects that I, Tim Cart, and the Ackenheil staff have been responsible for prior to joining ELR. This number does not include water studies/design or surveying/mapping/drilling projects.
- C. Four (4) reclamation design teams lead by Tim Carte and other professional engineers.

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

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.

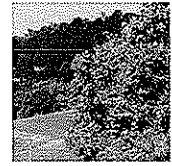
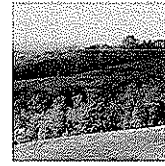
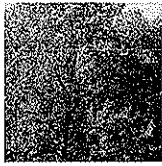
Our office location in Charleston is centrally and conveniently located in respect to the WVDEP offices and the referenced project.

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:



Randall Lewis  
Vice President



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Project Approach ..... Page 2

Our Project Team ..... Pages 3–4

Our Capabilities ..... Page 5

Previous Experience ..... Page 6

**CCQQ ..... Attachment B**

    Abandoned Mine Lands Reclamation Experience..... Section 12A

    Soil Analysis / Geotechnical Experience..... Section 12B

    Hydrology and Hydraulics ..... Section 12C

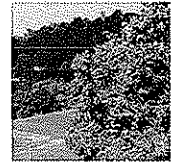
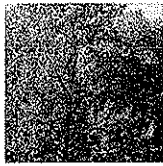
    Aerial Photography and Contour Mapping ..... Section 12D

    Resumes.....Section 13

    Project Specific Qualifications .....Section 19

**RPEM .....Attachment C**

**Purchasing Affidavit**



## 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**

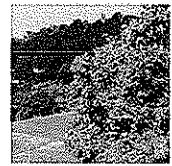
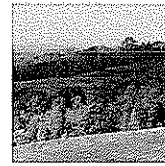
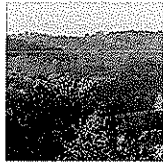
E.L. Robinson Engineering Co. fully understands the requirements for this project and is committed to giving the WVDEP/Office of Abandoned Mine Lands and Reclamation the time and attention that is necessary for the reclamation project. Professional services may include: civil; structural; geological;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



## PROJECT APPROACH

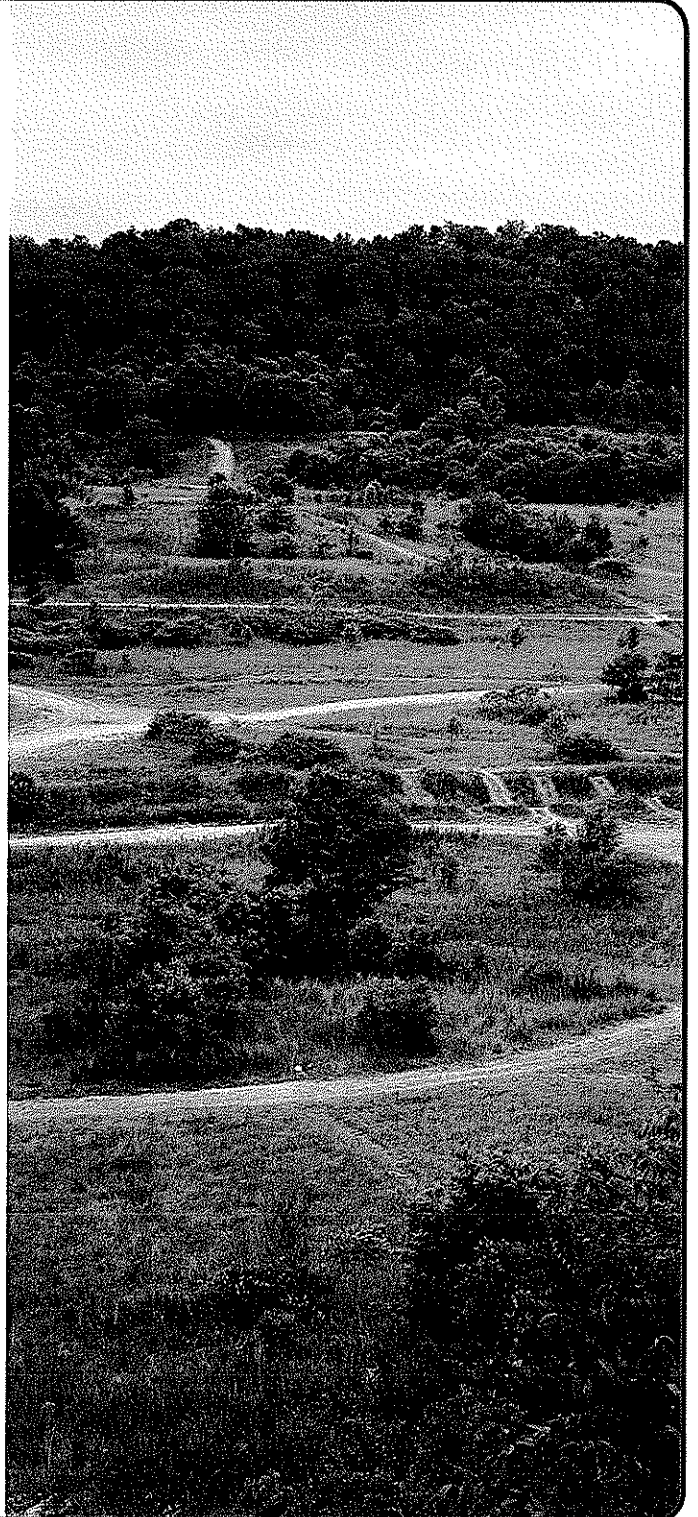
E.L. Robinson is familiar with the project area and the type of project for which you are seeking engineering services. We believe that we have a thorough understanding of the work to be provided to the WVDEP/AML for the subject reclamation project.

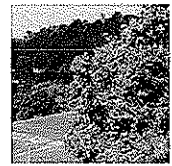
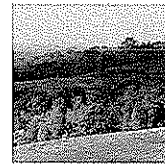
We are anxious to become an extension of your staff by providing prompt planning, design and construction monitoring services as needed. We interact with the various review and permitting agencies. As you will see from our resumes, we are uniquely diversified to provide quality engineering services to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





## 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. Rich Watts, P.G.** will be assigned as the Project Manager.

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

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

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

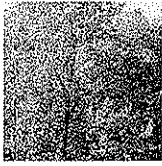
Our staff is well-qualified and experienced in related reclamation projects. They have the knowledge and capabilities to perform all of the tasks required for your project.

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

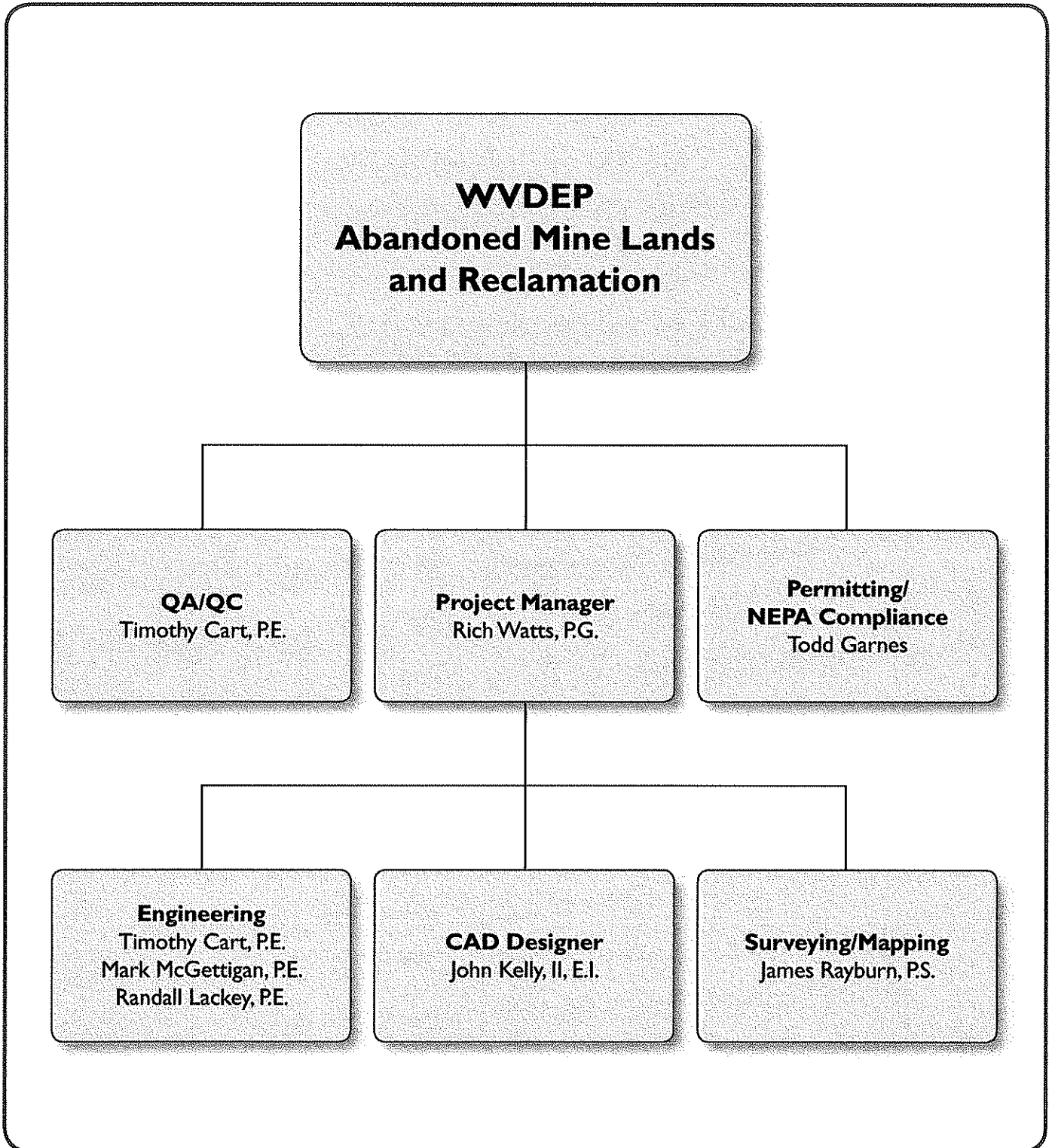
Our team of construction inspectors, led by Ronnie Williams, offers years of experience with construction monitoring.

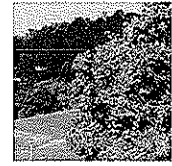
Also, our team of surveyors, managed by James Rayburn, P.S., provides the WVDEP/AML with the latest in technology and experience in surveying and mapping. By using GIS-based mapping and high-tech instrumentation, E.L. Robinson's survey team can evaluate any type of surface. Other services pertaining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





## OUR PROJECT TEAM





## OUR CAPABILITIES

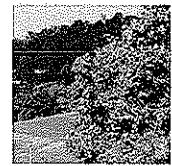
Over the past 30 years, E.L. Robinson Engineering Co. has focused its efforts on delivering quality projects to our clients and building strong relationships based on trust and partnership. We believe building lasting relationships with our clients is key to delivering exceptional service for many years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

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

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

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





## PREVIOUS EXPERIENCE

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

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

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



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

PROJECT NAME Brownnton (McCord) Landslide Design - DEPI4515	DATE (DAY, MONTH, YEAR) January 21, 2009	FEIN 55-0594633
1. FIRM NAME E.L. Robnson Engineering Co.	2. HOME OFFICE BUSINESS ADDRESS 5088 Washington Street, West Charleston, WV 25313	3. FORMER FIRM NAME
4. HOME OFFICE TELEPHONE 304-776-7473	5. ESTABLISHED (YEAR) 1978	6. TYPE OWNERSHIP 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 304-776-7473/Tim Cart, P.E./50 Staff in Charleston Area Charleston, WV 25313		

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

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

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

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

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

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

NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
Novel Geo – Environmental (NGE) 806 B Street, St. Albans, WV	Drilling	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> YES <input type="checkbox"/> NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> YES <input type="checkbox"/> NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> YES <input type="checkbox"/> NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> YES <input type="checkbox"/> NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> YES <input type="checkbox"/> NO

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

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

NO

B. Is your firm experienced in Soil Analysis?

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

NO

C. Is your firm experienced in hydrology and hydraulics?

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?

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.)

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

NO

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

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	
Edward L. Robinson, President	YEARS OF AML DESIGN EXPERIENCE: 10	YEARS OF AML RELATED DESIGN EXPERIENCE: 24	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 32

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

EDUCATION (Degree, Year, Specialization)	
Bachelor of Science 1969 Civil Engineering Master of Science 1981 Civil Engineering	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	
American Society of Civil Engineers - Past President WV American Council of Engineering Companies National Society of Professional Engineers	REGISTRATION (Type, Year, State) 1975 Civil Engineering Registered in West Virginia and Kentucky Professional Licensed Surveyor No. 1150

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

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

Brief Explanation of Responsibilities

EDUCATION (Degree, Year, Specialization)

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	
John Kelly II, E.I.	YEARS OF AML DESIGN EXPERIENCE: 8	YEARS OF AML RELATED DESIGN EXPERIENCE: 8	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 8

Brief Explanation of Responsibilities

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

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering/1998/WVU

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)  
Engineer Intern, WV

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

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

Brief Explanation of Responsibilities

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

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

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

EDUCATION (Degree, Year, Specialization)

Bachelor of Science 1981 Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)  
Professional Engineer WV OH



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

NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:	
7	7	7	
<p>Brief Explanation of Responsibilities</p> <p>Mr. McGettigan has worked on several AML projects since joining our firm. He has developed grading plans, cross sections, estimated and checked quantity calculations. He has also served as a field inspector for several waterline projects designed by E. L. Robinson Engineering Co. He has been the lead designer on waterlines over the past five years.</p> <p>Mr. McGettigan also has experience with surveying and equipment including; theodolites, levels, and total stations. He has also performed various concrete and soil tests and is certified on Troxler nuclear density gage.</p> <p>EDUCATION (Degree, Year, Specialization)</p> <p>B.S. Civil Engineering Technician/Fairmont State/1999</p> <p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</p> <p>REGISTRATION (Type, Year, State)</p> <p>Professional Engineer WV</p>			

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

NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:	
1	8	1	
<p>Brief Explanation of Responsibilities</p> <p>Mr. Lackey has performed hydraulics and scour for Ripley Town Bridge; Tallman Bridge; Meadowbrook Road Bridge; Simpson Creek Bridge; Kermit Bypass Bridge; Left Hand Fork Bridge; and Blennerhassett Bridge.</p> <p>Mr. Lackey has also performed calculations for deck drainage; performed girder design and analysis; pier design and analysis; prepared design study reports; type, size and location reports and final plans on many of our Division of Highways projects.</p> <p>EDUCATION (Degree, Year, Specialization)</p> <p>B.S. Civil Engineering/1999</p> <p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</p> <p>REGISTRATION (Type, Year, State)</p> <p>Professional Engineer WV</p>			

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

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

Brief Explanation of Responsibilities  
 Mr. Garnes experience surveying and providing CADD Design for mine reclamation projects and waterline and sewer extrusions. He has provided construction inspection services for landslides 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	
Thomas Rayburn, P.S.		YEARS OF AML DESIGN EXPERIENCE: 30	YEARS OF AML RELATED DESIGN EXPERIENCE: 30

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

EDUCATION (Degree, Year, Specialization)  
 A.S. Mechanical Engineering, WVIT/1970

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

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

NAME & TITLE (Last, First, Middle Int.)			YEARS OF EXPERIENCE	
Scott LeRose, P.E.	YEARS OF AML DESIGN EXPERIENCE: 1	YEARS OF AML RELATED DESIGN EXPERIENCE: 1	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 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	
Ray Tilley, P.E.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 5	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 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	
James Eric Gwinn, E.I.	8	YEARS OF AML DESIGN EXPERIENCE: EXPERIENCE: 8	YEARS OF AML RELATED DESIGN EXPERIENCE: 8
<p>Brief Explanation of Responsibilities</p> <p>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.</p> <p>Mr. Gwinn has designed approach slabs, decks and extensive detailing on several bridge projects.</p> <p>EDUCATION (Degree, Year, Specialization)</p> <p>B.S. Civil Engineering/1998/ West Virginia Institute of Technology</p>			

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	
Brian D. Morton, P.E.	2	YEARS OF AML DESIGN EXPERIENCE: EXPERIENCE: 2	YEARS OF AML RELATED DESIGN EXPERIENCE: 2
<p>Brief Explanation of Responsibilities</p> <p>Mr. Morton has worked on waterline extension projects in Putnam County. He also has completed numerous waterline relocation projects involving the West Virginia Division of Highways.</p> <p>Mr. Morton has prepared signing and pavement marking plans and performed hydrologic and hydraulic calculations for culverts and other drainage structures and highway construction.</p> <p>EDUCATION (Degree, Year, Specialization)</p> <p>B.S. Civil Engineering/1998</p>			

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	
Joseph T. Carney, P.E.		YEARS OF AML DESIGN EXPERIENCE: EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 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	
Workman, Gary A., CADD Senior Technician		YEARS OF AML DESIGN EXPERIENCE: 19	YEARS OF AML DESIGN EXPERIENCE: 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 AML DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
<p>Mayes, Jason M.</p> <p>Brief Explanation of Responsibilities</p> <p>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.</p> <p>EDUCATION (Degree, Year, Specialization)</p> <p>B.S. Industrial Technology 1997 WVU Tech A.S. Drafting and Design 1996 WVU Tech</p> <p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</p> <p>REGISTRATION (Type, Year, State)</p>			
<p>13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)</p>			
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML DESIGN EXPERIENCE:
24	24	Watts, Richard W. Project Geologist	24
<p>Brief Explanation of Responsibilities</p> <p>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.</p> <p>EDUCATION (Degree, Year, Specialization)</p> <p>B.S./1977/Geology M.S./1994/Geography</p> <p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS</p> <p>GSA, AEG</p> <p>REGISTRATION (Type, Year, State)</p> <p>P.G. Geology/1992/Virginia P.G. Geology/1993/Kentucky</p>			

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

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

Various surveying equipment:

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

GPS Equipment - Trimble 5700 Receiver (6), Trimble TSCe Controller/Handheld (5)

\*all equipment lists have various misc. survey equipment to go along (poles, tape measures, data collectors, etc.)

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

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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Jacobs Fork Complex McDowell County	WVDEP/AML&R	Surveying, Mapping and Design	\$750,000	0
Gilmer B Sites 3-8 Gilmer County	WVDEP/AML&R	Surveying, Mapping and Design	\$675,000	95
Rhodell Refuse & Portals, Wyoming County	WVDEP/AML&R	Surveying, Mapping and Design	\$1.2 M	95
Holden Water System Upgrade Logan County	Logan County PSD P. O. Box 506 Logan, WV Attn: Rick Roberts	Design and Construction Management	\$6.0 M	85
Gilbert Slabtown Waterline Extension	Town of Gilbert P.O. Box 188 Gilbert, WV Attn: John White	Design and Construction Management	\$1.5 M	85
Lavalette PSD Rt. 37 Waterline Extension	Lavalette PSD 5308 Route 152 Lavalette, WV	Design and Construction Management	\$5.0 M	85
Danese Waterline Extension	Danese Public Service District	Design and Construction Management	\$6.0 M	85
TOTAL NUMBER OF PROJECTS:			TOTAL ESTIMATED CONSTRUCTION COSTS: \$	



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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Upshur County Industrial Park Upshur County	Upshur County EDA	Design	\$4.0 M	95
Miller Mountain Water Extension, Webster County	Webster County EDA Webster Springs, WV	Design and Construction Management	\$3.0 M	80
McDowell PSD Jolo Phase II Water McDowell County	McDowell Public Service District	Design and Construction Management	\$4.0 M	85
Dille/Widen Water Extension Clay County	Birch River PSD	Design and Construction Management	\$4.0 M	85
Dutch Ridge/Sanderson Water Extension, Kanawha County	Kanawha County RDA	Design and Construction Management	\$2.5 M	85
Williamson Sanitary Sewer Improvements	City of Williamson	Design and Construction Management	\$1.1 M	85
Lubeck Sanitary Sewer Extension, Wood County	Lubeck PSD Lubeck, WV	Design and Construction Management	\$2.1 M	0
TOTAL NUMBER OF PROJECTS: 14			TOTAL ESTIMATED CONSTRUCTION COSTS: \$ 42 Million	



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 57 <sup>th</sup> 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

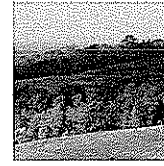
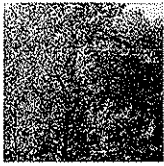
18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE FIRM ASSOCIATED WITH WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)

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 WDEP/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 WDEP/AML program. See attached additional information in Section 19.

20. The foregoing is a statement of facts.

Signature: Richard W. Watts Title: PROJECT MANAGER  
 Printed Name: Richard W. Watts Date: January 21, 2009



## 12A ABANDONED MINE LANDS RECLAMATION EXPERIENCE

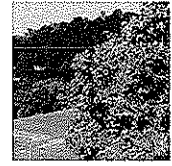
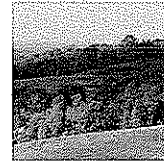
**Project:** **Jacob's Fork Complex**  
Boone County, WV  
**Year:** 2008-2009  
**Client:** WVDEP-AML  
Charleston, WV  
**Description:** Field surveying and mapping, subsurface investigation, design work for mine seals, drainage and reclamation.

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

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

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

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



## 12A ABANDONED MINE LANDS RECLAMATION EXPERIENCE

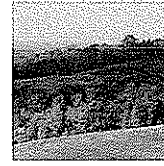
**Project:** **Rodgers Subsidence Emergency**  
Wellston, OH  
**Year:** January 2007  
**Client:** ODNR-AML  
1855 Fountain Square  
Columbus, OH  
**Description:** Performed site survey and prepared subsidence abatement design.

**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.



## 12A ABANDONED MINE LANDS RECLAMATION EXPERIENCE

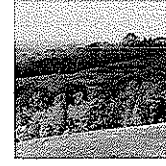
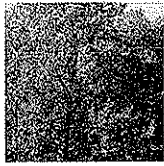
**Project:** Lavender Refuse Fire Emergency  
Meigs County, OH  
**Year:** November 2005  
**Client:** ODNR-AML  
1855 Fountain Square  
Columbus, OH  
**Description:** Performed abatement plan and monitored construction.

**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.



## 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.

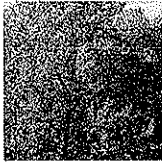
**Project:** **Parsons Landslide Emergency**  
 New Philadelphia, OH  
**Year:** December 2004  
**Client:** ODNR-AML  
 1855 Fountain Square  
 Columbus, OH  
**Description:** Performed site review and compiled report concerning landslide's relation to mining and potential solutions.

**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.





## 12A ABANDONED MINE LANDS RECLAMATION EXPERIENCE

**Project:** Jefferson County Road 26 Landslide Emergency  
Winterville, OH

**Year:** May 2004

**Client:** ODNR-AML  
1855 Fountain Square  
Columbus, OH

**Description:** Performed surveying and drilling and prepared plans and specifications to stabilize an emergency landslide area.

**Project:** Charleston Romeo Landslide  
Kanawha County, WV

**Year:** May 2004

**Client:** WVDEP-AML

**Description:** Performed surveying, drilling and design of landslide abatement.

**Project:** Roush Landslide Emergency  
Pomeroy, OH

**Year:** March 2004

**Client:** ODNR-AML  
1855 Fountain Square  
Columbus, OH

**Description:** Prepared plans and specifications to stabilize an emergency landslide area.

**Project:** Lewis Landslide Emergency  
Pomeroy, OH

**Year:** March 2004

**Client:** ODNR-AML  
1855 Fountain Square  
Columbus, OH

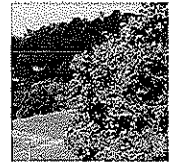
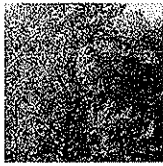
**Description:** Performed surveying and drilling and prepared plans and specifications to stabilize an emergency landslide area. Also provided construction monitoring.

**Project:** Moran Subsidence  
Clinton, OH

**Year:** January 2004

**Client:** ODNR-AML  
1855 Fountain Square  
Columbus, OH

**Description:** Prepared plans and specifications to stabilize an emergency subsidence area.



## 12A ABANDONED MINE LANDS RECLAMATION EXPERIENCE

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

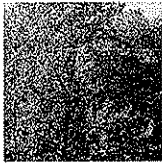
**Project:** **Gooney Otter Refuse**  
Wyoming County, WV  
**Year:** January 2004  
**Client:** WVDEP-AML  
**Description:** Performed surveying, drilling and site design for refuse regarding project.

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

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

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

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



## 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.

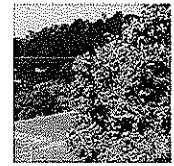
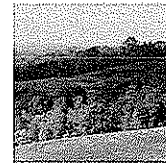
**Project:** Minden Refuse Pile Reclamation Project  
Fayette County, WV  
**Year:** September 2001  
**Client:** WVDEP-AML  
**Description:** Performed surveying and design for emergency project to upgrade drainage control.

**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  
Raleigh County, WV  
**Year:** October 2000  
**Client:** WVDEP-AML  
Charleston, WV  
**Description:** Performed surveying and design for regrading refuse.

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

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



## 12A ABANDONED MINE LANDS RECLAMATION EXPERIENCE

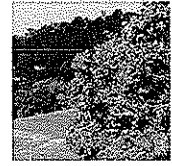
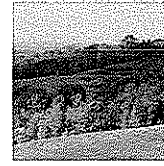
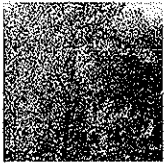
**Project:** Ven's Run Landslide  
 Harrison County, WV  
**Year:** September 1999  
**Client:** WVDEP-AML  
**Description:** Performed surveying and design for regraded landslide area.

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

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

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

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



## 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

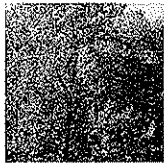
Solicited bids from core-boring contractors and performed core borings for highway and bridge for a replacement for a bridge that spans mainline tracks of the CSX Railroad in Kanawha County, West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis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



## 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.

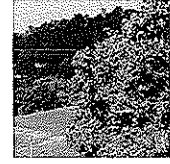
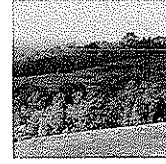
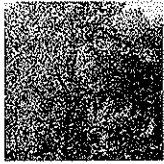
### Corridor H-Section 12 Section 03 (Davis to Bismarck)

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.



## 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.

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### 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.

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### 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.

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### 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.

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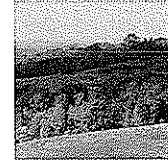
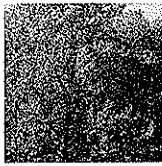
### I-64 Cross Roads Overpass Bridge

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.

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### 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.



## 12C HYDROLOGY AND HYDRAULICS

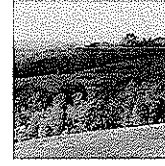
**Project:** Blennerhassett Island Bridge Over Ohio River  
**Year:** 1999-2003  
**Client:** Michael Baker Jr., Inc.  
 5088 Washington Street, West  
 Charleston, WV 25313  
**Contact:** Pi Amin, P.E.  
 Vice President Michael Baker Jr, Inc. (Southwest Region)  
 304-769-0821  
**Description:** Prepared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

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





## 12C HYDROLOGY AND HYDRAULICS

**Project:** Bridge No. 2922.1 NB & SB  
I-79 Over Left Hand Creek & US 119

**Year:** 2000

**Client:** West Virginia Department of Transportation  
Division of Highways  
Building 5  
1900 Kanawha Blvd. East  
Charleston, WV 25305

**Contact:** James Sothen, P.E., Director, Engineering Division  
304-558-0501

**Description:** Prepared an analysis of the hydraulic impact of the placement of a retaining wall for slope protection of the Left Hand Fork Bridge over Left Hand Creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-RAS program.

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

**Project:** Bridge No. 2448.1 – Simpson Creek Bridge  
I-79 Over Simpson Creek

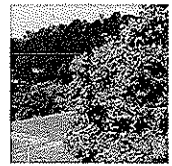
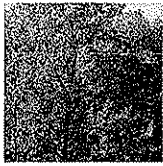
**Year:** 2000

**Client:** West Virginia Department of Transportation  
Division of Highways  
Building 5  
1900 Kanawha Blvd. East  
Charleston, WV 25305

**Contact:** James Sothen, P.E., Director, Engineering Division  
304-558-0501

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

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



## 12C HYDROLOGY AND HYDRAULICS

**Project:** Bridge No. 10059 – Ripley Town Bridge  
US 33 Over Mill Creek

**Year:** 1999

**Client:** West Virginia Department of Transportation  
Division of Highways  
Building 5  
1900 Kanawha Blvd. East  
Charleston, WV 25305

**Contact:** James Sothen, P.E., Director, Engineering Division  
304-558-0501

**Description:** Prepared an analysis of the hydraulic impact of the replacement Ripley Town Bridge over Mill Creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-RAS program.

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

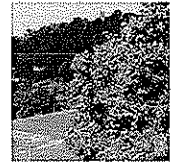
**Project:** Bridge No. 4732 – Jackson Bridge  
WV 18 Over Point Pleasant Creek

**Year:** 1999

**Client:** West Virginia Department of Transportation  
Division of Highways  
Office of the District Engineer, District 6  
903 3rd Street  
Moundsville, WV 26041

**Contact:** Daniel W. Sikora, P.E., District Engineer  
304-843-4008

**Description:** Prepared an analysis of the hydraulic impact of the replacement Jackson Bridge over Point Pleasant Creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-RAS program.



## 12C HYDROLOGY AND HYDRAULICS

**Project:** Bridge No. 4636 – Indian Creek Bridge  
CR 3/25 Over Big Coal River

**Year:** 1999

**Client:** West Virginia Department of Transportation  
Division of Highways  
Office of the District Engineer, District 1  
1334 Smith Street  
Charleston, WV 25301

**Contact:** John W. Dawson, P.E., District Engineer  
304-558-3001

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

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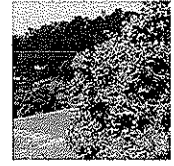
**Project:** Bridge No. 4769 – Tallman Bridge  
CR 24 Over Middle Island Creek

**Year:** 1999

**Client:** West Virginia Department of Transportation  
Division of Highways  
Office of the District Engineer, District 6  
904 3rd Street  
Moundsville, WV 26041

**Client:** Daniel W. Sikora, P.E., District Engineer  
304-843-4008

**Description:** Prepared an analysis of the hydraulic impact of the replacement Tallman Bridge over Middle Island Creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-RAS program.



## 12C HYDROLOGY AND HYDRAULICS

**Project:** Bridge No. 10058 – Meadowbrook Road Bridge  
CR 24 Over West Fork River

**Year:** 1999

**Client:** West Virginia Department of Transportation  
Division of Highways  
Building 5  
1900 Kanawha Blvd. East  
Charleston, WV 25305

**Contact:** James Sothen, P.E., Director, Engineering Division  
304-558-0501

**Description:** Prepared an analysis of the hydraulic impact of the new Meadowbrook Road Bridge over the West Fork River and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process and the Harrison County Flood Insurance Study model of the West Fork River was also used. Computer modeling was prepared using the USACE 1-D HEC-RAS program.

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

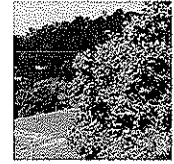
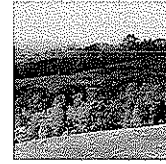
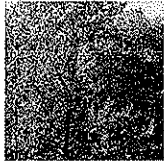
**Project:** Bridge No. 4426 – Lower Gassaway Bridge  
WV 4 Over Elk River

**Year:** 1999

**Client:** West Virginia Department of Transportation  
Division of Highways  
Building 5  
1900 Kanawha Blvd. East  
Charleston, WV 25305

**Contact:** James Sothen, P.E., Director, Engineering Division  
304-558-0501

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



## 12C HYDROLOGY AND HYDRAULICS

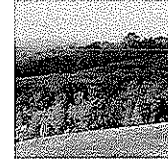
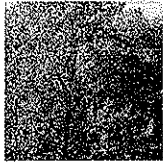
**Project:** Bridge No. 4574 – Camp Creek Bridge  
WV 52 Over Camp Creek

**Year:** 1998

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

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

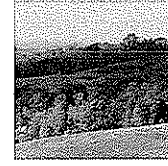
**Description:** Prepared analyses of the hydraulic impact of the Camp Creek Bridge over Camp Creek and prepared the appropriate hydraulic and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling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



## 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



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

### Registrations

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

### Professional Experience

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

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

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

### Professional Memberships

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

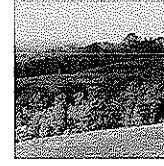
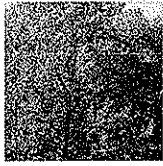
### Offices Held

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

### Honors Awarded

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





**RICHARD W. WATTS, P.G.**

*PROJECT MANAGER*

**Education**

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

**Professional Registrations**

Registered Professional Geologist, Kentucky, 1993, No. 159  
Certified 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.

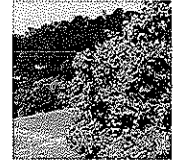
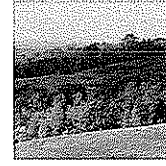
Mr. Watts is primarily an engineering geologist whose range of project experience has encompassed numerous projects concerning geologic investigation, rock and soils engineering, landslides, land reclamation, forensic damage investigations, hydrogeology and the coal industry.

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.



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

*PROJECT ENGINEER*

**Education**

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

**Registrations**

Registered Professional Engineer in West Virginia and Ohio

Registered Professional Surveyor in West Virginia

**Professional Memberships**

American Society of Civil Engineers

**Professional Experience**

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

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

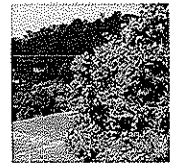
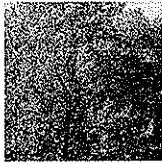
He has designed numerous waterline extensions and sewer collection systems. These extensions have included providing service to many residential as well as industrial customers. The sewer collection systems have included design of systems to collect sewage from residential and industrial sites. Mr. Cart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

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

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

His experience includes permitting activities for projects which have included:

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



**JOHN R. KELLY, II, E.I.**

*PROJECT DESIGNER*

**Education**

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

**Computer Skills**

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

**Professional Memberships**

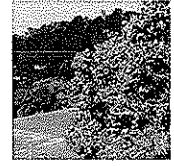
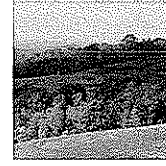
American Society of Civil Engineers

**Professional Experience**

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

**Representative Projects**

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



**RANDALL L. LACKEY, P.E.**

*PROJECT ENGINEER*

**Education**

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

**Registrations**

Registered Professional Engineer in West Virginia, Ohio and Kentucky

**Professional Memberships**

American Society of Civil Engineers  
Society of American Military Engineers

**Computer Skills**

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

**Professional Experience**

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

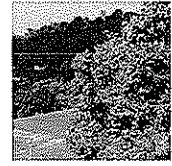
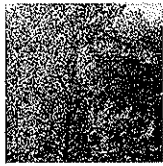
**Representative Projects**

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

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

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

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



**MARK A. McGETTIGAN, P.E.**

*PROJECT MANAGER*

**Education**

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

**Registrations**

Registered Professional Engineer in West Virginia

**Professional Memberships**

American Society of Civil Engineers

**Professional Experience**

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

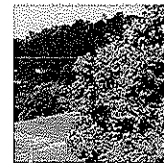
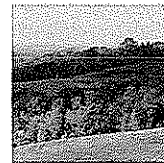
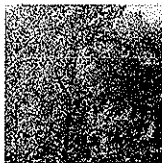
Mr. McGettigan has taken several large water and wastewater projects from the initial development phase through the construction phase. This includes writing the preliminary engineering report, developing funding scenarios, designing the system, developing the plans and specifications, developing the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

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

**Representative Projects**

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

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



**JAMES T. RAYBURN, P.S.**

*CHIEF SURVEYOR*

**Education**

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

**Registrations**

Registered Professional Surveyor in West Virginia

**Professional Memberships**

American Congress on Surveying and Mapping

The American Association for Geodetic Surveying (AAGS), a Member Organization of ACSM

Cartography and Geographic Information Society (CaGIS)

Geographic and Land Information Society (GLIS)

National Society of Professional Surveyors (NSPS)

West Virginia Association of Land Surveyors, Inc.

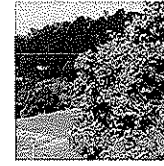
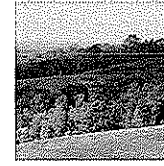
**Professional Experience**

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

**Representative Projects**

**Design Surveys**

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



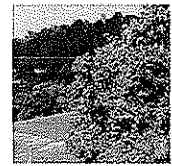
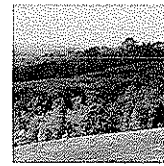
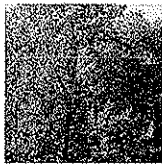
**JAMES T. RAYBURN, P.S.**

*CHIEF SURVEYOR*

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

**Construction Surveys**

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



## RONALD L. WILLIAMS, II

SURVEYOR/INSPECTOR

### **Education**

Graduate, Sissonville High School, 1978

### **Professional Experience**

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

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

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

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

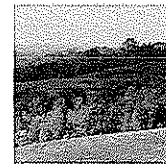
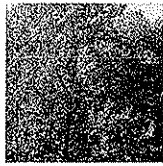
Mr. Williams has been involved both as a surveyor and inspector on all major projects performed by E.L. Robinson. Mr. Williams has performed extensive courthouse research on numerous survey projects and is responsible for the field work associated with the AML projects.

### **Representative Projects**

Mr. Williams has worked on the following projects:

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





## MICHAEL HODGES

INSPECTOR/TECHNICIAN

### **Education**

B.A. in Finance, Marshall University, 1995

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

### **Certifications**

Certified WVDOH Compaction Technician

Certified WVDOH Aggregate Inspector

ACI Concrete Technician

Certified Water Sample Collector

### **Professional Experience**

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

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

### **Representative Projects**

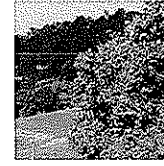
Mr. Hodges has performed construction inspections on the following projects:

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

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

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

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



## 19 PROJECT SPECIFIC QUALIFICATIONS

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

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

- A. ELR has 10 registered professional engineers (civil or mining) and four engineers in training as well as several CADD technicians that may be used on these teams. We have recently hired two additional CADD technicians to enhance our capabilities and we have hired the entire staff from Ackenheil Engineers.
- B. ELR has recent experience in designing more than 40 abandoned mine land remediation projects. This does not include the projects that Tim Carte and the Ackenheil staff have been responsible for prior to joining ELR. This number does not include water studies/design or surveying/mapping/drilling projects.
- C. ELR has four reclamation design teams lead by Tim Cart and other professional engineers.
  - » Tim Cart/John Kelly/Jason Mayes
  - » Tim Cart/Rich Watts/Gary Workman/Scott Pratt
  - » Mark McGettigan, P.E./Joey Jude/Wendell Williams
  - » Brian Morton, P.E./Shawn Kelly/Wendell Williams









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](http://www.state.wv.us/admin/purchase/privacy) for the Notice of Agency Confidentiality Policies.

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

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

Authorized Signature:  Date: 1/21/2009