December 8, 2010

EXPRESSION OF INTEREST

GREENBRIER HOLLOW REFUSE PILE DESIGN DEP15226

MCDOWELL COUNTY, WEST VIRGINIA

PECEIVED

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STATE OF WY

E.L.ROBINSON

the Challenge. the Choice.

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

www.elrobinson.com



State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130

Request for Quotation DEP15226

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404-558	-2157		

STATE STATE	Charleston, WV 25305-0130	CHUCK BOWMAN 304-558-2157	
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5088 \	obinson Engineering Co. Vashington Street West	OFFICE OF AML&R 5 601 57TH STREET SE CHARLESTON, WV 25304 304-926-0499	
Charle	ston, WV 25313	25304 304-926-0499	

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SIGNATURE	Wilm W.W			iret coucare	*************	^{DATE} 12-8-10
Project	Manager *	^{EIN} 55059463	3		ADDRESS CHA	NGES TO BE NOTED ABOVE



December 8, 2010

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

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

Re: Greenbrier Hollow Refuse Pile Design

DEP15226

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 Greenbrier Hollow Refuse Pile Design project located in McDowell 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.

By:

Richard W. Watts, P.G.

Kichnel W. Watts

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

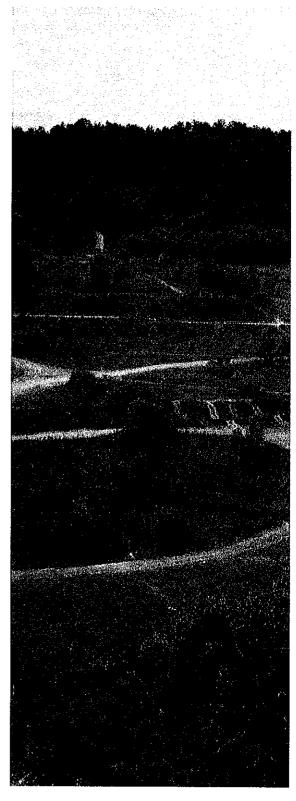
E.L. Robinson is familiar with the project area and the type of project for which you are seeking engineering services. We believe that we have a thorough understanding of the work to be provided to the WVDEP/AML for the subject reclamation project.

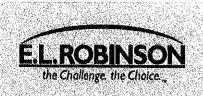
We are anxious to become an extension of your staff by providing prompt planning, design and construction monitoring services as needed. We interact with the various review and permitting agencies. As you will see from our resumes, we are uniquely diversified to provide quality engineering services to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

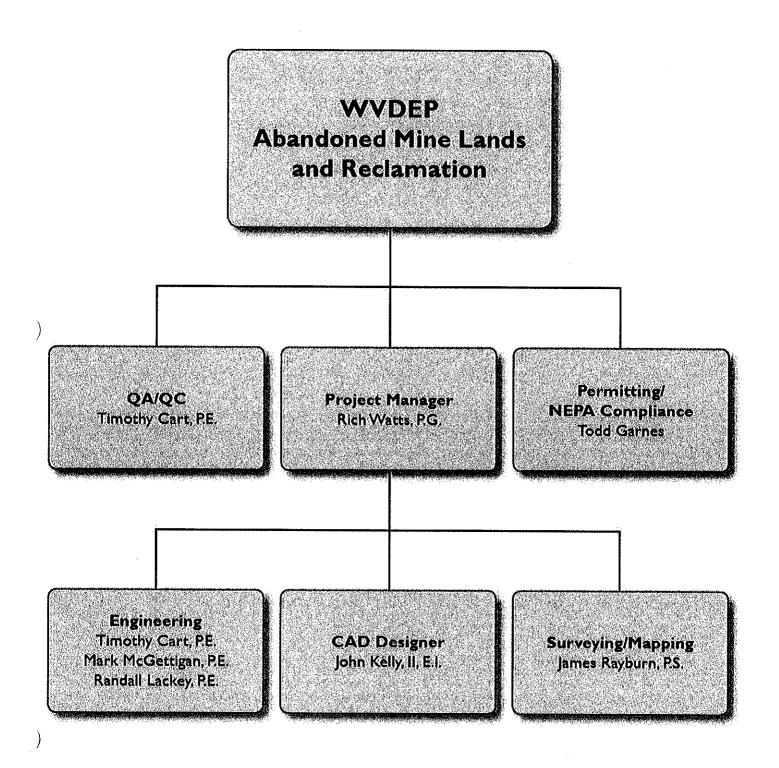
Our staff is well-qualified and experienced in related reclamation projects. They have the knowledge and capabilities to perform all of the tasks required for your project. In addition to your primary project team, other members of our organization may be called upon from time to time to provide their 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.



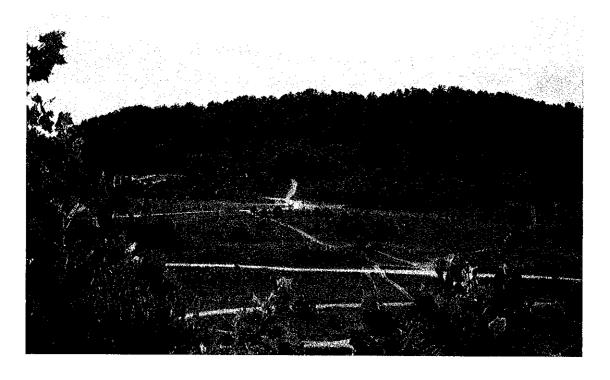


Previous Experience

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



I.	WEST VIRGINIA AML CONSULTANT	INIA DEPARTMENT	OF ENVIRONMENTAL QUALIFICATION	PROTECTION QUESTIONNAIRE Attack at "B"
PROJECT NAME Greenbrier Hollow Refuse Pile DEP15226	Design	DATE (DAY, MONTH, December 8, 2010	YEAR)	
1. FIRM NAME E.L. Robinson Engineering Co.		2. HOME OFFICE B 5088 Washington Charleston, WV 2	BUSINESS ADDRESS 1 Street, West 25313	3. FORMER FIRM NAME
4. HOME OFFICE TELEPHONE 304-776-7473	5. ESTABLI	5. ESTABLÍSHED (YEAR) 1978	6. TYPE OWNERSHIP Individual x Corporation Partnership Joint-Venture	tion (Disadvantaged Business enture Enterprise) x NO
7. PRIMARY AML DESIGN OFFICE: 5088 Washington Street, West Charleston, WV 25313		ADDRESS/ TELEPHONE/ PERSON 304-776-7473/Tim Cart, P.1	IN CHARGE/ NO. E./56 Staff in C	SONNEL EACH OFFICE
8. NAMES OF PRINCIPAL OFFICERS Ed Robinson, P.E. 304 776-7473	S OR MEMBERS 3 Ext 211	S OF FIRM	8a. NAME, TITLE, & TELEP	TELEPHONE NUMBER - OTHER PRINCIPALS
9. PERSONNEL BY DISCIPLINE				
		ECOLOGISTS ECONOMISTS ELECTRICAL ENGINEERS ENVIRONMENTALISTS		TS 6 STRUCTURAL ENGINEERS ERS 7 SURVEYORS — TRAFFIC ENGINEERS — OTHER
10 CIVIL ENGINEERS 15 CONSTRUCTION INSPECTORS - DESIGNERS DRAFISMEN	Z GEOLOGISTS — HISTORIANS — HYDROLOGISTS	SIS ANS GISTS	- SANITARY ENGINEERS 1 SOILS ENGINEERS - SPECIFICATION WRITERS	S 56 TOTAL PERSONNEL
TOTAL NUMBER OF WV REGIS *RPEs other than Civil a supervise and perform the	REGISTERED PROFESSIC vil and Mining must orm this type of work	NAL ENGI provide	NEERS IN PRIMARY OFFICE: 1 supporting documentation that	13_at qualifies them to
10 HAS THE STATE TO HAS THE	משחיפטטה מפעמטיי	0 0 0 0	OTA V	1
. nas inis Joini-Veniore		BEFORE:	YES NO X TRIS IS	s not applicable

11. OUTS DE KEI CONSULIANTS/SUB-CONSULIANTS ANTICIPATED TO SE USED. Que		Attach "AML Consultant Confidential Qualification
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
Novel Geo – Environmental (NGE)	Sming	XYES
806 B Street, St. Albans, W V		ON_
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		YES
NIAME AND APPRICE.	ODD CT 1 TWY.	ON
NAME AND ADDRESS:	SPECIALIY:	WORKED WITH BEFORE
		YES
		NO
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
		NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		YES
		NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		YES
		ON
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		YES
		ON

12. A. Is your firm experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?
ON —
B. Is your firm experienced in Soil Analysis? $\underline{\mathtt{X}}$ YES Description and Number of Projects: Eighteen (18) Projects Listed - See attached Sheet
ON -
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 _
D. Does your firm produce its own Aerial Photography and Develop Contour Mapping? X YES Description and Number of Projects: > 200 - in Firm History - 65 Recent Projects Listed All ELR WV & OH AML Projects since 2003 have been surveyed with ELR Surveying Staff
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
F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?
$\underline{\mathbb{X}}$ YES Description and Number of Projects: Seven (7) Projects
_ NO

13. PEK_NAL HISTORY STATEMENT OF PRING data but keep to essentials)	PRINCIPALS AND ASSOCIATE	AESPONSIBLE FOR AML PROJECT DESIGN	ssign (Furnish comples
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
rd L. Robinson, President	YEARS OF AML DESIGN EXPERIENCE: 11	YEARS OF AML RELATED DESIGN EXPERIENCE: 25	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities			
Mr. Robinson worked in the Right of Way Divisimajor utility plans. He has extensive experieland acquisition. He has provided quality conprovide and coordinate Quality Control on all	/ Division of the Wexperience in properity control on all on all on all	partment of Highways for surveys, property title jects designed by this fi	ten years where he reviewed searches, aerial mapping and .m for the past 25 years.
EDUCATION (Degree, Year, Specialization)	(u		
Bachelor of Science 1969 Civil Engineering Master of Science 1981 Civil Engineering	ring ring		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	SN	REGISTRATION (Type, Year, Sta	State)
American Society of Civil Engineers - Past American Council of Engineering Companies National Society of Professional Engineers	Past President WV nies weers	1975 Civil Engineering Registered in West Virginia and Ke Professional Licensed Surveyor No.	and Kentucky or No. 1150
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS but keep to essentials)	AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT DESIGN	SSIGN (Furnish complete data
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Richard W. Watts, P.G.	F AML DESIGN EXPERIENCE: 28	YEARS OF AME RELATED DESIGN EXPERIENCE: 33	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 1
Brief Explanation of Responsibilities Mr. Watts has served as project geologist on more than ninety (90) abandoned mi include project management, field reconnaissance, drilling coordination, labora analysis, specification writing, quantity determinations, cost estimates, pre-b Projects included surface and deep mine reclamation, subsidence, AMD treatment	ist on more than ninety nnaissance, drilling co ity determinations, cos e reclamation, subsider	ne tor	ne land projects. Responsibilities story testing and analysis, stability oid and pre-construction meetings. and waterline feasibility studies.
EDUCATION (Degree, Year, Specialization) B.S./1977/Geology M.S./1994/Geography	(r		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Geological Society of America Association of Engineering Geologists	NS	REGISTRATION (Type, Year, State) Professional Geologist/1992/Virginia Professional Geologist/1993/Kentucky	te) irginia entucky

13. PER YAL HISTORY STATEMENT O	OF PRINCIPALS AND ASSOCIATE s)	ESPONSIBLE FOR AML PROJECT DESIGN	ESIGN (Furnish compl
		YEARS OF EXPERIENCE	
John Kell $_{ m Y}$ II, E.I.	YEARS OF AML DESIGN EXPERIENCE: 13	YEARS OF AML RELATED DESIGN EXPERIENCE: 13	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities Mr. Kelly has worked on many AML projects since sampling of coal refuse materials, hydrology, hyplans. Estimation of quantities developed estin Mr. Kelly has performed layout and inspection of addition, he has designed cut slopes for large-scounty, WV and Meadowbrook Road in Harrison Court	nce joining ELE , hydraulics de sstimated cost. on of core drill: ge-scale roadwa County, WV.	onsibilities have inage structures, is proficient with ons for bridge and such as the US Rou	ive included drilling inspection, ss, and development of regrading rith Auto Cadd. and roadway projects. In Route 52 Kermit Bypass in Mingo
EDUCATION (Degree, Year, Specie	Specialization)		
B.S. Civil Engineering/1998/WVU	D		
MEMBERSHIP IN PROFESSIONAL ORGA	ORGANIZATIONS	REGISTRATION (Type, Year, Sta	State)
		Engineer Intern, WV	
13. PERSONAL HISTORY STATEMENT but keep to essentials)	OF PRINCIPALS AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT DE	DESIGN (Furnish complete data
NAME & TITLE (bast, First, Middle Int.)		YEARS OF EXPERIENCE	
Timothy B. Cart, P.E.	YEARS OF AME DESIGN EXPERIENCE: 28	YEARS OF AML RELATED DESIGN EXPERIENCE: 28	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities Mr. Cart has completed numerous mine r materials, re-establishment of vegetat extinguishing burning materials and di Conducted Phase I and Phase II Studies Mr. Cart has extensive experience in t has recently completed water projects Mr. Cart has performed geotechnical en embankments.	lities mine reclamation projects regetation cover, disposal and disposal of old mining tudies to determine if gro e in the design and constr ejects in Mingo; Kanawha; F cal engineering calculatio	ler the AML program, includir acid producing materials, ar rructures. Designed passive Wwater had been affected by it in management of waterline tam; and Cabell counties.	uding regrading of coal refuse; and developing methods for sive AMD treatment systems. by pre-law mining. ine extension projects. Mr. Cart analysis of dams and other
> 0 7	نام در الاستان الاستا		
(Degree, rear, of Science 1981	alization) Engineering		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	ANIZATIONS	REGISTRATION (Type, Year, State) Professional Engineer WV OH	te)

13. PER TAL HISTORY STATEMENT C dat_ out keep to essentials)	OF PRINCIPALS AND ASSOCIATE	ESPONSIBLE FOR AML PROJECT DESIGN	SIGN (Furnish compl
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Mark McGettigan, P.E.	YEARS OF AME DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 7	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	lities		
Gettigan has worked ons, estimated and chets designed by E. L.	AML projects since ity calculations.	our firm. He has deve ilso served as a field the lead designer on	sloped grading plans, cross inspector for several waterline waterlines over the past five
Years. Mr. McGettigan also has experie He has also performed various c	experience with surveying and equipment rious concrete and soil tests and is ce	ent including; theodolites, levels, ar certified on Troxler nuclear density	wels, and total stations. density gage.
EDUCATION (Degree, Year, Specia	Specialization)		
B.S. Civil Engineering Technician/Fairmont	.an/Fairmont State/1999		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	ANIZATIONS	REGISTRATION (Type, Year, State	te)
		Professional Engineer WV	
13. PERSONAL HISTORY STATEMENT but keep to essentials)	OF PRINCIPALS AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT DESIGN	SIGN (Furnish complete data
		YEARS OF EXPERIENCE	
Randall L. Lackey, P.E.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 8	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 1
Brief Explanation of Responsibilities Mr. Lackey has performed hydraulics a Creek Bridge; Kermit Bypass Bridge; L	and scour	for Ripley Town Bridge; Tallman Bridge; Mead Fork Bridge; and Blennerhassett Bridge.	 Meadowbrook Road Bridge; Simpson
Mr. Lackey has also performed calculations for analysis; prepared design study reports; type, Highways projects.	performed calculations for deck drainage; design study reports; type, size and locati	drainage; performed girder design and analysis; and location reports and final plans on many of	analysis; pier design and n many of our Division of
EDUCATION (Degree, Year, Specia	Specialization)		
B.S. Civil Engineering/1999			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	INIZATIONS	REGISTRATION (Type, Year, State)	te)
		Professional Engineer WV	

13. PEP YAL HISTORY STATEMENT O	F PRINCIPALS AND ASSOCIATE	RESPONSIBLE FOR AML PROJECT DESIGN	ESIGN (Furnish compl
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
J. Todd Garnes	YEARS OF AME DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 5	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	lities		
Mr. Garnes experience surveying and providing extrusions. He has provided construction instant. Garnes has performed numerous water feasil mapping, mine research, and development of firm and development of firms.	viding CADD Design for on inspection services feasibility studies, of final reports.	r mine reclamation projects s for landsides and subsiden which involved interviews,	and waterline and sewer ice projects in Ohio. water sampling and analysis,
EDUCATION (Degree, Year, Specialization) A.S. Architectural Design/ 1999 A.S. Computer Aided Drafting and Design/	d Design/ 1999		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	NIZATIONS	REGISTRATION (Type, Year, Sta	State)
13. PERSONAL HISTORY STATEMENT but keep to essentials)	OF PRINCIPALS AND ASSOCIATES F	RESPONSIBLE FOR AML PROJECT DE	DESIGN (Furnish complete data
S & TITLE		YEARS OF EXPERIENCE	
Thomas Rayburn, P.S.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
		30	
planation of F urn has experi coal mining, ion plans and	pping and surveyin rainage and water nclude precision I	lated short term and long systems for underground and quality surveys and compute	range mining plans for all surface mines, designed mine er simulation of ventilation
Systems. He has performed slope stability analysis and hydrology calculations, applications, work with leases and land management as well as reclama. By utilizing "state of the art" electronic total stations and/or GPS surveys for aerial mapping and collects data and develops GIS for utility. Rayburn has also performed surveying and mapping for large scale!	y analysis and hydrology calcula and land management as well as r electronic total stations and/c collects data and develops GIS f surveying and mapping for large	ilculations, provides computer analysis for mining as reclamation and environmental permits. and/or GPS (Satellite) equipment, he performs con GIS for utility mapping. arge scale highway projects.	nalysis for mining al permits. c, he performs control
EDUCATION (Degree, Year, Specia	Specialization)		
A.S. Mechanical Engineering, WV	WVIT/1970		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	NIZATIONS	REGISTRATION (Type, Year, Sta	State)
		Professional Surveyor WV	

13. PEF VAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATE dat_ out keep to essentials) NAME & TITLE (Last First widdle)	DO SOVED	
« ilint (rast, first, Midale		
Scott LeRose, P.E.	ENCE: YEARS OF AME RELATED DESIGN EXPERIENCE: 1	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities Mr. LeRose is experienced in developing major highway a Drilling Operations; Groundwater Sampling/Monitoring; U Specific major highway design and right of way plan dev of new four lane highway; US 52(I-73), a 3.5 mile desig interchanges; design of 2 mile section of Appalachian C Corridor H from Grant/Hardy County line to Moorefield.	ghway and right of way plans; Bridge Constring; UST Removal/Replacement and Mine Pelan development projects include: Meadow e design and ROW plans for a new four lanchian Corridor H from Davis to Bismark; difield.	Bridge Construction Inspections; Core and Mine Permitting/Reclamation. Ide: Meadowbrook Road, a 2 mile design iew four lane highway with two major Bismark; design of 5.2 mile section of
While working on these projects, he has gained experience relocation, MOT, signing and pavement stripping. He has seeding, pollution control quantities, and other items as development of ROW plans, including deed plots and legal	in major drainage design, site performed quantity calculations sociated with roadway plans. He descriptions.	grading design, utility for pavement, drainage, is also experienced in the
EDUCATION (Degree, Year, Specialization)		
B.S. Civil Engineering/1997		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, St	State)
	Professional Engineer WV	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES but keep to essentials)	ATES RESPONSIBLE FOR AML PROJECT DESIGN	ESIGN (Furnish complete data
ETT.	YEARS OF EXPERIENCE	
RAY Tilley, P.E.	ENCE: YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
	ſ	30
of Responsibilities r 30 years experience in water and rtified Water Plant Operator. Mr. career. His current duties include	design as a Project s successfully complet both water and wastew	Manager/Engineer. In addition, ed numerous waterline design ater design projects for ELR.
EDUCATION (Degree, Year, Specialization)		
B.S. Civil Engineering/WV Tech 1975; M.S. Sanitary Engir	Engineering Virginia Tech, 1976	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, Sta	State)
	Professional Engineer WV	

13. PER MAL HISTORY STATEMENT O	OF PRINCIPALS AND ASSOCIATE	RESPONSIBLE FOR AML PROJECT DESIGN	ESIGN (Furnish compl
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
James Eric Gwinn, E.I.	YEARS OF AML DESIGN EXPERIENCE: 10	YEARS OF AML RELATED DESIGN EXPERIENCE: 10	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	lities		
rience in has worked ater Proje gned appro	struction layout for waterli the Cabell County Water Pro He has performed calculati slabs, decks and extensive	He performs calcraw water intake is AML project.	calculation and permit ake structure for the Fayette
EDUCATION (Degree, Year, Specialization) B.S. Civil Engineering/1998/ West Virginia	Institute of	Technology	
- 1			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	NIZATIONS	REGISTRATION (Type, Year, St.	State)
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 Int.)		YEARS OF EXPERIENCE	
Brian D. Morton, P.E.	YEARS OF AME DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 2	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 11
Brief Explanation of Responsibilities	lities		
Mr. Morton has worked on waterline extension projects in Putnam and Kanawha Cou waterline relocation projects involving the West Virginia Division of Highways.	ine extension projects in Put nvolving the West Virginia Di	nty. He	also has completed numerous
Mr. Morton has prepared signing culverts and other drainage struspecifications, bid documents,	and pavement marking plans actures and highway construc and has performed constructi	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 ORGANIZATIONS	NIZATIONS	REGISTRATION (Type, Year, Sta	State)
		Professional Engineer WV	

13. PER TAL HISTORY STATEMENT C dat_out keep to essentials)	F PRINCIPALS AND ASSOCIATE	ESPONSIBLE FOR AML PROJECT DESIGN	ESIGN (Furnish compl
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Carney, Joseph T. P.E.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AME RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	lities		
Mr. Carney has extensive experience in design and contract administration. He has worked on storm sewer, drainage studies, roadway, bridge	eng a de	nneering, preparation of contract documents, con variety of Civil Engineering projects including sign, hydrologic/hydraulic reports, sanitary sew	cuments, construction inspection, s including grading, earthwork, sanitary sewer and water systems.
EDUCATION (Degree, Year, Specia	Specialization)		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	NIZATIONS	REGISTRATION (Type, Year, St	State)
		Professional Engineer, 1976,	WV
13. PERSONAL HISTORY STATEMENT but keep to essentials)	OF PRINCIPALS AND ASSOCIATES R	RESPONSIBLE FOR AML PROJECT D	DESIGN (Furnish complete data
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Workman, Gary A., CADD	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Sellor recillician		77	m
Brief Explanation of Responsibilities Mr. Workman is responsible for CADD design WVDEP/AML projects while employed at Ackenl	onsibilities e for CADD design on AML projects, as employed at Ackenheil, and has worked	well as geotechnical soil on 18 AML projects while a	analysis. He Worked on 44 t E. L. Robinson.
EDUCATION (Degree, Year, Specialization) Technical School/1987/CADD	lization)		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	NIZATIONS	REGISTRATION (Type, Year, State) WVDOH certifications compaction,	State) ction, aggregates and concrete.

13. PER TAL HISTORY STATEMENT O dat_Jut keep to essentials)	STATEMENT OF PRINCIPALS AND ASSOCIATE SPONSIBLE FOR AML PROJECT DESIGN (Furnish essentials)	ESPONSIBLE FOR AML PROJECT D	ESIGN (Furnish compl
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Mayes, Jason M.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 2	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	lities		
Provides CADD Design for site deve Nearly ten years experience in WV	site development, waterline and sewer	extensions, and layout on .	AML Projects. Mr. Mayes has
EDUCATION (Degree, Year, Specialization)	lization)		
B.S. Industrial Technology 1997 WVU Tech A.S. Drafting and Design 1996 WVU Tech	WVU Tech VU Tech		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	NIZATIONS	REGISTRATION (Type, Year, St	State)
13. PERSONAL HISTORY STATEMENT but keep to essentials)	OF PRINCIPALS AND ASSOCIATES 1	ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN	ESIGN (Furnish complete data
		YEARS OF EXPERIENCE	
Scott A. Pratt	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
	11	11	
Brief Explanation of Responsibilities	Lities		
Mr. Pratt has extensive experience as a Field Geologist, samples, and obtaining water levels. He has also perform experienced in mine map research, specification writing, EDUCATION (Degree, Year, Specialization)	experience as a Field Geologist, perfater levels. He has also performed maresearch, specification writing, and Specialization)	ld Geologist, performing test boring over-sight, logging soil and calso performed many geotechnical soil tests in the laboratory. He tion writing, and quantity and cost calculations for AML projects.	t, logging soil and core n the laboratory. He is also ns for AML projects.
Mars	lversity		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	NIZATIONS	REGISTRATION (Type, Year, Sta	State)

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE ANT DE: I 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)
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 IMS - 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. CUT IT ACTIVITIES	ACTIVITIES ON WHICH YOUR FIRM IS TH	THE DESIGNATI INGINEER OF RECORD	RECORD	
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	95
Gordon 'C' Complex Boone County	WVDEP/ANG.	Surveying, Mapping and Design	\$381,700	95
Newtown (Kinder) Portals Mingo County	WVDEP/AML&R	Surveying, Mapping and Design	\$250,000	65
Shinnston-Lumbperport Subsidence Harrison County	WVDEP/AML&R	Surveying, Mapping and Design	\$500,000	50
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:	S:	TOTAL ESTIMA	ESTIMATED CONSTRUCTION COSTS:	₩.

15. CUI VT ACTIVITIES ON WHICH	YOUR FIRM IS	THE DESIGNAT! SNGINBER OF	RECORD	
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	¥6.0 M	85
h, W	10 02	Design and Construction Management	\$3.0 M	80
	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	80
nson Sanit	City of Williamson	Design and Construction Management	\$1.1 M	50
ary	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

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

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17. C LETED WORK WITHIN LAS F-KOJECT NAME, TYPE AND LOCATION	LETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIR A NOJECT NAME, TYPE NAME AND ADDRESS AND LOCATION	AS THE DESIGNATED ENGINEER OF RECORD ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
line	n, tre	\$1.2 M	2007	Yes
Guyandotte River Bridge I-64 Cabell County		\$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	× 0.0\$	2008	NO
WVDEP-Emergency East Bank (Willis) Mine Blowout	WVDEP AML&R 601 57 th Street Charleston, WV 25304	\$0.8 M	2009	Yes
Chief Logan Recreational Center Logan County	WV State Parks	\$4.0 M	2007	Yes
אַ כ י	Flat Top PSD	\$2.5 M	2007	Yes
Gilmer B Sites 3-8 Gilmer County	WVDEP-AML&R 601 57 th Street Charleston, WV 25304	\$675,000	2009	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Upshur County Industrial Park Upshur County	Upshur County EDA	\$4.0 M	2009	Yes

18. (PLETED WORK WI	LETED WORK WITHIN LAST 5 YEARS ON WHICH Y WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)	COUR FIL AS BEEN A	SUB-CONSULTANT 1	TO OTHER FIRMS	(INDICAL SHASE
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	Yes	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	Ω Ω	Michael Baker, Jr., Inc.
Appalachian Corridor H Section 3 Davis to Bismark	Sub to Modjeski & Masters Survey, Geotech & ROW Plans	000'000'6\$	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	BDG
19. Use this space to predualifications to person E. L. Robinson Engin mapping and construction the work	covide any additional isticum work for the Westering Co. is committe tion monitoring service offered by the WVDEP/A	ormation or description lirginia Abandoned Mine to the WVDEP/AML program in a timely and cost-ef program.	of resources s Lands Program. • to provide pr ficient manner	pporting y fessional	our firm's design, surveying and ness plan relies
20. The foregoing is a stateme Signature: $\int_{\mathbb{R}^2} \mathcal{H}$, \mathcal{H} . Printed Name: Richard W. Watts	a statement of facts. of h. hMB W. Watts	Title: PROJECT MANAGER		Date: December 8, 2010	0.

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



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

Year:

Scott Town, OH

September 2007 ODNR-AML

Client:

1855 Fountain Square

Columbus, OH

Description:

Performed site survey, drilling and prepared landslide abatement

design.

Project:

Brown Landslide Emergency

Year:

Rayland, OH August 2007

Client:

ODNR-AML

1855 Fountain Square

Columbus, OH

Description:

Performed site survey and prepared landslide abatement design.



Project:

Rodgers Subsidence Emergency

Year:

Wellston, OH

Client:

January 2007 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 ODNR-AML

Client:

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

Year: Meigs County, OH
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

Year:

Martins Ferry, OH January 2005

Client.

ODNR-AML

Client:

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

Year:

Rutland, OH 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

Year:

Rutland, OH 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:

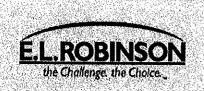
May 2004

Client:

WVDEP-AML

Description:

Performed surveying, drilling and design of landslide abatement.



Project: Roush Landslide Emergency

Year: 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 January 2004

Client: ODNR-AML

Year:

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: Client:

December 2003 WVDEP-AML

Description:

Performed surveying, drilling and design of landslide regrading

and retaining wall design.

Project:

Tuppers Creek (Layne) Landslide

Kanawha County, WV July 2003

Year: 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

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.



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

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.



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:

Year:

Client:

Bull Run #35

July 1999

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 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(Dayis 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.

1-79 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.

Quality Projects Completed on Time



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.



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.

Quality Projects Completed on Time



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:

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.



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 magnine that were utilized in the scale.

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

<u>1999</u>

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-of-way, construction inspection and architectural services.

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

Representative Projects

Engineering Review of the following projects:

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





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

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

Offices Held

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

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

Honors Awarded

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





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

Project Engineer

Education

B.S. Civil Engineering
West Virginia University, 1981

Registrations

Registered Professional Engineer in West Virginia and Ohio

Registered Professional Surveyor in West Virginia

Professional Memberships

American Society of Civil Engineers

Professional Experience

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

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

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



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

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

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

His experience includes permitting activities for projects which have included:

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





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

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





Richard W. Watts

Project 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 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) Potomae 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.

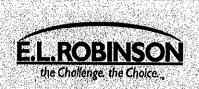




Construction Surveys

- 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 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.





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 preliminary engineering developing funding scenarios, designing the system, developing the plans and specifications, developing 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.



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RFQ No.	DEP15226
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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:

WITNESS THE FOLLOWING SIGNATURE

"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.

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.

Vendor's Name: E.L. Robinson Engineering Co. Authorized Signature: Date: 12-6-10 State of County of Coun