

# **EXPRESSION OF INTEREST**

**To Provide Professional Engineering Services for  
RFQ No. DEP14845**

**Cambria Mine Drainage Remediation Project  
Harrison County, West Virginia**

Prepared for:

**WV Department of Environmental Protection**

Office of Abandoned Mine Lands and Reclamation

601 57<sup>th</sup> Street, SE

Charleston, WV 25304

Prepared by:

**Randolph Engineering Company, Inc.**

4414 Teays Valley Road

Scott Depot, WV 25560

December 15, 2009



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WV PURCHASING  
DIVISION

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## TABLE OF CONTENTS

### Section 1 - PROPOSAL DOCUMENTS

- Title Page
- Request for Quotations
- Contact Individuals
- Purchasing Affidavit
- Insurance Certificate

### Section 2 - TECHNICAL PROPOSAL

Introduction to Randolph Engineering.....	1
General Experience and Capabilities.....	2
Notable Clients.....	3
Notable Project Experience.....	4
Project Outline.....	5
Project Understanding.....	5
Technical Approach.....	6-7
Resource Allocation.....	7
Schedule and Budget Control.....	7
Closing.....	7
Project Team.....	8

### Section 3 - REPRESENTATIVE PROJECTS

### Section 4 – PERSONNEL RESUMES

### Section 5 – SUB-CONSULTANT

### Section 6 – WV AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE

### Section 7 – EXPERIENCE MATRIX

**section 1**

**PROPOSAL DOCUMENTS**

## TITLE PAGE

**RFP SUBJECT:** The design and contract administration for the remediation of the Mine Drainage Project in Harrison County, WV.

**RFP NUMBER:** DEP 14845

**BIDDER NAME:** Randolph Engineering Co., Inc.

**BIDDER ADDRESS:** 4414 Teays Valley Road  
Post Office Box 346  
Scott Depot, WV 25560

**BIDDER PHONE NO.:** (304) 757-9217

**BIDDER CONTACT:** Roger K. Randolph, P.E.

  
Signature

**DATE:** December 15, 2009



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

# Request for Quotation

RFQ NUMBER  
 DEP14845

PAGE  
 1

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

RFQ COPY  
 TYPE NAME/ADDRESS HERE

Randolph Engineering  
 4414 Teays Valley Rd.  
 Scott Depot, WV 25560

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/05/2009				

BID OPENING DATE: 12/15/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	QAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-29		
CAMBRIA PORTALS & DRAINAGE DESIGN  EXPRESSION OF INTEREST  THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ENGINEERING DESIGN SERVICES AND CONSTRUCTION MONITORING SERVICES AT THE CAMBRIA PORTALS AND DRAINAGE PROJECT IN HARRISON COUNTY, WEST VIRGINIA, PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS.  BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THIS CONTRACT NULL AND VOID AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.  ***** THIS IS THE END OF RFQ DEP14845 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Boger K Randolph</i>	TELEPHONE 304-757-9217	DATE 12/18/09
TITLE President	FERN 550588736	ADDRESS CHANGES TO BE NOTED ABOVE

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

## **RANDOLPH ENGINEERING CONTACT INDIVIDUALS\***

Roger K. Randolph, P.E., President  
P. O. Box 346  
Scott Depot, WV 25560  
(304) 757-9217

---

Aaron C. Randolph, P.E.  
P. O. Box 346  
Scott Depot, WV 25560  
(304) 757-9217

---

Vendor Registration No. 55-058-8736

\*Persons authorized to conduct negotiations and contractually sign for Randolph Engineering Co., Inc.

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: Randolph Engineering

Authorized Signature: Roger K Randolph

Date: 12/18/09



# ACORD CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YY)  
11/11/09

**PRODUCER**

Wells Fargo Ins. Services  
of West Virginia, Inc.  
408 9th Street  
Huntington WV 25701-1418  
(304) 697-2900

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

**COMPANIES AFFORDING COVERAGE**

- COMPANY  
**A** Westfield Insurance Company
- COMPANY  
**B** BrickStreet Mutual Ins. Co.
- COMPANY  
**C** ACE American Insurance Co.
- COMPANY  
**D**

**INSURED**

Randolph Engineering Co., Inc.  
P. O. Box 346  
Scott Depot, WV 25560

**COVERAGES**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOT WITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS MADE <input checked="" type="checkbox"/> OCCUR OWNER'S & CONTRACTOR'S PROF	CWP3837233	4/01/09	4/01/10	GENERAL AGGREGATE \$ 2,000,000 PRODUCTS-COMP/OP AGG \$ 2,000,000 PERSONAL & ADV INJURY \$ 1,000,000 EACH OCCURRENCE \$ 1,000,000 FIRE DAMAGE (Any one fire) \$ 300,000 MED EXP (Any one person) \$ 10,000
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS <input checked="" type="checkbox"/> Comprehensive <input checked="" type="checkbox"/> Collision	CWP3837233 DEDUCTIBLE \$250 DEDUCTIBLE \$500	4/01/09	4/01/10	COMBINED SINGLE LIMIT \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE \$
	GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT \$ OTHER THAN AUTO ONLY: EACH ACCIDENT \$ AGGREGATE \$
A	EXCESS LIABILITY <input checked="" type="checkbox"/> UMBRELLA FORM OTHER THAN UMBRELLA FORM	CWP3837233	4/01/09	4/01/10	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ 2,000,000
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY THE PROPRIETOR/ PARTNERS/EXECUTIVE OFFICERS ARE: <input type="checkbox"/> INCL <input type="checkbox"/> EXCL	WC10035174-06	4/01/09	4/01/10	<input checked="" type="checkbox"/> WC STATU- TORY LIMITS EL EACH ACCIDENT \$ 1,000,000 EL DISEASE-POLICY LIMIT \$ 1,000,000 EL DISEASE-EA EMPLOYEE \$ 1,000,000
C	OTHER Architects & Engineers Professional E&O	N00730373005	4/01/09	4/01/10	Limit: \$1,000,000 Aggregate: \$1,000,000 Retention: \$ 25,000

**DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS**

Evidence of Insurance. RE: Cambria Portal & Drainage DEP14845

**CERTIFICATE HOLDER**

WVDEP  
Dept of Office of AML&R  
601 57th Street SE  
Charleston, WV 25304

**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

**AUTHORIZED REPRESENTATIVE**

*Devona D Webb* Devona D Webb

**section 2**

**TECHNICAL PROPOSAL**

## **INTRODUCTION TO RANDOLPH ENGINEERING**

Randolph Engineering is a multi-disciplined consulting engineering firm in Teays Valley, West Virginia. The company recently celebrated 30 years of providing innovative engineering solutions to a variety of clients ranging from municipalities and government agencies to private land developers.

Randolph's success is the result of outstanding client service and satisfaction.

### **Our history**

The company was founded by Roger Randolph in 1976, and from a modest beginning has grown into an award-winning regional engineering firm. Our attention to detail and commitment to client satisfaction have generated repeat and referral clients, some of whom have been with us since our inception.

Roger Randolph is an experienced Project Manager and lead engineer for a variety of municipal, stormwater, structural and land development projects. His wealth of knowledge and experience is a valuable asset to the company's next generation of engineers and designers.

### **Building on success**

Randolph Engineering is situated in one of West Virginia's fastest-growing areas – a location that has afforded the opportunity to diversify into a full-service engineering firm. We offer an array of services including transportation engineering; municipal engineering; land development and surveying; structural engineering; building engineering; and construction engineering.

One of our keys to success is the reliability and stability provided by our employees' loyalty and longevity. Many of our staff members have been with Randolph for more than 25 years, with a number of others approaching that milestone.

### **Our projects**

Our variety of clients and engineering projects creates interesting and unique challenges for the engineers and designers at Randolph Engineering. Some of our notable projects include the award-winning Jackson's Mill Bridge for the West Virginia Division of Highways; site improvements and plant expansions for Toyota Motor Manufacturing; complete renovation and expansion of the City of Hurricane wastewater treatment plant; land development for some of the largest retailers in the United States; and site designs for large, single- and multi-family residential subdivisions, townhouses and apartment complexes, including a 250-unit gated community near Charleston, W.Va.

### **Looking to the future**

Successful projects such as these and an unending commitment to client satisfaction paint a bright picture for our future. We look forward to more engineering challenges and continued growth while working with you and the AML Program.

## **GENERAL EXPERIENCE, CAPABILITIES AND SERVICES**

We have successfully completed numerous projects for local municipalities as well as private clients that encompass most of the tasks required for this work. Two of our most recent projects include the Storm Water Analysis for Toyota Motor Manufacturing and the Town of Buffalo Storm Water Outfall project. Both of these projects posed significant challenges for the design team including flat terrain, archaeological sites, erosion control and restrictive right-of-way.

In addition to these two notable storm water projects, we have more than 30 years of experience in various engineering disciplines.

Randolph Engineering offers the following services:

- Civil Engineering
- Hydrologic and Hydraulic Engineering
- Stormwater Management
- Construction Administration
- Construction Monitoring
- Water Distribution & Treatment Engineering
- Wastewater Collection & Treatment Engineering
- Land Use Planning
- 404 Permit Preparation
- CADD Services
- Sediment & Erosion Control Plans
- Feasibility Studies
- Foundation Design
- Structural Engineering
- Surveying & Mapping
- Cost Estimating
- Construction Documents
- Residential/Commercial and Industrial Site Engineering
- Wetland Investigation and Delineation
- Retaining Wall Design
- Highway and Bridge Engineering

## **NOTABLE CLIENTS**

Randolph Engineering has provided innovative and cost effective engineering solutions to a wide range of clients including local and state agencies, residential, commercial and industrial developers as well as contractors and other engineering firms.

Some of our more notable clients include:

- West Virginia Department of Highways
- West Virginia Division of Natural Resources
- West Virginia Housing Development Fund
- Toyota Motor Manufacturing of WV
- Town of Buffalo, WV
- Town of Winfield, WV
- The Fergus Companies
- AB Contracting and Development Co.
- Ahern Associates, Inc.
- Woolpert, Inc.
- Rite Aid Corporation
- Triad Engineering
- Clark Truck Parts, Inc.
- Hobet Mining Company
- Edward Tucker Architects
- J. Dan Snead and Associates
- Peerless Brick and Block Company
- Foster Supply Company
- Putnam County Commission
- Central Distributing Company
- Dow Chemical Company
- Parkline, Inc.
- Teays River Construction Company
- Town of Bancroft
- Wiseman Construction Company
- Balanced Care Assisted Living Center
- Tri-State Hotels, Inc.
- Elkhorn Field Services, Inc.
- G&G Builders, Inc.
- Picerne Development Company
- Putnam P.S.D.
- City of Hurricane, WV

## **NOTABLE PROJECT EXPERIENCE**

The scope and size of our successful projects varies from small and simple to large and complex.

Some of the notable projects designed by Randolph Engineering include:

- Town of Buffalo Storm Water Outfall Project
- Toyota Motor Manufacturing Storm Water Analysis
- Poplar Fork Flood Mitigation Project
- Finney Branch Spillway Project
- Tackett's Branch Water Line Extension
- Morrison Hollow/Ranch Lake Estates Water Line Extension
- G&G/Massey Headquarters Sewer System
- Town of Bancroft Stormwater Improvements
- Hobet Mining Company Site and Warehouse Design
- City of Hurricane Raw Water Impoundment
- The Ridges Water & Sewer System Design
- Sahley Retaining Wall Replacement
- Red House Water Line Extension
- Eleanor Industrial Park Water Line Extension
- City of Hurricane Water Line Extension and Storage Tank
- Babcock State Park Wastewater Treatment Plant
- Pipestem State Park Wastewater Treatment Plant
- Sycamore Leachate Forcemain Line Project
- Sovine Road Water Line Extension Feasibility Study
- Tackett's Branch Sanitary Sewer Line Extension Feasibility Study
- Peach Ridge Sanitary Sewer Line Extension Feasibility Study
- Old Orchard Sanitary Sewer Line Extension Feasibility Study
- Castlenock Subdivision Sanitary Sewer & Water System Extension
- Milton Apartments Sanitary Sewer & Water System Extension
- Milton Nursing Home Sanitary Sewer & Water System Extension
- ZDS Design/Consulting – WV Capitol Survey
- Star Title Company – ALTA Surveys
- AEP/John Amos Flyash Waste Site Quality Control Survey
- Sheetz Inc. Retaining Wall
- Jackson's Mill Bridge over West Fork River
- Jodie Bridge over Gauley River
- West Pea Ridge Bridge over Interstate 64
- Massey Headquarters Site Development
- The Ridges Gated Community Subdivision
- Mountain State University Health Building Structural Design
- Little General Stores, Inc Headquarters Building Structural Design

Detailed descriptions for many of these projects can be found in Section 3 of this prospectus.

## PROJECT OUTLINE

Randolph Engineering is familiar with the type of project for which you are seeking professional engineering services. We have a thorough understanding of the work to be provided for this remediation project.

We have carefully reviewed your Request for Expressions of Interest have developed the following project outline:

### Existing Conditions

- Site is located 0.90 miles West of Lumberport, WV, immediately North of CR 20.
- The area has been both deep and surface mined.
- Acidic mine drainage is causing problems including hot spots and flooding to several properties.
- Prior attempts by homeowners to alleviate these problems have been unsuccessful.

## PROJECT UNDERSTANDING

Randolph Engineering will provide the necessary professional civil engineering and related services to plan and construct a drainage system to alleviate the mine drainage issues at this site.

- **Access Road**  
Provide design and construction plans for access to the site from CR 20 for construction equipment and personnel.
- **Drainage System**  
Provide design and construction plans for a drainage system that may consist of various underdrains and piping/manhole systems to convey the water past the affected homes to a safe discharge point.
- **Mine Seals**  
Provide details for the installation of at least three (3) wet mine seals.
- **Sediment and Erosion Control Plan**  
Provide plans and details for the control of construction related run-off.
- **Final Seeding and Mulching**  
Provide detailed information for the final seeding and re-vegetation of all areas disturbed during construction activities.



*One of three mine portals to be sealed.*



*Existing flat bench at former strip mine location.*



*Acidic mine drainage on former strip mine bench.*



*Hot spot resulting in killing of grass.*

## **TECHNICAL APPROACH**

### **Preliminary Plan Phase**

During this phase Randolph meet on site with WVDEP-AML&R personnel to set the project boundaries and scope of work for the project. Our survey personnel will survey the site for the development of topographic mapping and to establish project control and reference points. At this point we would provide a preliminary layout and design of the access road and drainage system for review and approval by WVDEP personnel.

### **Final Design Phase**

Once the preliminary plan is approved by WVDEP personnel, Randolph will proceed to final detailed construction plans and specifications. This will consist of a detailed plan view of the site, profile and cross sections of the access road, drainage system and mine seal details, sediment and erosion control plans as well as final seeding and mulching information.



### Bidding Phase

During this phase, if needed, Randolph will prepare the Bid Advertisement, conduct a Pre Bid Conference, prepare and issue any Addenda, conduct the Bid Opening, tabulate and distribute the Bid Tabulation, provide a recommendation for Award of Contract and complete the Notice of Award for the WVDEP.

### Construction Phase

During this phase, if needed, Randolph will provide Construction Administration services as required. This may include processing requests for payment, requests for information, conducting construction and/or progress meetings, construction monitoring, shop drawing review and project closeout.

## **RESOURCE ALLOCATION**

Randolph Engineering, as with all of our clients, is committed to providing professional engineering services to the state of West Virginia. We will commit the required staff, equipment and materials to accomplish the goals set forth for this project in a timely and cost effective manner. As stated in the RFP preliminary plans and documents will be submitted within 45 days of Notice to Proceed.

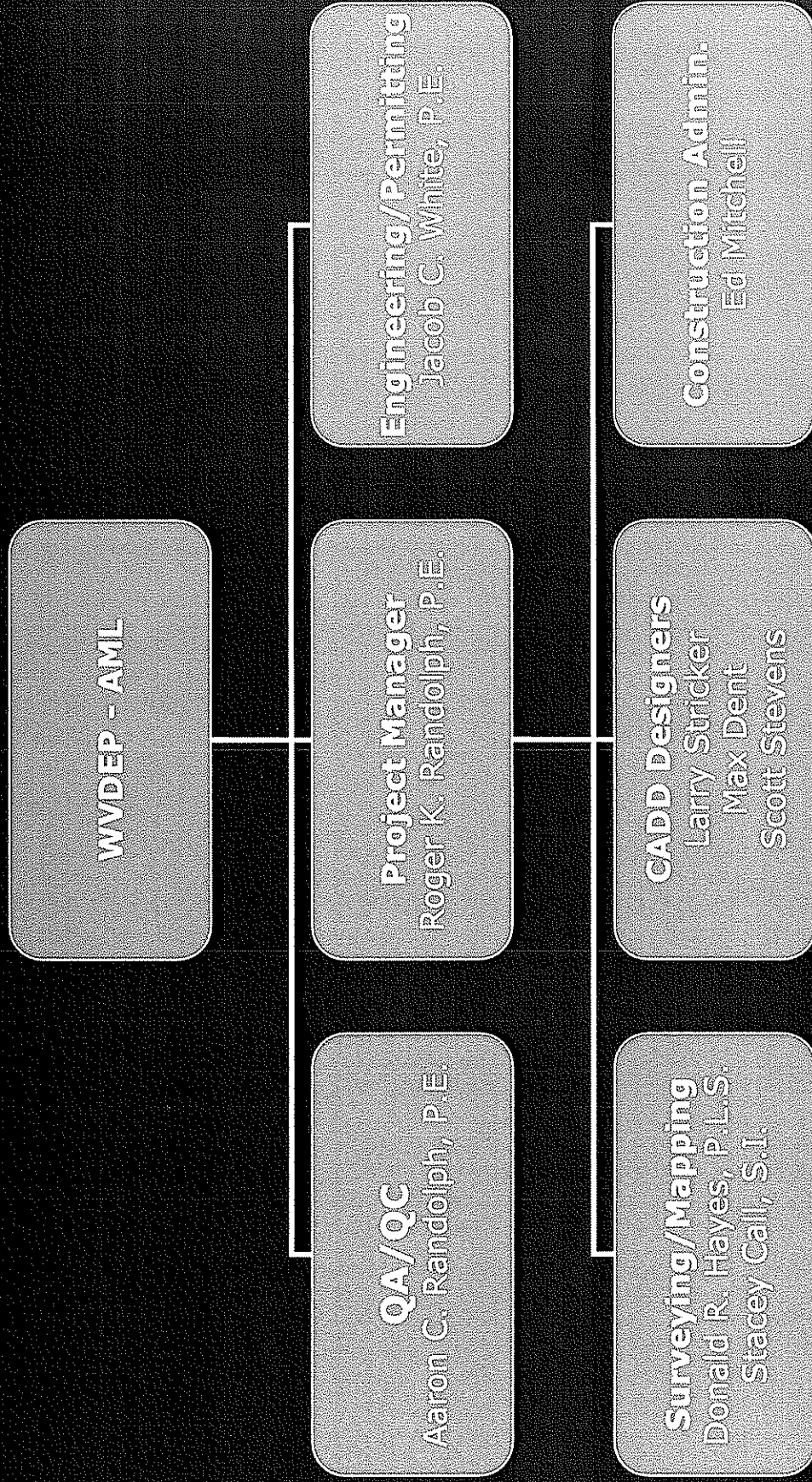
## **SCHEDULE AND BUDGET CONTROL**

We have a long history of completing projects within budget and time constraints. With a large client base of private and public clients, schedules, budgets and fees can quickly become make-or-break issues with regard to the feasibility of a project. Our project managers are experienced and well versed in meeting project schedules with budget constraints in mind. Additionally, Randolph Engineering is a West Virginia licensed contractor. This gives us a unique insight into potential economies within a project that may benefit our clients.

## **CLOSING**

We look forward to establishing a long term relationship with the WVDEP/AML beginning with the Cambria Mine Drainage Remediation project. Our commitment is to provide quality service, client satisfaction, quick response to your needs and to exceed your expectations with regard to project delivery. We look forward to further discussing our qualifications during the interview process.

# PROJECT TEAM



**section 3**

**REPRESENTATIVE PROJECTS**

# project

## Finney Branch Spillway

Kanawha County, West Virginia



### Client

Hatfield Enterprises, Inc.  
400 North Poplar Fork Road  
Hurricane, West Virginia 25526

### Contact

Mr. Robert Hatfield  
304.552.1782

### Nature of Work

Project included hydraulic analysis, channel design, spillway design, and permitting for an emergency spillway along Finney Branch in Dunbar, WV.

The project consisted of over 800' of channel design using the Army Corps of Engineers HEC-RAS stream modeling program. Scour and erosion countermeasures, designed and incorporated into the plans included rock rip-rap and various matting and vegetative linings. Regulatory agencies designated to oversee this project included the US Army Corp of Engineers and the West Virginia Department of Environmental Protection.

Surveying services included topographic field mapping for design purposes and construction layout.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Design Engineer – Jacob C. White, P.E.

# project

## Poplar Fork Storm Water Management

Putnam County, West Virginia



### Client

Putnam County Commission  
400 North Poplar Fork Road  
Hurricane, West Virginia 25526

### Contact

Mr. Gary Tillis  
304.586.0201

### Nature of Work

Project included hydraulic analysis, culvert design, channel design, permitting as well as construction administration and inspection for a storm water management project that focused on alleviating flooding along Poplar Fork and tributaries.

The project consisted of over 3300' of channel design, placement of numerous culverts under local roads as well as residential driveways. Scour and erosion countermeasures, designed and incorporated into the plans included rock rip-rap and grouted rip-rap. Regulatory agencies designated to oversee this project included the US Army Corp of Engineers and the West Virginia Department of Environmental Protection.

Surveying services included topographic field mapping for design purposes and construction layout.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designer – Donald R. Hayes, P.L.S.

# project

## Toyota of West Virginia – Storm Water Analysis

Putnam County, West Virginia



### Client

Toyota Motor Manufacturing, WV, Inc  
1 Sugar Maple Lane  
Buffalo, West Virginia 25033

### Contact

Mr. Lyndon Jones  
304.937.7299

### Nature of Work

The goal of this project was to develop a baseline storm water analysis that would encompass the developed areas of the site including various plant expansions to be used in planning future plant expansions.

Project included an overall hydraulic study and analysis of the existing storm water system at the plant to determine the capacity for future expansion of the plant. Additionally, the project included an as-built field survey of the existing system and through the use of various stand-alone expansion drawings developed of a master set of storm water drawings.

Upon completion of this phase the scope of the project was expanded to include the design for increasing the capacity of the existing storm water detention pond to accommodate future plant expansion. A new detention pond was designed adjacent to the existing pond and provided an additional 392,000 C.F. of storage.

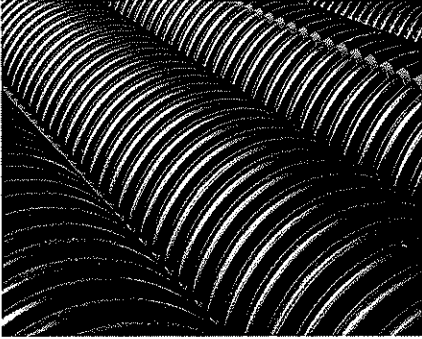
### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Design Engineer – Jacob C. White, P.E.

# project

## Town of Buffalo 60" Storm Water Outfall

Putnam County, West Virginia



### Client

Town of Buffalo  
Buffalo, West Virginia

### Contact

Mr. Kenneth Tucker, Mayor  
304.937.2041

### Nature of Work

The goal of this project was to develop a storm water outfall to the Kanawha River required by an expansion project for the Toyota Motor Manufacturing Plant.

Project included designing a 1600 L.F. storm water outfall consisting of 60" HDPE smooth wall pipe. The outfall included seven 8' diameter manhole junction boxes as well as a 60" diameter reinforced concrete pipe bored and jacked under WV Route 62. Additional features included a pre-cast headwall founded on helical anchors and 1400 S.F. of articulated concrete block erosion matting.

We performed a topographical survey to be used for design and provided construction stakeout and construction inspection services. Permitting requirements included an Archeological Study, WV DEP NPDES permit, and WVDOH Highway Encroachment permit.

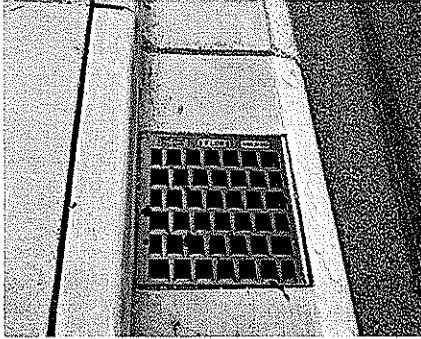
### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Design Engineer – Jacob C. White, P.E.

# project

## Town of Bancroft – Storm Water Management

Putnam County, West Virginia



### Client

Town of Bancroft  
P.O. Box 58  
Bancroft, West Virginia 25011

### Contact

Ms. Joyce Abbott, Mayor  
304.586.3559

### Nature of Work

Project included hydraulic analysis, culvert design, permitting as well as construction administration and inspection for an urban storm water management project that was designed utilizing an enclosed system of inlets and pipe culverts.

The project consisted of a system of pipe culverts and concrete inlets that were placed in and around various residence and business properties. The project was undertaken due to the health and safety hazards associated with standing water that, due to very flat terrain, would not drain naturally. Regulatory agencies designated to oversee this project included the West Virginia Department of Health and the West Virginia Department of Environmental Protection.

Surveying services included topographic field mapping for design purposes and construction layout.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designer – Donald R. Hayes, P.L.S.



# project

## Hydraulic Analysis – Dog Creek

Roane County, West Virginia



### Client

West Virginia Self Storage  
1677 Grannies Creek Road  
Newton, West Virginia 25266

### Contact

Mr. Rusty Reed  
304.746.2168

### Nature of Work

WV Self Storage Company contracted with Randolph Engineering to perform a hydraulic analysis of Dog Creek to determine the 100-year base flood elevation referenced as Zone A in the FEMA Flood Insurance Rate Map (FIRM).

Additionally, Randolph Engineering determined the effects of placing earth fill in the flood plain. Using the software program "HEC-RAS" (Hydraulic Engineering Center - River Analysis System) and traditional survey information, we were able to evaluate the stream and determine the water surface elevation of the stream. This information was then used to determine the impact of proposed site improvements on the flow characteristics of the stream.

Surveying services included topographic field mapping and hydraulic cross sections for analysis purposes.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Design Engineer – Jacob C. White, P.E.

# project

## Joe's Creek/Garretts Bend Water Extension

Lincoln County, West Virginia



### Client

Lincoln County P.S.D.  
240 Little Coal River Road  
Alum Creek, West Virginia 25003

### Contact

John Mottesheard  
304.756.2520

### Nature of Work

Project included the design and preparation of construction documents, specifications and construction administration services for a system upgrade that consisted of more than 5000 L.F. of 6" diameter water line and 1800 L.F. of 2" diameter water line as well as fire hydrants, valves, and service line installation.

Additional responsibilities included right-of-way easements and coordination with existing utility companies and various review, emergency and permitting agencies.

Surveying services included topographic field mapping for system design as well as construction stakeout.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designer – Stacey Call, S.I.

# project

## Vienna – Water System Model

Wood County, West Virginia



### Client

Woolpert Consultants  
St. Albans, West Virginia

### Contact

Mr. Paul Amburgey, P.E.  
304.722.1550

### Nature of Work

Project involved the engineering study and development of a Cybernet Water Model for the existing and proposed expansion of the water distribution system of the city of Vienna, West Virginia. Working as sub-consultant for a nationally recognized engineering firm, we developed a model for the existing system that included the Vienna Mall area to be used to further study impacts of proposed and future developments within the system and to bring the system back to pre-contamination levels of service.

The model encompassed an existing gravity system that dates to the 1930's consisting of 6 water storage tanks with a total of 1.6 million gallons of storage, 14 pump stations and 12 water wells as well as distribution lines serving 5500 customers.

Responsibilities included obtaining current water consumption rates, pressure data at key locations, verify piping network and determining water distribution operational characteristics.

The results were incorporated into the current expansion design and allowed the City to plan for future expansion to developing areas within the City.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.

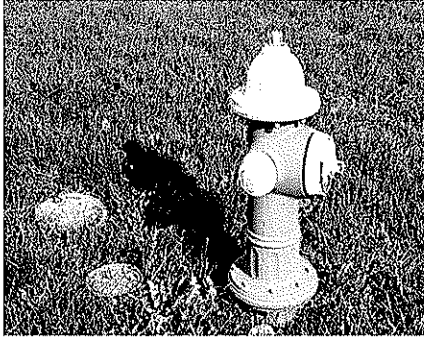


4414 Teays Valley Rd.  
Scott Depot, WV 25560  
p. 304.757.9217 f. 304.757.1029

# project

## Town of Buffalo Water Improvements

Putnam County, West Virginia



### Client

Town of Buffalo  
P.O. Box 307  
Buffalo, West Virginia 25033

### Contact

Mayor Kenneth Tucker  
304.937.2041

### Nature of Work

Randolph Engineering has a long standing relationship with the Town of Buffalo and has been responsible for various water distribution, tank design and rehabilitation as well as plant upgrade projects.

Some of the expansion and renovation design projects include the following:

- Design of a 250,000 gallon water storage tank.
- Design of clearwell tank and various building modifications.
- Design of miscellaneous piping renovations.
- Design of existing water storage tank repairs.
- Design of a 10,000 gallon backwash basin.

Responsibilities for these projects included design, surveying, development of contract drawings and construction specifications, bid evaluation, construction administration and construction inspection.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designer – Max Dent



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# project

## City of Hurricane Emergency Raw Water Storage

Putnam County, West Virginia



### Client

City of Hurricane  
3255 Teays Valley Road  
Hurricane, West Virginia 25526

### Contact

Mr. Ben Newhouse, City Manager  
304.562.5896

### Nature of Work

In an effort to keep up with the current and anticipated future growth, the City of Hurricane contracted with Randolph Engineering to study and recommend solutions to provide emergency raw water storage.

This project involved cost analysis, feasibility studies, preliminary design and regulatory agency coordination for alternatives to provide secondary raw water storage. Preliminary responsibilities included the study of multiple alternatives including buying water from another utility, utilizing storage tanks and the analysis of various sites for the development of a storage impoundment. The selected site required an archaeological evaluation as well as a wetland delineation study for the US Army Corp of Engineers. Final design will begin upon completion of the regulatory reviews.

Surveying services for these projects have included topographic field mapping for preliminary design purposes as well as horizontal and vertical control.

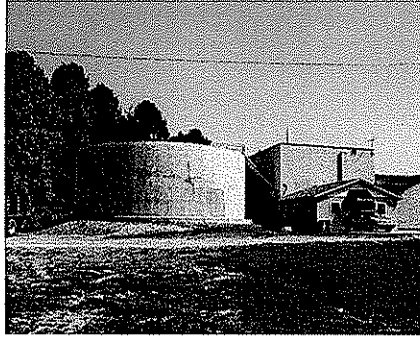
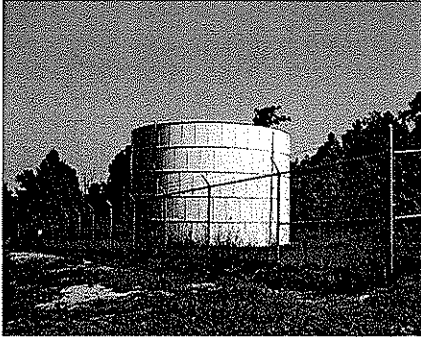
### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Design Engineer – Jacob C. White, P.E.

# project

## City of Hurricane Water System Upgrades

Putnam County, West Virginia



### Client

City of Hurricane  
3255 Teays Valley Road  
Hurricane, West Virginia 25526

### Contact

Mr. Ben Newhouse, City Manager  
304.562.5896

### Nature of Work

In an effort to keep up with the current and anticipated future growth, the City of Hurricane contracted with Randolph Engineering to provide renovation and upgrade design services for their existing water treatment plant and various system upgrades. This upgrade included an analysis of the existing facility building and foundations as well as the addition of a new lab, new filter and the development of both steel and concrete alternates for a new 50' diameter clarifier.

### Other plant and system upgrades have included:

- Design of various walkways and platforms as well as multiple piping configurations within the plant.
- Design, Surveying and Construction Administration services for system upgrades consisting of more than 17,000 L.F. of 12" diameter water line and 4,700 L.F. of 10" diameter water line as well as the design of a 1,000,000 gallon water storage tank including the foundations.
- Preliminary engineering study for the development of a new water storage impoundment and more than 6000' of raw water line.

Surveying services for these projects have included topographic field mapping for design purposes and construction layout.

Additional responsibilities involved the coordination with various review, permitting and funding agencies as well as elected officials and the general public.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designer – Max Dent

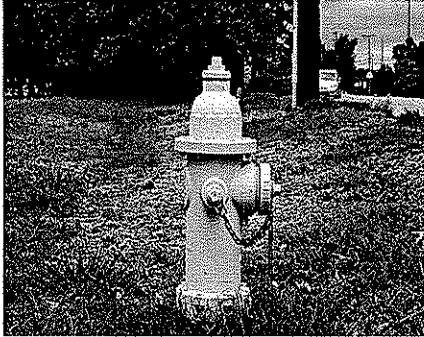


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# project

## Tackett's Branch Water Extension

Putnam County, West Virginia



### Client

City of Hurricane  
3255 Teays Valley Road  
Hurricane, West Virginia 25526

### Contact

Ben Newhouse, City Manager  
304.562.5896

### Nature of Work

Project included the design and preparation of construction documents, specifications and construction administration services for a system upgrade that consisted of more than 6000 L.F. of 6" diameter water line and 3000 L.F. of 2" diameter water line as well as fire hydrants, valves, and service line installation.

Additional responsibilities included right-of-way easements and coordination with existing utility companies and various review, emergency and permitting agencies.

Surveying services included topographic field mapping for system design as well as construction stakeout.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designer – Larry Stricker

# project

## Sovine Road Water System Extension

Putnam County, West Virginia



### Client

City of Hurricane  
3255 Teays Valley Road  
Hurricane, West Virginia 25526

### Contact

Mr. Ben Newhouse, City Manager  
304.562.5896

### Nature of Work

In an effort to keep up with the current and anticipated future growth and to assist with planning and funding sources, the City of Hurricane contracted with Randolph Engineering to provide preliminary design and cost estimates for a new waterline extension to serve 17 customers in the Sovine Road area of Putnam County.

### The planned system extension included:

- 3 miles of 6" waterline extension
- Service to 17 Homes
- 2- 35,000 gallon water storage tanks
- 12 Fire Hydrants
- 1- Pump Station

Preliminary engineering services included hydraulic analysis, tank site locations line layout and cost estimates.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designer – Stacy Call, S.I.



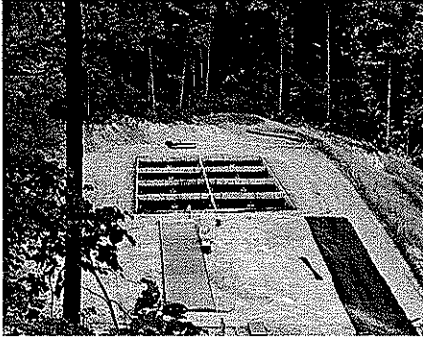
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# project

## West Virginia Division of Natural Resources

Babcock and Pipestem State Parks



### Client

WVDNR  
1900 Kanawha Boulevard East  
Building 3  
Charleston, West Virginia 25305

### Contact

Mr. Brian Carney, P.E.  
304.558.9125

### Nature of Work

Outdated systems and escalating maintenance costs led the West Virginia Division of Natural Resources to contract with Randolph Engineering for the design of 3 new packaged treatment plants at two of West Virginia's state parks.

The project scope included the design of the following systems:

- 1000 GPD Puraflo Peat Biofilter System for Babcock State Park Administration Building
- 10,000 GDP ASHCO RSF System for Babcock State Park Campground
- 10,000 GPD Economy Tank System for Pipestem State Park

Additional services included preliminary engineering studies, field surveying, mapping, control survey and construction inspection.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designer – Stacey Call, S.I.

# project

## Sycamore Landfill

Putnam County, West Virginia



### Client

City of Hurricane  
3255 Teays Valley Road  
Hurricane, West Virginia 25526

### Contact

Mr. Ben Newhouse, City Manager  
304.562.5896

### Nature of Work

The City of Hurricane in conjunction with Sycamore Landfill contracted with Randolph Engineering to design a leachate line from the landfill to the City's wastewater treatment plant located adjacent to Interstate 64 in Putnam County, West Virginia.

The project scope included line routing and location, route surveying, lift station design, cost estimating, right-of-way easements and construction administration for a 2 mile route along state highways and through private properties.

Additional responsibilities involved the coordination with various review and funding agencies as well as elected officials and the general public.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designers – Donald R. Hayes, P.L.S. & Stacey Call

# project

## Emergency Housing Site Development & Utilities

McDowell County, West Virginia

### Client

WV Housing Development Fund  
814 Virginia Street East  
Charleston, West Virginia 25301

### Contact

Mr. Howard Tyree  
304.345.6475

### Nature of Work

#### Premier Park Temporary Housing Park

Responsible for the design of a new 130 unit manufactured housing park that included two (2) 15,000 Gallon Per Day extended aeration package treatment plants with aerated sludge holding basins and tablet type chlorinators in McDowell County, WV. The project also included 6700 L.F. of 8" sanitary line as well as a water distribution system consisting of one (1) 60 G.P.M. duplex booster pump station, 6000 L.F. of 8" water line and two (2) 30,000 gallon storage tanks. The project was undertaken on a fast track schedule to accommodate the temporary relocation of flood victims.

Surveying services included topographic mapping, and construction stakeout.

#### Tom's Mountain Temporary Housing

Responsible for the design of a new mobile home park that included two (2) 15,000 Gallon Per Day extended aeration package treatment plants in McDowell County, WV. The project was undertaken on a fast track schedule to accommodate the relocation of flood victims.

Surveying services included topographic mapping, and construction stakeout.

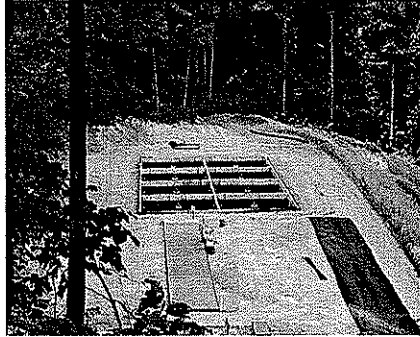
### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designers – Donald R. Hayes, P.L.S., Max Dent

# project

## The Ridges – Sanitary Sewer

Kanawha County, West Virginia



### Client

AB Contracting & Development Company  
5521 Ohio River Road  
Point Pleasant, West Virginia 25550

### Contact

Mr. Allen Bell  
304.546.5955

### Nature of Work

The project involved the study, design and preparation of contract documents for a 194 unit gated community to be constructed on a 152 acre parcel.

Utility design included 3 miles of sanitary force main and 2.3 miles of gravity sewer lines as well as twin 45,000 GPD packaged treatment plants. The project required two wet well pump stations and an eight chamber, 4300 square foot sand filter.

Additional design responsibilities included plant site design and obtaining all permits including N.P.D.E.S. permitting for the site work as well as WV Health Department and Kanawha County Planning Commission permits.

Surveying services included topographic mapping for design purposes, survey plat development and construction stakeout.

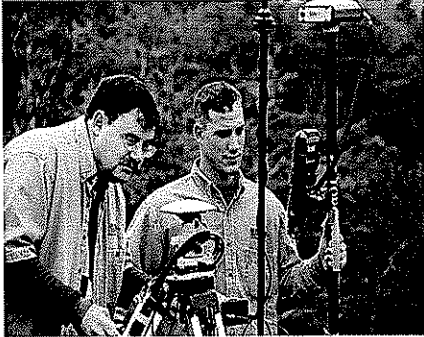
### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designer – Donald R. Hayes, P.L.S.

# project

## ALTA Surveys – Buckeye Hope Foundation

Various Locations, West Virginia



### Client

Star Title Agency, LLC  
229 Huber Village Blvd., Suite 130  
Westerville, Ohio 43081

### Contact

Mr. Jim Saad  
614.396.3296

### Nature of Work

Star Title Agency contracted with Randolph Engineering to provide property research, field surveying and the development of detailed property maps and as-built drawings for ten specific apartment complex sites located in various counties in central West Virginia. These multi-family residential housing complexes ranged from 2 acres to 9 acres. Our scope of work included locating all improvements to the site including buildings, parking areas, sidewalks, utilities and recreational facilities.

### Key Personnel

Project Manager – Donald R. Hayes, P.L.S.

# project

## Capitol Complex As-Built Survey

Kanawha County, West Virginia



### Client

ZDS Design/Consulting Services, Inc  
91 Smiley Drive  
St. Albans, West Virginia 25177

### Contact

Mr. Todd A. Zachwieja, P.E.  
304.755.0075

### Nature of Work

ZDS contracted with Randolph Engineering to provide as-built field surveys, verify contour mapping, provide finished floor elevations for the basements and first floors and develop detailed maps for a storm water improvement project within the Capitol Complex campus in Charleston.

Our scope of work included locating all improvements in the vicinity of Buildings 1, 3, 4, 5, and 7 including building footprints, sidewalks, utilities as well as trees, architectural features and monuments.

### Key Personnel

Project Manager – Donald R. Hayes, P.L.S.

# project

## Equitable Gathering, Inc. – Dwale Compressor Station

Floyd County, Kentucky



### Client

Augusta Engineering & Design, Inc.  
318-24 Fourth Avenue  
Plaza IV Building  
South Charleston, West Virginia 25303

### Contact

Mr. Nile L. Fisher, Jr., P.E.  
304.744.9000

### Nature of Work

Project included analysis of the Levisa Fork River in Floyd County, Kentucky to determine the impact of a construction project at the Dwale Compressor Station for Equitable Gathering, Inc on the Base Flood Elevation as determined by FEMA.

The project consisted of a river survey at specified cross section locations, analysis of proposed project plans, incorporation of all data into a hydraulic river modeling program, determination of impact to the flood plain, preparation of permit applications for FEMA and the State of Kentucky, and review of final project plans for compliance with modeling results.

Surveying services included topographic stream mapping for design purposes.

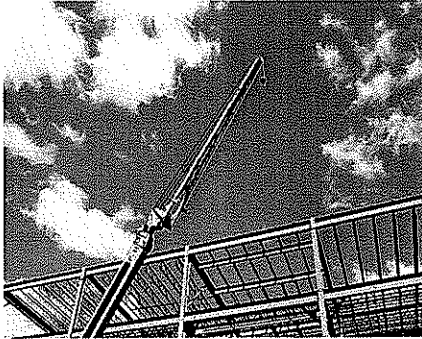
### Key Personnel

Project Manager – Jacob C. White, P.E.

# project

## Hobet Mining Office and Maintenance Complex

Logan County, West Virginia



### Client

Hobet Mining, Inc.  
P.O. Box 305  
Madison, West Virginia, 25130

### Contact

Mr. Bob Euler  
304.369.6780

### Nature of Work

This project involved the design and construction of a 31,660 square foot office and maintenance building for Hobet Mining on an accelerated schedule. The project was undertaken on the Design-Build method of delivery.

The interior of the structure was zoned into three primary areas. The maintenance shop area utilizes 16,300 square feet with two 40 ton bridge cranes required to service massive earthmoving equipment, the warehouse area utilizes 10,800 square feet, and the office area utilizes 4,560 square feet.

The building structure consists of a 31,660 square foot manufactured metal building structure is founded on raft foundations. Design responsibilities included foundation and slab design, maintenance facility and office layout, mechanical, and electrical.

The schedule mandated by the client allowed 9 months for design and project construction with foundation construction beginning in the month of November.

### Key Personnel

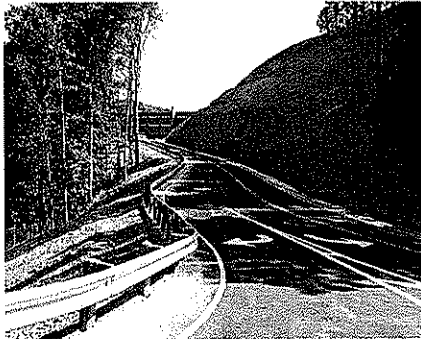
Project Manager – Roger K. Randolph, P.E.  
Designers – Max Dent and Don Hayes, P.L.S.



# project

## G&G Builders, Inc. – Massey Headquarters Site

Boone County, West Virginia



### Client

G&G Builders, Inc.  
500 Corporate Centre Drive  
Scott Depot, West Virginia 25560

### Contact

Mr. Gary Young  
President  
304.757.9196

### Nature of Work

This project involved the study, design and preparation of contract plans and related documents for the construction of a new corporate headquarter office complex located along US Route 119 in Boone County, West Virginia.

The project scope included the design of an approximately 4 acre site that overlooks US Route 119 in Boone County and included preliminary and final grading plans, storm water design including detention, utility design within the site as well as a package treatment plant and forcemain effluent discharge line. Additional responsibilities included the design of a new entrance and turn lane on US Route 119 and an access road into and through the site. The site design included final paving and parking design, a helipad, decorative pond with fountain, security bollard system, walking track and secondary service road design.

Surveying services included additional mapping control and construction layout.

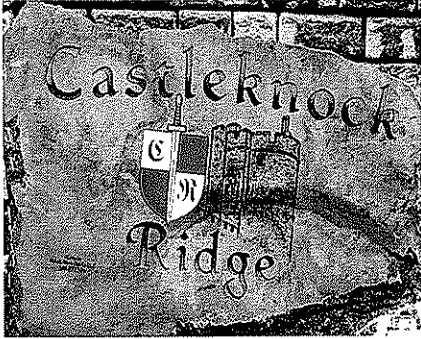
### Key Personnel

Project Manager – Jacob C. White, P.E.

# project

## Castlenock Ridge Subdivision

Putnam County, West Virginia



### Client

DARR Incorporated  
4414 Teays Valley Road  
Scott Depot, West Virginia, 25560

### Contact

Mr. Ron Hayes  
304.768.8450

### Nature of Work

The project involved the study, design and preparation of contract documents for a 214 lot subdivision to be constructed on a 142 acre parcel located in Teays Valley, West Virginia.

Site design responsibilities included subdivision lot layout, grading, interior roadway design, pavement design, as well as the design of the storm water system including detention. Utility design included water distribution, sanitary sewer design and coordination with local electric, telephone and gas companies.

Additional design responsibilities included obtaining all permits including N.P.D.E.S. permitting for the site work as well U.S. Army Corp of Engineer permits and WV Health Department and Putnam County Planning Commission permits.

Surveying services included topographic mapping for design purposes, survey plat development and construction stakeout.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designer – Donald R. Hayes, P.L.S.

# project

## The Ridges at Rabel Subdivision

Kanawha County, West Virginia



### Client

AB Contracting, Inc.  
5521 Ohio River Road  
Point Pleasant, West Virginia, 25550

### Contact

Mr. Allen Bell  
304.546.5955

### Nature of Work

This Design-Build project involved the study, design and preparation of contract documents for a 194 unit gated community to be constructed on a 152 acre parcel.

Site design responsibilities included subdivision lot layout, grading, interior roadway design, pavement design, well as the design of the storm water system and approximately one-half mile of two-lane access road. Included in the access road design included the design of a prefabricated two-lane arch structure to span Alum Creek.

Utility design included 3 miles of sanitary force main and 2.3 miles of gravity sewer lines as well as twin 45,000 GPD packaged treatment plants. The water system consisted of 2.4 miles of 8", 6" and 2" water lines including a pump station and a 110,000 gal storage tank.

Additional design responsibilities included obtaining all permits including N.P.D.E.S. permitting for the site work as well U.S. Army Corp of Engineer permitting of the creek crossing and WV Health Department and Kanawha County Planning Commission permits.

Surveying services included horizontal and vertical control, topographic mapping for design purposes, survey plat development and construction stakeout.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Design Engineer – Jacob C. White, P.E.  
Designer – Donald R. Hayes, P.L.S.

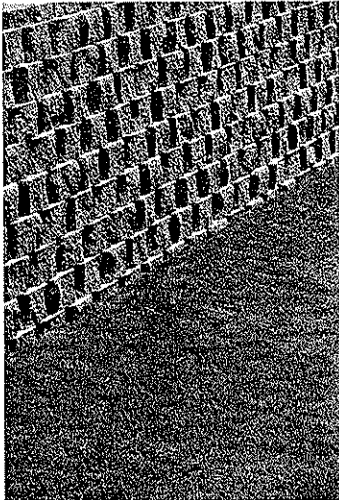


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# project

## I-64 Dunbar-South Charleston Bridge Retaining Wall

Kanawha County, West Virginia



### Client

Peerless Brick & Block Company  
400 Oliver Street  
St. Albans, West Virginia 25177

### Contact

Mr. Kevin Roberts  
800.642.3054

### Nature of Work

Project included structural design of a modular block retaining wall as part of a value engineering plan to replace the Mechanically Stabilized Earth retaining wall that was designed to minimize the grading footprint and to support the east abutment for the new Interstate 64 Dunbar-South Charleston Bridge spanning the Kanawha River. This signature bridge is an 8 span, concrete box girder bridge with a national record 760' center span that was constructed utilizing the balanced cantilever method.

Working closely with the contractor and the wall supplier we developed a wall design that met aesthetic requirements, was cost effective and easily constructible. The wall was 200 feet in length and totaled more than 2300 square feet.

### Key Personnel

Project Manager – Aaron C. Randolph, P.E.  
Design Engineer – Aaron C. Randolph, P.E

### Estimated Construction Cost

\$127,000.00

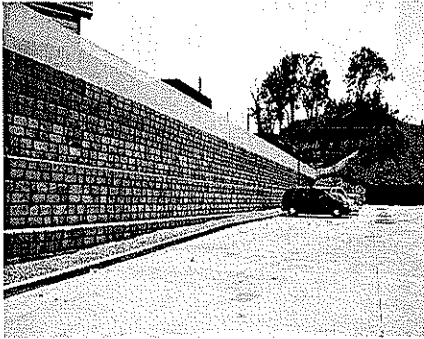


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Scott Depot, WV 25560  
p. 304.757.9217 f. 304.757.1029

# project

## Sheetz, Inc. Convenience Store Retaining Wall

Cabell County, West Virginia



### Client

Sheetz, Inc  
351 Sheetz Way  
Claysburg, PA 16625

### Contact

Mr. Max Rodland  
814.239.6017

### Nature of Work

Project included structural design of a modular block retaining wall utilizing the "Redi-Rock" Wall System. The wall was required to maximize the footprint of a new store location with restrictive property boundaries located along Interstate 64 in Cabell County, WV. The wall has a maximum height of 15' and is 196' in length with a total square footage of 2200 SF. An adjacent building posed a unique challenge for this project in that there was limited space for geo-grid reinforcement behind the wall. We designed the wall as an un-reinforced gravity wall using a terraced set back along the entire length to meet this requirement.

Working closely with the contractor and the wall supplier we developed a wall design that met aesthetic requirements, property boundary limitations and was cost effective and easily constructible.

### Key Personnel

Project Manager – Aaron C. Randolph, P.E.

### Estimated Construction Cost

\$121,000.00

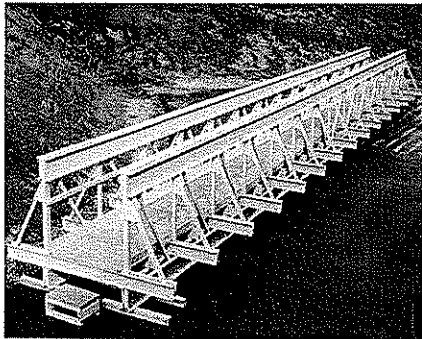


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# project

## Bio-Basin Elevated Platforms

Kanawha County, West Virginia



### Client

GEF Incorporated  
1721 Winfield Road  
Winfield, West Virginia, 25213

### Contact

Mr. Steve Foster  
304.755.1600

### Nature of Work

GEF Incorporated contracted with Randolph Engineering to design 5 walkway bridges and 3 conduit bridges to replace existing bio-basin walkway bridges in the Rhone - Poulenc AG Company Institute Plant.

The walkway bridges were designed as fiberglass trusses with a fiberglass grating floor system with spans ranging from 42' to 62'. Pulltruded FRP structural shapes were utilized for the design of the truss, stringers, handrail, and toe plates.

The walkway bridges were designed for a floor live load of 100 psf over the total area of the bridge with a 2,000 lb concentrated load placed for maximum member stress. The conduit bridges were designed for a floor live load of 40 psf over the total area of the bridge with a 200 lb concentrated load placed in the center of the bridge.

### Key Personnel

Project Manager – Roger K. Randolph, P.E.  
Designer – Max Dent

**section 4**

**PERSONNEL RESUMES**

# résumé



**Jacob C. White, P.E.**

**Design Engineer/Project Manager**

## **Experience and Qualifications:**

Jacob is an experienced civil engineer with a focus on land development, stormwater management and hydraulic analysis with state and local municipalities as well as private developers in West Virginia and Virginia. His experience ranges from residential, commercial and industrial site development projects to hydraulic floodplain analysis and stormwater detention projects. He is responsible for engineering, hydraulic analysis and permitting for all land development stormwater management projects.

His primary responsibilities include:

- Project Management
- Hydraulic Analysis
- Stormwater Management
- Land Development Engineering
- Permitting

## **Representative Project Experience:**

- Massey Coal Services Headquarters Site & Stormwater Management
- WV Self Storage – Dog Creek Hydraulic Analysis
- Augusta Engineering – Equitable Gathering Floodplain Study
- Hurricane Raw Water Impoundment Analysis & Permitting
- Blennerhassett Island Bridge over Ohio River – Hydraulic Analysis
- Elkhorn Field Services Natural Gas Production Site and Permitting
- Castlenock Ridge Subdivision Storm Water Management
- FedEx Distribution Center Storm Water Management
- Toyota Motor Manufacturing of WV – Storm Water Analysis
- Kanawha Valley Fine Jewelry Site and Permitting Design
- Upton Construction Company – Mobile Home Park Site and Permitting Design
- Copart, Inc. Hurricane Facility Site and Permitting Design
- The Ridges Subdivision Stormwater Management and Permitting
- Alum Creek Bridge Hydraulic Analysis
- Strange Creek Bridge – Hydraulic Analysis
- Montcalm Arch Bridge – Hydraulic Analysis
- Jefferson Avenue Bridge – Hydraulic Analysis
- Buffalo 60" Stormwater Outfall Design and Analysis

## **Education:**

B.S.C.E., West Virginia Institute of Technology, 1997

## **Registration:**

P.E. – West Virginia, Virginia

## **Professional Societies:**

American Society of Civil Engineers





# résumé



**Roger K. Randolph, P.E., P.L.S.**

**Design Engineer/Project Manager**

## **Experience and Qualifications:**

Roger is an accomplished design engineer with more than 40 years of experience for a variety of civil, municipal, land development, structural and construction projects. His versatility, experience and wealth of knowledge provide valuable insight into possible pitfalls that may affect the success of any project. He is responsible for project management and design as well as leadership and mentoring of younger engineers on many projects in a range of disciplines.

His primary responsibilities include:

- Project Management
- Land Development Engineering
- Stormwater Management
- Municipal Engineering

## **Representative Project Experience:**

- Finney Branch Spillway Design and Analysis
- Buffalo 60" Stormwater Outfall
- Bancroft Stormwater Management
- City of Hurricane Water Impoundment Analysis
- Sycamore Landfill Leachate Line Design
- Poplar Fork Stormwater Analysis and Flood Mitigation
- City of Hurricane Wastewater Treatment Plant Upgrade
- City of Hurricane Water Treatment Plant Upgrades
- Massey Coal Services Headquarters Wastewater Treatment Plant
- City of Vienna, WV Water Distribution System Modeling
- City of Eleanor, WV Industrial Park Site and Stormwater Design
- Hobet Mining Warehouse Facility Building and Site Design
- Putnam County Commission Water System Upgrades
- Tackett's Branch Water Line Extension
- City of Hurricane Water System Upgrades
- Town of Buffalo Water System Upgrades
- Putnam P.S.D. Morrison Hollow Water Extension

## **Education:**

B.S.C.E., Ohio University, 1967

## **Registration:**

P.E. – West Virginia, OH, KY, IN & IL  
P.L.S. – West Virginia

## **Professional Societies:**

American Society of Civil Engineers  
National Society of Professional Engineers



# résumé



**Aaron C. Randolph, P.E.**

Design Engineer/Project Manager

## Experience and Qualifications:

Aaron is an experienced civil engineer with a focus on structural and construction engineering projects for private developers as well as local construction companies. His experience has encompassed various retaining wall solutions, stormwater drainage structures, foundation design and construction value engineering. He is responsible for all structure and construction projects for Randolph Engineering.

His primary responsibilities include:

- Project Management
- Structural Engineering and Inspection
- Construction Engineering

## Representative Project Experience:

- Teays River Construction Company – Construction Engineering/Value Engineering
- Ahern and Associates – Construction/Value Engineering
- Marshall University Retaining Walls
- Peerless Brick and Block Company – Retaining Walls
- Tri-State Hotels – Holiday Inn Express Retaining Walls
- Sheetz, Inc. Retaining Wall
- Sahley Retaining Wall
- Jodie Bridge Retaining Wall
- Massey Energy Headquarters Retaining Walls
- Martha Bridge Pile and Lagging Retaining Wall
- Culloden Bridge Retaining Walls
- US Route 119 Reinforced Concrete Box Culvert Designs
- US Route 60 – Reinforced Concrete Box Culvert Design
- US 35/Winfield Road Reinforced Concrete Box Culvert Extension
- WVDOT District 2 Maintenance Facility Structural and Foundations
- Pathways Office Building Structural and Foundations – KY
- Toyota Motor Manufacturing of WV – Building and Foundations
- FedEx Distribution Facility Structural and Foundations
- Berkeley County P.S.D. Wastewater Treatment Plant Structural Design
- Vinton Ohio Wastewater Treatment Plant Structural Design

## Education:

B.S.C.E., West Virginia Institute of Technology, 1992

## Registration:

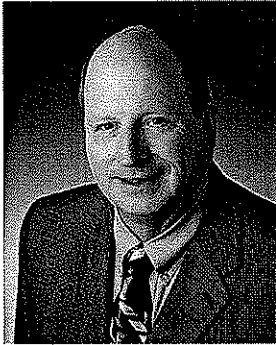
P.E. – West Virginia

## Professional Societies:

American Society of Civil Engineers



# résumé



**Donald R. Hayes, P.L.S**

**Surveyor/Project Manager**

## **Experience and Qualifications:**

Don is an experienced land surveyor with a focus on land development and municipal projects with local communities as well as private developers in West Virginia. His experience ranges from property surveys to residential, commercial and industrial site and utility design. He is responsible for the management of our surveying department as well as various development projects.

His primary responsibilities include:

- Project Management
- Surveying
- Land Development
- Construction Administration & Observation

## **Representative Project Experience:**

- Castlenock Ridge Subdivision Design & Administration
- The Ridges Gated Community Design
- Toyota Engine Plant Facility Storm Water As-Built Survey
- Putnam County Parks & Recreation – Valley Park Expansion
- Bloomingdale Subdivision Design
- Pray Construction – McJunkin Warehouse Expansion Site Design
- City of Hurricane – Tackett's Branch Sewer Line Extension
- Massey Coal Services Headquarters Site Surveying
- Sable Point Townhouse Complex Site Design
- Rite Aid Corporation Site Designs (40)
- Westover Estates Subdivision Site Design
- Buckeye Community Hope Foundation ALTA Surveys (10)
- Standard Foods Facility Site Design
- Liberty Square Site Surveys and Permitting
- Cartee Land Development Company Site Design
- Dismas Charities, Inc Site Design
- WV Capitol Complex As-Built Survey
- Glen Oaks Subdivision Design
- Tri-State Hotels – Holiday Inn Express Site Design

## **Education:**

A.S. West Virginia Institute of Technology, 1971

## **Registration:**

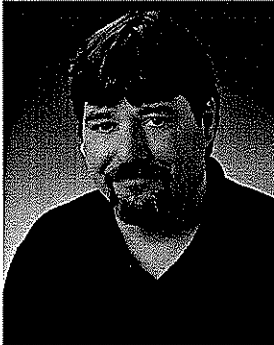
P.L.S. – West Virginia

## **Professional Societies:**

West Virginia Society of Land Surveyors



# résumé



**Stacey H. Call, S.I.T.**

**Sr. Survey Technician**

## **Experience and Qualifications:**

Stacey is an experienced survey technician and designer for various civil engineering projects. His experience has encompassed site development and municipal design as well as boundary surveys and construction stakeout. He is responsible for site layout, coordinating field crews, data reduction and mapping generation for all design projects.

His primary responsibilities include:

- Survey Coordination
- Topographic Mapping
- Site Development
- Construction Stakeout

## **Representative Project Experience:**

- Eagleview Subdivision Design
- Sovine Road Water Line Extension
- WVDNR – Babcock & Pipestem Wastewater Treatment Plants
- AEP- John Amos Flyash Waste Site Survey Control
- Sycamore Landfill Leachate Line Design
- City of Hurricane Raw Water Impoundment Mapping
- The Ridges Residential Development Phase II Mapping & Design
- Emerald Fields Subdivision Design
- Buckeye Community Hope Foundation ALTA Surveys (10)
- Friendship Way Subdivision Design
- Massey Coal Services Headquarters Construction Stakeout
- Wood Ridge Estates Subdivision Design
- Woods & Irons Subdivision Design
- Mill Creek Subdivision Design
- Autozone Store Site Designs (2)
- Yeager Airport Surveys and Construction Layout
- Wendy's Restaurant Site Design
- WVDOH - Coalfields Expressway Construction Stakeout
- WVDOH - Corridor D Highway Construction Stakeout
- WVDOH - WV Route 10 Construction Stakeout
- Tri-State Hotels - Holliday Inn Express Site Design

## **Education:**

Hurricane High School, 1987

## **Registration:**

S.I.T. – West Virginia

# résumé



**Ed Mitchell**

**Sr. Construction Manager**

## **Experience and Qualifications:**

Ed has over 16 years experience in managing and administering water, sewer and private construction projects through out the state of West Virginia. Ed has had extensive knowledge and exposure to all facets of the construction industry with hands on experience in planning, cost management and inspection of numerous public and private infrastructure projects. He is responsible for project and construction administration as well as managing the inspection of infrastructure projects for Randolph Engineering.

His primary responsibilities include:

- Construction Administration
- Construction Monitoring
- Project Management

## **Representative Project Experience:**

- Kopperston PSD Waterline Extension Project
- City of Glenville Pump Stations Upgrade
- City of Vienna Water Upgrade
- Town of Wayne Water Improvement Project
- City of White Sulphur Springs Water Upgrade
- Town of Pineville Waterline Extension Project
- Town of Fairview Water System Improvement and Extension
- Fountain PSD Water System Improvement and Extension
- Berkeley County PSD – North End Sewer Improvement Project
- City of Mullens Wastewater Improvement Project
- City of Mt. Hope Wastewater Improvement Project
- City of White Sulphur Springs Sewer Upgrade
- Town of Gilbert Wastewater Improvement Project
- Town of Fayetteville Wastewater Improvement Project
- Huntington Sanitary Board (SCADA) Project
- Yeager Airport – WVANG
- City of Vinton, Ohio Sewer Line Extension
- Town of Kermit Wastewater Improvement Project
- Cannan Valley State Park Pump Stations Improvement

## **Education:**

B.S., West Virginia State College, 1980

## **Certifications:**

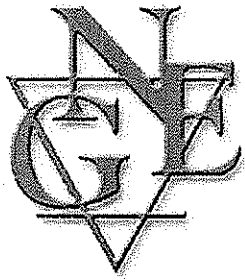
UCC Craft Training Courses (3-years)  
ASME Welding Code

## **Continuing Education:**

Primavera Cost/Scheduling Classes

**section 5**

**SUB-CONSULTANT  
(Novel Geo-Environmental, PLLC)**



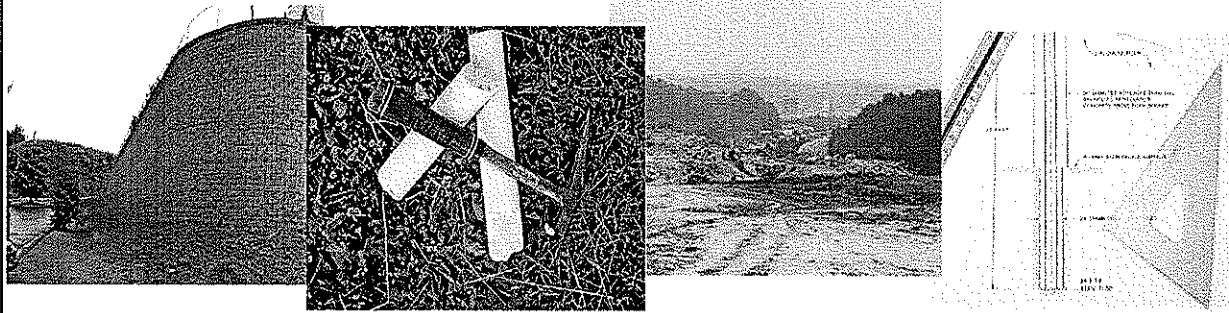
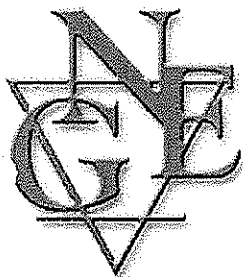
# Novel Geo-Environmental, PLLC

St. Albans, West Virginia

*Exceptional staff.*

*Exceptional results.*

*Allow us to show what we can do for you.*



## Company Overview

Novel Geo-Environmental, PLLC (NGE) is a full-service geotechnical and environmental engineering firm with offices located in St. Albans, West Virginia, and Pittsburgh, Pennsylvania. Led by an experienced management team, NGE provides quality geotechnical services to a variety of clients in both the private industry and government sectors.

In business since 2002, NGE is one of the fastest growing engineering consulting firms in the country.

### **Who is NGE?**

Our staff includes professional engineers, geologists, scientists, construction managers, and foremen with experience in a broad range of technical disciplines. Our management team averages 15+ years of experience per person

### **Why NGE?**

NGE is large enough to fulfill the needs of our client in-house, yet small enough to provide the personal focus each client deserves. With smaller overhead than larger companies, NGE can provide exceptional services at lower cost.

NGE is a Certified Disadvantaged Business Enterprise (DBE) in West Virginia, Pennsylvania, Ohio, Maryland, and New Jersey and is certified by the Small Business Administration as an 8(a) Small Disadvantaged Business.

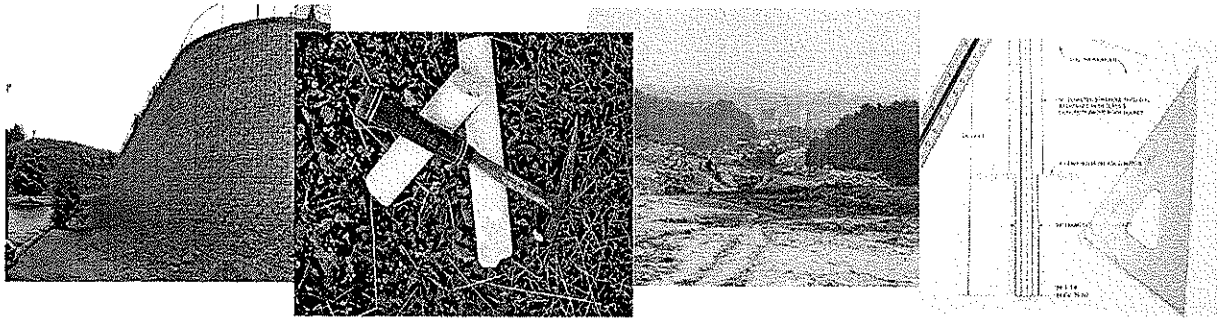
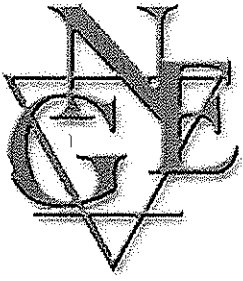
### West Virginia Office

806 B Street  
St. Albans, WV 25177  
(304) 201-5180  
(304) 201-5182 (fax)  
Contact: John E. Nottingham, P.E.  
[jnottingham@novel-ge.com](mailto:jnottingham@novel-ge.com)

### Pennsylvania Office

100 Commercial Street, Suite 101  
Bridgeville, PA 15017  
(412) 838-0115  
(412) 838-0120 (fax)  
Contact: Amy L. Veltri, P.E.  
[aveltri@novel-ge.com](mailto:aveltri@novel-ge.com)

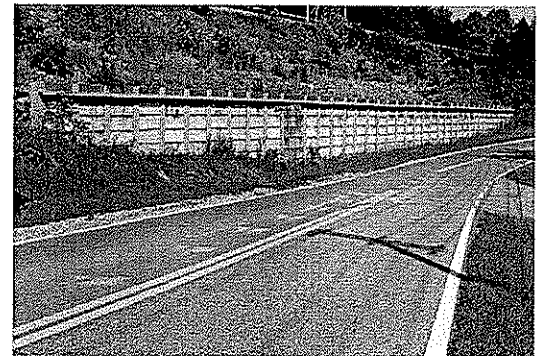
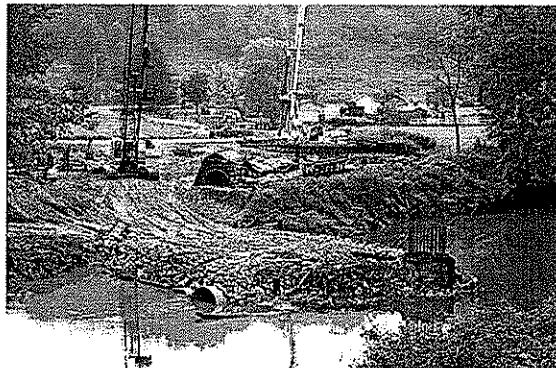


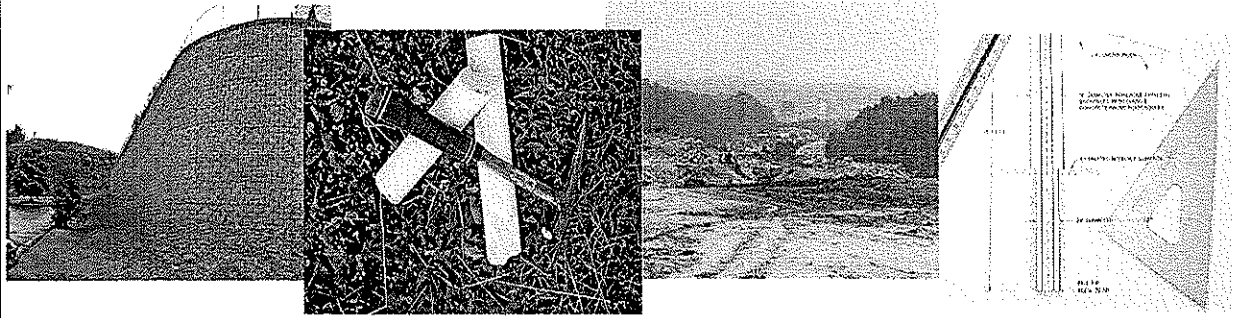
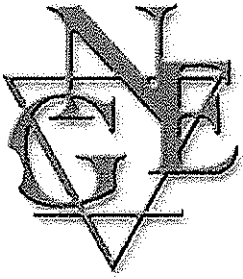


## *Geotechnical Engineering*

The natural complexity and variability present in the subsurface requires a specialized expertise to ensure reliable results. NGE investigates and evaluates subsurface soil, rock, and groundwater conditions to analyze their response to the needs of a given project, whether they be foundation loads, site grading operations/slope configuration, or retaining wall design. A sampling of the geotechnical services NGE provides includes the following:

- Foundation investigations - commercial/residential construction, WVDOH bridge and roadway, airport geotechnical design, public and private utilities (water storage tanks, communications towers, etc.)
- Landslide investigations/remediation - slope design, retaining wall design
- Forensic Engineering/Insurance investigations
- Mine subsidence investigations/ground stabilization
- Dam design/rehabilitation
- Pavement analysis and design
- Groundwater seepage analysis and design





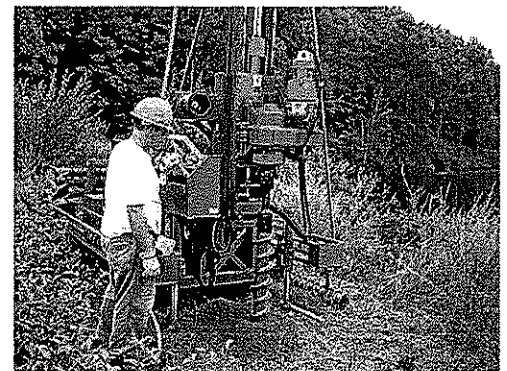
## Drilling Services

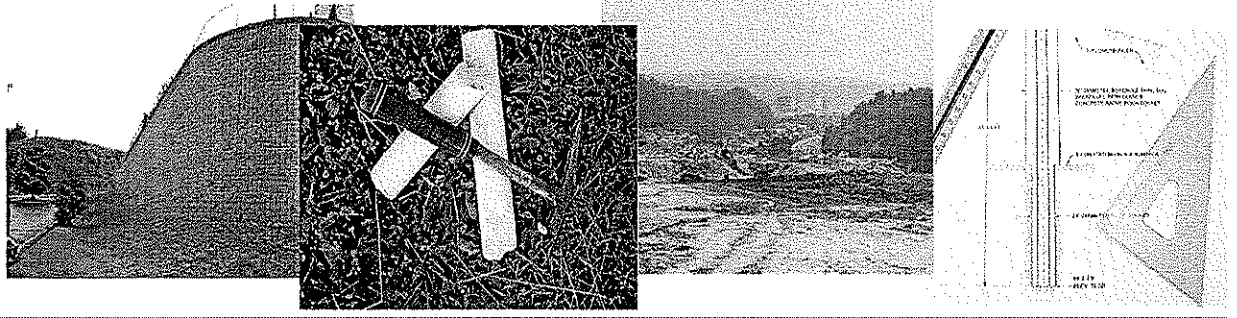
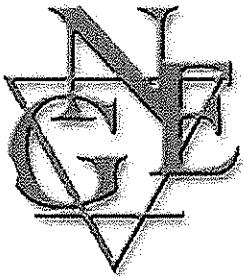
NGE is equipped with a variety of versatile drilling equipment to meet the demands of our clients even in the most demanding of environments. This includes:

- Truck-mounted rotary drill rig equipped with hollow stem augers used primarily for Standard Penetration Testing (SPT). It can also be used for conventional rock coring.
- Custom manufactured state-of-the-art track-mounted rotary drill rig, also equipped with hollow stem augers for SPT sampling. This machine is also equipped for wire-line coring and is uniquely designed to access hard-to-reach areas (such as rugged terrain or limited access) with a minimum of disturbance.
- Portable Tri-Pod drill able to perform SPT sampling in areas that are inaccessible to conventional drilling equipment.
- Dynamic Cone Penetrometer - portable device designed to provide comparable SPT "N-values" in areas with very limited access



NGE also provides monitoring well installation services that meet the requirements for the State of West Virginia Certified Monitoring Well Driller program.

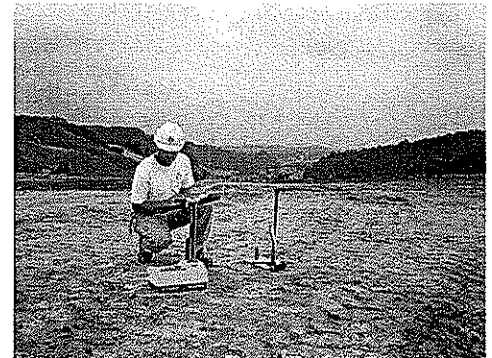


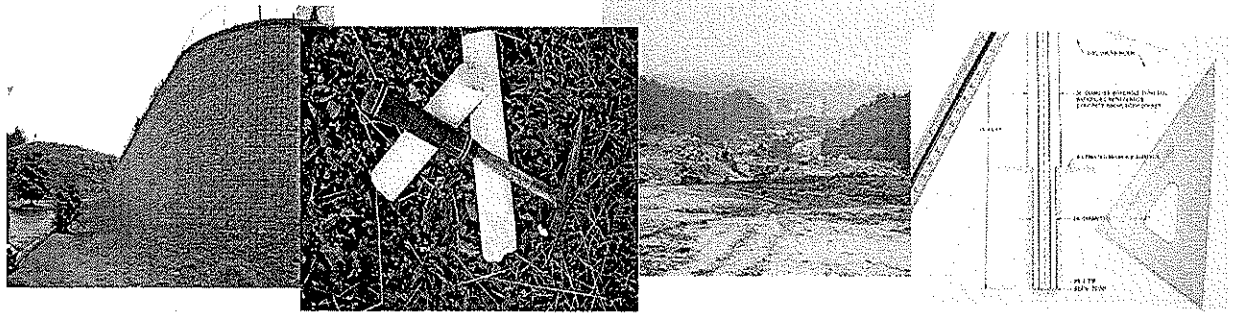
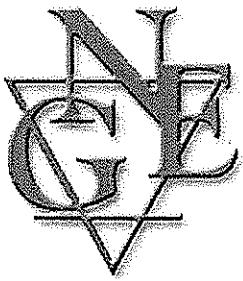


## Construction Monitoring and Inspection Services

NGE offers inspection services to support a wide variety of construction projects, including highway, building, and airport. Our technicians are qualified and certified in a variety of services and will meet the specific needs of the client in an efficient and competent manner. NGE is also a West Virginia certified DBE firm as well as a federal Disadvantaged Business (8[a]). NGE can provide and manage the following services:

- Materials Testing and Analysis (concrete, asphalt, fill placement)
- Independent Construction Inspection
- Contractor Submittal and Shop Drawing Review
- Documentation and Process Verification
- Bidding Assistance and Analysis
- Cost Estimating and Cost Control Monitoring
- Design Review
- Value Engineering
- Project Partnering
- Quality Assurance Monitoring





## Laboratory Testing Services

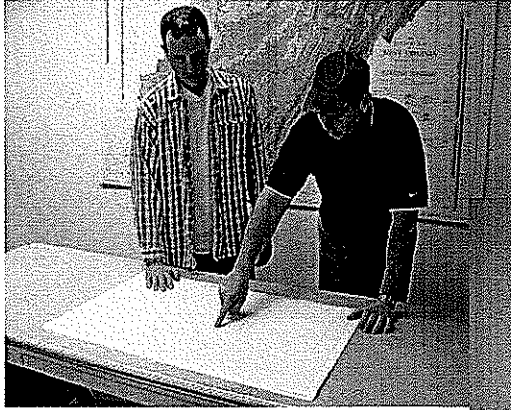
NGE can provide laboratory geotechnical testing in accordance with ASTM standards under controlled conditions to further estimate the engineering properties of soil and rock materials. Typical laboratory testing includes soil classification, compaction, compressibility, swell potential, and permeability.



## Crosshole Sonic Logging (CSL)

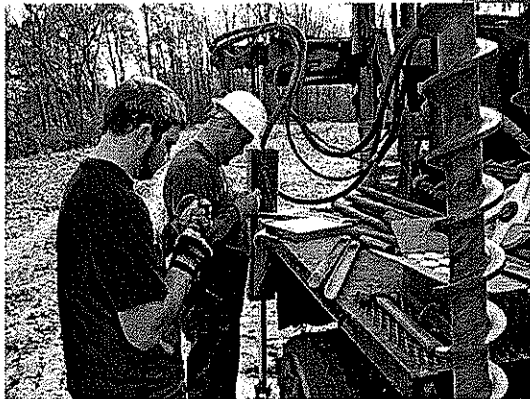
NGE provides Crosshole Sonic Logging (CSL) to test the integrity of drilled concrete shafts. CSL testing is a non-destructive method that checks the homogeneity and integrity of concrete in a deep foundation by sending ultrasonic pulses through the concrete from one probe to another. The test measures the propagation time and relative energy of the ultrasonic pulse between parallel access tubes (access tubes typically consist of 2-inch diameter steel tubes attached to the drilled shaft reinforcement cage). The pulse arrival time (a.k.a. first arrival time (FAT)) and energy are affected by the concrete. Uniform concrete yields consistent arrival times with reasonable wave speed and energy. Non-uniformities such as zones of poor quality concrete, honeycombing, voids, and soil inclusions exhibit delayed arrival times with corresponding reduced signal energy.

NGE's broad range of experience in each of the previously listed services enables us to provide our clients with high-quality geotechnical engineering, remediation and construction services while meeting budgets and deadlines.



## *Personnel*

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# Amy L. Veltri, P.E., DEE



Over eleven years of experience as an environmental and civil engineer in consulting and industry. Currently serving as president of a geotechnical and environmental engineering consulting firm. Experience includes extensive management of personnel and large projects, including management of project schedules, scope of work, and budgets. Personnel management includes selection of project staffing, staff reviews, and mentoring. Significant experience in air quality for various industrial clients including Title V permitting and compliance, emissions inventories and control technology assessments. Completed numerous multimedia regulatory compliance audits and Phase I site assessments. Assisted clients with ISO 14001 registration process. Assisted industrial clients with NPDES permit compliance including completion of DMR's and permit renewal and negotiation. Completed general construction monitoring services including density testing and concrete testing.

## Fields of Competence

- Personnel Management
- Project Management (schedule and budget)
- Air Quality Regulations/Compliance
- Wastewater Treatment/Permitting
- Environmental Management Systems (ISO 14001)
- Process Safety Management/Risk Management Planning
- Multimedia Compliance Audits
- Hazardous Waste Training
- Stormwater Permitting/Pollution Prevention Plans
- Spill Prevention Control and Countermeasure Plans
- Construction Monitoring and General Geotechnical Engineering

## Education

- M.S., Civil Engineer, West Virginia University, 1996
- B.S., Civil Engineer, West Virginia Institute of Technology, 1989
- OSHA 1910.120 40-hour HAZWOPER Training, 1991

## Registration/Certifications

- Registered Professional Engineer in Pennsylvania. Registration No.: PE-050393-E, Registration Date: 08/96
- Registered Professional Engineer in West Virginia. Registration No.: 14241, Registration Date: 09/99
- Diplomat Environmental Engineer, American Academy of Environmental Engineers, 07/02
- Certified Wastewater Treatment Plant Operator, Class A in Pennsylvania. Certificate No.: T3770, Registration Date: 06/01
- Certified ISO 14001 Lead Assessor, 04/02

## Employment History

- August 2002 - Present  
President, Novel Geo-Environmental, LLC
- August 1998 - August 2002  
Senior Project Manager, ERM
- November 1995 - August 1998  
Regional Environmental Coordinator, US Airways
- March 1992 - November 1995  
Project Engineer, ERM
- January 1990-September 1990  
Staff Engineer, ERM

# John E. Nottingham, P.E., P.S.



Mr. Nottingham has served as lead Geotechnical Engineer on numerous government and commercial design and construction projects. His responsibilities on these projects include direction and coordination of all geotechnical engineering activities. Duties on these projects have included foundation investigation report production, foundation and retaining wall design, fill embankment and cut slope design, dam design and analysis, slope stability analysis, pavement design, design of drainage systems, supervision of subsurface drilling programs, field activity coordination, laboratory data computation and processing, performance of field work, client relations, and supervision of staff and project level geotechnical engineers.

## Fields of Competence

- Highway & Airport Geotechnical Design
- Foundation Investigations
- Pavement Analysis and Design
- Landslide Analysis & Remedial Design
- Ground Water and Seepage Analysis & Design
- Retaining Wall Design
- Mine Subsidence Investigations
- Forensic & Insurance Investigations
- Construction Monitoring
- Personnel Management
- Project Management (schedule and budget)
- Project Estimating

## Education

- B.S., Civil Engineering, West Virginia University - 1987
- M.S., Civil Engineering, West Virginia University - 1995

## Registration/Certifications

- Registered Professional Engineer in West Virginia. Registration No. 12357 (since 1994)
- Registered Professional Surveyor in West Virginia. Registration No. 1495 (since 1995)

## Employment History

- November 2002 - Present  
Branch Manager, Novel Geo-Environmental, LLC
- 1997 - November 2002  
Geotechnical Services Manager, Triad Engineering, Inc.
- 1996 - November 2002  
Senior Engineer, Triad Engineering, Inc.
- 1993 - 1996  
Project Engineer, Triad Engineering, Inc.
- 1988 - 1993  
Staff Engineer, Triad Engineering, Inc.

# Larry C. Nottingham, PhD, PE



Mr. Nottingham served as a Principal Engineer at Triad Engineering, Inc. for over 25 years before joining the professional staff at NGE. During that time he has accumulated a broad range of experience in the numerous disciplines of geotechnical engineering. Mr. Nottingham also served as a professor and department chair of the Civil Engineering Department at the West Virginia University Institute of Technology in Montgomery, West Virginia. Mr. Nottingham was involved with consultation and review of many subsidence related projects performed for BRIM as well as the WVDEP.

## Fields of Competence

- Foundation Investigations
- Landslide Analysis & Remedial Design
- Mine Subsidence Investigations
- Highway & Airport Geotechnical Design
- Pavement Analysis & Design
- Retaining Wall Design
- Forensic & Insurance Investigations
- Expert Witness Consultation
- Ground Water and Seepage Analysis & Design
- Dam Analysis & Design
- Personnel Management
- Project Management
- Project Estimating

## Education

- B.S.C.E., Civil Engineering, West Virginia Institute of Technology, 1965
- M.S.C.E., Civil Engineering, University of Pittsburgh, 1966
- Ph.D., Civil Engineering, University of Florida, 1975

## Registration/Certifications

Registered Professional Engineer in West Virginia, Kentucky, and Ohio

## Employment History

- May 2005 – Present  
Senior Engineer, Novel Geo-Environmental, PLLC
- 1979 – May, 2005  
Principal Engineer, Triad Engineering, Inc.
- 1989 - 1994  
Professor and Department of Civil Engineering Chair, West Virginia Institute of Technology
- 1975 - 1979  
Senior Engineer, Fugro Gulf, Inc., Houston, Texas
- 1970 - 1974  
Project Engineer, Florida Department of Transportation
- 1967 – 1970  
Project Engineer – Ackenheil & Associates, Inc.



# Chuck Montgomery, P.G



Mr. Montgomery has served as Project Geologist on numerous projects for clients in private industry as well as for state and federal agencies. He has performed a variety of roles in various projects from office management activities to coordination of field activities. Duties on these projects have included foundation investigation report production, mine subsidence evaluation and assessment, supervision of subsurface drilling programs, field activity coordination, laboratory data computation and processing, performance of fieldwork, client relations, and supervision of staff.

## Fields of Competence

- Foundation Investigations
- Landslide Analysis
- Mine Subsidence Investigations
- Seismic Site Class evaluation, per International Building Code (IBC) 2000 edition.
- Forensic & Insurance Investigations
- Personnel Management
- Project Management (schedule and budget)
- Project Estimating

## Education

- B.S., Geology, Marshall University - 1991
- OSHA 1910.120 40-hour HAZWOPER Training, 1992

## Registration/Certifications

- Registered Professional Geologist in Kentucky. Registration No. KY-2258 (since 1999)
- Certified Monitoring Well Driller in West Virginia
- OSHA 1910.120 40-hour HAZWOPER Training, 1992

## Employment History

- February 2004 - Present  
Project Manager, Novel Geo-Environmental, LLC
- 1996 - February 2004  
Project Geologist, Triad Engineering, Inc.
- 1992 -1996  
Staff Geologist, Triad Engineering, Inc.

# Gene Brown, E.I.



Mr. Brown has served as Staff Engineer on numerous projects for clients in private industry as well as for state and federal agencies. He has performed a variety of roles in various projects from office management activities to coordination of field activities. Duties on these projects have included foundation investigation report production, slope stability analysis, dam analysis, AutoCAD drafting, supervision of subsurface drilling programs, field activity coordination, field portion of environmental site assessments, structural inspections, GPS and conventional surveys, laboratory data computation and processing, performance of fieldwork, client relations, and supervision of staff.

## Fields of Competence

- Foundation Investigations
- Landslide Analysis & Remedial Design
- Seismic Site Class evaluation, per International Building Code (IBC) 2000 edition.
- Construction Monitoring
- Personnel Management
- Project Management (schedule and budget)
- Project Estimating

## Education

- BS, Civil Engineering Technology, Bluefield State College, 2000
- BS, Architectural Engineering Technology, Bluefield State College, 2000

## Registration/Certifications

- Engineer Intern, West Virginia
- OSHA 1910.120 40-hour HAZWOPER Training, 2005

## Employment History

- October 2006 - Present  
Staff Engineer, Novel Geo-Environmental, LLC
- 2001 - 2006  
Staff Engineer, Terradon Corporation
- 2000 - 2001  
Survey Technician, John E. Chance & Associates, Inc
- 1999  
Engineer Intern, Burgess & Niple, Ltd.

# Christopher T. Dunlap



Mr. Dunlap has served as an engineering technician/field inspector on numerous government and commercial construction projects. His duties on these projects have included quality assurance/quality control (QA/QC), construction oversight and testing, coordination of field activities, liaison between general contractor and engineer, and project reporting. Mr. Dunlap also has experience with drilling inspection and computation of laboratory data.

## Fields of Competence

- Fill placement monitoring/compaction
- Concrete testing and sampling
- Asphalt testing/compaction
- Project Management
- Drilling Inspection
- Project Documentation/Reporting

## Education

- A.S., Mechanical Engineering Technology, WVU Institute of Technology, 2000

## Registration/Certifications

- Certification for WV DOH Compaction Technician.
- Certification for WV DOH Concrete Technician/Inspector.
- Certification for WV DOH Asphalt Inspector.
- American Concrete Institute (ACI) Certified

## Employment History

- July 2004 -Present  
Staff Engineer, Novel Geo-Environmental, LLC
- August 2000 -July 2004  
Field Technician, Triad Engineering, Inc.



Mr. Easter has approximately 39 years experience as quality control technician/inspector and environmental technician. As a geotechnical technician, he has provided quality control overnight and testing services on numerous commercial and industrial projects. His duties have included compaction and concrete testing and observations, liaison between the general contractor and Engineer/Owner, and project reporting. He also has experience as a soils and concrete laboratory technician and as an engineering draftsman.

#### Fields of Competence

- Compaction testing and fill placement monitoring
- Concrete testing and sampling
- Drilling inspection
- Project documentation/reporting
- Geotechnical laboratory testing
- Concrete laboratory testing
- AutoCAD drafting and design

#### Education

- Certificate - Computer Aided Drafting and Design; Ben Franklin Career Center, 2005
- Troxler Nuclear Moisture-Density Gauge Certification, 2005

#### Employment History

- 1970 - 2004  
Flexsys America  
Environmental Technician  
Laboratory Analyst  
Operating Technician  
Master Mechanic
- 1966 - 1970  
A. C. Ackenheil & Associates, Inc.  
Compaction Technician  
Concrete Technician  
Soils & Concrete Laboratory Technician  
Engineering Draftsman

**section 6**

**RANDOLPH ENGINEERING  
WVDEP AML CCQQ**

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE Attac. ant "B"

PROJECT NAME: RANDOLPH ENGINEERING CO., INC.  
 DATE (DAY, MONTH, YEAR): November 4, 2009  
 FEIN: 550588736

1. FIRM NAME: RANDOLPH ENGINEERING CO., INC.  
 2. HOME OFFICE BUSINESS ADDRESS: P.O. BOX 346 - 4414 TEAYS VALLEY ROAD, SCOTT DEPOT, WV 25560  
 3. FORMER FIRM NAME: (Blank)

4. HOME OFFICE TELEPHONE: 304.757.9217  
 5. ESTABLISHED (YEAR): 1976  
 6. TYPE OWNERSHIP: CORPORATION  
 6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES NO

7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE  
 4414 TEAYS VALLEY ROAD, SCOTT DEPOT, WV 25560/304.757.9217/AARON C. RANDOLPH, P.E./10

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM: ROGER K. RANDOLPH, P.E. - PRESIDENT  
 8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS

PERSONNEL BY DISCIPLINE	8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS
4 ADMINISTRATIVE ARCHITECTS	— LANDSCAPE ARCHITECTS
— ARCHITECTS	— MECHANICAL ENGINEERS
— BIOLOGIST	— MINING ENGINEERS
1 CADD OPERATORS	— PHOTOGRAMMETRISTS
— CHEMICAL ENGINEERS	— PLANNERS: URBAN/REGIONAL
3 CIVIL ENGINEERS	— SANITARY ENGINEERS
— CONSTRUCTION INSPECTORS	— SOILS ENGINEERS
3 DESIGNERS	— SPECIFICATION WRITERS
— DRAFTSMEN	—
	— STRUCTURAL ENGINEERS
	— SURVEYORS
	— TRAFFIC ENGINEERS
	— OTHER (Survey Personnel)
	— OTHER (Construct. Admin.)
	15 TOTAL PERSONNEL

9. TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 3  
 \*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.

10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE?  YES  NO

11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Confidential Qualification Questionnaire".

<p>NAME AND ADDRESS:  <b>NOVEL GEO-ENVIRONMENTAL, PLLC</b>  <b>806 B STREET</b>  <b>ST. ALBANS, WV 25177</b></p>	<p>SPECIALTY:  <b>SOILS/ENVIRONMENTAL</b></p>	<p>WORKED WITH BEFORE  <input checked="" type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>

12. A Is your firm experienced in Abandoned Mine Lar<sup>3</sup>s Remediation/Mine Reclamation Engineering?

Yes Description and Number of Projects: \_\_\_\_\_

**NO. However, we have successfully completed numerous projects that have included storm water analysis, detention and collection as well as projects requiring extensive grading and earthwork.**

B. Is your firm experienced in Soil Analysis?

YES Description and Number of Projects: \_\_\_\_\_

**NO. We have a commitment from Novel Geo-Environmental for this work if required.**

C. Is your firm experienced in hydrology and hydraulics? YES

**YES Description and Number of Projects: We have performed more than 50 land development projects as well as stand alone storm water projects that have required hydraulic analysis, storm water management, storm water detention, sediment & erosion control, WVDEP and US Army COE permitting and involvement.**

NO

D. Does your firm produce its own Aerial Photography and Develop Contour Mapping? NO/YES

**YES Description and Number of Projects: We do not produce Aerial Photography. We do develop our own contour and topographic mapping from GPS and/or traditional surveying. We develop topographic mapping for more than 75 projects per year.**

NO

E. Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.) YES

**YES Description and Number of Projects: We have extensive experience in domestic water distribution design. We have designed projects for Putnam PSD, City of Hurricane as well as the Putnam County Commission. These projects have ranged from plant upgrades, line extensions and water storage tanks and impoundments.**

NO

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

YES Description and Number of Projects: \_\_\_\_\_

NO



13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)	
NAME & TITLE (Last, First, Middle Int.) <b>Randolph, Roger K.</b> <b>Project Manager/Design Engineer</b>	YEARS OF AML DESIGN EXPERIENCE: <b>32</b>
YEARS OF AML RELATED DESIGN EXPERIENCE: <b>32</b>	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: <b>32</b>
Brief Explanation of Responsibilities  <b>Project Manager and design engineer for numerous land development, domestic water distribution, storm water, earth moving projects.</b>	
EDUCATION (Degree, Year, Specialization) <b>B.S. / 1967 / Civil Engineering – Ohio University</b>	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS <b>American Society of Civil Engineers</b> <b>National Society of Professional Engineers</b>	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)	
NAME & TITLE (Last, First, Middle Int.) <b>Randolph, Aaron C.</b> <b>Project Manager/Design Engineer</b>	YEARS OF AML DESIGN EXPERIENCE: <b>13</b>
YEARS OF AML RELATED DESIGN EXPERIENCE: <b>13</b>	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: <b>13</b>
Brief Explanation of Responsibilities  <b>Project Manager and design engineer for numerous structural and civil projects including storm water drainage structures, retaining walls, earthmoving/site grading and construction engineering services.</b>	
EDUCATION (Degree, Year, Specialization) <b>B.S. / 1992 / Civil Engineering – WV Institute of Technology</b> <b>M.S. / Pending Thesis – WV University</b>	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS <b>American Society of Civil Engineers</b>	
REGISTRATION (Type, Year, State) <b>Civil / 1997 / WV</b> <b>Survey Intern / 2002 / WV</b>	

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)	
NAME & TITLE (Last, First, Middle Int.) <b>White, Jacob C.          Project Manager/Design Engineer</b>	YEARS OF AML DESIGN EXPERIENCE: YEARS OF AML RELATED DESIGN EXPERIENCE: <b>10</b> YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities <b>Project Manager and design engineer for numerous land development, roadway, storm water and permitting projects. Also, responsible for wetland and stream delineation.</b>	
EDUCATION (Degree, Year, Specialization) <b>B.S. / 1997 / Civil – WV Institute of Technology</b>	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS <b>American Society of Civil Engineers</b>	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)	
NAME & TITLE (Last, First, Middle Int.) <b>Hayes, Donald R.          Survey Manager/Project Manager</b>	YEARS OF AML DESIGN EXPERIENCE: YEARS OF AML RELATED DESIGN EXPERIENCE: <b>29</b> YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: <b>29</b>
Brief Explanation of Responsibilities <b>Manager responsible for all surveying and various land development, storm water and utility design projects.</b>	
EDUCATION (Degree, Year, Specialization) <b>A.S. / 1970 / Civil Engineering</b>	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS <b>WV Land Surveyors Association</b>	
REGISTRATION (Type, Year, State) <b>P.L.S. / 1991 / WV</b>	

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.) <b>Call, Stacey Sr. Survey Designer</b>		YEARS OF AML DESIGN EXPERIENCE: EXPERIENCE: <b>20</b>	YEARS OF AML RELATED DESIGN EXPERIENCE: EXPERIENCE: <b>20</b>
Brief Explanation of Responsibilities <b>Coordinator for all surveys and mapping for numerous land development, roadway, storm water and permitting projects. Also, responsible for site and water line design.</b>			
EDUCATION (Degree, Year, Specialization) <b>Hurricane High School, 1987</b>			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State) <b>S.I.T./2003/WV</b>	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)			
NAME & TITLE (Last, First, Middle Int.) <b>Mitchell, Edward Sr. Construction Administrator</b>		YEARS OF AML DESIGN EXPERIENCE: EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: EXPERIENCE:
Brief Explanation of Responsibilities <b>Construction Manager responsible for all construction administration and inspection portions of design projects.</b>			
EDUCATION (Degree, Year, Specialization) <b>B.S./1980/Business Administration</b>			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES
<b>SOFTWARE:</b> Autocad 2008, Land Development Desk Top 2008, MS Word, Excel, Wordperfect, Quattro Pro, Microstation V8, In-Roads, V8, HEC-RAS Software, HydroFlow -- Hydrographs, HydraFlow -- Storm Sewer, VTPSU-HM

**HARDWARE:** 12~Pentium Desktop Computers w/21" Monitors, HP Laptop Computer, Konica BizHub Color Printer/Copier, OCE 300 Large Format Plotter/Scanner, Sharp Office Copier, HP large Format Color Plotter

**SURVEY EQUIPMENT:** Leica Total Stations, Topcon Hyper Plus RTK GPS System

15. CUR T ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATE ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
City of Hurricane Raw Water Impoundment Analysis and Permitting (Phase 2)	The City of Hurricane 3255 Teays Valley Road Hurricane, WV 25526	Design, Analysis and Permitting	\$2,000,000	50%
Sycamore Landfill Leachate Line	The City of Hurricane 3255 Teays Valley Road Hurricane, WV 25526	Design, Analysis, Permitting and R/W	\$1,000,000	100%
WV Self Storage Stream Analysis	Mr. Rusty Reed 1677 Grannies Creek Rd Newton, WV 25266	Hydraulic Analysis	N/A	100%
Tri-State Hotels Site Design	Junior Patel	Site, Stormwater, Retaining Wall Design and Permitting	1,200,000	95%
Augusta Engineering Flood Plain Analysis	Tom Putney	Hydraulic Analysis	N/A	100%
Massey HQ Site Design and Access Road	Massey Energy Services 315 70 <sup>th</sup> Street S.E. Charleston, WV 25304	Site, Stormwater, Pond Design, Access Road, Water and Sewer Design and Permitting	\$3,000,000	100%
Advocat Care Nursing Home Site Design	AB Contracting 5521 Ohio River Road Pt. Pleasant, WV 25550	Site, Stormwater, Pond Design, Access Road, Water and Sewer Design and Permitting	\$500,000	95%
TOTAL NUMBER OF PROJECTS:			TOTAL ESTIMATED CONSTRUCTION COSTS: \$	

15. CUI FT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATI ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
WVDNR - Babcock and Pipestem State Park WWTP Replacements	WVDNR 1900 Kanawha Blvd. E Charleston, WV 25305	Design, Analysis and Permitting	\$750,000	90%
Castlenock Ridge Subdivision	DARR Inc. 4414 Teays Valley Road Scott Depot, WV 25560	Design, Analysis, Permitting	\$500,000	Phase 1 - 100% Phase 2 - 25%
Hobet Mining Bridge Inspections	Hobet Mining Co. P.O. Box 305 Madison, WV 25130	Structure Inspection	N/A	90%
Hobet Mining Conveyor Truss Inspections	Hobet Mining Co. P.O. Box 305 Madison, WV 25130	Structure Inspection	N/A	90%
Armed Forces Reserve Center - Kenova National Guard Armory Expansion	WV National Guard	Structural & Site Engineering	2,200,000	90%
Dollar General Stores, Inc.	LandVest USA, LLC	Site, Stormwater, Permitting and Structural Design	\$1,250,000	80%
Clark Trucking Expansion Project	Clark Trucking, Inc. Bancroft, WV	Site, Stormwater, Water and Sewer Design and Permitting	\$500,000	95%
TOTAL NUMBER OF PROJECTS: 14			TOTAL ESTIMATED CONSTRUCTION COSTS: \$12,400,000.00	



17. CUMULATED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS THE DESIGNATED ENGINEER OF RECORD		AS THE DESIGNATED ENGINEER OF RECORD		
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Toyota Stormwater Analysis Buffalo, WV	Toyota Motor Manufacturing of WV, 1 Sugar Maple Lane, Buffalo, WV 25033	N/A	2003	N/A
The Ridges Site Development Alum Creek, WV	AB Contracting Company 5521 Ohio River Road Pt. Pleasant, WV 25550	\$5,000,000	2003	Yes
Castlenock Ridge Site Development Teays Valley, WV	DARR, Inc. P.O. Box 346 Scott Depot, WV 25560	\$1,500,000	2005	Yes
City of Hurricane Raw Water Storage Impoundment Alternative Study and Permitting	City of Hurricane 3255 Teays Valley Road Hurricane, WV 25526	N/A	2006	N/A
Finney Branch Spillway Hydraulic Analysis	Hatfield Enterprises, Inc. 400 North Poplar Fork Road Hurricane, WV 25526	\$500,000	2006	Yes
Buffalo Stormwater Outfall	Town of Buffalo P.O. Box 307 Buffalo, WV 25033	\$300,000	2006	Yes
US Route 35/Winfield Road Center Turn Lane Project	WVDOT 1900 Kanawha Blvd. East Charleston, WV 25301	\$4,500,000	2003	No
Teays Church of God Access Road and Site Survey	Teays Church of God Scott Depot, WV 25560	\$250,000	2006	Yes



17. C	COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD	PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
		Martha Bridge	WVDOT 1900 Kanawha Blvd., East Charleston, WV 25305	\$1,500,000	2006	Yes
		Montcalm Arch Bridge	WVDOT 1900 Kanawha Blvd., East Charleston, WV 25305	\$1,700,000	2006	Yes
		Strange Creek Bridge	WVDOT 1900 Kanawha Blvd., East Charleston, WV 25305	\$1,200,000	2009	Under Construction
		Toyota Auditorium	Toyota Motor Manufacturing, WV Buffalo, WV	\$750,000	2007	No
		Putnam PSD - Morrison Hollow Water Line Extension	Putnam PSD Hurricane, WV	\$400,000	2006	Yes
		I-64/South Charleston/Dunbar Bridge Retaining Wall	WVDOT 1900 Kanawha Blvd., East Charleston, WV 25305	\$125,000	2009	Yes
		Sheetz, Inc. Retaining Wall	Sheetz, Inc. 351 Sheetz Way Claysburg, PA 16625	\$121,000	2009	Yes
		City of Hurricane W.W.T.P. Expansion	City of Hurricane 3255 Teays Valley Road Hurricane, WV 25526	\$10,500,000	2004	Yes

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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
Little General Store HQ Building Design Beckley, WV	Cox Oil Company 623 Perkins Street Union City, TN 38261	\$200,000	2006	Yes	J. Dan Snead & Associates, Architect
Mt. State University Health Building Design	Mt. State University Beckley, WV	\$700,000	2005	Yes	J. Dan Snead & Associates, Architect

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program. **We have extensive experience with projects of similar scope and tasks including site design, earthmoving, hydraulic analysis, stormwater management, permitting, surveying and construction management.**

20. The foregoing is a statement of facts.

Signature: *Roger K. Randolph*

Printed Name: Roger K. Randolph

Title: President

Date: 10/4/09

**section 7**  
**EXPERIENCE MATRIX**

AML and RELATED PROJECT EXPERIENCE MATRIX

PROJECT	Exp. Basis C=Corp. P=Personal	Additional Info Provided in Section (s)	PROJECT EXPERIENCE REQUIREMENTS													PARTICIPATION/CAPACITY							
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/ Replacement	Construction/Managem ent	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Roger K. Randolph	Jacob C. White	Donald R. Hayes	Aaron C. Randolph		
Hurricane Water Impound.	C	3				X														M	P	P	
Sycamore Landfill	C	3										X								M,P		P	
WV Storage Stream Analysis	C	3				X															M,P		
Augusta Erg. Flood Plain Anal.	C	3				X															M,P		
Poplar Fork Flood Mitigation	C	3				X														M,P		P	
Punam PSD Water Extension	C	3										X								M,P		P	
Massey HQ Site Design	C	3				X						X								M	P	P	P
Finney Branch Spillway	C	3				X														M	P	P	
Beaver Creek Bridges	C	3				X														M		P	M,P
Toyota Storm Water Analysis	C	3				X															M,P		P
Buffalo Storm Water Outfall	C	3				X														M		P	P
Bancroft Storm Water Anal.	C	3				X														M,P		P	
The Ridges Site Development	C	3				X														M		P	P

\* List whether project experience is corporate or personnel based or both.

\*\* Use this area to provide specific sections or pages if needed for reference.

\*\*\* List Primary Design personnel and their functional capacity for the projects listed.

**AML and RELATED PROJECT EXPERIENCE MATRIX**

PROJECT	Exp. Basis C=Comp. P=Personal	Additional Info Provided in Section (s)	PROJECT EXPERIENCE REQUIREMENTS													PARTICIPATION/CAPACITY ****								
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	M=Management	P=Professional					
Tackett's Branch Water Line	C	3										X	X			M	P				Donald R. Hayes, P.L.S.	Jacob C. White, P.E.	Aaron C. Randolph, P.E.	Stacey Call, S.I.
Sovine Road Water Line	C	3										X	X			M	P							
Hurricane Raw Water Storage	C	3					X							X		P	M							
Vienna Water Modeling	C	3				X										M,P								
Hurricane Water System/Tank	C	3				X									X									
Buffalo Water System/Tank	C	3				X									X									
Putnam County Water System	C	3				X									X									
WV DNR Sanitary Sewer	C	3				X									X									
Sycamore Landfill Leachate	C	3				X									X									
Hobet Mining Site Complex	C	3				X									X									
Castlenock Subdivision	C	3				X									X									

\* List whether project experience is corporate or personnel based or both.

\*\* Use this area to provide specific sections or pages if needed for reference.

\*\*\* List Primary Design personnel and their functional capacity for the projects listed.