NOVEMBER 4, 2009

EXPRESSION OF INTEREST

GREYSTONE MINE DRAINAGE DESIGN DEP14801

MONONGALIA COUNTY, WEST VIRGINIA



the Challenge. the Choice.

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

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

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

Request for Quotation

DEP14801

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FREIGHT TERMS:

CHUCK BOWMAN
304-558-2157

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SHIP VIA

E.L. Robinson Engineering Co. 5088 Washington Street, West Charleston, WV 25313

TERMS OF SALE

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

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November 4, 2009

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

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

Re: Greystone Mine Drainage Design

DEP14801

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 Greystone Mine Drainage Design project located in Monongalia County.

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

The ELR staff has combined experience in the design of nearly 100 AML projects.

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

- A. Thirteen (13) registered professional engineers (civil or mining), two (2) Landscape architects, four (4) engineers in training as well as several CADD technicians that may be used on these teams.
- B. ELR Corporate experience in designing more than forty (40) abandoned mine land remediation projects. Personal experience on nearly one hundred (100) 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

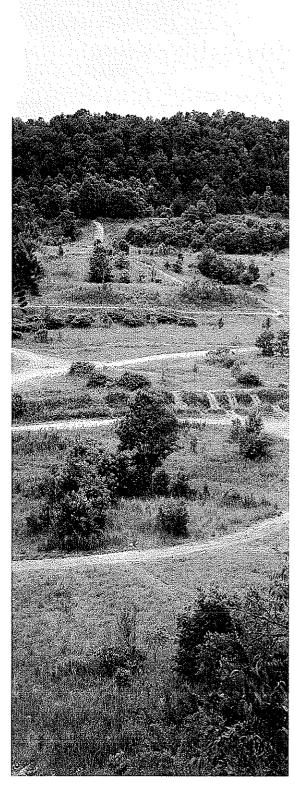
E.L. Robinson is familiar with the project area and the type of project for which you are seeking engineering services. We believe that we have a thorough understanding of the work to be provided to the WVDEP/AML for the subject reclamation project.

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.

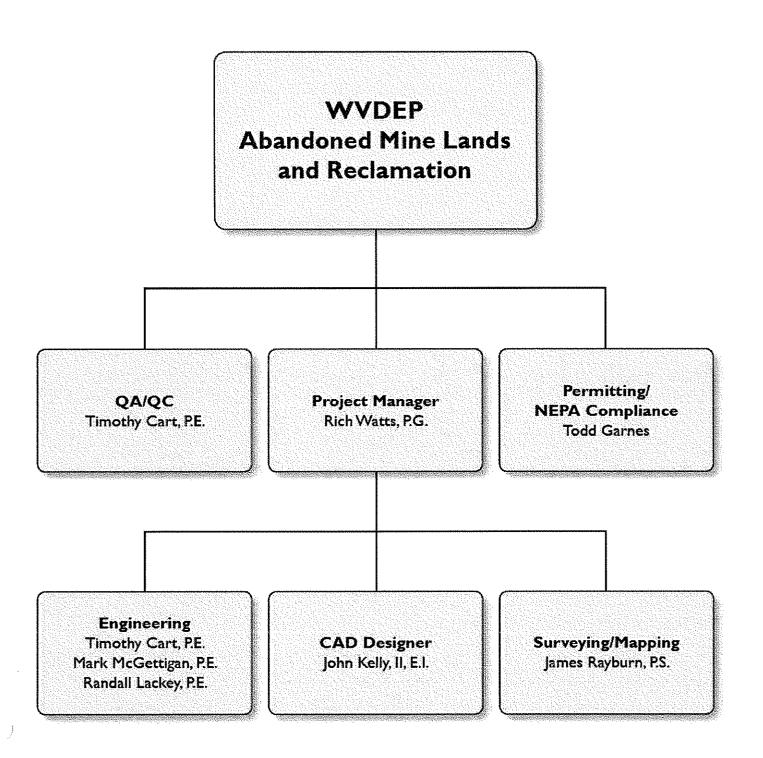
Our staff is well-qualified and experienced in related reclamation projects. They have the knowledge and capabilities to perform all of the tasks required for your project. In addition to your primary project team, other members of our organization may be called upon from time to time to provide their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

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



AI	WEST VIRGINIA AML CONSULTANT	INIA DEPARTMENT C	ENVIRONMENTAL QUALIFICATION	, PROTECTION OUESTIONNAIRE Attachment "B"
PROJECT NAME Greystone Mine Drainage DEP14801		8	YEAR)	
1. FIRM NAME E.L. Robinson Engineering Co.		2. HOME OFFICE I 5088 Washington Charleston, WV	BUSINESS ADDRESS a Street, West 25313	3. FORMER FIRM NAME
4. HOME OFFICE TELEPHONE 304-776-7473	5. ESTABLISHED (Y	ISHED (YEAR)	6. TYPE OWNERSHIP Individual x Corpor Partnership Joint-V	P 6a. WV REGISTERED DBE (Disadvantaged Business Joint-Venture Enterprise) x NO
7. PRIMARY AML DESIGN OFFICE: 5088 Washington Street, West Charleston, WV 25313	ADDRESS/ TELEPHON 304-776-7473/Tim	E/ PERS Cart,	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	RS OF FIRM	8a. NAME, TITLE, & TELE	TELEPHONE NUMBER - OTHER PRINCIPALS
9. PERSONNEL BY DISCIPLINE				
6 ADMINISTRATIVE ARCHITECTS BIOLOGIST 7 CADD OPERATORS — CHEMICAL ENGINEERS 10 CIVIL ENGINEERS	- ECOLOGISTS - ECONOMISTS - ELECTRICAL - ENVIRONMEN' - ESTIMATORS 2 GEOLOGISTS	ECOLOGISTS ECONOMISTS ELECTRICAL ENGINEERS ENVIRONMENTALISTS ESTIMATORS	2 LANDSCAPE ARCHITECTS — MECHANICAL ENGINEERS MINING ENGINEERS — PHOTOGRAMMETRISTS PLANNERS: URBAN/REGIONAL SANITARY ENGINEERS	ICTS 6 STRUCTURAL ENGINEERS IEERS 7 SURVEYORS S — TRAFFIC ENGINEERS IS — OTHER REGIONAL RS
ODD	1 1	IANS	1 SOILS ENGINEERS SPECIFICATION WRITERS	56 TOTAL PERSONNEL
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGI *RPEs other than Civil and Mining must provide supervise and perform this type of work.			IN PRIMARY OFFICE: rting documentation	13 that qualifies them to
10. HAS THIS JOINT-VENTURE WOI	WORKED TOGETHER	BEFORE?	U YES NO X This	is not applicable

NAME AND ADDRESS: Novel Geo – Environmental (NGE) 806 B Street, St. Albans, WV NAME AND ADDRESS: NAME AND ADDRESS: NAME AND ADDRESS: SPECIALTY: SPECIALTY: NAME AND ADDRESS: SPECIALTY:	SPECIALTY: Drilling	WORKED WITH BEFORE
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		YES
		NO

ON -
$\underline{\mathbb{X}}$ YES Description and Number of Projects: Seven (7) Projects
F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?
NO -
 X YES Description and Number of Projects: Forty five (45) Total Eleven (11) Domestic Waterline Experience (AML Related) Twenty (20) Evaluation of Aquifer Degradation Twenty Five (25) Non-AML Domestic Water Lines
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.)
NO -
All ELR WV & OH AML Projects since 2003 have been surveyed with ELR Surveying Staff
X YES Description and Number of Projects: > 200 - in Firm History - 65 Recent Projects Listed
D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?
ON T
$\underline{ ext{X}}$ YES Description and Number of Projects: Ten (10) Projects Listed - See attached sheet
C. Is your firm experienced in hydrology and hydraulics?
NO
X YES Description and Number of Projects: Eighteen (18) Projects Listed - See attached Sheet
B. Is your firm experienced in Soil Analysis?
NO
X YES Description and Number of Projects: Sixty-nine (69) Projects - See Attached Sheet
12. A. Is your firm experienced in Abandoned Mine Lands mediation/Mine Reclamation Engineering?

13. PERSONAL HISTORY STATEMENT data but keep to essentials	STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete essentials)	RESPONSIBLE FOR AML PROJECT D	ESIGN (Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Edward L. Robinson, President	YEARS OF AML DESIGN EXPERIENCE: 10	YEARS OF AML RELATED DESIGN EXPERIENCE: 24	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 32
Brief Explanation of Responsibilities	lities		
Mr. Robinson worked in the Right of Way Dives major utility plans. He has extensive expeland acquisition. He has provided quality Provide and coordinate Quality Control on a	ision of the Wrience in propecontrol on all	partment of Highways for surveys, property title jects designed by this fi	ten years where he reviewed searches, aerial mapping and rm 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, St.	State)
American Society of Civil Engineers - Past American Council of Engineering Companies National Society of Professional Engineers	eers – Past President WV Companies 1 Engineers	1975 Civil Engineering Registered in West Virginia and Kentucky Professional Licensed Surveyor No. 1150	and Kentucky or No. 1150
PERSONAL HISTORY seep to essential	STATEMENT OF PRINCIPALS AND ASSOCIATES 1 s)	RESPONSIBLE FOR AML PROJECT DESIGN	ssign (Furnish complete data
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Richard W. Watts, P.G.	YEARS OF AML DESIGN EXPERIENCE: 27	YEARS OF AML RELATED DESIGN EXPERIENCE: 32	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 1
Brief Explanation of Responsibilities Mr. Watts has served as project geologist on more than eig include project management, field reconnaissance, drilling analysis, specification writing, quantity determinations, Projects included surface and deep mine reclamation, subsi	Responsibilities as project geologist on more than eighty fement, field reconnaissance, drilling committing, quantity determinations, conface and deep mine reclamation, subsides	than eighty (80) abandoned mine land projects. Responsibilities drilling coordination, laboratory testing and analysis, stability ations, cost estimates, pre-bid and pre-construction meetings. In subsidence, AMD treatment and waterline feasibility studies.	ojects. Responsibilities og and analysis, stability construction meetings. ine feasibility studies.
EDUCATION (Degree, Year, Specia B.S./1977/Geology M.S./1994/Geography	Specialization)		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Geological Society of America Association of Engineering Geologists	ONS	REGISTRATION (Type, Year, State) Professional Geologist/1992/Virginia Professional Geologist/1993/Kentucky	ite) /irginia /entucky

13. PERSONAL HISTORY STATEMENT O data but keep to essentials)	OF PRINCIPALS AND ASSOCIATES	PERSON. HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES A. PONSIBLE FOR AML PROJECT DESIGN data but keep to essentials)	SIGN (Furnish complet.
& TITLE (Last, Fir		YEARS OF EXPERIENCE	
John Kelly II, E.I.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 8	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities Mr. Kelly has worked on many AML projects sinc sampling of coal refuse materials, hydrology, plans. Estimation of quantities developed est Mr. Kelly has performed layout and inspection addition, he has designed cut slopes for large County, WV and Meadowbrook Road in Harrison C	xplanation of Responsibilities ly has worked on many AML projects since joining ELR. His resp y of coal refuse materials, hydrology, hydraulics design of dra Estimation of quantities developed estimated cost. Mr. Kelly ly has performed layout and inspection of core drilling operati ly has performed layout so inspection of core drilling operati n, he has designed cut slopes for large-scale roadway projects w and Meadowbrook Road in Harrison County, WV.	onsibilities have inage structures, is proficient with ons for bridge and such as the US Rov	ties have included drilling inspection, ructures, and development of regrading cient with Auto Cadd. bridge and roadway projects. In the US Route 52 Kermit Bypass in Mingo
EDUCATION (Degree, Year, Specia	Specialization)		
B.S. Civil Engineering/1998/WVU			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	NIZATIONS	REGISTRATION (Type, Year, State)	(te)
		Engineer Intern, WV	
13. PERSONAL HISTORY STATEMENT (but keep to essentials)	OF PRINCIPALS AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT DESIGN	:SIGN (Furnish complete data
TLE		YEARS OF EXPERIENCE	
Timothy B. Cart, P.E.	YEARS OF AML DESIGN EXPERIENCE: 25	YEARS OF AML RELATED DESIGN EXPERIENCE: 25	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 20
Brief Explanation of Responsibilities Mr. Cart has completed numerous mine reclamation materials, re-establishment of vegetation cover, extinguishing burning materials and disposal of of Conducted Phase I and Phase II Studies to determing Mr. Cart has extensive experience in the design a has recently completed water projects in Mingo; B Mr. Cart has performed geotechnical engineering of embankments. EDUCATION (Degree, Year, Specialization) Bachelor of Science 1981 Civil Engineering MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	ities mine reclamation projects egetation cover, disposal and disposal of old mining tudies to determine if gro e in the design and consti- jects in Mingo; Kanawha; B cal engineering calculatio Engineering	he AML programmers. Designation of the control of t	yram, including regrading of coal refuse materials, and developing methods for gned passive AMD treatment systems. affected by pre-law mining. of waterline extension projects. Mr. Cart counties. settlement analysis of dams and other settlement analysis of dams and other gineer WV OH

OF EXPERIENCE T. RELATED DESIGN TO BESIGN EXPERIENCE: T. He has developed grading plans, over as a field inspector for several and designer on waterlines over the paragraph on Troxler nuclear density gage. ON (Type, Year, State) al Engineer WV FOR AML PROJECT DESIGN (Furnish composite to the paragraph of	TIPLE (Last. First, Middle TEARS OF AML DESIGN EXPERIENCE: 7 TOPLE (Last. First, Middle TEARS OF AML DESIGN EXPERIENCE: 7 TOPLE (Last. First, Middle TOPLE (Last. First) TOPLE (Last. First) TO	T OF PRINCIPALS AND ASSOCIATES ASPONSIBLE FOR	
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Settigan has worked on several AML projects since joining our firm. He has developed grading plans, is settigated and checked quantity calculations. He has also served as a field inspector for several is designed by E. L. Robinson Anginetring co. He has abose served as a field inspector. For several setting and so has experience with surveying and equipment including; theodolites, levels, and total state operformed various concrete and soil tests and is certified on Troxler nuclear density gage. In the propersional concrete and soil tests and is certified on Troxler nuclear density gage. In the professional Ordered and soil tests and is certified on Troxler nuclear density gage. In the propersional ordered and soil tests and is certified on Troxler nuclear density gage. Professional Engineer WV Professional Engineer MV Professional	Settigan has worked on several AML projects since joining our firm. He has develope is, estimated and checked quantity calculations. He has also served as a field inspire designed by E. L. Robinson Engineering Co. He has been the lead designer on water setting and a solid tests and is certified on Troxler nuclear also performed various concrete and soil tests and is certified on Troxler nuclear con (Degree, Year, Specialization) [VI) Engineering Technician/Fairmont State/1999 [VI) Engineering/1999 [VI) Engineering/1999 [VI) Engineering Engineer WV [VI) Engineering/1999 [VI) Engineering Engineering Engineer WV [VI) Engineering Engin	onsibilities	
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Garnes experience surveying and providing CADD Design for mine reclamation projects au suisions. He has provided construction inspections services for landsides and subsidence darkes has performed numerous water feasibility studies, which involved interviews, was lift, mine research, and development of final reports. Artion (Degree, Vear, Specialization) Artion (Degree, Farst, Middle Besign/ 1999 ERSHIP IN PROFESSIONAL ORGANIZATIONS AS PECTOR mining, designed mine drainage and water supply systems for underground and itation plans and systems which include precision pressure quality surveys and computer at leathons, work with leases and land management as well as reclamation and environmenter and carried or the art "electronic total stations and or objects data and developed GIS (Satellity mapping and collects data and developed GIS (Satellity Pari, State of the art "electronic total stations and developed GIS (Satellity Pari, State of the art "electronic total stations and developed GIS (Satellity Pari, State of the art "electronic total stations and developed GIS (Satellity Pari, State of the art "electronic total stations and developed GIS (Satellity Pari, State of Artion Artion Articles Satellity Pari, Satellity Pari, State of Collections and developed GIS (COLDESS	Explanation of	ities	Annual results in the control of the	
Architectural Design/ 1999 Computer Aided Drafting and Design/ 1999 ERSHIP IN PROFESSIONAL ORGANIZATIONS RETITLE LASTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR ANL PROJECT DE KEEP to essentials) EXPLANDAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR ANL PROJECT DE KETTLE (LASL, First, Middle TEARS OF ANL DESIGN EXPERIENCE: EXPLANDAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR ANL PROJECT DE STATEMENT OF A STATEMENT OF THE CASE OF EXPERIENCE: EXPLANDAL HISTORY STATEMENT OF ANL DESIGN EXPERIENCE: EXPLANDAL HISTORY STATEMENT OF ANL DESIGN EXPERIENCE: EXPLANDAL HISTORY STATEMENT OF ANL DESIGN AND ASSOCIATES OF AND RELATED DESIGN AND ASSOCIATES OF AND RELATED DESIGN AND ASSOCIATED AND ASSOCIATE	Garnes experience surveyinsions. He has provided Garnes has performed nume oing, mine research, and carlow (Degree, Year, Spec	viding CADD Design on inspection servi feasibility studie of final reports.	r mine reclamation projects s for landsides and subsiden which involved interviews,	l waterline and s projects in Ohic er sampling and
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PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DE Keep to essentials) & TITLE (Last, First, Middle reasonable) ### TITLE (Last, Population of Responsibilities ### TITLE (Last) ### TIT	A	IIZATIONS	(Type, Year,	ate)
as Rayburn, P.S. Explanation of Responsibilities Rayburn has experience in mine mapping and surveying, formulated short term and long rate of cold mining, designed mine drainage and water supply systems for underground and latic plants and systems which include precision pressure quality surveys and compute as performed slope stability analysis and hydrology calculations, provides computer an superformed slope stability analysis and hydrology calculations, provides computer an experience of the art" electronic total stations and/or GPS (Satellite) equipment tilizing "state of the art" electronic total stations and/or GPS (Satellite) equipment eys for aerial mapping and collects data and develops GIS for utility mapping. Mechanical Engineering, WVIT/1970 RESHIP IN PROFESSIONAL ORGANIZATIONS REGISTRATION (Type, Year, State, State) Professional Surveyor WV	PERSONAL HISTORY STATEMENT keep to essentials)	PRINCIPALS AND ASSOCIATES	FOR AML PROJECT	(Furnish complete
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Serior stability analysis and hydrology calculations, provides computer analysis for mirrications, work with leases and land management as well as reclamation and environmental permits. tilizing "state of the art" electronic total stations and/or GPS (Satellite) equipment, he performs eys for aerial mapping and collects data and develops GIS for utility mapping. Rayburn has also performed surveying and mapping for large scale highway projects. ATION (Degree, Year, Specialization) Mechanical Engineering, WVIT/1970 Mechanical Engineering, WVIT/1970 REGISTRATION (Type, Year, State) Professional Surveyor WV	of Explanation of Responsayburn has experience sof coal mining, designation plans and systemes	pping and su rainage and nclude preci	n and long ground and and comput	
ATION (Degree, Year, Specialization) Mechanical Engineering, WVIT/1970 REGISTRATION (Type, Year, PROFESSIONAL, ORGANIZATIONS Professional Surveyor WV	pe stabilit ith leases of the art" apping and performed	and mage tot	provides computer tion and environmen (Satellite) equipme lity mapping.	lysis for mir permits. he performs
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माम		YEARS OF EXPERIENCE	
Scott LeRose, P.E.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities Mr. LeRose is experienced in developing major highway Drilling Operations; Groundwater Sampling/Monitoring; Specific major highway design and right of way plan de of new four lane highway; US 52(I-73), a 3.5 mile desi interchanges; design of 2 mile section of Appalachian Corridor H from Grant/Hardy County line to Moorefield.	lities veloping major highway and right or Sampling/Monitoring; UST Removand right of way plan development (I-73), a 3.5 mile design and ROW section of Appalachian Corridor Honty line to Moorefield.	of way plans; Bri 1/Replacement and projects include: plans for a new from Davis to Bi	Bridge Construction Inspections; Core and Mine Permitting/Reclamationde: Meadowbrook Road, a 2 mile design ew four lane highway with two major Bismark; design of 5.2 mile section of
While working on these projects, he has gained relocation, MOT, signing and pavement stripping seeding, pollution control quantities, and othe development of ROW plans, including deed plots	gained ex ripping. nd other l plots an	drainage design, site quantity calculations vith roadway plans. He	grading design, utility for pavement, drainage, : is also experienced in the
EDUCATION (Degree, Year, Specia	Specialization)		
B.S. Civil Engineering/1997			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	NIZATIONS	REGISTRATION (Type, Year, Sta	State)
		Professional Engineer WV	
13. PERSONAL HISTORY STATEMENT (but keep to essentials)	OF PRINCIPALS AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT DE	DESIGN (Furnish complete data
E & TITLE		YEARS OF EXPERIENCE	
Ray Tilley, P.E.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
		ın	30
Brief Explanation of Responsibilities Mr. Tilley has over 30 years experience in wat Mr. Tilley is a certified Water Plant Operator projects over his career. His current duties	bilities experience in water and wastewater er Plant Operator. Mr. Tilley has s current duties include managing B	design as a Project successfully complet both water and wastew	Manager/Engineer. In addition, ed numerous waterline design ater design projects for ELR.
EDUCATION (Degree, Year, Special	Specialization)		
B.S. Civil Engineering/WV Tech 1975; M.S.	1975; M.S. Sanitary Engineering Virginia	ng Virginia Tech, 1976	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	NIZATIONS	REGISTRATION (Type, Year, Sta	State)
		Professional Engineer WV	

WARNE & TITLE (LARL, First, Middle PRANCE OF AUL DESIGN EXPERIENCE: PRESENCE OF NAME PROPERTY	EXPLINE Leaf, First, Middle SECTION EXPLANSION OF RESPONSIBILITIES SECTION AND DESIGN EXPERIENCE: EXPLANATION Of Responsibilities Fig. 1 construction layout for waterline projects. He performs calculated and superior and the raw water intake should water broject and the raw water intake should be superiored and extensive detailing on several bridge properties in the has performed calculations on various ANL project. Will Magnes, Vasar, Specialization) CIVIL Engineering/1998/ West Virginia Institute of Technology ENSHIP IN PROFESSIONAL ORGANIZATIONS ENGINEERING THEORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR ANL PROJECT DE CHAIL Liber, First, Middle EXPLANATION (Pagnes, STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR ANL PROJECT DE CHAIL Liber, First, Middle EXPLANATION (Pagnes, Vasar, Specialization) D. Morton, P.E. EXPLANATION (Free Section of Responsibilities Norton has worked on waterline extension projects in Putnam County. He also has complicated my projects involving the West Virginia Division of Highways. CIVIL Engineering/1998 CIVIL Engineering/1998 ENGINEERING (Pagnes, Year, Specialization) CIVIL Engineering/1998	13. PERSO HISTORY STATEMENT O data but keep to essentials)	F PRINCIPALS AND ASSOCIATES	ASPONSIBLE FOR AML PROJECT DESIGN (Furnish	ESIGN (Furnish complete
TERRE OF ANT DESIGN EXPERIENCE: Explanation of Responsibilities Whin has experience in contruction layout for waterline projects. He performs calculation and permit has been project. He has proficed and extensive detailing on several intake structure for the Payett and Responsibilities CIVIL Engineering/1998/ West Virginia institute of Technology RESIDENT IN PROFESSIONAL ORGANIZATIONS EXPRIENCE: A THILE Last, First, Middle FRESONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR ANL PROJECT DESIGN [Furnish complete ceap to essentials] EXPRINTED BY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR ANL PROJECT DESIGN [Furnish complete ceap to essentials] EXPLANATION: 1 D. MORTON, P.E. 2 EXPRINTED BY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR ANL PROJECT DESIGN [Furnish complete ceap to essentials] EXPLANATION OF PRINCIPAL AND ASSOCIATES RESPONSIBLE FOR ANL PROJECT DESIGN [Furnish complete ceap to essentials] 5. THILE Last, First, Middle FRESONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR ANL RELATED DESIGN [Furnish complete ceap to essentials] 6. THILE Last, First, Middle FRESHIP IN PROFESSIONAL OF RESPONSIBLE AND ASSOCIATES RESPONSIBLE FOR ANL RELATED DESIGN [Furnish complete ceap to essentials] FRESHIP IN PROFESSIONAL OF RESPONSIBLE EXPERIENCE: 1. D. MORTON, P.E. 2. 2 1. D. MORTON, P.E. 2. 2 1. D. MORTON, P.E. 3. D. MORTON, P.E. 4. THILE LAST OF PRINCIPAL AND ASSOCIATES RESPONSIBLE FOR ANL RELATED DESIGN EXPERIENCE FRESHIP IN PROFESSIONAL OF PRINCIPAL AND ASSOCIATES RESPONSIBLE FOR AN AREALINGS COUNTY (Degree, Year, Specialization) COUNTY (Degree, Year, Specialization) COUNTY (Degree, Year, State) FRESHIP IN PROFESSIONAL OF CANAIZATIONS FRESHIP IN PROFESSIONAL OF PAGENIZATIONS FRES	Explanation of Responsibilities When the sexperience in construction layout for waterline projects. He performs calcusted and recommendation of Responsibilities Whin has experience in construction layout for waterline projects. He performs calcusted and recommended the raw water intake saw Regional Water Project and the raw water intake saw Regional Water Project and extensive detailing on several bridge procession below. Specialization and extensive detailing on several bridge procession Emphasion of Principals and extensive detailing on several bridge procession Emphasion of Principals and extensive detailing on several bridge process to the professional decks and extensive detailing on several bridge procession Emphasion of Principals and Associaries Responsible for Author Projects and Capacity and Associaries Responsible for Author Projects in Purian County. He also has completed to the Projects involving the West Virginia Division of Highways. Civil Engineering/1998 Civil Engineering/1998 Explanation of Responsibilities for Author Engineer Management and particular and particular and projects involving the West Virginia Division of Highways. Civil Engineering/1998 ENGIN Divil Engineering/1998 Civil Engineering/1998 RESHIP IN PROFESSIONAL ORGANIZATIONS	& TITLE		OF	
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Nature has experience in construction layout for waterline projects. He performs calculation and permit tremairs. He has worked on the Caball County Water Project and the raw water intake structure for the Fayetta and Regional Water Project. He has performed calculations on various AML project. Mainn has designed approach slabe, decks and extensive detailing on several bridge projects. WINTOW (Degree, Year, Specialization) CIVIL ENGINEER, Mark Specialization) ENGINEER IN PROFESSIONAL ORGANIZATIONS TEARS OF EXPERIENCE: TEARS OF MAIL PROJECT DESIGN FUNCTION AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete ENTITLE Linet, First, Middle TEARS OF TAILE IN PROFESSIONAL ORGANIZATIONS TOTAL HAS WORKED ON WATERILINE STATEMENTS: EXPERIENCE: TEARS OF AND DESIGN EXPERIENCE: TEARS OF AND PRESIDENCE: TEARS OF TAILE OF THE PROFESSIONAL ORGANIZATIONS THE PROFESSIONAL ORGANIZATIONS THE PROFESSIONAL ORGANIZATIONS THE PROFESSIONAL ORGANIZATIONS PROFESSIONAL STATEMENT OF THE PROFESSIONAL ORGANIZATIONS PROFESSIONAL STATEMENT OF THE PROFESSIONAL ORGANIZATIONS THE PROFESSIONAL PROFESSIONAL STATEMENT OF THE AUGUST AND THE PROFESSIONAL ORGANIZATIONS THE PROFESSIONAL STATEMENT OF THE PROFESSIONAL PROFESSIONAL STATEMENT OF THE PROFESSIONAL PRO	Winn has experience in construction layout for waterline projects. He performs calculate sau Regional Water Project and the raw water intake sau Regional Water Project. He has performed calculations on various ALL project. Wainn has designed approach slabs, decks and extensive detailing on several bridge proceed. Year, Specialization) Civil Engineering/1998/ West Virginia Institute of Technology RESHIP IN PROFESSIONAL ORGANIZATIONS EXPERIENCE: EXPENSIONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DE EXPENSIONS EXPLINE (Last, First, Middle Terms of Technology Expension of Francisco Parismon Projects in Putnam County. He also has compliation by Norton, P.E. Explanation of Responsibilities forton has worked on waterline extension projects in Putnam County. He also has compliated and projects involving the West Virginia Division of Highways. Fig. and other drainage structures and highway construction. Civil Engineering/1998 REGISTRATION (Type, Year, Statement Marking plans and performed hydrologic and hybrits and other drainage structures and highway construction. Civil Engineering/1998 RESHIP IN PROFESSIONAL ORGANIZATIONS RESHIP IN PROFESSIONAL ORGANIZATIONS Professional Engineer WO Professional Engineer WO	Explanation of	ities		
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Civil Engineering/1998/ West Virginia Institute of Technology RESISTRATION (Type, Year, State) RECISTRATION (Type, Year, State)	CIVIL Engineering/1998/ West Virginia Institute of Technology ERSHIP IN PROFESSIONAL ORGANIZATIONS ERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESCRIBED to essentials) E TITLE (last, First, Middle	EDUCATION (Degree, Year, Specia.	lzatlon)		
EXPLIENT IN PROFESSIONAL ORGANIZATIONS REGISTRATION (Type, Year, State) FERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete teep to essentials) FITUE (Last, First, Middle YEARS OF AML DESIGN EXPERIENCE: TEARS OF AML PRIATED DESIGN (Furnish complete EXPERSION EXPERIENCE: TEARS OF AML PRIATED DESIGN (Furnish complete EXPERSION EXPERIENCE: TEARS OF AML PRIATENCE: TEARS OF DOMESTIC WATERLINE EXPERSION OF EXPERSION (Furnish completed numerous waterline extension projects in Putnam County. He also has completed numerous waterline action projects involving the West Virginia Division of Highways. FOURTON (Degree, Year, Specialization) Civil Engineering/1998 FREGISTRATION (Type, Year, State) Professional Engineer WV	PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DE (ceep to essentials) **EXPERIENCE:** **TITLE** (last, First, Middle		Virginia Institute of	nology	
Explanation of Responsibilities Explanation of Responsibilities Octor has prepared signing and pavement marking plans and other drainage structures and highway construction. VEARS OF ANT. PROPERSIONAL ORGANIZATIONS REGISTRATION (Type, Year, State) PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR ANT. PROJECT DESIGN (Furnish complete Calculations for projects involving the West Virginia Division of Highways. VEARS OF ANT. PEARS OF ANT. PEARS OF DOMESTIC WATERLINE EXPERIENCE: 2 EXPERIENCE: 2 EXPERIENCE: 2 EXPERIENCE: 2 EXPERIENCE: 2 EXPERIENCE: 3 EXPERIENCE: 4 EXPERIENCE: 5 EXPERIENCE: 6 EXPERIENCE: 6 EXPERIENCE: 7 EXPERIENCE: 6 EXPERIENCE: 7 EXPERIENCE: 7 EXPERIENCE: 8 EXPERIENCE: 7 EXPERIENCE: 8 EXPERIENCE: 9 EXPERIENCE: 7 EXPERIENCE: 8 EXPERIENCE: 9 EXPERIENCE: 9 EXPERIENCE: 7 EXPERIENCE: 8 EXPERIENCE: 9 EXPERIENCE: 7 EXPERIENCE: 8 EXPERIENCE: 7 EXPERIENCE: 8 EXPERIENCE: 9 EXPERIENCE: 9 EXPERIENCE: 10 EXPENSIONAL (Type, Year, State) 10 EXPERIENCE: 11 EXPERIENCE: 12 EXPERIENCE: 13 EXPERIENCE: 14 EXPERIENCE: 15 EXPERIENCE: 15 EXPERIENCE: 16 EXPERSIONAL (Type, Year, State) 17 EXPERIENCE: 17 EXPERSIONAL (Type, Year, State)	EXPENSIVAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR ANL PROJECT DE (ceep to essentials) * TITLE (last, First, Middle	1	IIZATIONS	Year,	ate)
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Morton has worked on waterline extension projects in Putnam County. He also has completed numerous waterline cation projects involving the West Virginia Division of Highways. Morton has prepared signing and pavement marking plans and performed hydrologic and hydraulic calculations ferts and other drainage structures and highway construction. AATION (Degree, Year, Specialization) Civil Engineering/1998 REGISTRATION (Type, Year, State) Professional Engineer WV	Morton has worked on waterline extension projects in Putnam County. He also has completed numerous ocation projects involving the West Virginia Division of Highways. Morton has prepared signing and pavement marking plans and performed hydrologic and hydraulic calcul verts and other drainage structures and highway construction. AATION (Degree, Year, Specialization) Civil Engineering/1998 REGISTRATION (Type, Year, State) Professional Engineer WV	D. Morton,	:	YEARS OF AM, RELATED DESIGN EXPERIENCE: 2	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 6
Morton has worked on waterline extension projects in Putnam County. He also has completed numerous waterling plants in projects involving the West Virginia Division of Highways. Morton has prepared signing and pavement marking plans and performed hydrologic and hydraulic calculations verts and other drainage structures and highway construction. ZATION (Degree, Year, Specialization) Civil Engineering/1998 REGISTRATION (Type, Year, State) Professional Engineer WV	Morton has worked on waterline extension projects in Putnam County. He also has completed numerous scation projects involving the West Virginia Division of Highways. Morton has prepared signing and pavement marking plans and performed hydrologic and hydraulic calcul retrs and other drainage structures and highway construction. ATION (Degree, Year, Specialization) Civil Engineering/1998 Professional Engineer WV Professional Engineer WV	Explanation of	ities		
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(Degree, Year, Specialization) Engineering/1998 IN PROFESSIONAL ORGANIZATIONS Professional Engineer WV	(Degree, Year, Specialization) Engineering/1998 IN PROFESSIONAL ORGANIZATIONS Professional Engineer WV	Mr. Morton has prepared signing culverts and other drainage stru	and pavement marking plans a ctures and highway construct.		calculations
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13. PERSOn HISTORY STATEMENT OF PRINCIPALS AND data but keep to essentials)	ASSOCIATES A SPONSIBLE	FOR AML PROJECT DE	PRINCIPALS AND ASSOCIATES LAPONSIBLE FOR AML PROJECT DESIGN (Furnish complete.
TLE (Last, Fir	YEARS	OF EXPERIENCE	
Joseph T. Carney, P.E.	EXPERIENCE: YEARS OF AML EXPERIENCE:	L RELATED DESIGN	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 32
Brief Explanation of Responsibilities			
Mr. Carney has extensive experience in design eng and contract administration. He has worked on a storm sewer, drainage studies, roadway, bridge de EDUCATION (Degree, Year, Specialization)	engineering, preparation of contract dona variety of Civil Engineering project design, hydrologic/hydraulic reports,		ocuments, construction inspection, is including grading, earthwork, sanitary sewer and water systems.
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION	(Type, Year,	State)
	Professional	al Engineer WV	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES but keep to essentials)	ASSOCIATES RESPONSIBLE	FOR AML PROJECT DESIGN	ESIGN (Furnish complete data
NAME & TITLE (Last, First, Middle Inf)	YEARS OF	OF EXPERIENCE	
man, Gary A., CADD	AML DESIGN EXPERIENCE: YEARS OF AM 20	lд	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
		0	çl
Brief Explanation of Responsibilities Mr. Workman is responsible for CADD design on AML projects, WVDEP/AML projects while employed at Ackenheil, and has wor	as well ked on 7	geotechnical soil projects while at	analysis. He Worked on 44 E. L. Robinson.
EDUCATION (Degree, Year, Specialization) Technical School/1987/CADD			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATI WVDOH cert	REGISTRATION (Type, Year, State) WVDOH certifications compaction,	ate) ion, aggregates and concrete.

13. PERSONAL HISTORY SYNCHERNY OF PRINCIPALS AND ASSOCIATES A.SPONSIBLE FOR AML PROJECT DESIGN (Furnish data but keep to essentials) WARE & TITLE (Last, First, Middle transport of Responsibilities transported to the first of				
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t, waterline and sewer extensions, and layout on A sign with a prior firm. REGISTRATION (Type, Year, Stand Design AML DESIGN EXPERIENCE AML DESIGN EXPERIENCE: 10 10 Field Geologist, performing test boring over-sight has also performed many geotechnical soil tests in ication writing, and quantity and cost calculation ication writing, and quantity and cost calculation REGISTRATION (Type, Year, Standard Cost Calculation REGISTRATION (Type, Year, Standard Cost Calculation Cost	Jason M.	ML DESIGN EXPERIENCE:	H	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
PALS AND ASSOCIATES REGISTRATION (Type, Year, Stand Design with a prior firm. PALS AND ASSOCIATES RESPONSIBLE FOR AND PROJECT DE YEARS OF EXPERIENCE AND DESIGN EXPERIENCE EXPERIENCE EXPERIENCE EXPERIENCE: 10 10 Field Geologist, performing test boring over-sight has also performed many geotechnical soil tests in ication writing, and quantity and cost calculation	Explanation of			3
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AML DESIGN EXPERIENCE: 10 Field Geologist, performing test boring over-sight has also performed many geotechnical soil tests in ication writing, and quantity and cost calculation REGISTRATION (Type, Year, Sta	PERSONAL HISTORY STATEMENT OF keep to essentials)	ASSOCIATES		ESIGN (Furnish complete data
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Field Geologist, performing test boring over-sight, logging has also performed many geotechnical soil tests in the labor ication writing, and quantity and cost calculations for AML. REGISTRATION (Type, Year, State)	t A. Pratt	AML DESIGN	L RELATED	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
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Field Geologist, performing test boring over-sight, logging has also performed many geotechnical soil tests in the laborication writing, and quantity and cost calculations for AML REGISTRATION (Type, Year, State)	Explanation of			
REGISTRATION (Type, Year,	where the strength of the stre	Geologist, lso performe on writing,	ning test boring over-sig geotechnical soil tests intity and cost calculati	logg the l
REGISTRATION (Type, Year,	J. Specializacion)			
REGISTRATION (Type, Year,	Geology,			
	IBERSHIP IN PROFESSIONAL ORGANIZATIONS		Year,	ate)

14. PROV. A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AM 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)
700 Receiver (6), ve 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.

15. CURRENT ACTIVITIES	ON WHICH YOUR FIRM IS THE	DESIGNATED ENGINEER OF	RECORD	
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Jacobs Fork Complex McDowell County	WVDEP/AML&R	Surveying, Mapping and Design	\$750,000	66
Brownton Landslide Barbour County	WVDEP/AML&R	Surveying, Mapping and Design	\$350,000	7.0
Rhodell Refuse & Portals, Wyoming County	WVDEP/AML&R	Surveying, Mapping and Design	\$1.2 M	ර
Water System ounty	Logan County PSD P. O. Box 506 Logan, WV Attn: Rick Roberts	Design and Construction Management	\$6.0 M	08
Gilbert Slabtown Waterline Extension	Town of Gilbert P.O. Box 188 Gilbert, WV Attn: John White	Design and Construction Management	\$2.3 M	1.5
Lavalette PSD Rt. 37 Waterline Extension	Lavalette PSD 5308 Route 152 Lavalette, WV	Design and Construction Management	\$5.0 M	8.5
Danese Waterline Extension	Danese Public Service District	Design and Construction Management	\$6.0 M	85
TOTAL NUMBER OF PROJECTS:	S:	TOTAL ESTIMATED	TED CONSTRUCTION COSTS:	₩

15. CURRENT ACTIVITIES (CURRENI ACTIVITIES ON WHICH YOUR FIRM IS THE	DESIGNATED ENGINEER OF	RECORD	
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Island Creek #18 Logan County	WVDEP/AML&R	Surveying, Mapping and Design	\$500,000	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	5.0
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	TOTAL ESTIMATED CONSTRUCTION COSTS:	\$ 38.8 Million

	T					
	TRUCTION COST	YOUR FIRMS RESPONSIBILITY	\$30,000			
RS	ESTIMATED CONSTRUCTION COST	ENTIRE PROJECT	\$75,000			
B-CONSULTANT TO OTHE	COMPLETION DATE		November 2009			
CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS	NAME AND ADDRESS OF OWNER		Mason County Courthouse 200 Sixth Street Point Pleasant, WV			
	NATURE OF FIRMS RESPONSIBILITY		Design of Steps and Sidewalk			-
16. CURRENT ACTIVITI	IYPE N		Mason County Courthouse Steps			

17. COMPLETED WORK WITHIN LAS	WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS	S THE DESIGNATED ENGINEER OF RECORD		
PROJECT NAME, TYPE AND LOCATION	ME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION	YEAR	CONSTRUCTED (YES OR NO)
Glen Rogers Waterline Extension Wyoming County	WVDEP-AML 601 57 th Street Charleston, WV 25304	\$1.2 M	2007	Yes
Guyandotte River Bridge I-64 Cabell County	WV Dept. of Transportation Engineering Division Charleston, WV 25301 Attn: Gregory Bailey	\$2.25 M	2006	Yes
Corridor H Davis-Bismark X347-H-64.85 00 Tucker County	WV Dept. of Transportation Engineering Division Charleston, WV 25301 Attn: Gregory Bailey	\$9.0 M	2008	NO
WVDEP-Emergency East Bank (Willis) Mine Blowout	WVDEP AML&R 601 57 th Street Charleston, WV 25304	\$0.8 M	2009	Y ee s
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 57th Street Charleston, WV 25304	\$675,000	2009	Yes
Upshur County Industrial Park Upshur County	Upshur County EDA	\$4.0 M	2009	Yes

SUB-CONSULTANT TO OTHER FIRMS (INDICATE rAASE	FIRM ASSOCIATED (YES OR NO) WITH	Sub to Michael Baker, Jr., Inc.	Sub to Michael Baker, Jr., Inc.	Sub to Modjeski & Masters No		idditional information or description of resources supporting your firm's for the West Virginia Abandoned Mine Lands Program. is committed to the WVDEP/AML program to provide professional design, surveying and ring services in a timely and cost-efficient manner. Our business plan relies the WVDEP/AML program.	NAGER Date: November 4, 2009
ICH YOUR FIRM HAS BEEN A SUB- IBLE)	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	WV Dept. of Transp. Division of Highways Engineering Div. Charleston, WV 25301	WV Dept. of Transp. Division of Highways Engineering Div. Charleston, WV 25301	WV Dept. of Transp. Division of Highways Engineering Div. Charleston, WV 25301		provide any additional information or description of resources perform work for the West Virginia Abandoned Mine Lands Prograr fineering Co. is committed to the WVDEP/AML program to provide ruction monitoring services in a timely and cost-efficient manner of offered by the WVDEP/AML program.	Title: PROJECT MANAGER
ON LETED WORK WITHIN LAST 5 YEARS ON WHI OF WORK FOR WHICH YOUR FIRM WAS RESPONSI	NAME AND ADDRESS OF OWNER	Sub to Michael Baker, Jr., Inc. Surveying, structural design, hydraulic & scour analysis	Sub to Michael Baker, Jr., Inc. Post Design Services	Sub to Modjeski & Masters Survey,Geotech & ROW Plans			ing is a statement of facts. This was the matter of facts. Richard W. Watts
18. COMPLETED WORK WORL WORK WIT	PROJECT NAME, TYPE AND LOCATION	Appalachian Corridor D Blennerhassett Island Bridge X354-D-0.00	I-70 Ft. Henry IC Bridge X335-70-9.50 00	Appalachian Corridor H Section 3 Davis to Bismark		19. Use this space to provide any a qualifications to perform work E. L. Robinson Engineering Co. mapping and construction monitoheavily on the work offered by	20. The foregoing is a st Signature: Printed Name: Richard W.

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

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

Year:

Gallia County, OH 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

C

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

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

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

Year:

Pomeroy, OH

I car.

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 ODNR-AML

Client:

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 December 2003

Year: 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

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:

Bull Run #35

Year:

July 1999

Client:

WVDEP-AML

Description:

Performed surveying and design for refuse and spoil regrading.

Project:

Securro Mine Drainage Site 1 & 2

Fairmont, WV

Year:

July 1998

Client:

WVDEP-AML

Description:

Performed surveying and design for mine drainage system.

Project:

Brown's Creek #10 Reclamation Project

Year:

1997

Client:

WVDEP-AML

Description:

Performed surveying and design for refuse regrading and

mine seal installation.



12B Soil Analysis Geotechnical Experience

US-52 Kermit By-Pass

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

Designed cuts 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.

<u>Camp Creek Bridge – Lavalette</u>

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

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.



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 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 $6' \times 6'$ 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 Olio, West Virginia and Eastern Kentucky. These projects have involved draining flooded mine workings, support of ground experiencing or subject to Mine subsidence and the stabilization of landslides.

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

His experience includes permitting activities for projects which have included:

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





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

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





Richard W. Watts

Project Geologist

Education

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

Professional Registrations

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

Professional Memberships

Geological Society of America Association of Engineering Geologists

Teaching Experience

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

Professional Experience

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

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

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

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

AML and Coal Industry Projects:

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

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





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,

 MAY





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





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

Representative Projects

Design Surveys

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

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

- 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 Manager

Education

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

Marshall University December 2007

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

Registrations

Registered Professional Engineer in West Virginia

Professional Memberships

American Society of Civil Engineers

Professional Experience

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

Mr. McGettigan has taken several large water and wastewater projects from the initial development phase through the construction phase. This includes writing preliminary engineering developing funding scenarios, designing the developing system, the plans and specifications, developing 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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Dupont Avenue Landslide		2003		×	×	×				H	×	-		-	<u> </u>	-	×	ļ	<u>a</u>		<u>a</u>	<u>a</u>
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Jumping Granch Seard's Fork	ı o	1990		×	×	×	×	×	+	×	+ *	×	\dagger	\dagger	×	+	- -	+	م م			2 0
Turkey Wallow	n.	1997	×	×	×	×	×	×	_		- - - -	+	\dagger	+	ļ	<u> </u>	 ×	-	<u> </u>	L	İ	<u> </u>
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							PROJECT	STEXP	EXPERIENCE	Ņ,								P	imany	Primary Staff Participation M:Wegert	rticipa	tion
PROJECT	Experience Basis Corporate-C Personal-P	Additional Information in Section	Abandoned Surface Mine Reclamation	notsmetoeA eniM geed benobnadA	Portal/Shaft Closure	Hydrological/Hydraulic Design/Eval.	Remining Evaluation	InemstadA end esute/NentM	Subsidence Investigation Mitigation	lasoqsiQ ətseW suobrasaH	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspection/Management	InemiserT heleW	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Ed Robinson, P.E. Tim Cart, P.E.	חווו כאון, ר'ב. Richard W. Watts, P.G.	Mark McGettigan, P.E.	John Kelly. E.t.	Scott A. Pratt, Geologist
New Hill Ballpark	a.	1988	×	×	×	×	×	T	ľ	l	×	×		l	-	1			a			l
Jones Run	ď	1988	×	×	×	×			×	-	×	×			×		×	H	a.	-		
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Bethel Portals	α.	1985		×	×	×			+	+	×	×					×		۵			
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Airport Bottom	a.	1987		×	×	×		-	-	-	- - -			4	+	+	 	+	١	-		1
Manilla Creek	۵.	1987	×	×	×	X	×	H		***************************************	×	×		×	×	l	×	-	<u> </u>			1
McAlpin	Q.	2009									×					-	×	<u>a</u>	d.			
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Coal Mountain	C	2009			T					-	-	×	-	H	-	-	Σ	<u>a</u>	. a.	-	Τ	٠
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STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

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

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the **West Virginia Code**. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the **West Virginia Code** and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the **West Virginia Code** may take place before their work on the public improvement is begun.

ANTITRUST:

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

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

LICENSING:

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

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.

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	Enzi	neerina	<u>د</u> ه .			
Authorized Signature			171			Date: _	11-4-00	7
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Purchasing Affidavit (Revised 01/01/09)