October 26, 2011

**EXPRESSION OF INTEREST** 

### ORIGINAL

### FAIRMONT (JACKSON ADDITION) SUBSIDENCE DEP15594

MARION COUNTY, WEST VIRGINIA



the Challenge. the Choice.

RECEIVED

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STATE OF WV

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

Fax: (304) 776-6426 www.elrobinson.com



RFQ COPY

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

#### Request for pronumber Quotation

DEP15594

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		1

ADDRESS CORRESPONDENCE TO ATTENTION OF

CHUCK BOWMAN 304-558-2157

**ENVIRONMENTAL PROTECTION** CHARLESTON, WV

TYPE NAME/ADDRESS HERE DEPARTMENT OF E.L. Robinson Engineering Co. OFFICE OF AML&R 601 57TH STREET SE 5088 Washington Street West Charleston, WV 25313 25304 304-926-0499

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SIGNATURE Project M	ichn/	<i>M</i> ⋅	Walls	SEE RE	***************************************	OR TERMS AND C		4-776-7473	DATE	10-26-11 TO BE NOTED ABOVE



October 26, 2011

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: Fairmont (Jackson Addition) Subsidence Design

DEP15594

**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, and construction monitoring services associated with the design of the Fairmont (Jackson Addition) Subsidence project located in Marion County.

We have completed plans and specifications for numerous reclamation and waterline projects for WVDEP/AML over twelve years. In addition, we have completed numerous projects with ODNR. 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.

The ELR staff has combined experience in the design of more than 125 AML projects.

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

- A. Thirteen (13) registered professional engineers (civil or mining), two (2) geologists, two (2) Landscape architects, four (4) engineers in training as well as several CADD technicians that may be used on these teams.
- B. ELR Corporate experience in designing nearly fifty (50) abandoned mine land remediation projects. Personal experience on approximately one hundred sixty-eight (168) AML projects. This number does not include surveying/mapping/drilling projects.
- E. L. Robinson Engineering Co. has grown from 13 employees in 1996 to over 80 employees today. 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.

Richard W. Wall

By:

Richard W. Watts, P.G.

Project Manager



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#### **Executive Summary**

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

#### **Understanding of Project Requirements**

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

#### Firm's Capacity

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

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

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



### 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.

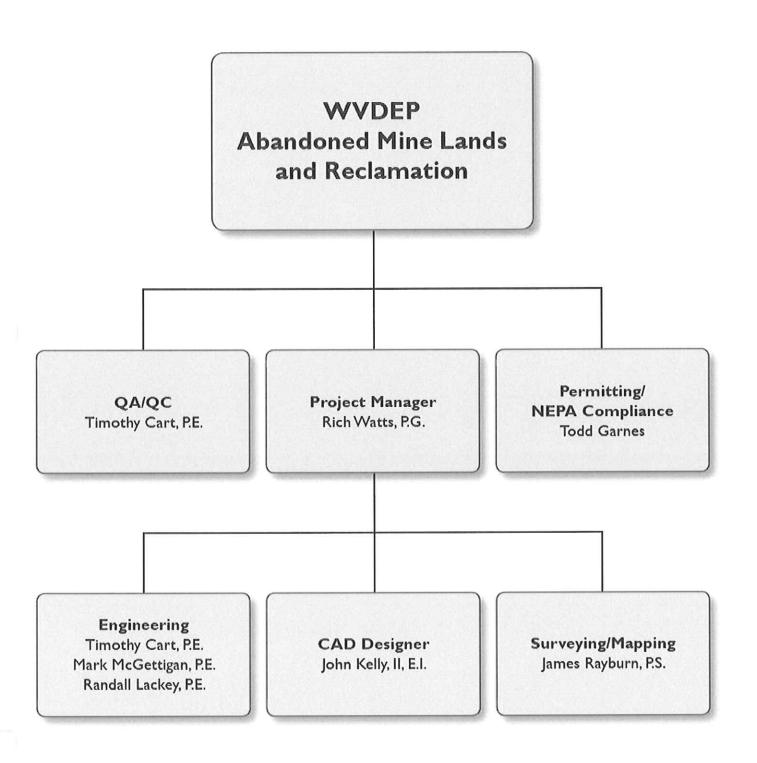
Our staff is well-qualified and experienced in related reclamation projects. They have the knowledge and capabilities to perform all of the tasks required for your project. In addition to your primary project team, other members of our organization may be called upon from time to time to provide their 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-notched civil engineering firms in the region. Our offices are staffed with professionals experienced in AML reclamation mapping, permitting, design and construction monitoring projects with more than 50 employees, including 10 registered professional engineers, degreed design engineers, construction inspectors and a support team of administrative and technical personnel to assist the WVDEP/AML.

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

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





#### **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:

- Brownton (McCord) Landslide –2010
- Island Creek #18 Mine Complex -2010
- Keystone (Avery) Landslide and Portal –2010
- Jacob's Fork Complex –2008
- Rhodell Refuse and Portals –October 2008
- Gilmer B Sites 3-8 –2008
- Ohio DNR Emergency Reclamation 19 sites completed
- Toney Fork Landslide Emergency –2006
- North Matewan –2005
- Big Creek "C" Refuse -2004
- Charleston Romeo Landslide –2004
- Gooney Otter Refuse –2004
- Chapmanville (Gorby) Mine Blowout December 2003



		- 11		
7	WEST VIRGINIA AML CONSULTANT	INIA DEPARTMENT TANT CONFIDENTIAL	NT ENVIRONMENTAL PROTECTION TIAL QUALIFICATION QUESTIONNAIRE	Attachnt "B"
PROJECT NAME Fairmont (Jackson Addition) Design DEP15594	Subsidence	DATE (DAY, MONTH, October 26, 2011	YEAR) FEIN 55-0594633	
1. FIRM NAME E.L. Robinson Engineering Co		2. HOME OFFICE B 5088 Washington Charleston, WV 2	BUSINESS ADDRESS 3. FORMER FIRM NAME Street, West 25313	щ
4. HOME OFFICE TELEPHONE 304-776-7473	5. ESTABLISHED 1978	SHED (YEAR)	6. TYPE OWNERSHIP Individual x Corporation (Disadvantaged Partnership Joint-Venture Enterprise)	WV REGISTERED DBE advantaged Business rprise) x NO
7. PRIMARY AML DESIGN OFFICE: 5088 Washington Street, West Charleston, WV 25313	: ADDRESS/ TELEPHON 304-776-7473/Tim	E/ PERS Cart,	ON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH P.E./56 Staff in Charleston Area	OFFICE
8. NAMES OF PRINCIPAL OFFICERS Ed Robinson, P.E. 304 776-7473	RS OR MEMBERS 73 Ext 211	S OF FIRM	8a. NAME, TITLE, & TELEPHONE NUMBER - OTHI	OTHER PRINCIPALS
9. PERSONNEL BY DISCIPLINE				
6 ADMINISTRATIVE ARCHITECTS BIOLOGIST 7 CADD OPERATORS — CHEMICAL ENGINEERS	- ECOLOGISTS - ECONOMISTS - ELECTRICAL - ENVIRONMEN - ESTIMATORS	ECOLOGISTS ECONOMISTS ELECTRICAL ENGINEERS ENVIRONMENTALISTS ESTIMATORS	2 LANDSCAPE ARCHITECTS 6 STRUCTURA  — MECHANICAL ENGINEERS 7 SURVEYORS  MINING ENGINEERS — TRAFFIC E  PHOTOGRAMMETRISTS — OTHER  PLANNERS: URBAN/REGIONAL  CANTARY PMCINEERS	STRUCTURAL ENGINEERS SURVEYORS TRAFFIC ENGINEERS OTHER
ОДД	f 1	ISIS IANS OGISTS		L PERSONNEL
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS *RPEs other than Civil and Mining must provide suppor supervise and perform this type of work.	ISTERED PROFESSIC . and Mining must this type of work	OFESSIONAL ENGINEE of must provide sup of work.	NEERS IN PRIMARY OFFICE: 13_supporting documentation that qualifies them	ç
10. HAS THIS JOINT-VENTURE W	WORKED TOGETHER	HER BEFORE?	YES NO X This is not applicable	

Quescionnaire" for each if copy	USED. Attach "AML L.	Consultant Confidential Qua: Cation
NAME AND ADDRESS:  Drilling	SPECIALTY: Drilling	WORKED WITH BEFORE
Novel Geo – Environmental (NGE) 806 B Street, St. Albans, WV		XYES
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		YES
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		YES
NAME AND ADDRESS:	SPECIALTY:	NO WORKED WITH BEFORE
		YES
יייייייי איניזיי	CDECTAT TX.	NO NO NO NICOBVED MITTH BEEODE
NAME AND ADDRESS:	SPECIALIY:	WORKED WITH BEFORE  YES
		ON
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		YES
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NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		YES
		ON
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		YES
		ON THOUTH WITH STATES
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		YES
		NO

12. A Is your firm experienced in Abandoned Mine Lar Remediation/Mine Reclamation Engineering?  X YES Description and Number of Projects: Eighty-nine (89) Projects - See Attached Sheet
NO -
B. Is your firm experienced in Soil Analysis? $\underline{X}$ YES Description and Number of Projects: Eighteen (18) Projects Listed - See attached Sheet
NO _
C. Is your firm experienced in hydrology and hydraulics? $\underline{X}$ YES Description and Number of Projects: Ten (10) Projects Listed - See attached sheet
ON T
D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?
$\underline{X}$ YES Description and Number of Projects: > 200 - in Firm History - 65 Recent Projects Listed
All ELR WV & OH AML Projects since 2003 have been surveyed with ELR Surveying Staff
ON —
E. Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.)
X YES Description and Number of Projects: Sixty-eight (68) Total Eleven (11) Domestic Waterline Experience (AML Related) Thirty-two (32) Evaluation of Aquifer Degradation Twenty Five (25) Non-AML Domestic Water Lines
vonr firm experienced
Evaluation and Abatement Design?
$\underline{\mathtt{X}}$ YES Description and Number of Projects: Seven (7) Projects

13. PERSONAL HISTORY STATEMENT C data but keep to essentials)	F PRINCIPALS AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT DI	DESIGN (Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Edward L. Robinson, President	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 25	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	lities		
Mr. Robinson worked in the Right of major utility plans. He has extens land acquisition. He has provided Provide and coordinate Quality Cont	Way Division of the Wive experience in prope quality control on all rol on all design proje	of Highways for property title igned by this fi	or ten years where he reviewed Le searches, aerial mapping and firm for the past 25 years.
EDUCATION (Degree, Year, Specia	Specialization)		
Bachelor of Science 1969 Civil Master of Science 1981 Civil	Engineering Engineering		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	NIZATIONS	REGISTRATION (Type, Year, Sta	State)
American Society of Civil Engineers American Council of Engineering Comp National Society of Professional Eng	eers – Past President WV Companies 1 Engineers	1975 Civil Engineering Registered in West Virginia and Ke Professional Licensed Surveyor No.	and Kentucky or No. 1150
ONAL HISTORY STATEMENT to essentials)	PRINCIPALS AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT DI	DESIGN (Furnish complete data
NAME & TITLE (Last, First, Middle		YEARS OF EXPERIENCE	
Richard W. Watts, P.G.	YEARS OF AML DESIGN EXPERIENCE: 28	YEARS OF AML RELATED DESIGN EXPERIENCE: 33	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 1
Brief Explanation of Responsibilities Mr. Watts has served as project geolo include project management, field recanalysis, specification writing, quan Projects included surface and deep mi	ties reologist on more l reconnaissance, quantity determin	) abandoned mine land nation, laboratory tes timates, pre-bid and p	projects. Responsibilities iting and analysis, stability re-construction meetings. rline feasibility studies.
EDUCATION (Degree, Year, Specia B.S./1977/Geology M.S./1994/Geography	Specialization)		
MEMBERSHIP IN PROFESSIONAL ORGAN Geological Society of America Association of Engineering Geol	ORGANIZATIONS .ca Geologists	REGISTRATION (Type, Year, State) Professional Geologist/1992/Virginia Professional Geologist/1993/Kentucky	ate) Virginia Kentucky
			=

In in Mingo PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data Cart 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. 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. YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: Mr. Cart has extensive experience in the design and construction management of waterline extension projects. Mr. Ca 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 compl Mr. Kelly has performed layout and inspection of core drilling operations for bridge and roadway projects. addition, he has designed cut slopes for large-scale roadway projects such as the US Route 52 Kermit Bypass County, WV and Meadowbrook Road in Harrison County, WV. (Furnish ESPONSIBLE FOR AML PROJECT DESIGN State) REGISTRATION (Type, Year, State) REGISTRATION (Type, Year, St Professional Engineer WV OH RELATED DESIGN YEARS OF AML RELATED DESIGN EXPERIENCE: YEARS OF EXPERIENCE EXPERIENCE Engineer Intern, WV OF YEARS OF AML EXPERIENCE: YEARS YEARS OF AML DESIGN EXPERIENCE: YEARS OF AML DESIGN EXPERIENCE: PRINCIPALS AND ASSOCIATE. 1981 Civil Engineering MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS EDUCATION (Degree, Year, Specialization) Specialization) Brief Explanation of Responsibilities Brief Explanation of Responsibilities OF data but keep to essentials) B.S. Civil Engineering/1998/WVU STATEMENT NAME & TITLE (Last, First, Middle NAME & TITLE (Last, First, Middle EDUCATION (Degree, Year, but keep to essentials) AL HISTORY Timothy B. Cart, P.E. Science н. John Kelly II, embankments. of Bachelor 13. PER. Int.) Int.)

13. PER. AL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATE, data but keep to essentials)	ESPONSIBLE FOR AML PROJECT DESIGN	ESIGN (Furnish compi
Fir	YEARS OF EXPERIENCE	
Mark McGettigan, P.E.	YEARS OF AML RELATED DESIGN EXPERIENCE: 7	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities		
ettigan has worked on several AML projects since s, estimated and checked quantity calculations. s designed by E. L. Robinson Engineering Co. He	joining our firm. He has developed He has also served as a field inspec has been the lead designer on waterl	He has developed grading plans, cross as a field inspector for several waterline designer on waterlines over the past five
years. Mr. McGettigan also has experience with surveying and equipment He has also performed various concrete and soil tests and is cer	including; theodolites, tified on Troxler nucles	levels, and total stations. Ir density gage.
EDUCATION (Degree, Year, Specialization)		
B.S. Civil Engineering Technician/Fairmont State/1999		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, St.	State)
	Professional Engineer WV	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES but keep to essentials)	RESPONSIBLE FOR AML PROJECT D	DESIGN (Furnish complete data
E & TITLE	YEARS OF EXPERIENCE	
Randall L. Lackey, P.E.	YEARS OF AML RELATED DESIGN EXPERIENCE: 8	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities Mr. Lackey has performed hydraulics and scour for Ripley To Creek Bridge; Kermit Bypass Bridge; Left Hand Fork Bridge;	for Ripley Town Bridge; Tallman Bridge; Mea Fork Bridge; and Blennerhassett Bridge.	    Meadowbrook Road Bridge; Simpson
Mr. Lackey has also performed calculations for deck drainag analysis; prepared design study reports; type, size and loc Highways projects.	drainage; performed girder design and and location reports and final plans o	l analysis; pier design and on many of our Division of
EDUCATION (Degree, Year, Specialization)		
B.S. Civil Engineering/1999		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, St	State)
	Professional Engineer WV	

types of coal mining, designed mine drainage and water supply systems for underground and surface mines, designed mine data ventilation plans and systems which include precision pressure quality surveys and computer simulation of ventilation Mr. Garnes experience surveying and providing CADD Design for mine reclamation projects and waterline and sewer extrusions. He has provided construction inspection services for landsides and subsidence projects in Ohio. Mr. Garnes has performed numerous water feasibility studies, which involved interviews, water sampling and analysis, Mr. Rayburn has experience in mine mapping and surveying, formulated short term and long range mining plans for all YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: (Furnish complete 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. comp. systems. He has performed slope stability analysis and hydrology calculations, provides computer analysis for mining (Furnish PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN ESPONSIBLE FOR AML PROJECT DESIGN REGISTRATION (Type, Year, State) State Year, Mr. Rayburn has also performed surveying and mapping for large scale highway projects. YEARS OF AML RELATED DESIGN EXPERIENCE: RELATED DESIGN Surveyor WV EXPERIENCE YEARS OF EXPERIENCE REGISTRATION (Type, S YEARS OF Professional 30 YEARS OF AML EXPERIENCE: YEARS OF AML DESIGN EXPERIENCE: TEARS OF AML DESIGN EXPERIENCE: PRINCIPALS AND ASSOCIATE. mapping, mine research, and development of final reports. S Computer Aided Drafting and Design/ 1999 MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS EDUCATION (Degree, Year, Specialization) EDUCATION (Degree, Year, Specialization) S. Mechanical Engineering, WVIT/1970 Brief Explanation of Responsibilities Brief Explanation of Responsibilities OF OF data but keep to essentials) A.S. Architectural Design/ 1999 A.S. Computer Aided Drafting and STATEMENT 13. PERSONAL HISTORY STATEMENT NAME & TITLE (Last, First, Middle NAME & TITLE (Last, First, Middle but keep to essentials) AL HISTORY Thomas Rayburn, P.S. J. Todd Garnes 13. PER Int.) Int.) A.

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 complete data 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. YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: In addition, YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: Water Plant Operator. Mr. Tilley has successfully completed numerous waterline design His current duties include managing both water and wastewater design projects for ELR. compl 30 (Furnish (Furnish and wastewater design as a Project Manager/Engineer. ESPONSIBLE FOR AML PROJECT DESIGN PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN REGISTRATION (Type, Year, State) State Year, YEARS OF AML RELATED DESIGN EXPERIENCE: RELATED DESIGN Professional Engineer WV Professional Engineer WV YEARS OF EXPERIENCE YEARS OF EXPERIENCE Sanitary Engineering Virginia Tech, 1976 REGISTRATION (Type, S  $\vdash$ YEARS OF AML EXPERIENCE: (EARS OF AML DESIGN EXPERIENCE: YEARS OF AML DESIGN EXPERIENCE: PRINCIPALS AND ASSOCIATE. Corridor H from Grant/Hardy County line to Moorefield Brief Explanation of Responsibilities
Mr. Tilley has over 30 years experience in water
Mr. Tilley is a certified Water Plant Operator.
projects over his career. His current duties inc Н B.S. Civil Engineering/WV Tech 1975; M.S. MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS EDUCATION (Degree, Year, Specialization) EDUCATION (Degree, Year, Specialization) Brief Explanation of Responsibilities OF OF data but keep to essentials) STATEMENT STATEMENT NAME & TITLE (Last, First, Middle TITLE (Last, First, Middle B.S. Civil Engineering/1997 but keep to essentials) AL HISTORY PERSONAL HISTORY Scott LeRose, P.E ы. Ray Tilley, P. 13. PER. NAME &

-		Ç	
NAME & TITLE (Last, First, Middle Int )		YEARS OF EXPERIENCE	
James Eric Gwinn, E.I.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 10	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	lities		
Mr. Gwinn has experience in consrequirements. He has worked on Plateau Regional Water Project.  We will be designed approach to the construction of the construction o	layout for waterli 11 County Water Pro performed calculati ecks and extensive	거양이	He performs calculation and permit aw water intake structure for the Fayette; AML project.
EDUCATION (Degree, rear, specialization)  B.S. Civil Engineering/1998/ West Virginia	ia Institute of	Technology	
MEMBERSHIP IN PROFESSIONAL ORGA	ORGANIZATIONS	REGISTRATION (Type, Year, St	State)
13. PERSONAL HISTORY STATEMENT but keep to essentials)	OF PRINCIPALS AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT D	DESIGN (Furnish complete data
TLE		YEARS OF EXPERIENCE	
Brian D. Morton, P.E.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 2	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	lities		
Mr. Morton has worked on waterline extension projects in Putnam and Kanawha County waterline relocation projects involving the West Virginia Division of Highways.	ine extension projects in Put nvolving the West Virginia Di	не	also has completed numerous
Mr. Morton has prepared signing and parculverts and other drainage structures specifications, bid documents, and has	g and pavement marking plans cuctures and highway constructiond has performed constructions.	erformed hydrologic Also prepared site ministration for the	and hydraulic calculations for development plans, se projects.
EDUCATION (Degree, Year, Specia	Specialization)		
B.S. Civil Engineering/1998			
MEMBERSHIP IN PROFESSIONAL ORGA	ORGANIZATIONS	REGISTRATION (Type, Year, St	State)
		Professional Engineer WV	

data but keep to essentials)			
NAME & TITLE (Last, First, Middle		YEARS OF EXPERIENCE	
Carney, Joseph T. P.E.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 35
Brief Explanation of Responsibilities	lities		
Mr. Carney has extensive experience in and contract administration. He has wo storm sewer, drainage studies, roadway,	design engineeri rked on a variet bridge design,	ng, preparation of contract documents, construction y of Civil Engineering projects including grading, hydrologic/hydraulic reports, sanitary sewer and water	nts, construction inspection, cluding grading, earthwork, cary sewer and water systems.
EDOCALION (Degree, rear, Specializacion	ידיבמרדסזו)		
MEMBERSHIP IN PROFESSIONAL ORGA	ORGANIZATIONS	REGISTRATION (Type, Year, Sta	State)
		Professional Engineer, 1976,	WV
13. PERSONAL HISTORY STATEMENT but keep to essentials)	OF PRINCIPALS AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT DI	DESIGN (Furnish complete data
NAME & TITLE (Last, First, Middle		YEARS OF EXPERIENCE	
Workman, Gary A., CADD Senior Technician	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 22	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
			m
Brief Explanation of Responsibilities Mr. Workman is responsible for CADD d WVDEP/AML projects while employed at	esign on AML projects, Ackenheil, and has work	well as geotechnical soil on 18 AML projects while a	analysis. He Worked on 44 at E. L. Robinson.
EDUCATION (Degree, Year, Specialization) Technical School/1987/CADD	lization)		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	INIZATIONS	REGISTRATION (Type, Year, State) WVDOH certifications compaction,	State) ction, aggregates and concrete.

is, Jason M.  If Explanation of Responsibilities ides CADD Design for site developmer ily ten years experience in WV DOT de ATION (Degree, Year, Specialization) Industrial Technology 1997 WVU Tech Drafting and Design 1996 WVU Tech Drafting and Design 1996 WVU Tech Drafting and Sign 1996 WVU Tech Drafting and Session 1996 WVU Tech PERSONAL HISTORY STATEMENT OF PRINCI keep to essentials)	EXPERIENCE:  ine and sewe a prior fir	YEARS OF EXPERIENCE  SARS OF AML RELATED DESIGN  extensions, and layout on  GISTRATION (Type, Year, S  SPONSIBLE FOR AML PROJECT  VEARS OF EXPERIENCE	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 2 AML Projects. Mr. Mayes has ate)
Explanation of Responsibilities  des CADD Design for site developmer y ten years experience in WV DOT de TION (Degree, Year, Specialization) Industrial Technology 1997 WVU Tech Drafting and Design 1996 WVU Tech ERSONAL HISTORY STATEMENT OF PRINCI Geep to essentials)	EXPERIENCE:  Ine and sewe a prior fir	SARS OF AML RELATED DESIGN (PERIENCE: 2 extensions, and layout on GISTRATION (Type, Year, S SPONSIBLE FOR AML PROJECT VEARS OF EXPERIENCE	ARS OF DOMESTIC WATERLINSIGN EXPERIENCE:  2  Projects. Mr. Mayes
Explanation of Responsibilities  des CADD Design for site development, y ten years experience in WV DOT designIION (Degree, Year, Specialization)  Industrial Technology 1997 WVU Tech Drafting and Design 1996 WVU Tech ERSHIP IN PROFESSIONAL ORGANIZATIONS  ERSONAL HISTORY STATEMENT OF PRINCIPAL  ERSONAL HISTORY STATEMENT OF PR	ine and sewe a prior fir	extensions, and layout on .  EGISTRATION (Type, Year, S  SPONSIBLE FOR AML PROJECT  VEARS OF EXPERIENCE	Projects. Mr. Mayes
des CADD Design for site development,  y ten years experience in WV DOT desig TION (Degree, Year, Specialization) Industrial Technology 1997 WVU Tech Drafting and Design 1996 WVU Tech ERSHIP IN PROFESSIONAL ORGANIZATIONS ERSONAL HISTORY STATEMENT OF PRINCIPAL eep to essentials)  & TITLE (Last, First, Middle	ine and sewe a prior fir	extensions, and layout on .  EGISTRATION (Type, Year, S SPONSIBLE FOR AML PROJECT VEARS OF EXPERIENCE	Projects. Mr. Mayes
ITION (Degree, Year, Specializ Industrial Technology 1997 WV Drafting and Design 1996 WVU RSHIP IN PROFESSIONAL ORGANIZ FRSONAL HISTORY STATEMENT OF GED to essentials)	AND ASSOCIATES R	NN (Type, Year, S FOR AML PROJECT	te)
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PERSONAL HISTORY STATEMENT OF keep to essentials)	AND ASSOCIATES	FOR AML PROJECT	
હ્ય		G F	DESIGN (Furnish complete data
45		5	
Scott A. Pratt EXPERIENCE:	DESIGN	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Τ.	11	11	
Brief Explanation of Responsibilities			
isive experience ing water level map research,	Gec lso	ologist, performing test boring over-sight, logging soil and core performed many geotechnical soil tests in the laboratory. He is writing, and quantity and cost calculations for AML projects.	, logging soil and core the laboratory. He is also s for AML projects.
EDUCATION (Degree, Year, Specialization)			
B.S. Geology, 1999, Marshall University			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	te)

14. PRC 3 A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE A. DESIGN SERVICES
Various computer hardware and software including: Microstation, InRoads, AutoCAD, ELRSoil, Microsoft Office applications,
Various surveying equipment:
Instruments - Topcon Total Station (6), Trimble Robotic DR200+ (2)
5700 Receiver (6), ave various misc. s
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.

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PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Keaton Branch Complex Raleigh County	McDowell County	Surveying, Mapping and Design	\$512,500	66
Gordon 'C' Complex Boone County	WVDEP/AML&R	Surveying, Mapping and Design	\$381,700	98
Newtown (Kinder) Portals Mingo County	WVDEP/AML&R	Surveying, Mapping and Design	\$250,000	68
Shinnston-Lumbperport Subsidence Harrison County	WVDEP/AML&R	Surveying, Mapping and Design	\$500,000	90
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	80
Gilbert Slabtown Waterline Extension	Town of Gilbert P.O. Box 188 Gilbert, WV Attn: John White	Design and Construction Management	\$2.3 M	15
Lavalette PSD Rt. 37 Waterline Extension	Lavalette PSD 5308 Route 152 Lavalette, WV	Design and Construction Management	\$5.0 M	85
TOTAL NUMBER OF PROJECTS:	: :	TOTAL ESTIM	TOTAL ESTIMATED CONSTRUCTION COSTS:	₩

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PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Danese Waterline Extension	Danese Public Service District	Design and Construction Management	X 0.9\$	85
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	50
Lubeck Sanitary Sewer Extension, Wood County	Lubeck PSD Lubeck, WV	Design and Construction Management	\$2.1 M	0
TOTAL NUMBER OF PROJECTS:14	S:14	TOTAL ESTIMA	ESTIMATED CONSTRUCTION COSTS:	\$ 37.6 Million

$\bigcirc$		TRUCTION COST	YOUR FIRMS RESPONSIBILITY				
	RS	ESTIMATED CONSTRUCTION COST	ENTIRE PROJECT				
	A SUB-CONSULTANT TO OTHERS	ESTIMATED COMPLETION DATE					
	SERVING AS	NAME AND ADDRESS OF OWNER					
	CURRENT ACTIVITIES ON WHICH YOUR FIRM IS	NATURE OF FIRMS RESPONSIBILITY					
	16. CURRENT ACTIVITI	PROJECT NAME, TYPE AND LOCATION					

TACTO TO THE MORE WITHHIS TO THE	S VEARS ON WHICH VOITE FIRM	AS THE DESTGNATED ENGINEER OF RECORD		
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION CO	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	×0.6\$	2008	No
WVDEP-Emergency East Bank (Willis) Mine Blowout	WVDEP AML&R 601 57 <sup>th</sup> Street Charleston, WV 25304	\$0.8 M	2009	Yes
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
Gilmer B Sites 3-8 Gilmer County	WVDEP-AML&R 601 57 <sup>th</sup> Street Charleston, WV 25304	\$675,000	2009	Yes
Upshur County Industrial Park Upshur County	Upshur County EDA	\$4.0 M	2009	Yes

18. CCMPLETED WORK WITHIN LAST 5 OF WORK FOR WHICH YOUR FIRM	YEARS WAS RE	YOUR FIRE HAS BEEN A	SULTANT	SUB-CONSULTANT TO OTHER FIRMS	(INDICAL_PHASE
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. Post Design Services	\$7,500,000	2008	S ⊗ S	Michael Baker, Jr., Inc.
Appalachian Corridor H Section 6 X316-H-100.40	Sub to Michael Baker Jr., Inc. Surveying, ROW questionnaires, Hydraulic Studies	\$950,000	2008	Yes	Michael Baker, Jr., Inc.
Appalachian Corridor H Section 3 Davis to Bismark	Sub to Modjeski & Masters Survey,Geotech & ROW Plans	\$9,000,000	2008	No	Modjeski & Masters
Robinson Creek Bridge S303-85-27.81 Boone County	Sub to EDG Roadway, Surveying, Structures, Hydraulic Studies, ROW Plans	\$1,000,000	2008	Yes	EDG
19. Use this space to qualifications to E. L. Robinson Eng mapping and construction the wor	provide any addit perform work for ineering Co. is g uction monitoring k offered by the	ormation or description lirginia Abandoned Mine to the WVDEP/AML programin a timely and cost-ef program.	of resources s Lands Program to provide pi ficient mannei	ofer.	orting your firm's ssional design, surveying and Our business plan relies
20. The foregoing is	a statement of facts.				

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

Printed Name: Richard W. Watts

Signature:\_\_\_

Date: October 26, 2011

Title: PROJECT MANAGER



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, 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.



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, 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.

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.

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 report concerning landslides relation

to mining and potential solutions.

Project: Treadway Landslide Emergency

Rayland, OH

Year: October 2004
Client: ODNR-AML

1855 Fountain Square

Columbus, OH

**Description:** Performed site surveying, drilling and landslide abatement

design.

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, drilling and prepared plans and

specifications to stabilize and emergency landslide area.

Project: Jefferson County Road 26 Landslide Emergency

Winterville, OH

Year: May 2004 Client: ODNR-AML

1855 Fountain Square

Columbus, OH

**Description:** Performed surveying, drilling and prepared plans and

specifications to stabilize and 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, drilling, prepared plans and specifications

to stabilize an emergency landslide area, and 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.

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: Maidsville (Tennant) Landslide

Monongalia County, WV

Year: February 2003 Client: WVDEP-AML

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

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 September 2001

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 regrading refuse.

Project: Hot Coal Reclamation Project

Raleign County, WV

Year: October 2000
Client: WVDEP-AML
Charleston, WV

**Description:** Performed surveying and design for regrading refuse.

Project: Bull Run #27

Preston County, WV

Year: October 2000
Client: WVDEP-AML

**Description:** Performed surveying and design for regrading refuse.

Project: 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.



Year:

Client:

# 12A Abandoned Mine Land 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 September 2001 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 regrading refuse.

Project: Hot Coal Reclamation Project

Raleign County, WV

Year: October 2000 Client: WVDEP-AML

Charleston, WV

**Description:** Performed surveying and design for regrading refuse.

Project: Bull Run #27

Preston County, WV

Year: October 2000 Client: WVDEP-AML

**Description:** Performed surveying and design for regrading refuse.



# 12A Abandoned Mine Land Reclamation Experience

Project: Riffe Branch Impoundment

Fayette County, WV

Year: June 2000 Client: WVDEP-AML

**Description:** Performed surveying and design for regrading refuse and

drainage control.

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: 19

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 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 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.

### I-79 Meadowbrook Road Over Pass

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

### Ripley Town Bridge

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

### Ripley Route 21 Road Widening

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

### I-64 Cross Roads Overpass Bridge

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

### I-79 Left Hand Fork Bridge

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



Project:

Blennerhassett Island Bridge Over Ohio River

Year:

1999-2003

Client:

Michael Baker Jr., Inc.

5088 Washington Street, West

Charleston, WV 25313

Contact:

Pi Amin, P.E.

Vice President Michael Baker Jr, Inc. (Southwest Region)

304-769-0821

**Description:** 

Prepared an analysis of the hydraulic impact of the proposed bridge on the Ohio River flow, and prepared an appropriate hydraulic report. The analysis utilized HEC-RAS and as a part of the hydraulic report, a scour analysis was performed. E. L. Robinson Engineering Co. developed a computer model of the Ohio River using hydrographic survey mapping provided by our survey group.

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

Project:

**US 52 Mainline Bridge** 

KY 40 Bridge/Kermit Bypass over Marrowbone Creek

Year:

2000

Client:

West Virginia Department of Transportation

Division of Highways

Building 5

1900 Kanawha Blvd. East Charleston, WV 25305

Contact:

James Sothen, P.E., Director, Engineering Division

304-558-0501

Description:

Prepared an analysis of the hydraulic impact of the Kermit Bypass Project over Marrowbone Creek and a partial relocation of the creek 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.



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

**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.



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.



Project: Bridge No. 4636 – Indian Creek Bridge

CR 3/25 Over Big Coal River

Year: 1999

Client: West Virginia Department of Transportation

Division of Highways

Office of the District Engineer, District 1

1334 Smith Street Charleston, WV 25301

Contact: John W. Dawson, P.E., District Engineer

304-558-3001

Description: Prepared an analysis of the hydraulic impact of the Indian Creek

Replacement Bridge over the Big Coal River and prepared the appropriate hydraulic and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the

USACE 1-D HEC-2 program and the FHWA WSPRO program.

Project: Bridge No. 4769 – Tallman Bridge

CR 24 Over Middle Island Creek

Year: 1999

Client: West Virginia Department of Transportation

Division of Highways

Office of the District Engineer, District 6

904 3rd Street

Moundsville, WV 26041

Client: Daniel W. Sikora, P.E., District Engineer

304-843-4008

**Description:** Prepared an analysis of the hydraulic impact of the replacement Tallman

Bridge over Middle Island Creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-RAS

program.



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: 199

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.



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

B.S. Civil Engineering
West Virginia Institute of
Technology, 1969

### Registrations

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

Registered Professional Surveyor in West Virginia.

#### **Professional Memberships**

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

### **Professional Experience**

Mr. Robinson founded E. L. Robinson Engineering Co. in 1978 with four employees. Initially the firm provided land surveying and land development services.

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



utilizes the latest technology in the design of highways, bridges, structures, environmental, civil, and geotechnical projects as well as global position satellite surveying, right-ofway, construction inspection and architectural services.

The firm now employs more than 90 engineers, architects, surveyors and support personnel and has been converted to an employee owned company through an Employee Stock Ownership Plan (ESOP).

### Representative Projects

Engineering Review of the following projects:

- US Route 52 Kermit Bypass: This project consisted of 2.5 miles of four-lane divided highway, 3,000 LF of four-lane access road design, two 4-ramp intersections, one set of twin structures, one single bridge, and 2,900 LF of stream relocation, all of which resulted in 10 million cubic yards of excavation and an estimated total construction cost of \$88 million.
- Corridor H Davis to Bismark: This project consisted of 1.75 miles of four-lane divided highway, one bridge, two at-





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

- Corridor H Foreman to Moorefield:
   This project consisted of 5 miles of four-lane divided highway, almost 3 miles of access road design, a truck escape ramp, one set of twin structures, one single bridge, a box culvert, and naturalized stream design. This project resulted in 10 million cubic yards of excavation and an estimated construction cost of \$75 million.
- CAMC 33<sup>rd</sup> Street Relocation: Engineering design and construction management for the relocation of 33<sup>rd</sup> street and site development for a five story clinical teaching facility in Charleston, WV.

### Offices Held

- Current Member of West Virginia University Board of Governors
- Current Chairman of WVUIT Advisory Board
- President of West Virginia Council of Engineering Companies
- Chairman Transportation Committee
   WV Association of Consulting Engineers
- State Director of West Virginia Society of Professional Engineers
- President of West Virginia Society of Professional Engineers

- Assistant Treasurer of the American Society of Civil Engineers
- National Director of the ASCE representing WV, NC, SC and VA
- President of West Virginia Section of ASCE

### Honors Awarded

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





## Timothy B. Cart, P.E., P.S. Project Engineer

### Education

B.S. Civil Engineering West Virginia University, 1981

### Registrations

Registered Professional Engineer in West Virginia and Ohio

Registered Professional Surveyor in West Virginia

### **Professional Memberships**

· American Society of Civil Engineers

### Professional Experience

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

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

He has designed numerous waterline extensions and sewer collection systems. These extensions have included providing service to many residential as well as industrial customers. The sewer collection systems have included design of systems to collect sewage from residential and industrial sites. Mr. Cart served as a project



engineer on several major waste water treatment plant upgrades for industrial clients in the Kanawha Valley. He has designed several plants to serve industrial as well.

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

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

His experience includes permitting activities for projects which have included:

- Railroad Occupancy Permits for Utilities
- NPDES Permits for Industrial and Public Wastewater Facilities
- Highway Permits for Utility Occupancy and Access Road Tie Ins
- Health Department Permits for Water and Sewer Projects





- US Corps of Engineers Permits Nationwide and Individual
- West Virginia Public Lands Permits

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





### Richard W. Watts

Project Manager/Geologist

#### Education

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

### **Professional Registrations**

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

#### Professional Memberships

Geological Society of America Association of Engineering Geologists

### **Teaching Experience**

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

### Professional Experience

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

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

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

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

### AML and Coal Industry Projects:

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

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





### John R. Kelly, III

Engineer Intern

### Education

B.S. Civil Engineering West Virginia University, 1998

### Computer Skills

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

### Professional Memberships

· American Society of Civil Engineers

### Professional Experience

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

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



### Representative Projects

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

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





James T. Rayburn, P.S. Chief Surveyor

### Education

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

### Registrations

Registered Professional Surveyor in West Virginia

### **Professional Memberships**

American Congress on Surveying and Mapping

The American Association for Geodetic Surveying (AAGS)

Member Organization of ACSM.

Cartography and Geographic Information Society (CaGIS)

Geographic and Land Information Society (GLIS)

National Society of Professional Surveyors (NSPS)

West Virginia Association of Land Surveyors, Inc.



### Professional Experience

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





CAMC Parking Garage partial collapse, and 3D Laser Scanning of I64/I77 Retaining Wall for Monitoring.

### Representative Projects

#### **Design Surveys**

- Corridor H (WVDOT) Hardy County, WV: Lead Surveyor for Design Surveys, Right of Way Staking, etc. for approximately 11 miles of Corridor H in Hardy County, WV. This was for Sections 6 & 7 of Corridor H, both Sections of which are now under construction. Estimated construction cost of \$150 million dollars.
- WV Route 10 (WVDOT) Logan to Man WV, Logan County, WV: Lead Surveyor for Design Surveys for a section approximately five miles in length from Man, WV, to Rita, WV, including the Man Bridge. Also provided control surveying for the entire project length of approximately 12 miles. The approximate five miles section of roadway is now under construction at an estimated cost of \$51 million dollars.
- Blennerhassett Bridge, Corridor D (WVDOT), Wood County, WV: Lead Surveyor for Design Surveys for this landmark Bridge Project which is now under construction at an estimated cost of \$120 million dollars.
- James Ramsey Bridge (WVDOT) Potomac River, Shepardstown, WV: Lead Surveyor for Design Surveys for this Bridge Project which is now completed at an estimated cost \$15.5 million dollars. This project involved working in an environmentally historic area, which adjoined a National Park.
- US Route 35 (WVDOT) Mason County, WV: Lead Surveyor for Design Surveys for two Design Sections each approximately 2.5

miles in length from Lower Five Mile Road to Upper Nine Mile Road. Also provided control surveying for the entire US 35 design project length of approximately 22 miles.

- 164/US 35 (WVDOT) 164 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 164 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 33<sup>rd</sup> Street Relocation and Building Expansion, Charleston, WV: Lead Surveyor for construction layout surveys for 33<sup>rd</sup> 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.





### Randall L. Lackey, P.E.

Project Engineer

### Education

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

### Registrations

Registered Professional Engineer in West Virginia, Ohio and Kentucky

### **Professional Memberships**

- · American Society of Civil Engineers
- Society of American Military Engineers

### Computer Skills

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

### Professional Experience

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



### Representative Projects

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

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





will have on the Town of Moorefield, WV flood level, and studying the potential for lateral channel migration and understanding the affects the migration would have on the design on the bridge substructure.

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

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

Mr. Lackey has performed calculations for deck drainage, performed girder design and analysis, pier design and analysis, prepared design study reports, type, size and location reports and final plans on many of E.L. Robinson's Division of Highways projects.





## Mark Allen McGettigan, PE, Project Engineer

### Education

M.S.E. Engineering Management/Environmental Engineering,

Marshall University December 2007

B.S. Civil Engineering Technology, Fairmont State College, 1999

### Registrations

Registered Professional Engineer in West Virginia

### Professional Memberships

American Society of Civil Engineers

### **Professional Experience**

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

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



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

### Representative Projects

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

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



Primary Staff Participation	M-Mngmt	Mark McGettigan, P.E. John Kelly. E.I. Scott A. Pratt, Geologist	H	1 0		۵	۵	۵	<u>а</u>	۵	۵	a. a	+	Н	۵	<u>а</u>	<u>a</u>	۵	۵	a.		0.	0. 0	2 0	a.	Н		r a		۵	
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	nce Additional ste-C in Section	He do so	Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaff Closure	Hydrological/Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Ed Robinson, P.E.	Tim Cart, P.E.	Richard W. Watte, P.G.	Mark McGettigan, P.E. John Kelly. E.I.	Scott A. Pratt, Geologist	Gary A. Workman, CADD
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RFQ No.	DEP15594

## 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 owned is an amount greater than one thousand dollars in the aggregate

#### DEFINITIONS:

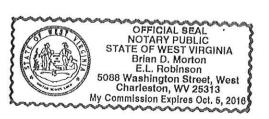
"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due 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 countles 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 countles 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.

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

### 



WITNESS THE FOLLOWING SIGNATURE